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FIGURE 2508

ATAGTGACAAGTTTGGGAAGAAGGTCCAGCTATGGAGGAAGTTCATATGGGAATAGTACTAACAATGTCCCAGCAT
CTTCCTCTACAGCTACAGCTTCCACACAGACGCAGCATTCGGGAATGTCCCCGTCACCTAGCAACAGTTATGACA
CTTCCCCACAGCCTTGCACTACCAATCAAAATGGGAGGGAGAAATAATGAGCGATTATCTACATCCAATGGAAAGA
TGTCACCAACTCGCTACCATGCAAACAGCATGGGTGAGAGGTCATACAGTTTTGAAGCCTCAGAAGAGGACCTAG
ATGTAGATGATAAAGTGGGAAGAATTAATGAGGAGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTG
CCAATCGGAGGATTTCCCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGT
TGCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTTGAGAAGACAAACC
CTGGCGCTACACTAAGTATGAGACCAGCCCCATTCCAATAGAGGACCCTGAATGGAGACAAACGCCTCCCCCAG
TCTCTGCCACATCTGGTACTTTCCGACTGCGACGAGGGAGTCGATTTACCTGGAGAAAGGAGTGCCTGGCTGTTA
TGGAAGTTACTTCAATGAGAATCAATACCCAGATGAAGCAAAGAGGGAAGAAATTGCAAACGCTTGCAATGCAG
TTATACAGAAGCCAGGCAAAAAGCTGTCAGATCTGGAAAGAGTTACCTCCCTGAAAGTATATAATTGGTTTGCTA
ACAGAAGGAAGGAGATCAAGAGGAGAGCCAATATTGAAGCAGCAATCCTGGAGAGTCATGGGATAGATGTGCAGA
GTCCAGGAGGCCACTCAAACAGTGATGATGTCGACGGGAATGACTACTCTGAGCAGGATGACAGTACGAGCCATA
GTGACCACCAAGACCCCATCTCATTAGCTGTGGAAATGGCAGCAGTCAACCACACTATCTTGGCATTGGCCCGAC
AAGGAGCCAACGAAATCAAGACAGAGGCCCTGGATGATGACTTGATCAGGGAGGTAAACATGACAAGTTAACTTA
GTTTAGACGTAGCACCTTAGCAGACTTTCCTCGGTCTTAACATGTGTTCTTACAGTATAACTTGCAGTTTCTTG
TATGTAGGTAGCTGTTAGGGTCTTGTTCTGTGAAGATGGCATGGTGCCCTCAGCCTTTGCATATACTCTCTCAG
TATTAATCCCAGTAAATAATAACCAACCAACCAACCAAACTTCCCTCTCCCAGCCCCGAGGCTAGAAAA
TCTTGCTGCTCCGTCTTAGCATTCCAAGAGAGTGCTTCCAGGTATTTAGATAGCCCTCAGTTCTCAAATATTAGA
CTACGTGTAAATCTTGGGTACCTTTAGATTCTTGTAACACTAGTCTGTACTCCCTTTTCTTCCCCAAGACTGA
TAGGATGCAAGCTGAGGTCGTGGCACAGGAATGACAGACACCATTTGGGGAGTATCCACAGAGTCAAAGGAACAC
TAGAATCCCCACCTCAGCGTGAGGATAATTGATTTCCAGCTGCAATAAGCCGTGCCTCATTATAGCCACACTGTG
GCTAGATTATACTTCTTTGGGTGCTGTGCTAAGAATGTCAATGGAAAAAGCCGATCTCAGATTTTGTGTTGAAGTT
AACATGCCTGACACAGACATCCTTTCCTCTCACAAGCTGTGTGACTTAGTAGATAAAATACTGCCTTCTGCCTTT
GGGACCATGATTAAAAACAAAGACAAAAACCAAAGTCATTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2509

MSPSPSNSYDTSPQPCTTNQNGRENNERLSTSNKGKMSPTRYHANSMSGQRSYSFEASEEDLDVDDKVEELMRRDSS
VIKEEIKAFLANRRISQAVVAQVTGISQSRISHWLLQQGSDLSEQKKRAFYRWYQLEKTNPGATLSMRPAPIPIE
DPEWRQTPPPVSATSGTFRLRRGSRFTWRKECLAVMESYFNENQYPDEAKREEIANACNAVIQKPGKKLSDLERV
TSLKVYNWFANRRKEIKRRANIEAAILESHGIDVQSPGGHSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMAA
VNHTILALARQGANEIKTEALDDD

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FIGURE 2510

AGGTGGCGGAGATTGCACCGGAAGACGCTTCCTGGGTTTGAGGAGTTCAGTGA CTGCTATTGAACCACCAAAAGT
CCATT**ATG**AAACTGTATTGCCTGTCAGGGCACCCAACCTTACCATGCAATGTGCTCAAATTCAAATCAACCACCA
TTATGTTGGACTGCGGACTGGACATGACTTCTACCCCTCAATTTCCCTTGCCACTTGTTCAAAGTCCCGGC
TGTCCAATCTTCCTGGCTGGTCCCTGAAGGATGGAAATGCTTTCTTGGACAAGGAGCTAAAGGAGTGCTCGGGTC
ATGTATTTGTGGATTCTGTGCCGGAATTCTGTTTACCAGAGACGGAGCTAATAGATCTGTCTACAGTAGATGTGA
TTCTCATCTCTAACTATCACTGTATGATGGCGCTGCCATACATCACCGAGCACACCGGCTTCACAGGCACAGTGT
ATGCCACGGAACCCACCGTCCAGATCGGCAGGCTTCTCATGGGAAGAGCTGGTGAATTTCAATTGAAAAGAGTGCCAA
AGGCTCAGTCTGCCTCCTTGTGGAAGAATAAGGACATTCAGAGGCTGTTACCTTCTCCTCTCAAGGATGCAGTGG
AAGTCTCAACCTGGAGAAGATGCTATACAATGCAAGAGGTGAACTCTGCCCTTAGTAAAATCCAGCTGGTGGGAT
ATTCTCAGAAAAATTGAGCTTTTTGGTGCGGTCCAGGTGACTCCTCTGAGCTCTGGCTATGCCCTTGGGAGCTCCA
ACTGGATCATCCAGTCTCATTACGAGAAAGTGTCTTATGTCTCTGGATCCTCCTTGCTTACCACACACCCCCAGC
CCATGGACCAAGCTTCTCTCAAAAACAGCGATGTTCTTGTCTTGACAGGGCTTACCCAGATCCCCACTGCAAACC
CAGATGGAATGGTGGGAGAGTTCTGCAGCAACCTAGCTCTGACAGTCCGGAATGGAGGAAACGTGTTGGTTCCCT
GCTACCCCTTCTGGAGTGATCTATGACCTCCTGGAGTGCCATATCAGTACATCGACTCAGCCGGGCTTTCCAGCG
CCCCCTCTACTTCATCTCCCCTGTGGCCAACAGTTCACTGGAGTTTTCCAGATCTTTGCTGAGTGGCTTTGTC
ACAACAAACAGAGTAAGGTGTATCTTCCAGAACCACCTTTCTCTCATGCAGAGCTCATTAGACCAATAAGCTGA
AGCACTACCCAGCATCCACGGAGACTTCAGCAACGACTTTAGACAGCCCTGTGTGGTGTTCACCGGGCACCCCTT
CCCTCCGCTTCGGGGACGTGGTCCACTTCATGGAGCTCTGGGGAAAATCTAGTCTCAATACCGTCATATTCACGG
AACCAGACTTCTCCTACCTGGAAGCCCTGGCTCCTTACCAGCCGCTGGCCATGAAATGCATCTACTGCCCCATCG
ACACCCGGCTGAACTTCATCCAGGTGTCAAAGCTGCTTAAAGAAGTGCAGCCCTGCACGTGGTGTGTCTTGAGC
AGTACACTCAGCCGCCCCCAGCCAGTCCACAGGATGGACCTCATGATCGACTGCCAGCCCCCGCCATGTCCT
ATCGGCGGGCTGAGGTTCTCGCCCTGCCCTTCAAACGTGCGGTACGAGAAGATCGAGATCATGCCAGAGCTCGCAG
ATTCACTGGTGCCCATGGAGATCAAGCCTGGCATCTCCTTGGCAACTGTCTCGGCCGTGCTGCACACCAAAGATA
ACAAGCACTTGCTTCAGCCCCCTCCTCGGCCCGCCAGCCACGAGCGGGAAGAAGAGAAAGCGGGTGAGCGATG
ACGTACCAGACTGCAAAGTCCTGAAGCCTTTGTTGAGCGGTTCCATCCCTGTGGAGCAGTTTGTGCAGACCCCTGG
AGAAGCATGGCTTCAGTGATATTAAGGTGGAGGACACAGCCAAGGGCCATATCGTCCTGCTCCAGGAGGCTGAGA
CGCTCATCCAGATTGAAGAAGACTCGACCCATATCATCTGCGACAATGACGAGATGCTCAGAGTGCGACTGCGGG
ACCTTGTCCTCAAATTCTTACAGAAGTTCT**TG**AGTGGGCCATCTGAGCTACTTCCCTGAAATCCTGCAGTCCCTCA
CTGGCTGCCCTCACAAGCCACCTGAGGAGTGGCATGAGAGGCCATTAACTGTGTCTTTGTGGTGTCTCTGGCTT
AAGGAGTGAAGAGGTGGCTCTTGAGGGAAATGGTCTGGACTTATTCCCAGCACTGTTTCAGGCAAGAAGCTTTCCC
TTTCAACTTCAGGCTCATTTTCTTCTCAACTCTGGCTCTCTCAAGGAGCTGGAGGGTGACAGAAGTGGGACAGGA
GAAGTTTTTCCAAGAGGTTTCATGGGAGGCGGAGGTGACTGGCTGGCTGTCTTGATCAGTCCCAGGCCTCGGCCAG
GGGAGCCAGCCTTTGGTTTCGTTTACTTGCTACAGTGCTGTACGCAATAAGATGATGATCCAAAATATGGTAA
AGTGAACCCATCTGTCTGCATTTTCTACTCTGAGCCATTTGTTAATAAACACTTATTTTTATAT

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FIGURE 2511

MKLYCLSGHPTLPCNVLFKFKSTTIMLDCGLDMTSTLNFLPLPLVQSPRLSNLPGWSLKDGN AFLDKELKECSGHV
FVDSVPEFCLPETELIDLSTVDVILISNYHCMMALPYITEHTGFTGT VYATEPTVQIGRLLMEELVNFIERVPKA
QSASLWKNKDIQRLLPSPLKDAVEVSTWRRCYTMQEVNSALSQIQLVGYSQKIELFGAVQVTP LSSGYALGSSNW
IIQSHYEKVSYSVSGSSLLTTHPQPMDOASLKNSDVLVLTGLTQIPTANPDGMVGEFCSNLALTVRNGGNVLVPCY
PSGVIYDLLECLYQYIDSAGLSSAPLYFISPVANSSLEFSQIFAEWLCHNKQSKVYLPEPPFP HAELIQTNKLKH
YPSIHGDFSNDFRQPCVVFTGHPSLRFGDVVHFMEIHWGKSSLNTVIFTEPDFSYLEALAPYQPLAMKCIYCPIDT
RLNFIQVSKLLKEVQPLHVVCPEQYTQPPPAQSHRMDLMIDCQPPAMS YRRAEVLALPFKRREYKIEIMPELADS
LVPMEIKPGISLATVSAVLHTKDNKHLLOPPPRPAQPTSGKKRKRVSDDVPDCKVLKPLLSGSIPVEQFVQTLEK
HGFSDIKVEDTAKGHIVLLQEATLIQIEEDSTHIICDNDEMLRVRLRDLVLKFLQKF

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FIGURE 2512

CTGCACAGGGAGTTTGTCTTGTGCAAACAATTTCCAAGGCAGCGTTTTCTTCCCTGCCTGGGAGTGCAGGGCTCA
GCGCCTTCACTTTTGAACTGACTCAGAGACCTAAAGAAGCCACCTGGCCAGCGGGAAGGGGGGCGCCGCCGCC
TCCCGGTTTTTGGGCAGCCCTGGCCAGCTCCCTGTGGCCTTGGAGGACTTCCACCGGGCAGGCGTTCCCATGATGC
CAGGCTACCAGGCGCGGGGATTCTTGCAGGCCGGCGCTGCTTTTCTTAGAACCCCTTTCTAGAAAAGTACACC
TGGAGGTTTTGCTTCAAAGAGAGGAGAGGCAGCAGC**ATG**GCGAGTGTCTGTCCCGACGCCTTGGAAGCGGTCC
CTCCTGGGAGCCCGGTGTTGGGACCCAGTGCCTCGGAGGGGCCCTCGGCTGCCCCACCCCTCGGAGCCACTGCTA
GAAGGGGCCGCTCCCCAGCCTTTCACCACCTCTGATGACACCCCTGCCAGGAGCAGCCCAAGGAAGTCCTTAAG
GCTCCACGACCTCGGGCCTTCAGCAGGTGGCCTTTTACGCTGGGCAGAAGGTTTATGTGTGGTACGGGGGTCAA
GAGTGCACAGGACTGGTGGAGCAGCACAGCTGGATGGAGGGTCAGGTGACCGTCTGGCTGCTGGAGCAGAAGCTG
CAGGTCTGCTGCAGGGTGGAGGAGGTGTGGCTGGCAGAGCTGCAGGGCCCCGTGTCCCCAGGCACCAACCCCTGGAG
CCCGGAGCCCAGGCCCTGGCCTACAGGCCCGTCTCCAGGAACATCGATGTCCCAAAGAGGAAGTCGGACGCAGTG
GAAATGGATGAGATGATGGCGGCCATGGTGTGACGTCCCTGTCTCTGCAGCCCTGTTGTACAGAGTCTCTCCCGG
ACCGAGGCCAACTTCTCTGCTTCCCGTGCAGCCCTGCGACCCATGGAAGGAGAGTGGTGACATCTCGGACAGCGGC
AGCAGCACTACCAGCGGTCACTGGAGTGGGAGCAGTGGTGTCTCCACCCCTCGCCCCCACCACCCAGGCCAGC
CCCAAGTATTTGGGGGATGCTTTTGGTTCTCCCCAACTGATCATGGCTTTGAGACCGATCCTGACCCCTTCTCTG
CTGGACGAACCAGCTCCACGAAAAAGAAAGAACTCTGTGAAGGTGATGTACAAGTGCCTGTGGCCAACTGTGGC
AAAGTTCTGCGCTCCATTGTGGGCATCAAACGACACGTCAAAGCCCTCCATCTGGGGGACACAGTGGACTCTGAT
CAGTTCAAGCGGGAGGAGGATTTCTACTACACAGAGGTGCAGCTGAAGGAGGAATCTGCTGCTGCTGCTGCTGCT
GCTGCCGCAGGCACCCAGTCCCTGGGACTCCCACCTCCGAGCCAGTCCCACCCCCAGCATGACTGGCCTGCCT
CTGTCTGCTCTTCCACCACCTCTGCACAAAGCCAGTCTCCGGCCCAGAACATCCTGGCCCCGAGTCTCTCCCTG
CCCTCAGGGGCTCTCAGCAAGTCAGTCTCTGGGTCTTCTGGCACATTCAGGCAGATCATGCATACCAGGCTCTG
CCATCCTTCCAGATCCCAGTCTCACCACACATCTACACCAGTGTGAGCTGGGCTGCTGCCCCCTCCGCCGCTGC
TCTCTCTCTCCGGTCCGGAGCCGGTCGCTAAGCTTCAGCGAGCCCCAGCAGCCAGCACCTGCGATGAAATCTCAT
CTGATCGTCACTTCTCCACCCCGGGCCAGAGTGGTGCCAGGAAAGCCCGAGGGGAGGCTAAGAAGTGCCGCAAG
GTGTATGGCATCGAGCACCGGGACCAGTGGTGCACGGCGTGCCGGTGGAAGAAGGCCTGCCAGCGCTTTCTGGAC
TGAGGCTGTGCTGCAGGTTCTACTCTGTTCTTGGCCCTGCCGGCAGCCACTGACAAGAGGCCAGTGTGTACACAGC
CCTCAGCAGAAACCGAAAAGAGAAAGAACGAAACACGGAGTTTGGGCTCTGTTGGCTAAGGTGTAACACTTAAAG
CAATTTTCTCCCATTTGTGCGAACATTTTATTTTTTAAAAAAA

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FIGURE 2513

MASVLSRRLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPQPFTTSDDTPCQEQPKVLKAPSTSGLQQVAF
QPGQKVYVWYGGQECTGLVEQHSWMEGQVTVWLLEQKLQVCCRVEEVWLAELQGPCPQAPPLEPGAQALAYRPVS
RNIDVPKRKSDAEMDEMMAAMVLTSLSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSS
GVSTPSPPHPQASPKYLGDAGSPQTDHGFETDPPFLLEPAPRKRKNSVKVMYKCLWPNCCKVLRISIVGIKRH
VKALHLGDTVDSQDFKREEDFYITEVQLKEESAAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQ
SSGPEHPGPESLPSGALSXSAPGSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSF
SEPQQPAPAMKSHLIVTSPPRAQSGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRFLD

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FIGURE 2514A

ATGCTCCATGCTGCAAGCTGCAAGGAGAGCCAGGAGGGGTGTCCTCCTGGTGGAAGTTGCGCTTGTTGAAGATG
ATTTATATAAAGAACGAACGAGAAAAAGAAGGAAATCAGATCGAGACCAGCGTTCCGAGCATTTCCCTCCATGG
AGCAGAGTGCTCTTAAGGAATATGAAAAATTGGAATCACGGACCAGAAGGGTTTTGAGCAACACTTATCAGAAAC
TTATTTCAGTCTGTCTTCCCTGGATGACAGCATCCCTAATGGAGTCAAGTATCTCATAAATAGGCTTCTTGCCCTGA
TTGAAAAGCCGACAGTGGACCCAATCTACATTGCATTATTTGGAAGCACTGGGGCTGGGAAGAGCTCCCTGATCA
ATGCCATCATCCAGCAAGCAATGTTTCTACAGTGTCTGGAGAAAGCATATGTACTTCCTGCATTGTACAAGTGA
GCTCTGGCTGCTGTGTGCAGTATGAGGCCAAAATCCACCTTCTGTCTGACCAGGAGTGGAGGGAGGAGCTGAAGA
ACCTGACCAAACCTCCTGCATAGGACGGAGGAGCTGAGCAGAGAAGAGGCAGATGCGTGGAACAGGGATGAGGCAG
TGGAGGAAGCCACCTGGAAGCTACAAATGATTTATGGAATGGGGCAGAGAGTAAGAACTATGAGGAGTTACTGA
GGGCGAAGCCCAAAAGGAAGATCCCCACCTCCAGAGTCATCACCTCAAGGCGGAAGAGGCAGAAGAGCTGTCCA
TCAAGCTGGACCCCTACATCCGCACACAGAGGAGAGATTGGGATGGAGAGGCCGCTGAGATGCGCATCTGGCCCT
TGATCAAACATGTGGAAGTGACACTTCCCAAATCCGACCTGATCCAGAAGGGGTGCTGCTGGTGGACATCCAG
GCACAGGCGACTTCAACAGCAAGAGGGACGAGATGTGGA AAAAGACCATTGACAAGTGCTCAGTGATCTGGGTGA
TCAGCGACATAGAGCGAGTTTCTGGGGGGCAAGCCACGAAGACCTTCTGAATGAGAGCATCAAAGCCTGCCAGC
GGGGCTTCTGTAGGGACGTGGCCCTGGTGGTCACCAAGATGGACAAACTCCACTTGCCAGAATACCTAAGGTCT
CAAAAGTTTTAGAACTTCGGGAGAAGAGAAAACCTGCCAGCTGACTTCAAGGTTCTGGAAGCCTCAGATCTGGTGT
ATACAGTCAGCGCCAGGAGTACTGGCAGCAGGCTCTCCTCACCGAGGAGGAAACGGAAATCCCTAAGTTAAGAG
AATACATCAGGAAGAGCCTCTTGACAAAGAAGAAGAGGACAGTGACCAAGTATGTGACTGAAGCCTTTGGCCTGT
TGCTCCTCACAGATAGTTTCAACTCCACGAAAACCTGCCGAATGAACACTTGCACATGAGTGTCTGCGGAGAT
TTGCGGAAGAGAAGGTTGAGCTGCTGGAGAAGGCCATCGCACAGTGCTTCGCCTGCATGGAGCAGCCTCTGCAAG
AAGGGGTGAGGACCGCCAGGACTTCTTACCGCTGCATCCTCAGAGCATGCTTGGTGAGGAGTAAAGGAAACCAAG
GTTTTTCATCAGACCCTGAAAGCTGTTTGCCTGAAAAATGGCATCTATGCCTCCAGGACTCTGGCGAGAATTGATC
TAAATGAAGCCCTCACTCAGCCCGTCTATGACCAGATCGACCCTGTTTTTGGAAAGCATTTTTTAGGACGGGGAAGC
CCACTGGTTTCAGCTCTGATGCCTCACATAGATGCTTTTAAGCAGTCCCTGCAGGAGAAAATGACAGAAATTGGGA
TAAGAAGTGGCTGGAATATGATAGCTGCAAAAAAATTTCTGATCCAGGAGATAAGTGCCATCCTCGGGGGCC
TGGAGGACCACATCCTCAGAAGGAAGAGGAGGATCTACGAGTCCCTCACTGCCTCTGTCCAGAGTGACCTGAAGC
TCTGTTACGAAGAGGCAGCTCAGATCACGGGCAAAAAGCGTGTGAGCGGATGAAAGATGCCATCAGAAGAGGAG
TGGACCGGCAGGTGGCTGAGGGCATGTTTGAAAGGGGCCAGGAAAGGATGCAGCACCAGTTTCAGCAGCTGAAGG
TACTCTATGCCACATCCTGGATCCTAGACCCCGAGAGGCTCCGGGGGAGGAGAGGAAGCGAGTGCAGAAGACTG
GAATCGTGGAGAAGGTGAAGGGCAGCATCACCCTATGCTGGCCCTTGCTTTCGTCCCAGGGGGATGGCCTCTACA
AGGAGCTTGCAGGGCTGAGCTGCAGGATGGGAGACAATGACAAATGGGACGTGGCCCTTCTCAGGAAGGGGAC
AGCTGTTGCAGGGTGTGATGGAGAACAAGCTATGTACCTACACACCGTCAGCGACTGTGACACCAGCTCCATCT
GTGAGGATTCTTTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTCACAAACGGCGGG
CAAGCATCTGCTGTACCCAGCTGGGGTCCCTGTGCGCCCTGAAGCATGCTGTCTGCGGGCTCTACCTGCTGGTCT
TCCTGATTCTTGTGGGCATCTTCATCTTAGCAGCCTGCTGCCACGCGTGCAGTTCCCGAGAGGACATGACCCAGG
GCTTGCCAGCCCGTGCACGCATTTCAACCTTGTATCCTGGGAGGTCCCTGACAGCAGAGGGTCTGGTACCTGG
GAACAGCCAGGGACAGAAGCTGGGACCCAGGAGCTGTGCAGCAGGGGCTGAGTTGTCTGGGGAGAGCGCTTACC
TGCCCACTCCTGTCCCCGGGGATCGGGACTTCCCAGAGGGTGAAGTGTCCAGGCCGCGCAGCTCCCTGACGACC
TGAAGGCCCTGACTCGCAATGTGAACCGGCTGAATGAGAGCTTCCGGGACTTGCAGCTGCGGCTGCTGCAGGCTC
CGCTGCAAGCGGACCTGACGGAGCAGGTGTGGAAGGTGCAGGACGCGCTGCAGAACCAGTCAGACTCGTTGCTGG
CGCTGGCGGGCGCAGTGCAGCGGCTGGAGGGCGCGCTGTGGGGGCTGCAGGCGCAGGCGGTGCAGACCGAGCAGG
CGGTGGCCCTGCTGCGGGACCGCACGGGCCAGCAGAGCGACACGGCGCAGCTGGAGCTCTACCAGCTGCAGGTGG
AGAGCAACAGTAGCCAGCTGCTGCTGAGGCGCCACGCGGGCTGCTGGACGGGCTGGCGCGCAGGGTGGGCATCC
TGGGCGAGGAGCTGGCCGACGTGGGCGGCGTGTGCGCGGCCCTCAACCACAGCCTGTCTACGACGTGGCCCTCC
ACCGCACGCGGCTGCAGGACCTGCGGGTGTGGTGTGAGCAACGCCAGCGAGGACACGCGCCGCTGCGCCTGGCGC
ACGTAGGCATGGAGCTGCAGCTGAAGCAGGAGCTGGCCATGCTCAACGCGGTACCGAGGACCTGCGCCTCAAGG
ACTGGGAGCACTCCATCGCACTGCGGAACATCTCCCTCGCGAAAGGGCCACCGGGACCCAAAGGTGATCAGGGGG
ATGAAGGAAAGGAAGGCAGGCCTGGCATCCCTGGATTGCTGGACTTCGAGGTCTGCCCCGGGGAGAGAGGTACCC

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FIGURE 2514B

CAGGATTGCCCGGGCCCAAGGGCGATGATGGGAAGCTGGGGGCCACAGGACCAATGGGCATGCGTGGGTTCAAAG
GTGACCGAGGCCCAAAAGGAGAGAAAGGAGAGAAAGGAGACAGAGCTGGGGATGCCAGTAAGGACATTCTGCTGG
GGCCGTGGGATATGATCATTACAGATTACTCTTGGCCATGCAGTACACATCAGACACTTCAACTGCCTTCTCTT
CAGTTGCTCATATCAGCTGA

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FIGURE 2515

CTTCCTGCCGCCGCGTTTCGCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCA
GAGAAAAAAAAAATTACTTATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGA
GGGAAATCGTGACATCCAGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATG
AACATGGCATCGACCCCACTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACA
GTGAAGCCACTGATGGCAAATATGTTCTCGTGCCATACTGGTGGATCTAGAACCCCTTCCCACGTCTCCATTTT
TTTATGCCTGGCTTTGCCCCCTCTCACCAGCCATGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTCACC
CAGCAGGTCTTCGATGCCAAGAGCATGATGGCTGCCTGTGACCCCCGCCACGGCCGATACCTCACCCTGGCTGCT
GACTTCCGTGGTTCGGATGTCCATGAAGGAGGTCGATGAGCAGATGTTTAACGTGCAGAACAAAGAACAGCAGCTAC
TTTGTGGAATGGATCCCCAACAAATATCAAGACAGCTGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTC
ACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAAGCACATCTCGGAGCAGTTCACTGCCATGTTCCGC
CGGAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGACGAGA

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FIGURE 2516

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRLSVYYNEATGGKYVPRAILVDLEPGSHVS
ISLCLALPLSPAVEASSIELSQCRNSPSRSSMPRT

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FIGURE 2517

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAAAATTACTT
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTCCCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTCGCTCAGGTCCTTTTGGCC
AGATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAG
AGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCT
TCCAGCTCCCCGCCACGGCCGATACCTCACCCTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGTCTGA
TGAGCAGATGTTTAACGTGCAGAACAAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAAATATCAAGACAGC
TGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCT
CTTCAAGCACATCTCGGAGCAGTT

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FIGURE 2518

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPAEESNMNDLVSEYQQYQDATAEEEEEDFGEEAEAAA

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FIGURE 2519

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAAAATTACTT
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTTCGCTCAGGTCCTTTTGGCC
AGATCTTTAGACCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGT
CGATGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAAATATCAAGAC
AGCTGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGA
GCTCTTCAAGCACATCTCGGAGCAGTTCCTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACAC

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FIGURE 2520

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEFGTMDS
VRSGPFGQIFRPATADTSPWLLSSVVGCP

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FIGURE 2521

CTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTTATTTTCTTGCC
CCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGCACATCCAGGCTGGTCAG
CGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGTCCATGAAGGAGGTGATGAGCA
GATGTTTAACGTGCAGAACAGAAGACAGCAGCTACTTTGTGGAATGGATCCCCAACAAATATCAAGACAGCTGTCTG
TGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAA
GCACATCTCGGAGCAGTTCCTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGA
CGAGATGGAGTTCACCGAGGCTGACAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCAC
CGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCAAAGAGGAGGCCTAAGGCAGAGCCCCATCACCTCAGGCTT
CTCAGTTCCCTTAGCCGTCTTACTCAACTGCCCCTTCTCCTCAGAAATTTGTGTTTGCTGCCTCTATCTTG
TTTTTGTGTTTTTCTTCTGGGGAGGGTCTAGAACAGTGCCCTGGCACATAGTAGGCACTCAATAAATACTTGTTTG
TT

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FIGURE 2522

MREIVHIQAGQQRGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYSEATDGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIRREEYPDRIMNTFSVVPSPKVSDTVIESYNATLSVHQLVENTDETYCIDNEALYDICFRTL RVTTPTYGDL
NHLLRDTMSGVTTCLRFPGLNADLCKLAVNMVFPRLHFFMPGFAPLTSHGSQQYRALTVPELTQQVFDKSM
AACDPRHGRYLTVAADFRGRMSMKEVDEQMFNVQKNSSYFVEWIPNNIKTAVCDIPPRGLKMAVTFIGSSTAIQ
ELFKHISEQFTAMFRRKAFLHWYTGEGMDEMEFTEADSNMNDLVSEYQQYQDATAEEEEEDFGEEAKEEA

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FIGURE 2523

GGGGACGCCGAGGGCGGGCTGCGACGCGCCGAGAGGCCGCGGGCTCTCCACCTGTCACCCTGGCCCTTCTCTGCTT
GGATGGTGTCTTCCCTCCTCAGCCGAGAATGACTTCGTCCACCGGATCCAGGAGGAACTGGACCGCTTTCTGCT
GCAGAAGCAGCTGTCAAAGGTTCTTCTTTTCCCCCACTCTCCAGTCGCCTCCGGTACCTGATCCATAGAACAGC
AGAGAATTTTGATCTCTTGAGCAGCTTCTCCGTTGGGGAGGGCTGGAAGAGGAGGACGGTCATCTGTCACCAGGA
CATCAGGGTACCCAGTTTCGGATGGCCTCTCTGGCCCCCTGCCGCGCTCCTGCCTCCTGCCCCAGCAGGTACCACGG
TCCTCGGCCCATCTCCAACCAAGGAGCAGCTGCGGTTCCCCGAGGTGCCCGGGCTGGCCGGTGGTATCGTGGACG
CAAGCCTGACCAGCCTTTGTATGTGCCCGGGTGCTGCGCAGGCAGGAAGAATGGGGGCTGACCTCTACCTCGGT
GCTCAAGAGAGAGGCCCCAGCTGGCAGGGACCCAGAAGAGCCTGGAGATGTTGGTGCTGGAGACCCCAACTCTGA
TCAGGGACTCCCTGTGCTGATGACTCAGGGAACAGAGGACCTAAAGGGGCCAGGACAAAGGTGTGAGAATGAGCC
ACTGCTGGACCTGTTGGCCCTGAGCCTCTGGGGCCTGAGAGTCAGTCAGGGAAGGGAGACATGGTGGAGATGGC
CACACGGTTTGGGTCCACCCTGCAGCTAGACCTGGAAAAGGGGAAGGAGAGTCTGTTGGAGAAGAGGCTGGTGGC
AGAGGAGGAAGAGGACGAAGAGGAGGTGGAAGAGGATGGCCCCAGCAGCTGCTCGGAGGACGATTACAGTGAGCT
GCTGCAGGAGATCACAGACAACCTGACGAAGAAGGAGATTACAGATAGAGAAGATCCATTTGGACACATCCTCCTT
CGTGGAGGAGCTGCCTGGAGAGAAGGACCTTGCCACGTGGTAGAGATCTATGACTTTGAACCAGCGCTCAAGAC
GGAGGACCTGCTGGCAACGTTTTCTGAGTTCCAAGAGAAGGGGTTTCAGGATTAGTGGGTGGATGATACTCACGC
ACTCGGCATCTTTCCCTGCCTGGCCTCAGCTGCGGAAGCCCTGACCCGGGAGTTCTCGGTGCTCAAGATCCGGCC
CCTCACACAGGGAACCAAGCAGTCAAAGCTCAAAGCCTTGACAGAGGCCAAAACCTCCTGCGTCTGGTGAAGGAGAG
GCCACAGACAAATGCGACTGTGGCCCGGCGGCTGGTGGCCCGGGCCCTGGGACTCCAACACAAAAAGAAAGAGCG
GCCTGCTGTCCGGGGTCCGCTGCCGCCCTGAGGGCCTGGAGACCCAACTGGCCTGGATCTGCGTCCCGACGTAGCT
GGCGCCCCAACACCATAAGCCTTACAGACGCCAGAGCAGCCCCGCACCACCCTCGAGCTTCACCATGGGGTGT
GGTGGGCTTTAGTTTAGTCCCAGAAATGGAGAAAAATAAAAACTCACGTTGTTCT

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FIGURE 2524

MTQGTEDLKGP GQRCENEPLLD PVGPEPLGPESQSGK GDMVEMATRF GSTLQLDLEKGKESLLEKRLVAEEEEDE
EEVEEDGPSSCSEDDYSELLQEITDNLTKKEIQIEKIHLD TSSFVEELPGEKDLAHVVEIYDFEPALKTEDLLAT
FSEFQEKGFRIQWVDDTHALGIFPCLASAAEALTREFSVLKIRPLTQGTKQSKLKALQRPKLLRLVKERPQTNAT
VARRLVARALGLQHKKKERPAVRGPLPP

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FIGURE 2525

CAGGTACCTGGGGGTGGTTAAGTTGGTGACATGGCTCAGAAAGTTTATTTCTTTAAATTTTAAAGTTTTTTTTCTT
TTTAGTCTTCAGAAAGGCAACAGTAGTCTTTTAAAGTCACTGTAAAAGTGTAAGACTCTTTTACTCCCTGAGAG
TCCCCCTTCCCTTTCTTGCGTCCTTTCTCTTTATTCTTTTTTTTTTTTTTTTTTTTACTGAGACGGAGTCTCAC
TCTGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTCACTGCAAACTCCGCCTCCCGGGTTCACCCCTTCT
CTTTATTCTTATCCCGGTCAGACTCGCCCCCTCCTCCAAGACATCTCTCTGTTTTATTTTATTTGATTTTAGTTC
TCTTTGGGTGATCGCTCCTTCCCTCTTCAACGGATCCCTCCCCGCCTCCATCCTCGTTCTGTGGGAGAGACCAGC
CTTCTGGTGCTGCAGTCAAGGAATGGAGCTTGACAGCGCTCTGGAAGCCCCATCGCAGGAAGACTCTAATTTGTCC
GAGGAGTTGTCTCACTCCGCCTTTGGACAGGCCTTCTCCAAGATTTTACACTGTCTTGCCCGCCCGGAGGCACGA
CGAGGCAATGTAAAAGATGCAGTTCTTAAAGACCTCGGTGATCTAATAGAAGCCACAGAATTTGATAGGTTATTT
GAGGGGACTGGTGACGGCTCCGCGGAATGCCGGAGACACTGGGGCAGGTAGCAAAAGCCCTGGAGAAGTATGCA
GCCCCCTCCAAGGAGGAGGAAGGTGGAGGTGATGGGCACTCCGAAGCGGCCGAGAAAGCAGCCCAAGTTGGGTTA
CTGTTTCTTAAACTGTTAGGGAAAGTTGAGACTGCTAAGAATTCCTGGTTCGGCCCTGCATGGCAGACGGGCCTG
CATCACTTGGCAGGACCCGTTTATATTTTTGCCATCACACACAGCTTGGAGCAACCATGGACCACTCCGAGATCT
CGGGAAGTTGCTAGGGAGGTGCTCACCTCACTGCTTCAAGTTACTGAATGCGGTTCTGTGGCAGGATTCTACAT
GGAGAAAATGAAGATGAGAAAGGGAGACITTCGGTGATACTAGGGCTTCTCAAACCCGACTTGTATAAGGAATCC
TGGAAGAATAACCCTGCCATCAAACATGTTTTCTCATGGACTCTGCAACAGGTCACTCGGCCCTGGCTGAGCCAG
CATCTGGAAGGGTACTTCCCGCATCATTTGGTCATTTAGATGACTATCAGACTGAGAACAAAATCCTGGGTGTA
CACTGTCTCCATCACATTGTGCTTAATGTG

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FIGURE 2526

ATGTCCGGGGGCAGCAGCTGCAGCCAGACCCCAAGCCGGGGCCATCCCGGCCACTCGCCGGGTGGTGCTCGGCGAC
GGCGTGCAGCTCCCGCCCGGGGACTACAGCACGACCCCGGCGGCACCGTCTTCAGCACCAACCCCGGGAGGTACC
AGGATCATCTATGACCGGAAATTCCTGATGGAGTGTCGGAACCTCACCTGTGACCAAAACACCCCAAGGGATCTG
CCCACCATTCGGGGGGTCACCAGCCCTTCCAGTGATGAGCCCCCATGGAAGCCAGCCAGAGCCACCTGCGCAAT
AGCCCAGAAGATAAGCGGGCGGGCGGTGAAGAGTCACAGTTTGAGATGGACATTTAA

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FIGURE 2527

AAGTGTCCCCCTCCTACTTCTTGCTGCCTCACGGTTGCTGTTGCAGACCCAGGAGTCTCTGAAGGCTTCCGCGGCT
TTGGGGCCGGTTGTGAGATGCCAGGCAGAGGCCGCTGCCCCGACTGCGGCTCCACGGAGCTGGTGGAAGACTCGC
ACTATTCGCAGAGCCAGCTGGTGTGCTCCGACTGCGGCTGCGTGGTCACCGAGGGGGTCCTTACCACTACCTTCA
GCGACGAGGGCAATCTCCGAGAGGTAACATATTCCCGAAGCACAGGGGAAAACGAACAAGTTAGTCGCAGCCAGC
AACGAGGTCTCCGGCGAGTGAGAGACCTTTGTGAGTTCTGCAGTTGCCACCAACATTTGAGGATACCGCGGTTG
CCTACTACCAACAGGCATATCGGCACTCTGGCATCCGAGCGGCCAGGCTGCAAAAGAAGGAGGTGTTGGTTGGGT
GCTGCGTCTTAATCACCTGCCGACAGCATAACTGGCCCCCTAACAAATGGGGGCCATCTGCACGCTGTTGTATGCAG
ATTTGGATGTGTTTTCTAGCACTTGTCATGCAGATAGTGAAAGCTCCTGGGACTGGATGTGCCATCTCTGTGCTTGG
CAGAACTGGTGAAAGACCTATTGCAGCAGCTTCAAACCTGTTCCAAGCTTCACCTTCTGTGCCAGCCAAATACGTGG
AAGACAAAGAGAAGATGCTGTCTCGAACAATGCAGTTGGTGAGCTGGCAAATGAGACGTGGCTGGTGACCGGGA
GGCATCCCTTGCCCGTCATCACTGCTGCGACTTTCTGGCTTGGCAGTCGCTGCAGCCTGCAGATCGGCTTTTCAT
GTTCCCTTGCCCGATTTTGTAAATTGGCAAATGTGGACCTGCCCTACCCGGCGTCTCTCCCGCCTGCAGGAGCTGC
TGGCTGTGCTGCTGCGGATGGCTGAGCAGCTGGCCTGGTTACGAGTTCTGAGACTTGACAAACGGTCTGTGGTGA
AGCACATCGGTGACCTTCTCCAGCACCGCCAGTCACTGGTCCGCTCTGCCTTTCGGGATGGGACAGCAGAAGTGG
AGACCCGAGAGAAGGAGCCACCGGGGTGGGGACAGGGGCAAGGAGAAGGGGAGGTGGGAAATAATTCCCTTAGGTT
TACCCAGGGGAAGCGGCCGGCCAGTCTGCCCCCTTCTCTTGCCACCCTGCATGTTGAAGTCCCCGAAGCGGATCT
GCCCTGTACCCCCCTGTCTCCACTGTCAGTGGAGATGAGAACATTTCTGATAGTGAAATAGAACAGTATTTGCGTA
CCCCTCAGGAAGTTAGGGACTTTCAGAGAGCCCAGGCTGCTAGACAGGCTGCCACGAGTGTCCCTAACCCCTCCCT
GATGGATATCCACTGGGAGCACTTCATCCTGTTCTGACAGCTTGATAACATTCCTGTTATAACCAAGGATGGAAG
TGTACACCAGTCCGTAGGTATTGCTTTTCTTGTGTTGAAGGAACCAAGAGGGGCTCTGCCATTAGTTGGACCCCTGG
GTCCTGGAGTAAAGTCAGGAGTGCAGGGATGACTATAGGTAGGAGAGATTCCCATCCCTTGGTGTGGGAGAGCAA
GTTGCCTATGTCCATGTTCTGTGAGATGGCTTTCTCATAGATGGATGGGAAAATGTCAGGCTCTTTGCTGCTGG
TTTGAATTGGACACACTGCTGCGGCTCCTCCTGCAGGCCTGAGGGGGCTTCCCTCTGCTTGTGGAGTGGTTGGCA
TTCCCAGCAGTATCAACCCCTCAGAGGAGCGGGAACCTGGGGAATTCTGGCCCTACGTGCATTACAGGCAATGATG
GGTTTGTGTGTATGGTGTGTCATGAGATCCTCTACCTCATAACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCA
AAGGGCTTTGCAAAATTTTAATATATTTAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATAAAAACCCGAG
TTCTT

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FIGURE 2528

MPGRGRCPDCGSTELVEDSHYSQSQLVCSDCGCVVTEGVLTITTFSDDEGNLREVTYSRSTGENEQVSRSQORGLRR
VRDLCRVLQLPPTFEDTAVAYYQQAYRHSGIRAARLQKKEVLVGCCVLITCRQHNWPLTMGAICTLLYADLDVFS
STYMQIVKLLGLDVPSLCLAELVKTYCSSFKLFQASPSVPAKYVEDKEKMLSRTMQLVELANETWLVTGRHPLPV
ITAATFLAWQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMAEQLAWLRVLRLDKRSVVKHIGDL
LQHRQSLVRSAFRDGTAEVETREKEPPGWGQGQGEVGNNSLGLPQGKRPASPALLLPPCMLKSPKRICPVPPV
STVTGDENISDSEIEQYL RTPQEVRDFQRAQAARQAATSVPNPP

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FIGURE 2529

TTCATTGCGCCAGTGAATAAAAAGAGAATTAAATATGGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAA
GTGTTCCCAGTGCCACACTGTTGAAAAGGGAGGAAAGCACAAAGATTGGGCCAAATCTCCATGGTCTTTTCAGGTG
GAAGACAGGTCAGGCCCCCTGGATACTCTTACACAGCCGCCAATAAGAACAAATGCATCATCTGGGGAGAGGATAC
ACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAAATGATCTTTGTCAGCATTAAAGAAGAA
GGAAGAAAGGGCAGACTTGATAGCTTATCTCAAAAAAGCTACTAATGAGTAATAATTGGCCACTGCCTTATTTAT
TACTACACCAGAATTCAGATCATGAATGACTGACAGAATATTTT

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FIGURE 2530

GCGACCCCTCTTCTTTGCGTAGAGTTTTTCAGGTTGCTCCTGGAAACCATGCCGAAAGTAGTGTCTCGGTCAGTAG
TCTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCCTCCATGTGTACTACTGTTTGTGCG
GCCAGGTGGTCCTAGTGCTGGACTGTCAGTTAGAGAAATTGCCCATGAGGCCCGGGACCGGTCCCGTGTGATTG
ATGCTGCCAAACATGCCCATAAGTTTTGTAAACACAGAAGACGAAGAGACTATGTATCTGCGGAGACCTGAAGGCA
TTGAACTACAGTACAGAAAGAAATGTGCAAAGTGTGGACTGCTGCTCTTCTACCAATCCCAGCCGAAGAATGCTC
CCGTTACCTTCATTGTGGATGGAGCAGTCGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGA
AACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTCACTGTGT
CTACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGGAAGTTGCTGACTCGTATGCACAGAATGCCAAAGTGA
TTGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCCACTGCAAGAGCTGGCTGAATGGGAACCCAGGAAA
AGTGAAAATGAAGGGGACCCTTGATTGACAACCAGTTCAAATAACCAGGCTTTTTTTCTGAGCCCTAGACTGGAG
GCAAGCATTTAGATCAGGAGACAAAGTAACTTCTTGATTACATAGACTGGTTCCTATTTATATCCCAGCAGAAGG
CTTTATGTTGTTTCCCATTGATTCTCCTACATGCAGTGAGGTCTTTAACTGAGTCCATTTGACCTGCTTTCT

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FIGURE 2531

GGCGGCGGCAAGGGCGGGAGGGAGCGGTGCGCGCGGGATTGAGCTGCCTAGCCTCGCGGTGCTTTGGCAGCA
TGTAAGCAGCTGTTTTGCCAAGAACCAGGTCACTGCTAAGAAAGGGTGCCTTCGGGAGAAGAGTGTCCAGAGGAT
ACCAATGCCAGATGCATCTGGAGTTACACTCAGCACTCGCAGTATGAGACATTGTGTGCCAGCATCTCTTTCCTT
CTGGCAAAGACTGTAGCTCTCCAGGTAGGAGGATCCTGGAAGCTGTGAGCACCAGGAGCCTTGCCAGAGGAGGAT
GGGGCCAGATATGAACCTCTTACCATGAACATGGTTCTCGGCTTATGAAGGAATTTTAAGTAAAACAGTTATTTA
ATTTCCACATATTCAAGTCAAAAGCCTTCTGTGTGAAGTGCCAGTGATTACCCCTCCACAGGAGTTATCAGGATT
TTTCTGGCACCAAGTTTAATTCTTCTTCTGTAATTCTGGTAGTGACAGATCTGCAGGACAGATTTATCTGTTGAAT
GCTCTTGGGCAGGAAAACCATGTAAAACCTCTGGAAGCAGCATCAGGACAGCAGAGCAGAGCCCCCGTCTCACT
GCTCACTTGCACAGAACTCCATCTGGACTCGGATGCTTTTACTGAAGACCATCTAGCTTCAATCATCTTTAGA
GTCCATCCATTCTGGAGAGACCTGGCGTTTGAGTTGCTTCTGTGGCCGTGTTTTCTGTCACTTCTGTTCCAG
GCCTTCTATTTCAGGCGGTTGAAGGTGTGGACTTTGGAATGGGGTTTGCTGTTCTTCGGGAACCTTGCTTCCTTC
CCTGGCTGGTGTCTCAGGAAGGACCATCTGAAGGCTGCAATTTGTTCTTAGGGAGGCAGGTGCTGGCCGTGGCCT
GGATCTTCCACCATGTTTCTGTTGCTGCTTTTGTATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTC
CTCTTACCCCTCCTTCTGTTTTCTCATAGTGCCAGCCATTTTGGAGTCTCCTTTGGTATCCGCAAACCTCTAC
ATGAAAAGTCTGTTAAAAATCTTTCGCTGGGCTACCTTGAGAATGGAGCGAGGAGCCAAGGAGAAGAACCACCAG
CTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATCCCACTTCACTAGAAGAAGAGATCAAAGAGATTCTGT
CGAAGTGGTAGTAGTAAGGCTCTGGACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGAAA
GGAATGGAGACCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAACTGGAGTCTTGAACCTGCTG
AGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCACGGTCTGTGGGGGTTAGGAGTGCTGATTCTGG
TACTGCTTTCTGCTGCCGCTCAGGATAGCACTGGCTTTACAGGGATTAGCCTTCTGGTGGTGGGCACAACCTGTG
GTGGGATACTTGCCAAATGGGAGGTTTAAGGAGTTCATGAGTAAACATGTTCACTTAATGTGTTACCGGATCTGC
GTGCGAGCGCTGACAGCCATCATCACCTACCATGACAGGGAAAACAGACCAAGAAATGGTGGCATCTGTGTGGCC
AATCATACCTCACCGATCGATGTGATCATCTTGGCCAGCGATGGCTATTATGCCATGGTGGGTCAAGTGCACGGG
GGACTCATGGGTGTGATTGAGAGGCCATGGTGAAGGCTGCCACACGTCTGGTTTGAGCGCTCGGAAGTGAAG
GATCGCCACCTGGTGGCTAAGAGACTGACTGAACATGTGCAAGATAAAAAGCAAGCTGCCTATCCTCATCTTCCCA
GAAGGAACCTGCATCAATAATACATCGGTGATGATGTTCAAAAAGGGAGTTTGAATTTGGAGCCACAGTTTAC
CCTGTTGCTATCAAGTATGACCCTCAATTTGGCGATGCCTTCTGGAACAGCAGCAAATACGGGATGGTGCATGAC
CTGCTGCGAATGATGACCAGCTGGGCCATTGTCTGCAGCGTGTGGTACCTGCCTCCCATGACTAGAGAGGCAGAT
GAAGATGCTGTCCAGTTTGCGAATAGGGTGAATCTGCCATTGCCAGGCAGGGAGGACTTGTGGACCTGCTGTGG
GATGGGGGCTGAAGAGGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAAGCTGTACAGCAAGATGATC
GTGGGGAACCAAGGACAGGAGCCGCTCTTGAAGCCTGCCTCCAGCTGGCTGGGGCCACCGTGCAGGGGTGCCAAC
GGGCTCAGAGCTGGAGTTGCCGCCGCCGCCCTGCTGTGTCTTTTCCAGACTCCAGGGCTCCCCGGGCTGCT
CTGGATCCAGGACTCCGGCTTTCGCCGAGCCGAGCGGGATCCCTGTGCACCCGGCGCAGCCTACCCCTGGTGG
TCTAAACGGATGCTGCTGGGTGTTGCGACCCAGGACGAGATGCCTTGTCTTTTACAATAAGTCGTTGGAGGAA
TGCCATTAAAGTGAACCTCCCACTTTGCACGCTGTGCGGGCTGAGTGGTTGGGGAGATGTGGCCATGGTCTTGT
GCTAGAGATGGCGGTACAAGAGTCTGTTATGCAAGCCGCTGTGCCAGGGATGTGCTGGGGGCGGCCACCCGCTCT
CCAGGAAAGGCACAGCTGAGGCACTGTGGCTGGCTTCGGCCTCAACATCGCCCCAGCCTTGAGCTCTGCAGAC
ATGATAGGAAGGAACTGTCACTCTGCAGGGGCTTTTCAGCAAAATGAAGGGTTAGATTTTATGCTGCTGCTGATG
GGGTACTAAAGGGAGGGGAAGAGGCCAGGTGGGCGCTGACTGGGCCATGGGGAGAACGTGTGTTCTGTAATATGAGT
GGCTAACCTGAACCTCCCATGTGATGCGCGCTTTGTTGAATGTGTGTCTCGGTTTCCCATCTGTAATATGAGT
CGGGGGGAATGGTGGTGATTCTACCTCACAGGGCTGTTGTGGGGATTAAAGTGTGCGGGTGAGTGAAGGACAC
ATCACGTTTCAGTGTTCAGTACAGGCCCAAAAACGGGGCACGGCAGGCCTGAGCTCAGAGCTGCTGCACTGGG
CTTTGGATTGTTCTTGTGAGTAAATAAACTGGCTGGTGAATG

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FIGURE 2532

MFLLLPFDSLIVNLLGISLTVLFTLLLVIIVPAIFGVSFQIRKLYMKSLLKIFAWATLRMERGAKEKNHQLYKP
YTNGIIAKDPTSLEEEIKEIRRS GSSKALDNTPEFELSDIFYFCRKGMETIMDDEVTKRFSAEELSWNLLSRTN
YNFQYISLRRLTVLWGLGVLIRYCFLLPLRIALAF TGISLLVVGTTVVGYPNGRFKEFMSKHVHLMCYRICVRL
TAIITYHDRENRP RGGICVANHTSPIDV IILASDGYAMVGQVHGGLMGVIQ RAMVKACPHVWFERSEVKDRHL
VAKRLTEHVQDKSKLPILIFPEGTCINNTSVMMFKKGSFEIGATVYPVAIKYDPQFGDAFWNSSKYGMVTYLLRM
MTSWAIVCSVWYLP PMTREADEDAVQFANRVKSAIARQGG LVDLLWDGGLKREKVKDTFKEEQKLYSKMIVGNH
KDRSRS

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FIGURE 2533

GAACCCCTAGGTTGTTGGATGATGTCAGCTTCCATCCTTGTGTTTCGTTTCAAACGCTGGGAATCTGAGCGCATCCT
CTCCTTCATCCTCCTGATGGAACTTCCGCCTGCTGTCTTACCATGTCAGTGCACAGAATCTGGTTGCAATCCC
AGTGTATGTCAAACATAACATCAGTTTCCGGGACAGTAGTTCCCTTGGACGCTTTGAAATAACGGTGGGACCCAA
GCAGACGATGGGGAAGACCATTGAGGGAGTGATTGTCAACCAGCCAGATGCCCAAGGGGGTCTGAAACATGAGCCT
TACTCCATCACAGGGGACACACACATTGACCCAGTCACAAAGATGCTGTCTTGGGATGTAGGAAAAATAAATCC
ACAAAAGCTACCAAGTTTGAAGGGGACCATGAGTCTTCAGGCTGGAGCTTCCAAACCAGATGAAAACCCACAAAT
TAACCTGCAGTTTAAGATCCAGCAGCTGGCCATTTCTGGACTCAAGGTGAATCGTCTGGATATGTATGGAGAAAA
GTACAAACCCTTTAAGGGCATAAAATACATGACCAAAGCTGGGAAGTTCCAAGTTTGAACCTGAAGGGAGCATTT
GCTGAGGGAATAGTCTTGCACATTTTTTTCATTTCTTACTTGTCTAAAAAGTAAAAAAAATATCAGCCTGTCTCCT
AGGTGAGTCCCTCCTGGACCCACCCGCTCCCTTTTTTTCCTTAGCCTTCAGTGCCATGGAACATAATCAAGGGAGG
AAAAGGTACCCAGGGAGAACTGGACAGAACTGAAACACAGCAACACCAGTTCTCAAGGACAAGGTGTGTGATGGG
GGTAGGAAGCTTGGTGCTTATGTAACCATTTTAAACGTGGTTTTCTATAGGAAAGACCAACATTTGTTTAGCTTGC
TTGGCTTTAATTATCTAAAGCCAATGAAAGACTTCTTTGTTGATTTTTTAAGATAGAAAGATTAAAAAGAAAGAA
AGATGGGAAGAAAAATGAATGTTAGTCAAGGAAAGGCCACTTAAGGATCTGCTCTATGAAGGAGAAGAAAGAGGAA
AAAGAAGTAAAGGAGTTAGGAGGAGACACTTAAATGAAAGATTGGCAAGAAAAGCAGTCGGACTCTACCTTAAGG
AGGGATGGGAAGGAAAGAGTTGAGTTGGTTTCTTTCTGATTCTCTACTCATGTAGAAAACACTTGTACTTCTGG
AAATGGACTGGAGACTTTTTTAAATTTGAGTCCACTATTGACATGGAAACCCAGTGGAAATCAGATTTTCCCTCAA
AGACCATGATGGTATCGGACTAGTTTTTCAGACACTGCCTGTTGCTGTCCATCAGCACTTGGTCTCTTATCTTCAG
TGAGAAGGTGACCCGCCTTCTTCCCATGGTGGCTGCCTAAAGTGCTTCTTTTCTAACCCAAAACAGTTCTACTCA
CTTCCTTTTACAGAATTCACCGGCCATTTTCTGTTACCTGATCCTTCTACAGGATTTTTTAAAAAGTAAGAGAGT
TTCAGAGAAGCCGATCCCATAATCCCAGTGCAGCCAGGGTTTGTGTGTCATCGTACTGGAGTAGAGGGCCGACT
CTTCCCATGAAGGTGAGCACAGCTGTGAGTGAGTGAGCTCATATCTCCATTTGTGAGTGTGGACTGGTACCAGA
TCGTAACCTTCCCGTTGGTTCGGAACCTTTTCCATCTGTGCGCCTAGAAAAAGAGAAAGCTTACCATCGAGGGTGT
GGTTGATCCTTGAAGCTGCTTGGTAAAGTTATCATTTCCTCAGTCTTTTCTTTTGTACTCCTAICATGTATTAT
TAATATCTACCAGTCCCTTTTTCATTCTAAGACAAAACATTTCTCCTAAATCTCTGAATAAAATCAGTGCTGTAGG
AAGATGGACTGTGTTGATCATGGGTGTAAGCAACCCAGTTTAAAGAAACATGGCAACTAAAGGGATACCTCAGGCT
TTCTTTCCAGTGGGTCAATTTTGTCTTAGTTTCACTGTGTCTGTTACTATTTAAATATTTATACAAAAGGGTTTT
TGTTTATAGCTTAAGGAATGATACTGTGCTCTGCTTGGTGCATGGAGAAAAAGGAAGACCCATACTCTCCACACC
CTAGAGCTTTTCTCTAAATATTGTGCAAAGTTTTTGCTAGTTTTATCTTCTGACTTTGGGACTAGTTTTTGTGTC
AGAGTTGTGTTGCTTTGTGATTTTCTCTGGGATAGTGTACTGTACACAACCAGATGTGTTCCACACTCCGTGAC
TCCGCAGTTTGTCTGAGGTGACATACACATCCACCATGGAAAGGGAAGCATCTCTGCCTGTGGATTCTCAAGTA
CTTGAAGCACCTCTCCTGAGGAACCTACAGGATTCTAAGGTTTTCTAGGTCACTGAACAATAATCTTGGTCCC
TGAATATTTCTAGGTTTGTAAAGTGCAGCAGTTTTATTTCTCTAGAACTCATCCTGTTTCAAGGGAAGTACCTAA
GAAGATATAGAGTGTTTCTAGGGTAAGGGACCTGCAGGTGTAAGCATAGATGAAATAACTGTCCTGTACACAGTG
CAGCAGGCCATGGAGTGTAGCGGGCATCGCTGCCGCCATTCTGCAGCATCACCATAAGCAGTGCAGGGTGTCTC
CATCGAGCTGTTTGGTTCCATGTGTGTTTAAACATGTGCAGAAGTAGCTTCTCTGTTTAAAGTTTAAATAAGTTGAG
TTTACCAGTC

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FIGURE 2534

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCCTGCC
TGGAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATC**ATGG**ATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCCGATTAG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGGAAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT
GCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT
GGCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACTACTGCAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCC
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCAGCGCACAGCCTCACCGA
GTCGGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCAGTG
CCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGGAATCCTGATGGGGATGCCAAGCCCTGGTGCCACGTGCT
GAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAGACAGTACAGCCA
GCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCTCCACCCCTGGCAGGCTGCCATCTTTGCCAA
GCACAGGAGGTGCCCCGAGAGCGGTTCTGTGCGGGGCATACTCATCAGCTCCTGCTGGATTCTCTCTGCCGC
CCACTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATACCGGGTGGTCCCTGG
CGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACACTTACGACAATGA
CATTGCGCTGCTGCAGCTGAAATCGGATTCTGTCGCCCTGTGCCAGGAGAGCAGCGTGGTCCGCACTGTGTGCCT
TCCCCCGGCGGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCATGAGGCCTTGTC
TCCTTTCTATTTCGAGCGGCTGAAGGAGGCTCATGTGAGACTGTACCCATCCAGCCGCTGCACATCACAACATTT
ACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCAGGCAAACTTGCA
CGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGCTGTGAACGATGGCCGCATGACTTTGGTGGGCATCAT
CAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTACCTAGACTGGAT
TCGTGACAACATGCGACCG**TGAC**AGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCTCTTCTTCTTCA
GAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGCGGGACGAGACC
CTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGAAAGTTTTCAGGACTTGGTCTGATTTAG
GATACTCTGTGATGAGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGGGCAGAAAGTGG
CCATGCCACCCTGTTTTAGCTAAAGCCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGAAACAGGACCACA
AAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTAGGAAAGACGGATTGCATTAGAAAATAGACAG
TATATTTATAGTCACAAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCATGTTTCTTCAAAA
GCACCCTTGACGTCAAGTCTCCTTCCCCTTTCCCCACTCCCTGGCTCTCAGAAGGTATTCTTTTGTGTACAGTG
TGTAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTGAACAAGTAGGCT
TCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTTACTGTACTTAATAA
ATTCAGATATATTTTTTACAGTTTTTCC

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FIGURE 2535

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLRNVEYCWNSGR
AQCHSVPVKSCSEPRCFNGGTCQQALYFSDFVCQCEGFAGKCEIDTRATCYEDQGISYRGTWSTAESGAECTN
WNSSALAQKPYSGRRPDAILRLGLGNHNYCRNPDNRDSDKPCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSAQAALGLGKHNYCRNPDGDAKPWCHVLKNRRLTWEYCDVPSCSTCG
LRQYSQPQFRIKGGLFADIASHPWQAALFAKHRRSPGERFLCGGILISSCWILSAAHCFQERFPPHHLTIVILGRT
YRVVPGEESQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCAQESSVVRTVCLPPADLQLPDWTECELSGYG
KHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDTRSGGPQANLHDACQGDSSGGLVCLNDGRM
TLVGIISWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

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FIGURE 2536

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCCTGCC
TGGAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATC**ATGG**ATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCCGATTCAG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGAATATTGCTGGTGCAACAGTGGCAGGGGCACAGTGCCACTCAGT
GCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGGCCCTGTACTTCTCAGATTT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT
GGCCAGAAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACTACTGCAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGCACCCC
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCACGCACAGCCTCACC
GTCGGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCCAAGTGC
CCAGGCACTGGGCCTGGGCAAAACATAATTACTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCAT
GAGGCCTTGCTCTCCTTTCTATTTCGGAGCGGC**TGA**AGGAGGCTCATGTCAGACTGTACCCATCCAGCCGCTGCACA
TCACAACATTTACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCAG
GCAAACCTTGACAGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTG
GTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTAC
CTAGACTGGATTTCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAGCAAATGAGATCCCGCCT
CTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGC
GGGACGAGACCCTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGAAAGTTTTTCAGGACTTGG
TCTGATTTTCAGGATACTCTGTCTCAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGG
GCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTAAAGCCCAACCTCCTGACCTGTCACCGTGAGCAGCTTTGGAA
ACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAGATAACAAGATCTTTCAGGAAAGACGGATTGCATTA
GAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCCGTCAT
GTTCTTCAAAGCACCCCTTGACGTCAAGTCTCCTTCCCCTTTCCCCACTCCCTGGCTCTCAGAAGGTATTCCCTTT
TGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTGTA
ACAAGTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTTATACT
GTACTTAATAAATTCAGATATATTTTTTCACAGTTTTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2537

MDAMKRGLCCVLLLCGAVFVSPSQEI HARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLR SNRVEYCWNSGR
AQCHSVPVKSCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEIDTRATCYEDQGISYRG TWSTAESGAECTN
WNSSALAQKPYSGRRPD A IRLGLGNHNYCRNPD RDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSAQA LGLGKHN YC RTGRSVSSPATASMRPCLLSIRSG

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FIGURE 2538

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCCTGCC
TGGAAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATC**ATGG**ATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCAGCCAGGAAATCCATGCCCCGATTGAG
AAGAGGAGCCAGATCTTACCAAGGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTA
CTTCTCAGATTTTCGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGTGTGAAATAGATAACAGGGCCACGTG
CTACGAGGACCAGGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAA
CAGCAGCGCGTTGGCCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAAACCACAA
CTACTGCAGAAACCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTT
CTGCAGCACCCCTGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCAGCGCA
CAGCCTCACCGAGTCGGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAA
GAACCCAGTGCCCGAGGCACTGGGCCTGGGCAAACATAATTACTGCCGGAATCCTGATGGGGATGCCAAGCCCTG
GTGCCACGTGCTGAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAG
ACAGTACAGCCAGCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGC
CATCTTTGCCAAGCACAGGAGGTGCGCCGAGAGCGGTTCTGTGCGGGGGCATACTCATCAGCTCCTGCTGGAT
TCTCTCTGCCGCCCACTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATACCG
GGTGGTCCCTGGCGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACAC
TTACGACAATGACATTGCGCTGCTGCAGCTGAAATCGGATTCGTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCG
CACTGTGTGCCTTCCCCGGCGGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCA
TGAGGCCTTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTGAGACTGTACCCATCCAGCCGCTGCAC
ATCACAACATTTACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGGCCCCCA
GGCAAACCTTGACGACGCCTGCCAGGGCGATTGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTT
GGTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTA
CCTAGACTGGATTTCGTGACAACATGCGACCG**TG**ACCAGGAACACCCGACTCCTCAAAGCAAATGAGATCCCGCC
TCTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAG
CGGGACGAGACCCTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGAAGTTTTTCAGGACTTG
GTCTGATTTTCAGGATACTCTGTGAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTG
GGCAGAAAGTGGCCATGCCACCCTGTTTTAGCTAAAGCCCCAACCTCCTGACCTGTCACCGTGAGCAGCTTTGGA
AACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTCAGGAAAGACGGATTGCATT
AGAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCCGTCA
TGTTCCCTCAAAGCACCCCTTGACGTCAAGTCTCCTTCCCCTTTCCCCACTCCCTGGCTCTCAGAAGGTATTCCTT
TTGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTG
AACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTATAC
TGTACTTAATAAATTCAGATATATTTTTTACAGTTTTTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2539

MDAMKRG LCCVLLLCGAVFVSPSQEIHARFRRGARSYQGCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEI
DTRATCYEDQGISYRGTWSTAESGAECTNWNSSALAQKPYSGRRPD A IRLGLGNHNYCRNPDRDSKPWCYVFKAG
KYSSEFCSTPACSEGNSDCYFGNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSAQALGLGKHNYCRNP
GDAKPWCHVLKNRRLTWEYCDVPSCSTCGLRQYSQPQFRIKGGLFADIASHPWQAAIFAKHRRSPGERFLCGGIL
ISSCWILSAAHCFQERFPPHHLTIVILGR TYRVVPGE EEQKF E VEKYIVHKEFDDDTYDNDIAL LQLKSDSSRCAQ
ESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDT
RSGGPQANLHDACQGD SGGPLVCLNDGRMTLVGII SWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

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FIGURE 2540

GGAGGGGCGGGGCCTCCGCCACCACCTCAGCTGCGGACCGAGGCGAGATGGCGGCCACCGAGGGGGTCGGGGAGG
CTGCGCAAGGGGGCGAGCCCGGGCAGCCGGCGCAACCCCGCCCCAGCCGCACCCACCGCCGCCCCAGCAGCAGC
ACAAGGAAGAGATGGCGGCCGAGGCTGGGGAAGCCGTGGCGTCCCCATGGACGACGGGTTTGTGAGCCTGGACT
CGCCCTCCTATGTCCTGTACAGGGACAGAGCAGAATGGGCTGATATAGATCCGGTGCCGCAGAATGATGGCCCCA
ATCCCGTGGTCCAGATCATTATAGTGACAAATGTAAGTTTTTTATGATTACTTCCGAGCTGTCCTGCAGCGTGA
TGAAAGAAGTGAACGAGCTTTTAAGCTAACC CGGGATGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGCA
TTTCCGGAGAGTTCTTTTGAAGTCACTTCAGAAGGATCTACATGAGGAAATGAACTACATCACTGCAATAATTGA
GGAGCAGCCCCAAAACTATCAAGTTTGGCATCATAGGCGAGTATTAGTGGAATGGCTAAGAGATCCATCTCAGGA
GCTTGAATTTATTGCTGATATTCTTAATCAGGATGCAAAGAATTATCATGCCTGGCAGCATCGACAATGGGTTAT
TCAGGTATT

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FIGURE 2541

AACTTTTAAAACTCTCATTGGAGTAAGTCTTTTCAAGATGATCCTCCACAATGGAGGCAGCGTTCCTACTTGTC
ATCACACAGCTGAAGACATTGTTTCTTAGGTGTGAAATCGGGGACAAAGGACAAACAGAGACACACGGCATTGTT
CATGGGAGGCATCGTCACCCCTCCTGGGTGTTCTGTGGGAATTTCCCTGTGTGAGGAAAACGTGGCCACAGGGTTGT
GCTGTACCCACCCCTTCCCCGGCGAGATGGCCCTCGGCCTGTGCCGCTGCTTCCACCCTCGCCACTCCATGGCAGC
TTTTGGTCTGTTCCGGCTCTGCCCTCTGCCCTGAACTCTCATCCGGCTTGTACCTGCCTGCTGGACCCCTCCAC
CTGGAGGCCAGCCCATGTCTCAGGCCCAGCCCTAGCCTCTTCTCCTCAAATTCTAAGTGTTTTCTCTTTAGGTTT
CCCTGGCTTTGTGAATGGATCATGTGTCTCTAGGTATAAACCTGACATCATCTTTCCACCCGGCTTACCTCCACC
AGATCTCCCCAGTTCTGTCTCCATCTTCTGCCTGCAGCTGCTCTGTTCTCATGGTCACTGCTGCATCACTGAGTC
TGGACCCCTTGTTATCATTTTCAAACCTGGCCTCCTTCCCTCGTTCCCCACTTCTTAAAGTCACCTGTCCATTGCCA
CCAGATTAAGCTTTCTCCAGCCAGATCACCTCTCTCTGAGAAAACCTCCATTGACATGGAAACACCATTGTCTGGC
ACACATACTCACATAACCCACCTTCCCGTCTTGATCCCCACACATCTTTCCAGCCTCCCCTCCCACTCCACTCCCT
GCTCTCTCCTCCACCTCCCCATCCTCTTGTCTCCCCTCCCCCTCTTGAATCCAGCCCAGCGGGGCTTCTCCTGCCTC
CATCACATCACAGAAGTACCTCCTGCTTCTGGTTTTTAATTAGAGCCTTCCCCGATTACATTTTCTCTGAATTTT
TTCCTATCTACATTTGATCTGTCTGTTTAAACCCCTACTTCTAAGGGAACCTTCTCTAATCTCTTATCCTCATC
CCCAAATAGTGTTTTCTTCTCTGGGTTCTTATAATGTTGGTATCAATCTCACAGCATTTAGTGCTTCTGCCTG
GTGTGACAGTTACCTGTGTGCATGTGCAATTTCTAATTTCCACGCTAGACTGTGAGCTTCTAAGGCAAGAATC
ATGCCTCGTTGGTTTCTGTATTCTCATGGTGCCAAACACAGTGCCTTCTACATTGCAGGCGCTGAATAAACATT
TTTAAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 2542

MALGLCRCFHPRHSMAAFGLFPALPSALNSHPACTCLLDPSTWRPAHVSGPALASSPQILSVFSLGFFPGFVNGSC
VSRYKPDIIFFPPGLPPPDLPSSVSIFCLQLLCSHGHCCITESGPLLSFSNWPPSLVPHFLKSPVHCHQIKLSPAR
SPLSEKPPLTWKHHCLAHILTYPPSRDPHTSFQPPLPLHSLLSPPPPHPLVSPPL

[illegible]

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FIGURE 2543B

ACCCTGGATGAGCGACTTCAAAGTGGAGTTCCTGAGAAATGAGCTGGAGATTCCCGGTCAGTATGACGGTAGGGG
AAAGCCATTGCCAGAGTACCACGTGCGAATCGCCGGGTTTGATGAGCGGGTGACAGTCATGGCGTCTCTGCGAAG
GCCCAAGCGCATCATCATCCGTGGCCATGACGAGAGGGAACACCCCTTTCCTGGTGAAGGGTGGCGAGGACCTGCG
GCAGGACCAGCGCGTGGAGCAGCTCTTCCAGGTCATGAATGGGATCCTGGCCCAAGACTCCGCCTGCAGCCAGAG
GGCCCTGCAGCTGAGGACCTATAGCGTTGTGCCCATGACCTCCAGGTTAGGATTAATTGAGTGGCTTGAAAATAC
TGTTACCTTGAAGGACCTTCTTTTGAACACCATGTCCCAAGAGGAGAAGGCGGCTTACCTGAGTGATCCCAGGGC
ACCGCCGTGTGAATATAAAGATTGGCTGACAAAAATGTCAGGAAAAACATGATGTTGGAGCTTACATGCTAATGTA
TAAGGGCGCTAATCGTACTGAAACAGTCACGTCTTTTAGAAAAACGAGAAAGTAAAGTGCCTGCTGATCTCTTAAA
GCGGGCCTTCGTGAGGATGAGTACAAGCCCTGAGGCTTTCCTGGCGCTCCGCTCCCACTTCGCCAGCTCTCACGC
TCTGATATGCATCAGCCACTGGATCCTCGGGATTGGAGACAGACATCTGAACAACCTTTATGGTGGCCATGGAGAC
TGGCGGCGTGATCGGGATCGACTTTGGGCATGCGTTTGGATCCGCTACACAGTTTCTGCCAGTCCCTGAGTTGAT
GCCTTTTCGGCTAACTCGCCAGTTTATCAATCTGATGTTACCAATGAAAGAAACGGGCCTTATGTACAGCATCAT
GGTACACGCACTCCGGGCCTTCGCTCAGACCCTGGCCTGCTCACCAACACCATGGATGTGTTTGTCAAGGAGCC
CTCCTTTGATTGGAAAAATTTTGAACAGAAAATGCTGAAAAAAGGAGGGTCATGGATTCAAGAAATAAATGTTGC
TGAAAAAAATTGGTACCCCCGACAGAAAATATGTTACGCTAAGAGAAAGTTAGCAGGTGCCAATCCAGCAGTCAT
TACTTGTGATGAGCTACTCCTGGGTCATGAGAAGGCCCTGCCTTCAAAGACTATGTGGCTGTGGCACGAGGAAG
CAAAGATCACAACATTTCGTGCCCAAGAACCAGAGAGTGGGCTTTCAGAAGAGACTCAAGTGAAGTGCCTGATGGA
CCAGGCAACAGACCCCAACATCCTTGGCAGAACCTGGGAAGGATGGGAGCCCTGGATGTGA

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FIGURE 2544

GGAGTCCGCGAGCGTCGTCGGCAAGCGGCCGCTTTCCACGGTAACCGCGCGCCGGCGGGGAGGGCGTGGCGCGG
AGCCGACGGGAACGTCCGCGCTGCGGAGCAGGGCAGGGAAGCCGGGAGGCGGGCCCCGGCCCGAGCTTGTCCTTGT
CGCGCAGGTACTCCGAGCACTATGTCGTCGCCGGCGTCGACCCGAGCCGCGCGGCAGCCGGCGTGGAAGGGCC
ACCCCGCCCCAGACGCCTCGGAGTGAGGATGCCAGGTCATCTCCCTCTCAGAGACGTAGAGGCGAGGATTCCACC
TCCACGGGGGAGTTGCAGCCGATGCCAACCTCGCCTGGAGTGGACCTGCAGAGCCCTGCTGCGCAGGACGTGCTG
TTTTCCAGCCCTCCCCAAATGCATTCTTCAGCTATCCCTCTTGACTTTGATGTTAGTTTACCAGTACATACGGC
ACTCCCAGCTCTCGGGTAGAGGGAACCCCAAGAAGTGGTGTAGGGGGCACACCTGTGAGACAGAGGCCTGACCTG
GGCTCTGCACAGAAGGGCCTGCAAGTGGATCTGCAGTCTGACGGGGCAGCAGCAGAAGATATAGTGGCAAGTGAG
CAGTCTCTAGGCCAAAACTTGTGATCTGGGGAACAGATGTAAATGTGGCAGCATGCAAAGAAAACTTTTCAGAGA
TTTCTTCAGCGTTTTATTGACCCTCTGGCTAAAGAAGAAGAAAAATGTTGGCATAGATATTACTGAACCTCTATAC
ATGCAACGACTTGGGGAGATTAAATGTTATTGGTGAGCCATTTTTTAAATGTGAAGTGTGAACACATCAAATCATT
GACAAAAATTTGTACAGACAACCTCATCTCTTACCCACAGGAAGTTATTCCAACTTTTGACATGGCTGTCAATGAA
ATCTTCTTTGACCGTTACCCCTGACTCAATCTTAGAACATCAGATTCAAGTAAGACCATTCAACGCATTGAAGACT
AAGAATATGAGAAACCTGAATCCAGAAGACATTGACCAGCTCATCACCATCAGCGGCATGGTGATCAGGACATCC
CAGCTGATTCCCCGAGATGCAGGAGGCCTTCTTCCAGTGCCAAGTGTGTGCCACACGACCCGGGTGGAGATGGAC
CGCGGCCGCAATTGCAGAGCCAGTGTGTGCGGGCGCTGCCACACCACCCACAGCATGGCACTCATCCACAACCGC
TCCCTCTTCTCTGACAAGCAGATGATCAAGCTTCAGGAGTCTCCGGAAGACATGCCTGCAGGGCAGACACCACAC
ACAGTTATCCTGTTTGCTCACAATGATCTCGTTGACAAGGTCCAGCCTGGGGACAGAGTGAATGTTACAGGCATC
TATCGAGCTGTGCTATTTCGAGTCAATCCAAGAGTGAGTAATGTGAAGTCTGTCTACAAAACCCACATTGATGTC
ATTCATTATCGGAAAACGGATGCAAAACGTCTGCATGGCCTTGATGAAGAAGCAGAACAGAACTTTTTTTCAGAG
AAACGTGTGGAATTGCTTAAGGAACTTTCCAGGAAACCAGACATTTATGAGAGGCTTGCTTCAGCCTTGGCTCCA
AGCATTATGAACATGAAGATATAAAGAAGGGAATTTTGCTTCAGCTCTTTGGCGGGACAAGGAAGGATTTTAGT
CACACTGGAAGGGGCAAATTTTCGGGCTGAGATCAACATCTTGCTGTGTGGCGACCCTGGTACCAGCAAGTCCAG
CTGCTGCAGTACGTGTACAACCTCGTCCCCAGGGGCCAGTACACGTCTGGGAAGGGCTCCAGTGCAGTTGGCCTC
ACTGCGTACGTAATGAAAGACCCCTGAGACAAGGCAGCTGGTCTGTCAGACAGGTGCTCTTGCTCTGAGTGACAAC
GGCATCTGCTGTATCGATGAGTTCGACAAGATGAATGAAAGTACAAGATCGGTATTGCATGAAGTCATGGAACAG
CAGACTCTGTCCATTGCAAAGGCTGGGATCATCTGTGCTCAGTCAATGCGCGCACCTCTGTCTGGCAGCAGCAAAT
CCCATTGAGTCTCAGTGAATCCTAAAAAACAACCATGAAAACATCCAGCTGCCTCATACTTTATTATCAAGG
TTTGATTGATCTTCTCTTGCTGGACCCTCAGGACGAAGCCTATGACAGGCGTCTGGCTCACCACCTGGTTCGCA
CTGTACTACCAGAGCGAGGAGCAGGCAGAGGAGGAGCTCCTGGACATGGCGGTGCTAAAGGACTACATTGCCTAC
GCGCACAGCACCATCATGCCGCGGCTAAGTGAGGAAGCCAGCCAGGCTCTCATCGAGGCTTATGTAGACATGAGG
AAGATTGGCAGTAGCCGGGGAATGGTTTTCTGCATACCCTCGACAGCTAGAGTCATTAATCCGCTTAGCAGAAGCC
CATGCTAAAGTAAGATTGTCTAACAAGTTGAAGCCATTGATGTGGAAGAGGCCAAACGCCCTCCATCGGGAAGCT
CTGAAGCAGTCTGCAACTGATCCCCGGACTGGCATCGTGACATATCTATTCTTACTACGGGGATGAGTGCCACC
TCTCGTAAACGGAAAGAAGAATTAGCTGAAGCATTGAAAAAGCTTATTTTATCTAAGGGCAAAACACCAGCTCTA
AAATACCAGCAACTTTTTGAAGATATTTCGGGGACAATCTGACATAGCAATTACTAAAGATATGTTTGAAGAAGCA
CTGCGTGCCCTGGCAGATGATGATTTCTGACAGTGACTGGGAAGACCGTGCGCTTGCTCTGAAGCCTTGTGAGC
AAGGAAGGCTCCCTGCATGTCTGCTTGCTGCACGCCACATGGGTGTGGTCTGCATCTCAGTTGGCCGCCATCAG
TGTAATATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAAAATTTCTAACTTGGGTTCAATATTTGTAGTGAAGTA
TCTGTTTTTCATTTTTTTCACGTTATAAATAAAAAATACTATGCTGGCCGGGCGCGGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCAATGTGGGTGGATCATGAGGTCAAGACCAGCCTAGCCAAGATGGTGAAGCC
CCGTCTCTAGTAAAGATAACAAAAAATTAGCTGGGCTTGATGGCATGCGCTGTAAATCCAGCTACTCGGGAGGT
TGAGGCAGGAGAATCGCTTAAACCCAGGCGGCAGAGGTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCT
CAGCAATAGAGTGAGACTGTCTC

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FIGURE 2545

MSSPASTPSRRGSRRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSPGVDLQSPAAQDVLFSPPQM
HSSAIPLDFDVSSPLTYGTPSSRVEGTPRSGVRGTPVRQRPDLGSAQKGLQVDLQSDGAAEDIVASEQSLGQKL
VIWGTIDVNVAACKENFQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQ
LISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQ
EAFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTSMALIHNRSLFSDKQMIKLQESPEDMPAGQTPHTVILFAH
NDLVDKVQPGDRVNVGTGIYRAVPIRVNPRVSNVKSVMYKTHIDVIHYRKTDKRLHGLDEEAEQKLFSEKRVLLK
ELSRKPDIERLASALAPSIYEHEDIKKGILLQLFGGTRKDFSHGTGRGKFRAEINILLCGDPGTSKSQLLYVYN
LVPRGQYTSKGSSAVGLTAYVMKDPETRQLVLQTGALVLSDNIGCCIDEFDKMNESTRSVLHEVMEQQTILSIK
AGIICQLNARTSVLAAANPIESQWNPKKTTIENIQLPHTLLSRFDLIFLLLDPODEAYDRRLAHLVLYYQSEE
QAEELLDMAVLKDYIAYAHSTIMPRLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESLIRLAEAHAKVRLS
NKVEAIDVEEAKRLHREALKQSATDPRGTGIVDISILTTGMSATSRKRKEELAEALKKLILSKGKTPALKYQQLE
DIRGQSDIAITKDMFEEALRALADDDFLTGTGKTVRL

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FIGURE 2546

CGCGTCGGGCTGCAGGAGAAGATGGCGGTCTCCACAGGAGTTAAAGTTCCTCGTAATTTTCGCTTGTGGAAGAA
CTTGAAGAAGGACAAAAAGGAGTAGGCGACGGTACAGTTAGCTGGGGCCTTGAAGATGATGAAGATATGACACTT
ACAAGGTGGACAGGCATGATTATTGGGCCACCAAGGACAAATTATGAAAACAGAATATATAGCCTGAAAGTAGAA
TGTGGACCTAAATACCCAGAAGCTCCTCCGTCAGTTAGATTTGTAACAAAAATTAATATGAACGGAATAAATAAT
TCCAGTGGGATGGTGGATGCCCCGAGCATACCAGTGTTAGCAAAAATGGCAAAATTCATATAGCATTAAAGTTGTA
CTTCAAGAGCTAAGACGTCTAATGATGTCCAAAGAAAATATGAAGCTTCCACAGCCACCAGAAGGACAAACATAC
AACAATTAATTTTAGTGGATCTCAAACCTTGCTTAAATCAACAACCTTCTACTCATGTTAATGTCTTGATTAAAT
ATCACAATGCAAAAATACACATTAAGTAAAAGAATTCCAGCTGGTAAACATGACCTGGACATTTGTAAGAATATAT
TTAATATATGTACACCCATTATGTTTTTCAGGTAACAGGAGGAAAAATGCAGCACAAATTTTTTTTTCTCTTGAAAGG
CACTGTCAATTTAAACATAAACCTGGAGTACTCGAAATAGAATTCAGGTTTACAAGATGAAAGCGTGTGGAGAAGT
GTCAGATGGCAGTGGGAAGCATGTGTGTTTCTAAAAAGTAAAAATCTCAAGAAAACAGAAATGGCATGCTTTACCC
ATCTTACTTAGTGAAAGAGAGCTGCAGTTGAAATTGTTTTAAAAAGTAGCAGGTACAATGAATATTGTCACAGATG
TGTTAATTTTTGAAGCAATGTGGGTGCTGACTACTAGTAGTATCAAAAATATGTTTCAGGATTGTTTTGATACCTG
TATTTATAATAAAAAATGTTGGGGGGAGTTGATGAATTCCTGTAAAAGCTGTTCTTGTGTGTTACATGTAACAG
ACATGGTAAATATTTGTTTACAGTCTTTGTTTAACAAACCATGCATTTAAGTTTAAGTGAAGTCAACAAAAAGGA
AATAGGTGTATGGATATGTGATTTTGAGATTAAAGTTAGTCTTAAATGTAAATAAAATGTGAAACGTGTCTCA
GAGACTGTGCCATTTCTATTATGTTGATGTATATGTACAGTACCTTGCCAGGGAAGCAAAAATTGGAATTATTGT
AGCTTTTCATGTATACACACTTTTATTTACCCTATTTTGTGTACTTCTTGTGAATTATAATTTGCAGACTATTC
AGAAAAGAAATTATCTAGTTTAATTTCTTCTTTGGACAAGGAGTCCTAGGTATTATATTTTGAGTTTGATTTAC
CAGAAATAATAATATTAATAAGATCTTTGCATTCTGGCAGTTCTTTTAGGATTATAGGTTGCAAATTATCCAAAT
ATATATCCCATTTTTTAAAGCATAAAAA

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FIGURE 2547

MAVSTGVKVP RNFRLL EEELEEGQKGVGDGT VSWGLEDDED MTLTRWTGMIIGPPRTNYENRIYSLKVECGPKYPE
APPSVR FVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQTYNN

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FIGURE 2548

AGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAGAACAGCCCTGA
GGCAAGAGAAGAAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGAGATACTTATGT
TTCATCCTTTCCTCGGGCACCAAGCACTTCTGATTCTGTGCGGTTGAAGTGTAGGGAGATGCTTGTGTCAGCTCT
TCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAAGAAGATATATA
TCAAGAAATAAGGAATACAGACATGAAATACAAAAATAGAGTACGAAGTAGGATATCAAATCTTAAAGATGCAAA
AAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCTCTGACTTATTTGCTAGAATGACAGCAGAGGA
AATGGCTAGTGATGAGCTGAAAGAGATGCGGAAAACTTGACCAAAGAAGCCATCAGAGAGCATCAGATGGCCAA
GACTGGTGGGACCCAGACTGACTTGTTACATGTGGCAAATGTAAAAAGAAGAATTGCACTTACACACAGGTACA
AACCCGTAGTGCTGATGAACCAATGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGGAAGTTCTGTG**TG**
AGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAACTAGCTTTAAACTAGGCCAAGCA
ACTAGTTTTCTGCAAAATCAAATTTTTAAAGCAACTTGGGTTAGACTTTGTTTTTGACCTAACATCCCTTCCTTA
AATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAATAATTTTATGGTACCTGTTTCAAACATATTTTT
TCTGTTTTTATAAGTAAGTTGATATTAATTAAACTCTTGCCAATATTTCTTCTTTCTTAAAGGAAAAATATACCTT
AACTTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATCTGTACTCTCTGTTATTAATACATAAAATGAA
AATACATTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATAATTTTAGGTTTA
CCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAATGTACATAATTTTGAGGTAGCTTATGAA
TTTGATTTTAATTATTATGTTCAAGCTTGAATATTAGATATTATTTTGCATCTGTAACCTAACCGTGATCATC
ATTTCTTGTAATTTCTTGTACATGTATATTACTTGTTCTTAATAGATTTTGGAAACAAGACTTTATTGAGATCA
GTTTGTTTTCTGTTAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAACACTGTTGTAGTT
TAGAAGGCTTTTCATAAATCCCCTCATAGGCAAAGATGAAAACCTCCCCTATTTTTTTCCCCTCTTAGGAAGAC
ATACTGGAAAGAAAATGTTTAGCATCTTAGTGATGATAGCTATTGTAAACAGTTCATGACTAGATTTTGATTCTG
GAAATCTATACTGACCAAGGATTAATCTTAAGGATTGTATAATTCATTAAAGCTGTGGTCTTTCCATGTGGAGAC
TGATAGAAAATAATTTTGTCCCAAGTCTTATTTGCTGACTTTTTCTGTCATGAGTGAGATTGTTGAACAACTGA
ATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTAAAGTGTGTACCA
TTTTTTCTGTTTGGAGTAAGACAAAAATTGTTTTGACATAGGTTCCCTAGGGTACACTTGCTCTAGCATACTTTA
AAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTCAGGCACCCGTAGAAAGACCTCAGTAC
ATGCTTTGCACTCTCCTTTGCTCCCTTTTTCCAATTTCTTATTGCATATCATTTTGTGTAATACAGAAAGCAGC
ATTTTTAAATGTCCGTGTTAAGAATTGGCCCACTGGTACCAACTCACCTCTATTTTGTGAGTTTATAGTTGAAGA
TTTTGTTTTATTTCAAAAACAAAGTACATTTTGAATAATGTTTCAGAATAAAAATAATCTCACTTTTAAAGTGAT
CCATTTTAAAATTTGTAATTCAATAAAGTTTTTTTTGTTGTTAAACAT

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FIGURE 2549

MLAAALRTGDDYIAIGADEEELGSQIEEDIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFA
RMTAEEMASDELKEMRKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPMTTFVVCNECGN
RWKFC

2771/6881
FIGURE 2550

CGGCGGGCGAGGGGCAGGGCAGGGCGGACCCTGGACGCGCGGGCGCGCGGAAGGTAGCGCGGGGCGCGCTTGG
CGCGCACGCGCCTGAGCGTGCGCCCGGTGGGGCCGGCCGGGACTCGCCGCTCGCACGCCCTTGGGCGCGGGCCGG
GCGCCCGCTCTTCTTCCGCTTGCCTGTGAGCTGAGGCGGTGT**ATGT**GCGGCAATAACATGTCAACCCCGCTGC
CCGCCATCGTGCCCGCCGCCGGAAGGCCACCGCTGCGGTGATTTTCTGTCATGGATTGGGAGATACTGGGCACG
GATGGGCAGAAGCCTTTGCAGGTATCAGAAGTTCACATATCAAATATATCTGCCCGCATGCGCCTGTTAGGCCTG
TTACATTAAATATGAACGTGGCTATGCCTTCATGGTTTGATATTATTGGGCTTTCACCAGATTTCACAGGAGGATG
AATCTGGGATTAAACAGGCAGCAGAAAATATAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCCCTTCTA
ACAGAATTATTTTGGGAGGGTTTTCTCAGGGAGGAGCTTTATCTTTATATACTGCCCTTACCACACAGCAGAAAC
TGGCAGGTGTCACTGCACTCAGTTGCTGGCTTCCACTTCGGGCTTCCCTTCCACAGGGTCCTATCGGTGGTGCTA
ATAGAGATAATTTCTATTCTCCAGTGCCACGGGGATTGTGACCCCTTTGGTTCCCCTGATGTTTGGTTCTCTTACGG
TGGAATACTAAACATTGGTGAATCCAGCCAATGTGACCTTTAAACCTATGAAGGTATGATGCACAGTTCGT
GTCAACAGGAAATGATGGATGTCAAGCAATTCATTGATAAACTCCTACCTCCAATTGAT**TGAC**GTCACTAAGAGG
CCTTGTGTAGAAGTACACCAGCATCATTGTAGTAGAGTGAAACCTTTTCCCATGCCAGTCTTCAAATTTCTAA
TGTTTTGCAGTGTTAAATGTTTTGCAAATACATGCCAATAACACAGATCAAATAATATCTCCTCATGAGAAATT
TATGATCTTTTAAAGTTTCTATACATGTATTCTTATAAGACGACCCAGGATCTACTATATTAGAATAGATGAAGCA
GGTAGCTTCTTTTTTCTCAAATGTAATTCAGCAAATAATACAGTACTGCCACCAGATTTTTTTATTACATCATTT
GAAAATTAGCAGTATGCTTAATGAAAATTTGTTTCAGGTATAAATGAGCAGTTAAGATATAAACAATTTATGCATG
CTGTGACTTAGTCTATGGATTTATTCCAAAATTGCTTAGTCACCATGCAGTGTCTGTATTTTTTATATATGTGTTT
ATATATACATAATGATTATAATACATAATAAGAATGAGGTGGTATTACATTATTCCTAATAATAGGGATAATGCT
GTTTATTGTCAAGAAAAAGTAAATCGTTCTCTTCAATTAATGGCCCTTTTATTTTGGGACCAGGCTTTTTATTTT
CCCTGATATTATTTCTATTTAATACTCTTTTCTCTCAAGAAAAAAAAAAAAAGTTTGTTTTTTCTTTATTGTCTT
CATAGCAGGCCAAGTATTGCCTCTCTGCAATAGACAGCTACTGTCAATACATGCTGTAATTTGACATTCTGGGTC
ACAGATATAAGGTATTTAAATCTATTTATGCTTTATAGAGAAACCAGACATTAAACTTTCATGCACTACTTATT
TCGAATTACTGTACCTTATCCAAATTTACACCTAGCTATTAGGATCTTCAACCCAGGTAACAGGAATAATTCTGT
GGTTTCATTTTTCTGTAAACAACTGAAAGAATAATTAGATCATATTCTAGTATGTTCTGAAATATCTTTAAGACT
GATCTTAAAACTAACTTCTAAGATGATTTTCATCTTCTCATAGTATAGAGTTTACTTTGTACACGTTTGAAACCA
ACTACTGTAGAAGATGAGGAATCTATTGTAATTTTTTGCTTTATTTTCATCTGCCAGTGGACTTATTTGAAATTT
TCACTTTAGTCAAATTATTTTTTGTATTAGTTTTTGATGCAGACATAAAAAATAGCAATCATTTTAAATTGTCAAA
ATTTCCAGATTACTGGTAAAAATTTTGAAGCAAACTTATGGGTAAATAAAGGCTAGTCAGAACCCTATACCAT
AAAGTGTAGTTACCATACAGATTAATATGTAGCAAAAATGTATGCTTGATATTTCTCAACTGTGTTAATTTTTCT
GCTGTATTCCAGCTGACCAAAACAATATTAAGAATGCATCTTTATAAATGGGTGCTAATTGATAATGGAAATAAT
TTAGTAATGGACTATACAGGATGTTAATAATGAAGCCATATGTTTATGTCTGGATTTAAAAATTTTAAACAATCA
TTTACTATGTCATTTTTCTTTACCTTGAAGAACATAAACTGTTATTTCACTTCTACAAATCAGCAAGATATTATT
TATGGCAAGAAATATTCCATTGAAATATTGTGCTGTAACATGGGAAAGTGTAATGTTTTTCATGGTTTCTATCA
ATGTGAAATAAAATTTAATTCTGAAAAA

2772/6881
FIGURE 2551

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHICYICPHAPVRPVTLNMNVAMP SWFDI
IGLSPDSQEDESIGKQAAENIKALIDQEVKNGIPSNRIILGGFSQGGALSLYTALT TQOKLAGVTALSCWLPLRA
SFPQGP IGGANRDISILQCHGDCDPLVPLMFGSLTVEKLKTLVNPANVTFKTYEGMMHSSCQQEMMDVKQFIDKL
LPPID

2773/6881
FIGURE 2552

CTTTCCTTTTGGAGGAAGACGCGGTTCGTAAGGGCTGAGGATTTTGGTCCGCACGCTCCTGCTCCTGACTCACCGC
TGTTGCTCTCGCCGAGGAACAAGTCGGTCAGGAAGCCCGCGCGCAACAGCCATGGCTTTTAAGGATACCGGAAA
AACACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCTAACAAGCCGCAACGTAAAATCCTTGGA
AAAGGTGTGTGCTGACTTGATAAGAGGCGCAAAAGAAAAGAATCTCAAAGTGAAAGGACCAGTTCGAATGCCTAC
CAAGACTTTGAGAATCACTACAAGAAAACTCCTTGTTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAG
AATTCACAAGCGACTCATTGACTTGACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTATTGAGCC
AGGAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTAATAAATTGATGACCAGTTGTTAAAA
AAAAAAAAAAAAA

2774/6881
FIGURE 2553

MAFKDTGKTPVEPEVAIHRIRITLTSRNVKSLEKVCADLIRGAKEKNLKVKGpVRMPKTLRITTRKTPCGEGSK
TWDRFQMRIHKRLIDLHSPSEIVKQITSISIEPGVEVEVTIADA

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FIGURE 2554

ATGATGAAGGGAACGTCATCATTTGGAAAGCATTGCAATAAGACGTACACGTTATGCCACCACTGTGGCTCTAAG
GCCTACCACCTTCAGAAGTCGACCTATGGCAAATGTGGCTACACTGCCAAGCGCAAGAGAAAGTATAACTGGAGT
ACCAAGGCTAAAAGACGAAATACCACCAGAACTGGTCAAATGAGGCACCTAAAAATTGTATACCATAGATTCAGG
CATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGTTGCAGCATCCAGTTCATCTTAA

2776/6881
FIGURE 2555

MMKGTSSFGKHCKNTYTLCHHCGSKAYHLQKSTYKCGYTAKRRKRKYNWSTKAKRRNTTTRTGQMRHLKIVYHRFR
HGFREGTTPKPKRAAVAASSSS

CCCTGGTGTGATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCTTCTCTCCTAC
CTAAGTGC GTGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTT
TTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCACTTTAAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCT
TTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAA
GGCAGCCCAATTAAAGTAACACTGGCAACTTTGAAAAATGCTGTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAA
ACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCT
GTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGATGATGAAGATGATGATGATGATTTTTAATGAT
GAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAAGATACTCCAGCCAAAAATGCACAAAAGTCAAAT
CAGAATGGAAAAGACTCAAAACCATCAACACCAAGATCAAAAAGGACAAGAATCTTCAAAAAACAGGAAAAAAAC
TCCTAAAACACCAAAAGGACCTAGTTCTGTAAAAGACAT

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FIGURE 2557

GATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTACCTAAGTGCG
TGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTGGTTGT
GAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACG
GTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCCA
ATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCA
CCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAA
GATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGA
GGTAGTAGCAAGCTTCCACAGAAAAAAGTAAACTTGCTGCTGATGAAGATGATGATGATGATGAAGAAGATGAT
GATGATGAAGATGATGATGATGATTTTAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAA
GATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAAGACTCAAAACCATCAACACCAAGATCAAAA
GGACAAGAATCTTTCAAAAAACAGGAAAAAACTCCTAAACACCAAAAAGGACCTAGTTCTGTAAAAGACATTAA
AGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAA
GAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAG
TTTAAACAATTTGTTAAAAATTTTCCGTCTTATTTTCATTTCTGTAACAGTTGATATCTGGCTGTCCTTTTTTATAA
TGCAGAGTGAGAACTTTCCCTACCGTGTGTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAA
ATGCCTGTTTAGTTTTTAAAGATGGAACCTCACCCCTTTGCTTGGTTTTTAAGTATGTATGGAATGTTATGATAGGA
CACAGTAGTAGCGGTGGTCAGACATGGAAATCGTGGGGAGACAAAAATATACCTGTGAAATAAACTCAGTATTT
TAAT

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FIGURE 2558

GGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTACCTAAGTGCCTGCTGCCTCCCGATGGAAGATCTGAT
GGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCA
CTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGA
TGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCAATTAAAGTAACACTGGCAACTTTGAA
AATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGG
/TTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGA
GGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGAGGTAGTAGCAAGCTTCCACAGAAAAA
AGTAAACTTGCTGCTGATGAAGATGATGATGATGAAGAAGATGATGATGATGAAGATGATGATGATGATT
TAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGAAAGGACAAGAATCTTTCAAAAAACAGGAAAAAACTC
CTAAACACCAAAAGGACCTAGTTCTGTAAAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTT
CTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATT
AAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAGTTTAAACAATTTGTTAAAAATTTTCCGTCTTATTT
CATTTCTGTAAACAGTTGATATCTGGCTGTCCTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTTTGATAA
ATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCC
TTTGCTTG

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FIGURE 2559

GCTCCTTCTAGGATCTCCGCCTGGTTTCGGCCCCGCCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGATC
CAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTGCC
CACATCAGCTCCTCGAGCTTCTCCTGAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGG
GCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGTCCTGGAGGTGGAC
CCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACA
GACAAGGTACGGTTCTTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATG
GCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAG
GAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGAT
GAGATCAATAAGCATACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACATGAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTACGAAAAGGAG
ATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGTGTCCATGGACAACAGCCGCTCCCTGGACATG
GACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCAAAGACGGGCTGAGGCTGAGAGCATG
TACCAGATCAAGTATGAGGAGCTGCAGAGTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAG
ATCTCTGAGATGAACTGGAACATCAGCCAGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTG
GAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTG
GAGGCTGCCCTGCAGCGGGCCAAGCAGGACATGGCACGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAAG
CTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCAAAGAGAGCCGGCTGAAGTCTGGGATG
CAGAACATGAGTATTATACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACA
AGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCTCTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGT
TCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTGATGGGAAGCTGGTGTCCGAGTCTCTGACATCCTG
CCCAAGTGAACAGCTGTGGCAGCCCCCTCCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGAGAAGGAGGCCAC
TATTCAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCACCTGGGGAGTTTAC
TACCTGGGGACCCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTTTGGTCCAAAATAAAAC
CTCAGCTAGCTCTGCCAA

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FIGURE 2560

GAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCG
CAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGTCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCC
AGGAGAAGGAGCAGATCAAGACCCCTCAACAACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGC
AGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGT
TCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGC
TTGGCAACATGCAGAGGCTGGTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATG
CAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCT
CTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGTTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTG
ATGGGAAGCTGGTGTCCGAGTCCTCTGACATCCTGCCCAAGTGAACAGCTG

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FIGURE 2561

CTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGC
CCCCTTGTCTCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGG
CAGCTGGAGACTCTGGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGAC
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCATAACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGAT
GTGGATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTC
AGGCAGCTGTACGAAAAGGAGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCATTGCTGAGGTCAAGGCAC
AGTACGAGGATATTGCCAACCAAGACGGGCTGAGGCTGAGAGCATGTACCAGATCAAGTATGAGGAGCTGCAGA
GTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAGATCTCTGAGATGAACTGGAACATCAGCC
AGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAGC
GTGGAGAGCTGGCCATTAAAGGATGCCAACGCCAAGTTGTCCGAGCTGGAGGCTGCCCTGCAGCGGGCCAAGCAGG
ACATGGCACGGCAGCTGCGTGAG

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FIGURE 2562

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCCGATGCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCGAAAC
ATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCATCTTTGATGCCTATTTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCTGCAAG
GACCGAACACCCCCACCCCAATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATTAAATGGAACTGTACTTA

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FIGURE 2563

AGGCGGGGGCGGTGCCATGACGCGCCTCGGGGGCGGTCCCTCGGGCGCGCACCGCTCTCTTACACTCGGGCCTCAG
AAGTCCGTGCCAGTGACCGGAGGCGGCGGGCGGCGAGCGGTTCCTTGTGGGCTAGAAGAATCCTGCAAAAATGTCT
CTCTATCCATCTCTCGAAGACTTGAAGGTAGACAAAAGTAATTCAGGCTCAAACCTGCTTTTTCTGCAAAACCCTGCC
AATCCAGCAATTTTGTGAGAAGCTTCTGCTCCTATCCCTCACGATGGAAATCTCTATCCCAGACTGTATCCAGAG
CTCTCTCAATACATGGGGCTGAGTTTAAATGAAGAAGAAATACGTGCAATGTGGCCGTGGTTTTCTGGTGCACCA
CTTCAGGGGCGAGTTGGTAGCAAGACCTTCCAGTATAAACTATATGGTGGCTCCTGTAACCTGGTAATGATGTTGGA
ATTTCGTAGAGCAGAAAATTAAGCAAGGGATTTCGTGAAGTCATTTTGTGTAAGGATCAAGATGGAAAAATTGGACTC
AGGCTTAAATCAATAGATAATGGTATATTTGTTTCAGCTAGTCCAGGCTAATTCTCCAGCCTCATTGGTTGGTCTG
AGATTTGGGGACCAAGTACTTCAGATCAATGGTGAAAACCTGTGCAGGATGGAGCTCTGATAAAGCGCACAAAGGTG
CTCAACAGGCTTTTGGAGAGAAGATTACCATGACCATTTCGTGACAGGCCCTTTGAACGGACGATTACCATGCAT
AAGGATAGCACTGGACATGTTGGTTTTATCTTTAAAAATGGAAAAATAACATCCATAGTGAAAGATAGCTCTGCA
GCCAGAAATGGTCTTCTCACGGAACATAACATCTGTGAAATCAATGGACAGAATGTCATTGGATTGAAGGACTCT
CAAATTGCAGACATACTGTCAACATCTGGGACTGTAGTTACTATTACAATCATGCCTGCTTTTATCTTTGAACAT
ATTATTAAGCGGATGGCACCAAGCATTATGAAAAGCCTAATGGACCACACCATTCTGAGGTTTTAAAAATTCACGG
CACCATGGAAATGTAGCTGAACGTCTCCAGTTTCCTTCTTTGGCAACTTCTGTATTATGCACGTGAAGCCTTCCC
GGAGCCAGCGAGCATATGCTGCATGAGGACCTTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTCATCTGA
TACCTTGTTTCAGATTTCAAAATAGTTGTAGCCTTATCCTGGTTTTACAGATGTGAAACTTTCAAGAGATTTACTG
ACTTTCCTAGAAATAGTTTCTCTACTGGAACCTGATGCTTTTATAAGCCATTGTGATTAGGATGACTGTTACAGG
CTTAGCTTTGTGTGAAAACCGTCACCTTTCTCCTAGGTAATGAGTAGTGCTGTTTCATATTACTTTAGTTCTATA
GCATACTTGCATCTTTAACATGCTATCATAGTACATTTAGAATGATTGCCTTTGATTTTTTTTTTAAATTCGTG
TGTGTGTGTGTAATAATGCCAATTAAGAACACTGGTTTTCAATCCATGTAAGCATTAAACAGTGTATGTAGGTTTCA
AGAGATTGTGATGATTCTTAAATTTTAACTACCTTCACCTTAATATGCTTGAACCTGTCGCCTTAACTATGTTAAGC
ATCTAGACTAAAAGCCAAAATATAATTATTGCTGCCTTTCTAAAAACCCAAAATGTAGTTCTCTATTAACCTGAA
ATGTACACTAGCCCAGAACAGTTTAATGGTACTTACTGAGCTATAGCATAGCTGCTTAGTTGTTTTTGAGATTTT
TTAGTCAACACATAATGGAACTTCTTTCTTCTAAAAGTTGCCAGTGCCACTTTTAAGAAGTGAATCACTATATG
TGATGTAAAAGTTATTACACTAAACAGGATAAACTTTTGACTCCCCTTTTGTTCATTTGTGGATTAAGTGGTATA
ATACTTAATTTTGGCATTGACTCTTAAGATTATGTAACCTAGCTACTTTGGGATGGTCTTAGAATATTTTTCTG
ATAACTTGTTCCTTTTCTGACTCCTCCTTGCAACAAAATGATAGTTGACACTTTATCCTGATTTTTTTCTTCT
TTTTGGTTTATGTCTATTCTAATTAAATATGTATAAATAAAGTTACATTTTAGTCTGTC

[illegible]

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FIGURE 2565

CAAGAGTCTAGGTAAGAGTTTGTTCCTGGTGCGGAGGGTCAAGGCCACACCCGGAAACCTAGCGAGGTAAAG
TTGCGTCTTGTTGTAGAGACGACAACCTTCTCCGCTTCCTCGGCGATGGCGGCGTCCGGGAGCGGTATGGCCAG
AAAACTGGGAACCTGGCCAACAACATGCAGGAAGCTCAGAGTATCGATGAAATCTACAAATACGACAAGAAACAG
CAGCAAGAAATCCTGGCGGCGAACCTTGGGACTAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTG
GCTCTTCTGAAGATGGTGTATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGGAAAGGTG
GATGGTGAACCATGATCATTATGGACAGTTTGTCTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAG
GCTGCTGCATATGAATACATGGCTGCATACATAGAAAATGCAAAACAGGTTGGCCGCCCTTGAAAATGCAATCGGG
TGGTATCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCAGATGCTCAATCAGCAG
TTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAACAAGAACAATATCCGCAGGGGAAAGTGAATCTTGGCGCC
TTTAGGACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAATAAA
ATAGAAGATTTTGGTGTACACTGCAACAATATTATGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGGATCGC
AAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGAC
TATACCACTGGTCAGGTCTTTGATTTGTCTGAAAAGTTAGAGCAGTCAGAAGCCAGCTGGGACGAGGGAGTTTC
ATGTTGGGTTTAGAAACGCATGACCGAAAATCAGAAGACAACTTGCCAAAGCTACAAGAGACAGCTGTAAAAC
ACCATAGAAGCTATCCATGGATTGATGTCTCAGGTTATTAAGGATAAACTGTTTAATCAAATTAACATCTCTTAA

ACAGTCTCTGAGAAGTACTTTACCTGAAAGACAGTATGAGAAAAATATTCAAGTAACACTTTAAAACAGTTACC
CAAAATCTGATTAGAAGTATAAGGTGCTCTGAAGTGCTCCTAAATATTAATATCCTGTAATAAAGCTCTTTAAAT
GA

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FIGURE 2566

MAASGSGMAQKTWELANNMQEAQSIDEIYKYDKKQQQEILAA NLGTDH HYFKYCKISALALLKMVMHARSGGNL
EVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGI
DVSTQMLNQQFQEPFVAVVIDPRTISAGKVN LGAFRTY PKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALE
VSYFKSSLD RKLLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSEDKL
AKATRDSCKTTIEAIHGLMSQVIKDKLFNQINIS

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FIGURE 2567

GGCACGAGGGGGAGGCGGCGGCGAGTCGGTGAGCAGCTGGGAAGAGCAGAACCGGGGCGGAGCACCTGCAGGCGC
GGGCGGCGGCCCCACCATGGCGATTTCGCAAGAAAAGCACCAAGAGCCCCCAGTGCTGAGCCACGAATTCGTCTCT
GCAGAAATCACGCGGACATCGTCTCCTGTGTGGCGATGGTCTTCCTGCTGGGGCTCATGTTTGAGATAACGGCAAA
AGCTTCTATCATTTTTTGTACTCTTCAGTACAATGTCACCCTCCAGCAACAGAAGAACAAGCTACTGAATCAGT
GTCCCTTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTCTACATGCTAGTGCGGATAATTATTTCATGC
CGTAATTCAAGAGTATATGTTGGATAAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTTAA
TGAATCTGGTCAGCTTAGTGCGTTCTACCTTTTTGCCTGTGTTTGGGGCACATTCAATCTCATCTCTGAAAACATA
CATCTCAGACCCAACTATCTTATGGAGGGCTTATCCCATAACCTGATGACATTTCAAATGAAGTTTTTCTACAT
ATCACAGCTGGCTTACTGGCTTCATGCTTTTCCTGAACCTCTACTTCCAGAAAACCAAAAAAGAGATATTCCTCG
TCAGCTTGTCTACATTGGTCTTTACCTCTTCCACATTGCTGGAGCTTACCTTTTGAACCTGAATCATCTAGGACT
TGTTCTTCTGGTGCTACATTATTTTGTGAATTTCTTTTCCACATTTCCCGCCTGTTTTATTTTAGCAATGAAAA
GTATCAGAAAGGATTTTCTCTGTGGGCAGTTCTTTTTGTTTTGGGAAGACTTCTGACTTTAATTCTTTCAGTACT
GACTGTTGGTTTTTGGCCTTGCAAGAGCAGAAAAATCAGAAGCTGGATTTTCACTACTGGAAAACCTCAATGTGTTAGC
TGTTAGAATCGCTGTTCTGGCATCCATTTGCGTTACTCAGGCATTTATGATGTGGAAGTTCATTAATTTTTCAGCT
TCGAAGGTGGAGGGAACATTCTGCTTTTTCAGGCACCAGCTGTGAAGAAGAAACCAACAGTAACATAAGGCAGATC
TTCTAAAAAAGGAACAGAAAATGGTGTGAATGGAACATTAACCTTCAAATGTAGCAGACTCTCCCCGGAATAAAAA
AGAGAAATCTTCATAATGAATTATAAACTAATTGATTAATGTCCCCAAGAAATCTGCTTTTCTACTATATCTTTC
AGCATTAGAGATTTTTCTGTTCTTGAAAAACAGTCTGTGCTCTTTGATTTTTGCTATTGTACGGTTTCATGCAT
TTTTTTAAAGGGCATTGAGGGGAGGATTATTGCTATGAATGAAAAAATATTTTAGCTTAGACTAAGCTACCTG
CCTTCAAATAGTTTAGGGACCACCACCATATTTTATTTTGTTTTTATTTTTGAACATTTTCTAATGATTTGGA
GAGAAAACATTTTACAAAAATTCCACATATCAGTGATACAATTTCTTGCTGTCACCAATTTTTTATAATAGCAGA
GTGGCCTGTTCTAAGAAGGCCATATTTTTTAAGTTATCTTTCAGGGTAACATGGAATACTATAAAGTTGGATGT
CAAACTTAATATGTTTTAGTGTTCTCTAATTTTTTGGAAATTTTGTAGACTTTACACCTGGAAAAAAGATTT
GTAAATCACCGGAACAATTGTGTGCTTTATTTTATAGGTAGTGTTATTAGTATTACATCCCCATTTTAAAAAC
AAAAACATAATAATGGTTACAACACGTGGAGTTTACTAACATACATATTAAATCAAAGTATATTCTTAAAGTA
CTTGTGAAGTAAATCTTTCTTGTGCATTTTCAATACTTGTAACCTGGAAATCAGAAAATATTTACTATGAACAG
GAAAATCTGACATATAGCCCTTTTGTATGTTTATTAATAATGATTCTTAATGGGGCTCATAATAAGTTTAATA
TGCACAGCATCTTAGAAAAGTTTAACTGCAACACTTTTAAACATAATGCCTACTTGATTTATATCTATAAAA
AGACTGACAGGTAATTATATTTGGAAAACATTTAATGCACTAACTTTAAAGAAATTGAAAATTCAGGTGGATAAA
TAGTCTTACAAAAGACAATGTGCTTTATGTTATACCTATAGCTTTGGTCCCATCTTTAATTGAGAAAACATTTATC
TGTATAAAACATATTTTTTGGATAAATATATATATATATATTTGTATCGCTACAGAAAGGCTCTAAAAAGCATTTG
AGGAAAATATTTGGTTCCCTTTTCTATAATCATCCTTTAAGATTCTTATAGCTACATTTGGTTTTATTCATCATAT
TTACAGTATATATATTGTTCTTTTTCAGTGTTACATCTTGTTCCCATTTTCTCACTTGTTGTCACCAGCTGTTTGT
GCCATTTTGTAGTGTAAAAGTTGCAGACCTATTAGATCTGCAGTTTAAAGTTGCCATGCTGCTAGGAAATGTCTCT
TTTCTTTCTAGCTGTTAACCTACTTCTGGAAGAAAGTAGTAGCTCTCTGTAGCATTATGGAGTTTTCAGTGGAACC
AAATTTTGGCCATTAAAACTGGCATTATACTGAACTATACATTGAGAAATCAATCAAAAATAAAAAATTTTACTT
TCACAAAAA

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FIGURE 2568

MAIRKKSTKSPPVLSHEFVLQNHADIVSCVAMVFLGLMFEITAKASIIFVTLQYNVTLPATEEQATESVSLYYY
GIKDLATVFFYMLVAIIHAVIQEYMLDKINRRMHFSKTKHSKFNESGQLSAFYLFACVWGTFILISENYISDPT
ILWRAYPHNLMTFQMKFFYISQLAYWLHAFPELYFQKTKKEDIPRQLVYIGLYLFHIAGAYLLNLNHLGLVLLVL
HYFVEFLFHISRLFYFSNEKYQKGFSLWAVLFVLGRLLTLILSVLTVGFGLARAENQKLDFSTGNFNVLAVRIAV
LASICVTQAFMMWKFINFQLRRWREHSAFQAPAVKKKPTVTKGRSSKKGTENGVNGLTISNVADSPRNKKEKSS

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FIGURE 2569

CCTCTTTTTCCGGCTGGAACCA**ATG**GAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCCCTGCTGTGCCAGAAACCCTT
AAGAAAAAGCGAAGGAATTTTCGCAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAAGATGCTTCGA
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATATAGGCAGATGTACAGAACTGAA
ATTCTGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATC
AGAATCAGAGGTATCAATGGAGTGAGCCCAAAGGTTGAAAGGTGTTGCAGCTTCTTCGCCCTTCGTCAAATCTTC
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGG
TACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGTTATGGCAAAATCAATAAGAAGCGAATTGCT
TTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATTGATTCATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT
GGAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT
ATTAGAAGAATGAAC**TAA**GGTGTCTACCATGATTATTTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC
AAATTGAAAAAAA

2791/6881
FIGURE 2570

MEGVEEKKKEVPAVPETLKKKRRNF AELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKEYRQMYRTEIRMARMA
RKAGNFYVPAEPKLA FVIRIRGINGVSPKVRKVLQLLRRLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV
NELIYKRGYGKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRFKEANNFLWPFKLSSPRGGMKKKTT
HFVEGGDAGNREDQINRLIRRMN

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FIGURE 2571

CTCGCGCCAGCAGTTTTTTGGCTTTTCACCCCCATCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG
AACACTGCTCGACATGGAAACCAGTGTGATTGAAGGTGGATTAAATATCACTCTCACCATCCGACTACTTATGCA
TGGAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACC
TATCAACATCTCAGAAGGGAATTGTCCTGAGAGAATTATCACTTTTGCTGGACCTGCTAATGCCGTCTTCAAAGG
CTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAGTAGCACAGCTGCCAGTAGACC
CCCAGTCACCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGTTGCAAGATCAA
GGAAATACGAGAGAGTACAGGGGCTCAGGTCTAGATGGCAGGGGATATGCTACCCAACCTCAACTGAGCAGGCCAT
CACTATTGCTGGCATCCACAATCCATCATTGAGTGTGTCAAACAGATCTGTGTGGTCATGTTGGAGTCCCCCCC
GAAGGGCGTGACCATCCCGTACCAGCTCAAGCCTTCCAGCTCTCCGGTCATCTTTGCAGGCGGTCAGGCCTATAC
CCTTCAAGGACAGTTTGCCATTCCACAGCCAGATTTGACCATGCTGCACCAGTTGGCAATGCAACAGTCTCATTT
TCCCATGACGCATGGCAACACTGGATTGAGTGCAGGTTTGGATACATCTGCTCAGACTACTTCTCATGAACCTAC
CATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATAAATGAGATCCGTCAGATGTCTGG
GGCACAGATCAAATTTGCGAACCAGTGGAAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAG
CATTAGCCTGGCTCAATATCTAATCAATGTCAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAA
TGCAGATTTATCCACAATCCCTTTCTGCTGTTCCACCACCACCATGATCCATCTGTGTAGTTTCTGAACAGTCAG
CGATTTGAGGTTTTAAATAGTTTGTAAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTACTTA
AAGTGTTTTAATTCCTTT

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FIGURE 2572

CCCGGCCGGCCGCCCATAGCCAGCCGTCCGTACCTCTTCACCGCCCCCTCAGACCGCCCCAAGGTCCCCCGCC
GCCGCTCCAGCGCCGCGCTGCAGCCGCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCG
CCAGGACTACAACCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTA
CCTGTCCATGTCTTATACTTTGACCGCGATGATGTGGCTTTGAAGAAGTTTGCCAAATACTTTCTTTACCAATCT
CATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGAT
ATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTGGAAAAAAT
GTGAATCAGTCACTACTGGAAGTGTACAACTGGCCACTGACAAAAATGACCCCCATTTGTGTGACTTCATTGAG
ACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTGCGCAAGATGGGA
GCGCCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGTC
TCAGGCTAATTTCCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGCGTGCACGTTAGGGTTTCCTT
TACCTTTTCTATAAGTTGTACCAAAACATCCACTTAAGTTCTTTGATTTGTACCATTTCCTTCAAATAAAGAAATT
TGGTACCAAAATAATTAATAAATAAAAAATTAAAAAAA

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FIGURE 2573

MKLQNQRGGRIFLQDIKKPDCDDWESGLNAMECALYLEKNVNQSLLELYKLATDKNDPHLCDFIETHYLNEQVKA
IKELSDHVTNLRKMGAPESGSAEYLFDKHTLGSDNES

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FIGURE 2574

CCGCCGCTGCAGCCGCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCGCCAGGACTACAA
CCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTACCTGTCCATGTC
TTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTTACCAATCTCATGAGGAGAGG
GAACATGCTGAGAAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCA
GACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTTGGAAAAAATGTGAATCAGTCA
CTACTGGAACGTGTACAAACTGGCCACTGACATGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCGC
AAGATGGGAGCGCCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAA
AGCTAAGTCTCAGGCTAATTTCCCCATAGCCGTGGGGTGCCTTCCTTGGTACCAAGGCAGTGCGTGCACGTTAG
GGTTTCCTTTACCTTTTCTATAAGTTGTACC

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FIGURE 2575

ACCGCCGACGCAGACCCCTCTCTGCACGCCAGCCGCCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGA
AGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCCGAAAA
ATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACT
TTGAAAACAACACAGTTTTTCTTGTACCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAAACTCAG
ACTGTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGA
AAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTA
GAATAAAAATTCATCATCACTTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCT
CCATACTGTTTCTTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACATGCAGCTAT
TTCAAAGTGTGTTGGATTAAATTAGGATCATCCCTTTGGTTAATAAATAAATGTGTTTGTGCT

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FIGURE 2576

MATVQQLEGRWRLVDSKGFDEYMKELGVGIALRKMGAMAKPDCIITCDGKNLTIKTESTLKTTQFSCITLGEKFEE
TTADGRKTQTVCNFTD GALVQH QEWDGKESTITRKLKD GKL VVECV MNNVTCTRIYEKVE

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FIGURE 2577

GCTACCTACAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTCACAATGTCC
GGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCCTTGCAGCAGGAACCCACTTAGGTGGC
ACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGTATCTACATCATAAATCTGAAG
AGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCCTGCTGATGTCAGTGTTATA
TCATCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCTGC
TTCCTCCTGGAACCTTTCATAACCAGATCCAGGCAGCCTTCCAGGAGCCACGACTTCTTGTTGGTTACTGACCCC
AGGGCTGACCACCAGCCTTTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACACAGATTCT
CCTCTGCGCTATGTGCACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATG
CTGGCTTGGGAAGTTCTGTGCATGCGTGGCACCATTTCCCGTGAACACCCGTGGGAGGTCATGCCTGATTTCTGC
TTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGCCTGCTGCTGAAAAGGCTGTGACCAAGGAGGAATTT
CAGGGTGAAAGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTG
CAGGTGCCCTCTGTGCCTATTTCAGCAGTTCCCTACTGAAGACTGCAGCGCTCAGCCTGCCACGGAAGACTGGTCT
GCAGCTCCCACTGCCCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGCATAGGCT
CTTAAGCAATATGAAAAATGGTGGATGGAAAAATAACATCAGTTTCT

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FIGURE 2578

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGCFTPGTFTNQIQAAFQEPRLLVVTDPRADHQPFTTEASYVNLPTIALCNT
DSPLRYVHIAIPCNNKAHSVGLMWWMLAWEVLCMRGTISREHPWEVMPDFCFYRDPEEIEKEEQPAAEKAVTKE
EFQGERTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDCSAQPATEDWSAAPTQAQATEWVGATTEWS

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FIGURE 2579

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCCGTCTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCACAACCTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGGTCGTGGAGGTGGTTTTCAGTGGGAACGACAACCTTTGGTC
ATGGAGGAACTTCAGTGGTCATGGTGGCTTTGGTGGCAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATG
GCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAGCTACAAGGATTTTGGCAATTACAACA
ATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCATGGTGGTGGAG
GCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCA
GAAGATTTTTAAATTAGGAAACAAAGCTCAGCAGGAGAGGAGAGCCAGAGAAGTAACAGGGAAGCTACAGGTTACAA
CAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATA
CTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTTCTGTTT
TGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTTGCACCCATGCTGTTGATTGCTAA
ATGTAATAGTCTGATCGTGACACTGAATAAATGTCCTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAA
GCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTT
ATATACAACCTGCTTGGGTGAAGAAGCCATTGCTCTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGT
GACCTGAAGTTCACCATTAAGGGATTATCCAAGCAAAATCATGGAATTATTGGTTATAAAGTGATTGTTGGT
ACATCCTATGCAATATATCTAAATTGAATAATGGTACCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCA
TCCATTATCGTATGTAATCAATAAACGATTTAATTCTCTTGAA

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FIGURE 2580

MNARPHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMSDRSGGKKR
GFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVTKALSKQEMASASSSQRGRSGSGNFGGGRGGGFSGNDNFGHGGN
FSGHGGFGGSHGGGGYGGNGDGYNGFGNDGSNFGGGGSYKDFGNYNQSSNFGPMKGGNFGGRSSGPHGGGGQYF
AKPRNQGGYGGSSSSSSSYSGRRF

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FIGURE 2581

AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGAAA
AATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGA
CCATGACTCCGTGGATAAGATTGTCATTTCAGAAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTACAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGG
TCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTCATGGAGGAACTTCAGTGGTCATGGTGGCTTTGGTGG
CAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGG
AGGTGGTGGGAAGCTACAAGGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAAGCTCTGGCCCCATGGTGGTGGAGGCCAGTACTTTGCAAAGCAGAAGATTTTAATTAGG

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FIGURE 2582

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCCGTCTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCCACTTAACCTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCACAACCTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTCGAAGTGGTTCTGGAAACTTTGGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTC
ATGGAGGAACTTCAGTGGTCATGGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTG
GTGGAAGCTACAAGGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTG
GAGGCAGAAGCTCTGGCCCCCATGGTGGTGGAGGCCAGTACTTTGCAAACACGAAACCAAGGTGGCTATG

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FIGURE 2583

GGTAGCAGCCATTTAACTGATGTCCTTTTGTATGATTGTTCACTTAATAAAGGATGAATTCAGTTAATGGAG
AATCATCCTCATTTGCACCAACTGATAATGCGTCTGTCACGGGTACTCCAGTAGTGTCTGAAGAAAATGCCTTGT
CTCCAAATTGCACTAGTACTACTGTTGAAGATCCTCCAGTTCAAGAAATACTGACTTCCTCAGAAAACAATGAAT
GTATTCTTCTACCAAGTGCAGAATTGGAATCTGAAGCTAGAAGTATATTAGAGCCTGACACCTCTAATTCTAGAA
GTAGTTCTGCTTTTGAAGCAGCCAAATCAAGACAGCCAGATGGGTGTATGGATCCTGTACGGCAGCAGTCTGGGA
ATGCCAACACAGAAACCTTGCCATCAGGGTGGGAACAAAGAAAAGATCCTCATGGTAGAACCTATTATGTGGATC
ATAATACTCGAACTACCACATGGGAGAGACCACAACCTTTACCTCCAGGTTGGGAAAGAAGAGTTGATGATCGTA
GAAGAGTTTATTATGTGGATCATAACACCAGAACAACAACGTGGCAGCGGCCTACCATGGAATCTGTCCGAAATT
TTGAACAGTGGCAATCTCAGCGGAACCAATTGCAGGGAGCTATGCAACAGTTTAACCAACGATACCTCTATTCTGG
CTTCAATGTTAGCTGCAGAAAATGACCCCTTATGGACCTTTGCCACCAGGCTGGGAAAAAAGAGTGGATTCAACAG
ACAGGGTTTACTTTGTGAATCATAACACAAAAACAACCCAGTGGGAAGATCCAAGAAGTCAAGGCTTACAGAATG
AAGAACCCCTGCCAGAAGGCTGGGAAATTAGATATACTCGTGAAGGTGTAAGGTACTTTGTTGATCATAACACAA
GAACAACAACATTCAAAGATCCTCGCAATGGGAAGTCATCTGT

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FIGURE 2584

AGAGTCCGCGCCCTGCGTCCGCGACCAGGAGGATCGGACCTTCGCCTTCGCTGTGCGCCGCCGCCGCCGCCGCCGCGG
CCGTCGGGGCTATTAGTGAAAAG**ATGG**TGGATCGCTTGGCAAACAGTGAAGCAAATACTAGACGTATAAGTATAGT
GGAAAAC**TG**TTTTGGAGCAGCTGGTCAACCTTTAACTATACCTGGACGAGTTCTTATTGGAGAAGGAGTATTGAC
TAAGTTGTGCAGGAAAAAGCCCAAAGCAAGGCAGTTTTTCTTGTTTAAATGATATTCTTGTATATGGCAATATTGT
CATCCAGAAGAAAAATATAACAAACAACATATTATTCCCCTGGAAAATGTCACTATTGATTCCATCAAAGATGA
GGGAGACTTAAGGAATGGATGGCTAATCAAGACACCAACTAAATCTTTTGAGTTTATGCTGCCACTGCTACGGA
GAAATCAGAATGGATGAATCATATAAATAAATGTGTTACTGATTTACTCTCCAAAAGTGGGAAGACACCCAGTAA
TGAACATGCTGCTGTCTGGGTTCCCTGACTCTGAGGCAACTGTATGTATGCGTTGTGAGAAAGCAAAATTCACACC
TGTTAATCGTCGCCACCATTGCCGCAAATGTGGTTTTGTTGTCTGTGGGCCCTGCTCTGAAAAGAGATTTCTTCT
TCCCAGCCAGTCCTCTAAGCCTGTGCGGATTTGTGACTTCTGCTATGACCTGCTTTCTGCTGGGGACATGGCCAC
ATGCCAGCCTGCTAGATCAGACTCTTACAGCCAGTCATTGAAGTCTCCTTTAAATGATATGTCTGATGATGATGA
CGATGATGATAGCAGTGAC**TAAG**GACACATTTGGGAGTATTTAATCAGGTGTGGCTATCTGAGAAATCAACTTTG
GGGGAATGTAAAGATTCTGAGCTCTCTCTCTGTTTTGTTCTAGCCATGAATTTGCCTGAGAAACTTGTAACCTAT
GTGCCTCAATATATTCCATAGAAAGTAGGTCCCCCTGCCTTCTCCCACTCCTCACACTCTTCTACAGGGATAGGC
TTTTGCAAATATATCAGATAAATTTTTTGTTTCTTGTTTATTTTATAGGTTATTTTCTTGGAAGGTTGGGAAAAGA
TGTTTGTTTAAACAGGTCATGTACTACGTTGTTGTTTTCACTTCTGTTATAAGTAAACTAAAGCACAGAATGG
TGGGAAGGGGCTATAATGTGGTTCATTAATAATGTTAGCAGCTTTTTTCTAACCATCCTGTCTAATGGTTAAGA
CACCAGTAACAAAAACACATGATTTGGAATACTTTGGCTTTTTTCATATACCTAGTGGTGCCTTATCATAATAGC
ACTGTTACATGAAATAAGCCCCCTACCTTCTTACTTTCTGGTTTTGTTGAAAAAATACACTGGTGCTCTTTGAAGTG
ATAAAATGAGTGTTTATGAATGGGTGTAATTAGGAAATACTTCTCATCTGACAGCTACAAATAACTAAGTTTGGGA
GGTATTTTCACTCTATATGAATAAATATTTTTCCATAAAATAGTTGTGATTATATTTTTGTTTTATATAGGTCCC
AAATTATAATTGTCAAATATATATTTTAAATTAATAAAAGTTGTCATTCTTAGGAATTTGGTTTTGAAATTTATCA
GTTATACAGAATTGTCATACTGCATTAGCTTCTACCTTTAGTAAGACATATTTTTTAGGTATAAATCTTATGCT
TTAACATTATTTCTGGATTGAAAATCTTATAAAACCCCTGAAAATAAACAGTCTCTTTTTTACAAAGCCTGTGTT
AGAGCACAGATTTACCTAGGCTTGAAGATTTGGAAGAAATAATATGTAAGAATGGCCTCAAGGCAGACCACTTTA
AGTTTGGCTAGACTTCATATCGTGGAAGTATTGTCTATTTTCAAGTGTAAGTATCTTGAATTTGCAAATATAGTG
TTATATTTTATAAAAGTTTTGTAAATCCCAAACAATATTTCTATTTTGTAAACAATTGTATGTATAATCTGTA
TTTGAAATCATTTTGCAATCTATGGAATAGAGTAGCAATTGCTATTTCTAAATTGTGAACCTTTAAGTCAATCTA
GATTTATTTTGAGAAGTAATTGTTCACTCTTTACTTTTGAGGCAGCCATTAGGTTGAAAGTATATATTTATCATA
TAAAACCTTGATGCGTTTTGCCTACTCTTTCCATTTATATGCTGCAAACAACCTACAGTCTTTGAAATATGGAAAA
TCAGCAGTCTAAAGTTTGTTTTAAATTCTAAATTTAAAAAATCTTCAAATCTGAATATACCGCAAATGTCATGAG
AAGTTTGATTCACTAACTTGTGATGGAGGATTCTTTGGTATCTTACTGTTTGGTTAAGGCACTAATTTTACTTAC
CTATTAGATTTTGAAAGTATCTGAGATATACAAATCTCCCTGTAGGAAATGTGAAAGAAAAGCACAAACAAACTA
GGGTTTTTTGTTCAATTTGCTTGCTTTTATGATTTTTTTGGTTTGTTTAATATCAGGTGGATTTTTGTTTCTAA
GCAATATATACATAAAATCAACCAACATATCTGAAAAGGATCATGAAACCTGAGAAATGCTAATGGAGATTTGCT
GGTACATAGGAATCTAGCAAATTCAGGAACCAAGGGGAAATGTTGTGAGATAACATTTACATTGTCAACCTTTAT
TGACTTTGTTTTTACAATAAAAAATATTTTACAACCTT

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FIGURE 2585

MVDRLANSEANTRRISIVENCFGAAGQPLTIPGRVLIGEGVLTKLCRKKPKARQFFLFNDILVYGNIVIQKKKYN
KQHIIPLENVTIDSIKDEGDLRNGWLIKTPKSFVYAATATEKSEWMNHINKCVTDLLSKSGKTPSNEHAAVWV
PDSEATVCMRCQAKFTPVNRRHHCRCGFVVCGPCSEKRFLPSQSSKPVRICDFCYDLLSAGDMATCQPARSD
SYSQSLKSPLNDMSDDDDDDSSD

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FIGURE 2586

GGCGGGCTCCAGGCGAGGCGGTCTGACGCTCCTGAAAACCTTGCGCGCGCGCTCGCGCCACTGCGCCCCGGAGCG**ATG**
AAGATGGTCGCGCCCTGGACGCGGTTCTACTCCAACAGCTGCTGCTTGTGCTGCCATGTCCGCACCGGCACCATC
CTGCTCGGCGTCTGGTATCTGATCATCAATGCTGTGGTACTGTTGATTTTATTGAGTGCCCTGGCTGATCCGGAT
CAGTATAACTTTTCAAGTTCTGAACTGGGAGGTGACTTTGAGTTTCATGGATGATGCCAACATGTGCATTGCCATT
GCGATTTCTCTTCTCATGATCCTGATATGTGCTATGGCTACTTACGGAGCGTACAAGCAACGCGCAGCCTGGATC
ATCCCATTTCTTCTGTTACCAGATCTTTGACTTTTGCCCTGAACATGTTGGTTGCAATCACTGTGCTTATTTATCCA
AACTCCATTCAGGAATACATACGGCAACTGCCTCCTAATTTTCCCTACAGAGATGATGTCATGTCAGTGAATCCT
ACCTGTTTGGTCCCTTATTATTCTTCTGTTTATTAGCATTATCTTGACTTTTAAGGGTTACTTGATTAGCTGTGTT
TGGAAGTCTACCGATACATCAATGGTAGGAACCTCTGATGTCCTGGTTTATGTTACCAGCAATGACACTACG
GTGCTGCTACCCCCGATGATGATGCCACTGTGAATGGTGTGCTGCCAAGGAGCCACCGCCACCTTACGTGTCTGCC
TAAGCCTTCAAGTGGGCGGAGCTGAGGGCAGCAGCTTGACTTTGCAGACATCTGAGCAATAGTTCTGTTATTTCA
CTTTTGCCATGAGCCTCTCTGAGCTTGTTTGTTGCTGAAATGCTACTTTTTAAAATTTAGATGTTAGATTGAAAA
CTGTAGTTTTCAACATATGCTTTGCTGGAACACTGTGATAGATTAAGTGTAGAATTCTTCTGTACGATTGGGGA
TATAATGGGCTTCACTAACCTTCCCTAGGCATTGAACTTCCCCCAAATCTGATGGACCTAGAAGTCTGCTTTTG
TACCTGCTGGGCCCCAAAGTTGGGCATTTTTCTCTCTGTTCCCTCTCTTTTGAAAATGTAAAATAAAACCAAAAA
TAGACAACTTTTCTTCAGCCATTCCAGCATAGAGAACAAAACCTTATGGAAACAGGAATGTCAATTGTGTAATC
ATTGTTCTAATTAGGTAAATAGAAGTCCTTATGTATGTGTTACAAGAATTTCCCCCACAACATCCTTTATGACTG
AAGTTCAATGACAGTTTGTGTTTGGTGGTAAAGGATTTTCTCCATGGCCTGAATTAAGACCATTAGAAAGCACCA
GGCCGTGGGAGCAGTGACCACTGCTGACTGTTCTTGTTGGATCTTGTGTCCAGGGACATGGGGTGACATGCCTCG
TATGTGTTAGAGGGTGGAATGGATGTGTTTGGCGCTGCATGGGATCTGGTGCCCTCTTCTCCTGGATTACATC
CCCACCCAGGGCCCGCTTTTACTAAGTGTTCTGCCCTAGATTGGTTCAAGGAGGTCATCCAAGTACTTTATCAA
GTGGAATTGGGATATATTTGATATACTTCTGCCTAACAACATGGAAAAGGGTTTTCTTTTCCCTGCAAGCTACAT
CCTACTGCTTTGAACTTCCAAGTATGTCTAGTCACCTTTTAAAAATGTAAACATTTTCAGAAAAATGAGGATTGCC
TTCCTTGATGCGCTTTTACCTTGACTACCTGAATTGCAAGGGATTTTATATATTATCATATGTTACAAAGTCAG
CAACTCTCCTGTTGGTTCATTATTGAATGTGCTGTAAATTAAGTTGTTTGCAATTAAAACAAGGTTTGCCAC

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FIGURE 2587

MKMVAPWTRFYNSCCLCCHVRTGTILLGVWYLIINAVVLLILLSALADPDQYNFSSSELGGDFEFMDDANMCIA
IAISLLMILICAMATYGAYKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPNSIQEYIRQLPPNFPYRDDVMSVN
PTCLVLIILLFISIILTFKGYLISCVWNCYRYINGRNSDVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVS
A

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FIGURE 2588

CCTTTCTCGTTCCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCGTCCCGCTCCTAAGGCAGGAAGATGGT
GGCCGCAAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGTA
CGTCCTGGGGTACAAGCAGACTCTGAAGATGATCAGACAAGGCAAAGCGAAATTGGTCATTCTCGCTAACAACCTG
CCCAGCTTTGAGGAAATCTGAAATAGAGTACTATGCTATGTTGGCTAAAACCTGGTGTCCATCACTACAGTGGCAA
TAATATTGAACTGGGCACAGCATGCGGAAAAATACTACAGAGTGIGCACACTGGCTATCATTGATCCAGGTGACTC
TGACATCATTAGAAGCATGCCAGAACAGACTGGTGAAAAGTAAACCTTTTCACCTACAAAATTTACCTGCAAAC
CTTAAACCTGCAAATTTTCTTTAATAAAAATTTGCTTGTTTTAAAAACATTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2589

MVAAKKTkKSLESINSRLQLVMKSGKYVLGYKQTLKMIRQGKAKLVILANNCPALRKSEIEYYAMLAKTGVHHYS
GNNIELGTACGKYRVCTLAIIDPGDSDIIRSMPEQTGEK

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FIGURE 2590

GCCCCACTCCCACCGCCAGCTGGAACCCCTGGGGACTACGACGTCCCTCAAACCTTGCTTCTAGGAGATAAAAAAGAA
CATCCAGT**CATG**GATAAAAAATGAGCTGGTTTCAGAAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGACATG
GCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGCT
TATAAAAAATGTTGTAGGAGCCCGTAGGTTCATCTTGGAGGGTTCGTCTCAAGTATTGAACAAAAGACGGAAGGTGCT
GAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGCAATGATGTA
CTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAATGAAA
GGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACAAGAAAGGGATTGTGATCAGTCACAACAA
GCATACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTT
AACTTCTCTGTGTTCTATTATGAGATTCTGAAGTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGAT
GAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCACGCTAATAATGCAATTACTGAGA
GACAACTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAAT**TA**ACCG
GCCTTCCAACCTTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTCCCAAAATA
GTTTTTTGTTTTACGATTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATATTTCCCATGTGGTTTTTATG
TTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGG
ATGTGGAATTTTTATACAAGTTATAAGTGTGTTGGCATAGTACTTTTGGTACATTGTGGCTTCAAAGGGCCAGTG
TAAACTGCTTCCATGTCTAAGCAAAGAAAAGTGCCTACATACTGGTTTGTCTGGCGGGGAATAAAAGGGATCA
TTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAATCAT
ACCCCATGGATACCACATATTAACCATGTATATCTGTGGAATACTCAATGTGTACACCTTTGACTACAGCTGCA
GAAGTGTTCCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCCATTATTT
GTAAAGTTACCTGCTGTTAGCTTTTCATTATTTTTGCTACACTCATTTTTATTTGATTTTAAATGTTTTAGGCAACC
TAAGAACAAATGTAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTTCATTACTTCATGTATATCAAGCAC
AGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTTTAGGATTTTTTGCTTTTGTGATTTTTTTTTTTTTTTTT
GATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAGGGAAATAAAGTGGATGATGGCTAGCTTTGTTT
AATGTCCTTATGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACGTGTATTAAATTCATGTAAGTGGA
ATAAAAGTTTTATGAATGGACTTTTCAACTACTTCTCTACAGCTTTTCATGTAAATTAGTCTTGGTTCTGAAAC
TTCTCTAAAGGAAATTGTACATTTTTTGAAATTTATTCCTTATTCCTCTTGGCAGCTAATGGGCTCTTACCAAG
TTTAAACACAAAATTTATCATAACAAAAATACTACTAATACTACTGTTTCCATGTCCCATGATCCCCCTCTCT
TCCTCCCCACCCTGAAAAAATGAGTTCCTATTTTTTCTGGGAGAGGGGGGATTGATTAGAAAAAATGTAGTG
TGTTCCATTTAAATTTTGGCATATGGCATTCTTAAGTGGGAGCCACAATGTTCTTGGCCCATCATGACATT
GGGTAGCATTAAGTGTAAAGTTTTGTGCTTCCAAATCACTTTTTGGTTTTTAAGAATTTCTTGATACTCTTATAGC
CTGCCTTCAATTTTGATCCTTTATTCTTTCTATTTGTGAGGTGCACAAGATTACCTTCCTGTTTTAGCCTTCTGT
CTTGTACCAACCATTTCTTACTTGGTGGCCATGTACTTGGAAAAAGGCCGCATGATCTTTCTGGCTCCACTCAGT
GTCTAAGGCACCCTGCTTCCTTTGCTTGCATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAAACTCTCT
CCTTAGTTGATGAGACTGTGTTTATCTCCCTTTAAACCCCTACCTATCCTGAATGGTCTGTGATTGTCTGCCTTT
AAAATCCTTCCTCTTTCTTCTCCTCTATTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCTCACTTTAC
AAAATATTTCTCAGTACTTTGCAGAAAACACCAAAACAAAAATGCCATTTTAAAAAAGGTGTATTTTTTCTTTTA
GAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTATTGTGCCTAGTACACTGTAAATGCTCAA
TAAATATTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAACTGAAATCCC

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FIGURE 2591

MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAELSNEERNLLSVAYKNVVGARRSSWRVSSIEQKTEGAEEK
QQMAREYREKIETELRDICNDVLSLLEKFLIPNASQAESKV FYLKMKGDYYRYLA EVAAGDDKKGIVDQSQQAYQ
EAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELDTLSEESYKDSTLIMQLLRDNL
TLWTSDTQGDEAEAGEGGEN

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FIGURE 2592

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCGAAAC
ATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAAG
GACCGAACACCCCCACCCCGATTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTGAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTGTTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 2593

CCTTCTCCCCGGCGGTTAGTGCTGAGAGTGCGGAGTGTGTGCTCCGGGCTCGGAACACACATTTATTATTAAAAA
ATCCAAAAAAATCTAAAAAAATCTTTTAAAAAACCCAAAAAAATTTACAAAAATCCGCGTCTCCCCCGCCGG
AGACTTTTATTTTTTTTCTTCTCTTTTATAAAATAACCCGGTGAAGCAGCCGAGACCCGCCCCGCCGCGG
CCCCGCAGCAGCTCCAAGAAGGAACCAAGAGACCGAGGCCCTTCCCGCTGCCCGGACCCGACACCGCCACCCTCGC
TCCCCGCCGGCAGCCGGCAGCCAGCGGCAGTGGATCGACCCCGTTCTGCGGCCGTTGAGTAGTTTTCAATTCCGG
TTGATTTTTGTCCCTCTGCGCTTGCTCCCCGCTCCCCCTCCCCCGGCTCCGGCCCCCAGCCCCGGCACTCGCTCT
CCTCCTCTCACGGAAGGTGCGGCGCTGTGCCCTGCGGGCAGCCGTGCCGAGATGAACCCAGTGCCCCCAGCTA
CCCCATGGCCTCGCTCTACGTGGGGGACCTCCACCCCGACGTGACCGAGGCGATGCTCTACGAGAAGTTTCAGCCC
GGCCGGGCCCCTCCTCTCCATCCGGGTCTGCAGGGACATGATCACCCGCCGCTCCTTGGGCTACGCGTATGTGAA
CTTCCAGCAGCCGGCGGACGCGGAGCGTGCTTTGGACACCATGAATTTTGATGTTATAAAGGGCAAGCCAGTACG
CATCATGTGGTCTCAGCGTGATCCATCACTTCGCAAAAGTGGAGTAGGCAACATATTCATTAAAAATCTGGACAA
ATCCATTGATAATAAAGCACTGTATGATACATTTTCTGCTTTTGGTAACATCCTTTTCATGTAAGGTGGTTTGTGA
TGAAAATGGTTCCAAGGGCTACGGATTTGTACACTTTGAGACGCAGGAAGCAGCTGAAAGAGCTATTGAAAAAAT
GAATGGAATGCTCCTAAATGATCGCAAAGTATTTGTTGGACGATTTAAGTCTCGTAAAGAACGAGAAGCTGAAC
TGGAGCTAGGGCAAAGAATTCACCAATGTTTACATCAAGAATTTTGGAGAAGACATGGATGATGAGCGCCTTAA
GGATCTCTTTGGGCTGCCTTAAGTGTGAAAGTAATGACTGATGAAAGTGGAAAATCCAAAGGATTTGGATTTGT
AAGCTTTGAAAGGCATGAAGATGCACAGAAAGCTGTGGATGAGATGAACGGAAGGAGCTCAATGGAAAACAAAT
TTATGTTGGTCGAGCTCAGAAAAAGGTGGAACGGCAGACGGAACCTTAAGCGCAAATTTGAACAGATGAAACAAGA
TAGGATCACCAGATACCAGGGTGTAAATCTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGTCTCCG
GAAAGAGTTTTCTCCATTTGGTACAATCACTAGTGCAAAGGTTATGATGGAGGGTGGTTCGAGCAAAGGGTTTGG
TTTTGTATGTTTCTCCTCCCCAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAAA
GCCATTGTATGTAGCTTTAGCTCAGCGCAAAGAAGAGCGCCAGGCTCACCTCACTAACCAGTATATGCAGAGAAT
GGCAAGTGTACGAGCTGTTCCCAACCTGTAAATCAACCCCTACCAGCCAGCACCTCCTTCAGGTTACTTCATGGC
AGCTATCCCACAGACTCAGAACCCTGCTGCATACTATCCTCCTAGCCAAGTTGCTCAACTAAGACCAAGTCCTCG
CTGGACTGCTCAGGGTGCCAGACCTCATCCATTCCAAAATATGCCCGGTGCTATCCGCCCAGCTGCTCCTAGACC
ACCATTTAGTACTATGAGACCAGCTTCTTCACAGGTTCCACGAGTCATGTCAACACAGCGTGTGCTAACACATC
AACACAGACAATGGGTCCACGTCTGCAGCTGCAGCCGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTA
TAAATATGCTGCAGGAGTTCGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAATGCAACAGCCTGC
TGTTTCATGTACAAGGTTCAGGAACCTTTGACTGCTTCCATGTTGGCATCTGCCCCCTCCTCAAGAGCAAAAGCAAAT
GTTGGGTGAACGGCTGTTTCTCTTATTCAAGCCATGCACCCTACTCTTGCTGGTAAAATCACTGGCATGTTGTT
GGAGATTGATAATTGAGAACTTCTTCATATGCTCGAGTCTCCAGAGTCACTCCGTTCTAAGGTTGATGAAGCTGT
AGCTGTACTACAAGCCCACCAAGCTAAAGAGGCTGCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACTGT
TTAAAATTGATCAGGGACCATGAAAAGAACTTGTGCTTCACCGAAGAAAAATATCTAAACATCGAAAACTTAA
ATATTATGGAAAAAAACATTGCAAAATATAAAATAAATAAAAAAAGGAAAGGAACTTTGAACCTTATGTACCG
AGCAAATGCCAGGTCTAGCAAACATAATGCTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAACACAAAA
ATAGTAAATATAAAAACAAATTAATGTTTTATAGACCCTGGGAAAAAGAATTTTCAGCAAAGTACAAAAATTTA
AAGCATTCCTTTCTTTAATTTTGTAATCTTTACTGTGGAATAGCTCAGAATGTCAGTTCTGTTTTAAGTAACAG
AATTGATAACTGAGCAAGGAAACGTAATTTGGATTATAAAATCTTGCTTTAATAAAAAATTCCTTAAACAGT

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FIGURE 2594

MNPSAPSYPMASLYVGDLHPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYVNFQQPADAERALDTMNF
VIKGPVRIMWSQRDPSLRKSGVGNIFIKNLDKSIDNKALYDTFSAFGNILSCKVVCDENGSKGYGFVHFETQEA
AERAIEKMNGMLLNDRKVFVGRFKSRKEREAELEGARAKEFTNVYIKNFGEDMDDERLKDILFGPALS VKVMTDESG
KSKGFGFVSFERHEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKFEQMKQDRITRYQGVNLYVKNLDD
GIDDERLRKEFSPFGTITSKVMMEGGRSKGFGFVCFSSPEEATKAVTEMNGRIVATKPLYVALAQRKEERQAH
TNQYMQRMASVRVNPVNPYQPPSGYFMAAIPQTQNR AAYYPPSQVAQLRPSRWTAQGARP HFFQNMPGA
IRPAAPRPPFSTMRPASSQVPRVMSTQRVANTSTQTMGPRPAAAAAATPAVRTVPQYKYAAGVRNPQQHLNAQP
QVTMQQPAVHVQGQEPLTASMLASAPPQEQKQMLGERLFPLIQAMHPTLAGKITGMLEIDNSELHLMLESPE
RSKVDEAVAVLQAHQAKEAAQKAVNSATGVPTV

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FIGURE 2595

GCCATTGCCTTGAGTGAGTGTGCCGCTCTCCAGCCCGTTTGAACGCTCCCCGCAGCCACCGCCACCCATTGGAAT
GGCCAACAGGGGACCTGCATTATGGCCTGAGCCAGGAGGTGCAGCAGAAGATTGAGAAACAGTATGATGCAGATC
TGGAGCAGATCCTGATCCAGTGGATCACCACCCAGTGCCGAAAGGATGTGGGCCGGTCCCAGCCTGGACGCGAGA
ACTTCCAGAAGTGGCTCAAGGATGGCACGGTGTTATGTGAGCTCATTAATGCACTGTACCCCAAGGGGCAGGTCC
CAGTAAAGAAGATCCAGGCCTCCACCATGGCCTTCAAGCAGATGGAGAAGATCTCTCAGTTCTGCAAGCAGCTG
AGCGCTATGGCATTAAACACCACTGACATCTTCCAAACTGTGGACCTCTGGGAAGGAAAGAACATGGCCTGTGTGC
AGCGGACGCTGAGGAATCTGGGTGGGTTGGCAGTAGCCTGGGATGATGGGCTCTTCTCTGGGGATCCCAACTGGT
TCCCTAAGAAATCCAAGGAGAATCCTCGGAACCTTCTCGGATAACCAGCTGCAAGAGGGCAAGAACGTGATCGGGC
TACAGATGGGGGGCATCTCAGGCAGGCATGACTGGCTACTGGATGCCACACCAGATCCTTTGATCCCACCCCAGG
CCTTGCCCCTGCCCTCCCACGAGTGGTTAATATACATGTAGATATATATTTTAGCAGTGACATTCCAGAGAGCC
CCAGAGCTCTTAAGCTCCCTTCTGTGAGGGTGAGGGGTTGAGCCTGTCTTATCACCTCTGAGGTGCCTGTTGGCA
GCCTCTCCCCCGTGCTTACTAATAACATTCCCCTCCCCATACCCATCAAACTGGACCAACTGGCCTCTTCTTTTC
CCCTGGGATCAAAATTTAGGGGCCTCAGTCCCTCACCGCCATGCCCTGGCCTGTTCTGTCTCTCCTTTTTCCCCC
TGGCCTGTTCTGTCTCTGAGCTCTGTGCCCTCCGTTTATTCCATGGCTGGGAGTCAGTGATGCTGCCTCTGCCTT
CTGATGCTGGACTGGCCTTGCTTCTACAAGTATGCTTCTCCCACAGCTGTGGCTGCAGGAACCTAATTTATAGGG
AGGAGCCTGTGGCAGCTGCTGCCCCAGCCACAGCTGCACTGACTGTGCTCACCACACATCTGGGGCAGCCTTCCC
TGGCAGAGGCCCTCATGGCTTCTCATTTTCCATTCCCTTCACTGTGGCTAAGGGGTGGGGTGAGGGGACGGAGAG
GGAGGGCTGCCTACCATGGTCTGGGGCTTGAGGAAGATGAGTTTGTGATTTAAAGAATTTGTCAATTT

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FIGURE 2596

GGACTCCCTTTTCTTTGGCAAGATGGCGGAGTACGACTTGACTACTCGCATCGCGCACTTTTGGATCGGCATCT
AGTCTTTCGCTTCTTGAATTTCTCTCTGTAAAGGAGATATATAATGAAAAGGAATTATTACAAGGTAAATTGGA
CCTTCTTAGTGATAACCAACATGGTAGACTTTGCTATGGATGTATACAAAAACCTTTATTCTGATGATATTCCTCA
TGCTTTGAGAGAGAAAAAGAACCACAGTGGTTGCACAACTGAAACAGCTTCAGGCAGAAACAGAACCAATTGTGAA
GATGTTTGAAGATCCAGAACTACAAGGCAAATGCAGTCAACCAGGGATGGTAGGATGCTCTTTGACTACCTGGC
GGACAAGCATGGTTTTAGGCAGGAATATTTAGATACACTCTACAGATATGCAAAATTCCAGTACGAATGTGGGAA
TTACTCAGGAGCAGCAGAATATCTTTATTTTTTTAGAGTGCTGGTTCCAGCAACAGATAGAAATGCTTTAAGTTC
ACTCTGGGGAAAGCTGGCCTCTGAAATCTTAATGCAGAATTGGGATGCAGCCATGGAAGACCTTACACGGTTAAA
AGAGACCATAGATAATAATTCTGTGAGTTCTCCACTTCAGTCTCTTCAGCAGAGAACATGGCTCATTCACTGGTC
TCTGTTTGTTTTCTTCAATCACCCCAAAGGTCGCGATAATATTATTGACCTCTTCCTTTATCAGCCACAATATCT
TAATGCAATTCAGACAATGTGTCCACACATTCTTCGCTATTTGACTACAGCAGTCATAACAAACAAGGATGTTTCG
AAAACGTCGGCAGGTTCTAAAAGATCTAGTTAAAGTTATTCAACAGGAGTCTTACACATATAAAGACCCAATTAC
AGAATTTGTTGAATGTTTATATGTTAACTTTGACTTTGATGGGGCTCAGAAAAAGCTGAGGGAATGTGAATCAGT
GCTTGTGAATGACTTCTTCTTGGTGGCTTGTCTTGAGGATTTCAATTGAAAATGCCCGTCTCTTCATATTTGAGAC
TTTCTGTCGCATCCACCAGTGTATCAGCATTAAACATGTTGGCAGATAAATTGAACATGACTCCAGAAGAAGCTGA
AAGGTGGATTGTAAATTTGATTAGAAATGCAAGACTGGATGCCAAGATTGATTCTAAATTAGGTCATGTGGTTAT
GGGTAACAATGCAGTCTCACCTATCAGCAAGTGATTGAAAAGACCAAAAGCCTTTCTTTAGAAGCCAGATGTT
GGCCATGAATATTGAGAAGAACTTAATCAGAAATAGCAGGTCAGAGGCTCCTAACTGGGCAACTCAAGATTCTGG
CTTCTACTGAAGAACCATAAAGAAAAGATGAAAAAAAAAACTATCAAAGAAAGATGAAATAATAAACTATTATA
TAAAGGTGACTTACATTTTGAAACAACATATTACGTATAAATTTGAAGAATTGGAATAAAATTGATTCATT
TAAAAAAAAA

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FIGURE 2597

MAEYDLTTRIAHFLDRHLVFPLLEFLSVKEIYNEKELLQGKLDLLSDTNMVDFAMDVYKNLYSDDIPHALREKRT
TVVAQLKQLQAETEP IVKMFEDPETTRQM QSTRDGRMLFDYLADKHGFRQEYLD TLYRYAKFQYECGNYS GAAEY
LYFFRVLVPATDRNALSSLWGKLASEILMQNWDAA MEDLTRLKETIDNNSVSSPLQSLQQRTWLIHWSLFVFFNH
PKGRDNIIDLFLYQPQYLNAIQTMCPHILRYLT TAVITNKDVRKRRQVLKDLVKVIQQESYTYKDPITEFVECLY
VNFDFDGAQKKLRECESVLVNDFFLVACLED F IENARLFIFETFCRIHQ C I SINMLADKLNMTPEEAERWIVNLI
RNARLDAKIDSKLGHVVMGNNNAVSPYQQVIEKTKSL SFRSQMLAMNIEKKLNQNSRSEAPNWATQDSGFY

[illegible]

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FIGURE 2599

MASRKEGTGSTATSSSSTAGAAGKGKGKGGSGDSAVKQVQIDGLVVLKIIKHYYEEGQGTEVVQGVLLGLVVEDR
LEITNCFPPQHTEDDADFDEVQYQMEMMRSLRHVNIDHLHVGWYQSTYYGSFVTRALLDSQFSYQHAIEESVVL
IYDPIKTAQGSLSLKAYRLTPKLMEVCKEKDFSPEALKKANITFEYMFEEVPIVIKNSHLINVLMWEELEKKSABA
DKHELLSLASSNHLGKNLQLLMDRVDEMSQDIVKYNTYMRNTSKQQQKHQYQRRQQENMQRQSRGEPPLPEED
LSKLFKPPQPPARMDSLIAGQINTYCNIKEFTAQNLGKLFMAQALQEYNN

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FIGURE 2600A

AGTGAATCGGAAAGGAGGCGCCGGCTGTGGCGGCGGCGGGAGCTGCTCGGAAGCTACACCTCGCAAGGGCTCCCC
CCTTTCCCCACCCCTCCCCGACCCCTTTTCCCCTCCCCGGGCCACCCAGCCCGCCCAACTCCCAGCGGAGAGCA
AGGTTTTCTTCTGTTTTCATAGCCAGCCAGAACAATGTTCTACGCACATTTTGTTCCTCAGTAAAAGAGGGCCTCT
GGCCAAAATTTGGCTAGCGGCCCATTTGGGATAAGAAGCTAACCAGCCCATGTGTTTCGAGTGTAAATTTAGAGAG
CAGCGTGGAGAGTATCATCTCACCAAAGGTGAAAATGGCATTACGGACATCAGGACATCTCTTACTGGGAGTAGT
TCGAATCTATCACAGGAAAGCCAAATACCTTCTTGCAGACTGTAATGAAGCATTTCATTAAGATAAAGATGGCTTT
TCGGCCAGGTGTGGTTGACCTGCCTGAGGAAAATCGGGAAGCAGCTTATAATGCCATTACTTTACCTGAAGAATT
TCATGACTTTTGATCAGCCACTGCCTGACTTAGATGACATCGATGTGGCCAGCAGTTCAGCTTGAATCAGAGTAG
AGTGGAAGAGATAACCATGAGAGAAGAAGTTGGGAACATCAGTATTTTACAAGAAAATGATTTTGGTGATTTTGG
AATGGATGATCGTGAGATAATGAGAGAAGGCAGTGCTTTTGGAGATGACGACATGTTAGTAAGCACTACTACTTC
TAACCTCCTATTAGAGTCTGAACAGAGCACCAGCAATCTGAATGAGAAAATTAACCATTTAGAATATGAAGATCA
ATATAAGGATGATAATTTTGGAGAAGGAAATGATGGTGAATATTAGATGACAACTTATTAGTAATAATGATGG
CGGTATCTTTGATGATCCCCCTGCCCTCTCTGAGGCAGGGGTGATGTTGCCAGAGCAGCCTGCACATGACGATAT
GGATGAGGATGATAATGTATCAATGGGTGGGCTGATAGTCTTGATTGAGTGGATCCCGTTGAACCAATGCCAAC
CATGACTGATCAAACAACACTTGTTCCAAATGAGGAAGAAGCATTTCATTGGAGCCTATTGATATAACTGTTAA
AGAAACAAAAGCCAAGAGGAAGAGGAAGCTAATTGTTGACAGTGTCAAAGAGTTGGATAGCAAGACAATTAGAGC
CCAACCTTAGTGATTATTAGATATTGTTACTACTTTGGATCTGGCACCGCCCAAGAAATGATGATGTGGAA
AGAGACAGGAGGAGTAGAAAACTGTTTTCTTTACCTGCTCAGCCTTTGTGGAATAACAGACTACTGAAGCTCTT
TACACGCTGTCTTACACCGCTTGTAACAGAAGACCTTAGAAAAAGGAGGAAAGGAGGAGAGGCAGATAATTTGGA
TGAATTCCTCAAAGAATTTGAAAATCCAGAGGTTCTTAGAGAGGACCAGCAACAGCAGCATCAGCAGCGTGATGT
TATCGATGAGCCCATTTATTGAAGAGCCAAGCCGCTCCAGGAGTCAGTGATGGAGGCCAGCAGAAACAAACATAGA
TGAGTCAGCTATGCCCTCCACCACCACCTCAGGGAGTTAAGCGAAAAGCTGGACAAATTGACCCAGAGCCTGTGAT
GCCTCCTCAGCAGGTAGAGCAGATGGAATAACACCTGTAGAGCTTCCCCAGAAGAACCTCCAAATATCTGTCA
GCTAATACCAGAGTTAGAACTTCTGCCAGAAAAAGAGAAGGAGAAAGAGAAGGAAAAAGAAGATGATGAAGAGGA
AGAGGATGAAGATGCATCAGGGGGCGATCAAGATCAGGAAGAAAGAAGATGGAACAAAAGGACTCAGCAGATGCT
TCATGGTCTTCAGCGTGCTCTTGCTAAACTGGAGCTGAATCTATCAGTTTGCTTGAGTTATGTGAAATACGAA
CAGAAAAACAAGCTGCCGCAAAGTTCTACAGCTTCTTGGTTCTTAAAAAGCAGCAAGCTATTGAGCTGACACAGGA
AGAACCGTACAGTGACATCATCGCAACACCTGGACCAAGGTTCCATATTATATAAGGAGCTAGAAGCATTATAGC
TAGTGTTTTGATTCACTAGTGCTTACAAATTGCCCCCATGTGTAGGGGACACAGAACCCTTTGAGAAAACTTAGAT
TTTTGTCTGTACAAAGTCTTTGCCCTTTTTCTTCAATTTTTTCCAGTACATTAAATTTGTCAATTTTATCTT
TGAGGGAACTGATTAGATGGGTTGTGTTTGTGTTCTGATGGAGAAAAACAGCACCCCAAGGACTCAGAAGATGAT
TTTAACAGTTCAGAACAGATGTGTGCAATATTGGTGCATGTAATAATGTTGAGTGGCAGTCAAAGTCAATGATTT
TTATCTTAGTTCTTCACTACTGCATTGAAAAGGAAAACCTGTCTGAGAAAATGCCTGACAGTTTAATTTAAACT
ATGGTGTAAGTCTTTGACAAGAAAAAAAACAAACAAACACTTCTTTCCATCAGTAACACTGGCAATCTTCTGT
TAACCACTCTCCTTAGGGATGGTATCTGAAACAACAATGGTCACCTCTTGAGATTCTGTTTAAAGTGTAATTCCA
TAATGAGCAGAGGTGTACGCGAAATTGTGTTATGACTGATAGCCTTCAGCTACAAAAGATAGGACTGACCTGGT
TTAAAGTGTTCTATTTTGTAATCATTCCATTTGAGTCTTTCTGATGAACCTTGGCTATACTGAAATCTGTTATTT
TAGTGAGGCTCCAAAATGAGCAAAGCTAGGCCTGATTAGAGTAGAGTGAATTTAAAAACATACTTTCTAGGA
GCTATAAATCAAAGTTTTAAAAAGATGTTTGGATATATTTGAGTATTCCGATCATGAAAACAGAAATTGCCCTGC
CTACTACAAGGACAGACTGATGGGAAATTATGCACCTGGTCAACTTAGCTTTTAAAGCAGACGATGCTGTAAAAAC
TAACGGCTTCTCTGATATTTATTGTAAGTTTTAGTACTGATCTCCTTTTCCAGTGCTGCACACTCCTGGTTTTGGA
ACTTTAATAGCGTTGCAACGAAATCCTATATCCAGTTTCTGTAAATTTAATTGAAGAAAAATACATCCAAATAAA
GACTTTATTATTAACAGACCAGATAGCATCAGAAATCATGTGACTGTTATGATTATCAGAATATGCTTAACTTT
TTAGGGCAAAGTTAACTGAAAGTTCTAGCTTAAAGTGTTGAAACTTTTTGTGGGAAAAAAAATCACTTTTGAAA
CTCAGACTTCAGTGATACCCAATAATTTAAATTTATGTGAAATGTTTTAAATTTGTGAACCTCGTAATTACTGTT
TTAATGATTAGTTTCTTCAGAGTGGTAATTGTATAAAATTGCTATTGCAGCTTTATATTCAATATGATGTGCCCT
GTAAACCAAGGAGTTTTCCCCGTTTGTAAGAAAGACATTGTAGATAATTGAATGTTTGATTTTAGAAAGGTCATTA
GTTTCTTGTTACACATTTTGTAGTCTGGTTTTTGTGCTTATCGGGTTAATATTGTTCTTGAAAATAGTTGAT

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FIGURE 2600B

GCTATGTTATGTATAACTTTTCTAATAAAAGTTGTGTTATAAGCTGT

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FIGURE 2601

MFYAHFVLSKRGPLAKIWLAHWDKKLTKAHVFEKNLESSVESIISPVKMALRTSGHLLLGVVRIYHRKAKYLL
ADCNEAFIKIKMAFRPGVVDLPEENREAAYNAILPPEEFHDFDQPLPDLDIDVAQQFSLNQS RVEEITMREEVG
NISILQENDFGDFGMDDREIMREGSAFEDDDMLVSTTTSNLLLESEQSTSNLNEKINHLEYEDQYKDDNFGEGND
GGILDDKLISNNDGGIFDDPPALSEAGVMLPEQPAHDDMDEDDNVSMGGPDSPDSVDPVEPMPTMTDQTTLVPNE
EEAFALPIDITVKETKAKRKRKLIVDSVKELDSKTIRAQLSDYSDIVTTLDLAPPTKKLMMWKETGGVEKLFSL
PAQPLWNNRLLKLFTRCLTPLVPEDLRKRRKGGEADNLDEFLLKEFENPEVPREDQQQHQQRDVIDEPIIEEPSR
LQESVMEASRTNIDESAMPPPPPPQGVKRKAGQIDPEFVMPPQQVEQMEIPPVELPPEEPPNICQLIPELELLPEK
EKEKEKEKEDDEEEDEDEDASGGDQDQEERRWNKR TQQMLHGLQRALAKTGAESISLLELCRNTNRKQAAAKFYSF
LVLKKQQAIELTQEEPYSDI IATPGPRFHII

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FIGURE 2602

GGCGGCGGCGGCAGGAGCCCGGGAGGCGGAGGCGGCGGCGGCGGCGGAGACGCAGCAGCGGCAGCGG
CAGC**ATGT**TCGGCCGGCGGAGCGTCAGTCCCGCCGCCCGGAACCCCGCCGTGTCTTCCCGCCGCCCGGGTAC
CCTGCCCGCCGGCCCCGACATCCTGCGGACCTACTCGGGCGCCTTCGTCTGCCTGGAGATTCTGTTTCGGGGGTCT
TGTCTGGATTTTGGTTGCCTCCTCCAATGTTCTCTACCTCTACTACAAGGATGGGTTCATGTTTGTGTCCGTGAC
AGCGTTTTTCTTTTCGCTCCTCTTTCTGGGCATGTTTCTCTGGCATGGTGGCTCAAATTGATGCTAACTGGAA
CTTCCTGGATTTTGCCTACCATTTTACAGTATTTGTCTTCTATTTTGGAGCCTTTTTATTGGAAGCAGCAGCCAC
ATCCCTGCATGATTTGCATTGCAATACAACCATAACCGGGCAGCCACTCCTGAGTGATAACCAGTATAACATAAA
CGTAGCAGCCTCAATTTTGCCTTTATGACGACAGCTTGTTATGGTTGCAGTTTGGGTCTGGCTTTACGAAGATG
GCGACCG**TAA**CACTCCTTAGAACTGGCAGTCGTATGTTAGTTTCACTTGTCTACTTTATATGTCTGATCAATTT
GGATAACCATTTTGTCCAGATGCAAAAACATTCCAAAAGTAATGTGTTTAGTAGAGAGAGACTCTAAGCTCAAGTT
CTGGTTTATTTTCATGGATGGAATGTTAATTTTATTATGATATTAAAGAAATGGCCTTTTATTTTACATCTCTCCC
CTTTTCCCTTTCCCCCTTTATTTTCCCTCCTTTTCTTCTGAAAGTTTCTTTTATGTCCATAAAATACAAATAT
ATTGTTCAATAAAAAATTAGTATCCCTTTTGGTTTGGTGTGAGTCACCTGAACCTTAATTTTAATTGGTAATTAC
AGCCCCATAAAAAAACACATTTCAAATAGGCTTCCCACTAAACTCTATATTTTAGTGTAACCAGGAATTGGCAC
ACTTTTTTTAGAATGGGCCAGATGGTAAATATTTATGCTTCACGGTCCATACAGTCTCTGTCCAACTATTTCAGT
TCTGCTAGTATAGCGTGAAAGCAGCTATACACAATACAGAAATGAATGAGTGTGGTTATGTTCTAATAAACTTA
TTTATAAAAAACAAGGGGAGGCTGGGTTTAGCCTGTGGCCATAGTTTGTCAACCACTGGTGTAAACCTTAGTTA
TATATGATCTGCATTTTCTTGAAGTATCATTGAAACTTATAAACCTAACAGAAAAGCCACATAATATTTAGTG
TCATTATGCAATAATCACATTGCCTTTGTGTTAATAGTCAAATACTTACCTTTGGAGAATACTTACCTTTGGAGG
AATGTATAAAATTTCTCAGGCAGAGTCCTGGATATAGGAAAAAGTAATTTATGAAGTAACTTCAGTTGCTTAAT
CAAATAATGATAGTCTAACAAGTGAAGATCCTCATCTGAGAGTGCTTAAATGGGATCCCCAGAGACCATT
AACCAATACTGGAAGTGGTATCTAGCTACTGATGTCTTACTTTGAGTTTATTTATGCTTCAGAATACAGTTGTTT
GCCCTGTGCATGAATATAACCATATTTGTGTGTGGATATGTGAAGCTTTTCAAATAGAGCTCTCAGAAGAATTA
AGTTTTTACTTCTAATTATTTTGCATTACTTTGAGTTAAATTTGAATAGAGTATTAAATATAAAGTTGTAGATTC
TTATGTGTTTTTGTATTAGCCAGACATCTGTAATGTTTTTGCACCTGGTGACAGACAAAATCTGTTTTAAATCA
TATCCAGCACAAAACTATTTCTGGCTGAATAGCACAGAAAAGTATTTAACCTACCTGTAGAGATCCTCGTCAT
GGAAAGGTGCCAAACTGTTTTGAATGGAAGGACAAGTAAGAGTGAGGCCACAGTTCCCACCACACGAGGGCTTTT
GTATTGTTCTACTTTTTTCAGCCCTTTACTTTCTGGCTGAAGCATCCCCTTGGAGTGCCATGTATAAGTTGGGCTA
TTAGAGTTCATGGAACATAGAACAACCATGAATGAGTGGCATGATCCGTGCTTAATGATCAAGTGTTACTTATCT
AATAATCCTCTAGAAAAGAACCCTGTTAGATCTTGGTTTGTGATAAAAAATATAAAGACAGAAGACATGAGGAAAA
CAAAAGGTTTGAGGAAATCAGGCATATGACTTTATACTTAACATCAGATCTTTTCTATAATATCCTACTACTTTG
GTTTTCTAGCTCCATACCACACACCTAAACCTGTATTATGAATTACATATTACAAAGTCATAAATGTGCCATAT
GGATATACAGTACATTCTAGTTGGAATCGTTTACTCTGCTAGAAATTTAGGTGTGAGATTTTTTGTTCAGGTA
TAGCAGGCTTATGTTTGGTGGCATTAAATTGTTTCTTTAAATGCTTTGGTGGCACTTTTGTAAACAGATTGCT
TCTAGATTGTTACAAACCAAGCCTAAGACACATCTGTGAATACTTAGATTTGTAGCTTAATCACATTCTAGACTT
GTGAGTTGAATGACAAAGCAGTTGAACAAAATTATGGCATTTAAGAATTTAACATGTCCTTAGCTGTAAAAATGA
GAAAGTGTTGGTTGGTTTTAAATCTGGTAACTCCATGATGAAAAGAAATTTATTTTATACGTGTTATGTCTCTA
ATAAAGTATTTCATTTGATAAAAAAAAAAAAAA

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FIGURE 2603

MSAGGASVPPPPNPAVSFPPPRVTLPAAGPDILRTYSGAFVCLFGLVWILVASSNVPLPLLQGWVMFVSVTA
FFFSLLFLGMFLSGMVAQIDANWNFLDFAYHFTVFVFYFGAFLLEAAATSLHDLHCNTTITGQPLLSDNQYNINV
AASIFAFMTTACYGCSLGLALRRWRP

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FIGURE 2604

GGCGCGCTTTCAAACGCTCAGGTTTCTACCTTCCGGCTGCTTGGGAACCTCTTTCTTGCCCGCCAAGCCCGCAG
CCACCCGGGCGCGGCGGGGACTCCTAGACCCGGCGCTGCGATGAAGAGGACCCGCGACGAGGTGGATGCGACGCTG
CAGATCGCCAAGCTGAATGCGGCCGAGCTGCTGCCGGCGGTGCACTGCCTGGGCTTCGGCCCTGGGGCCAGCGGC
GCTGCAGCCGGCGACTTCTGCCTGCTGGAGCTGGAGCCCACGCTGTGCCAGCAGCTGGAGGATGGACACAGTCTT
GTGATTCGTGGTGATAAAGACGAGCAAGCTGTGCTGTGCAGTAAAGACAAAACATACGACTTGAAGATAGCAGAC
ACTTCCAATATGTTGCTTTTCATTCTGGTTGTAAACTCCGGACCAGTTGAAGAAGGAAGATTACACTGTAAC
ATTATTCACACTGAGATCTTTGGTTTTTCTAATAATTATTGGGAATTAAGAAGACGTAGACCCAAGTTAAAGAAG
CTAAAGAACTTTTGATGGAATCCATATGAAGGACCTGACAGTCAAAAAGAGAAGGATTCAAATAGCTCAAAA
TATACAACCTGAAGATTGCTTGATCAAATTCAGGCAAGTGAGGAAGAAATAATGACCCAATTACAAGTTCTAAAT
GCCTGTAAGATTGGAGGTTATTGGAGGATTCTTGAATTTGATTATGAGATGAAACTTCTGAATCATGTAACCTCAG
CTTGTTGGATTCTGAATCATGTTCTTTTGGTAAAGTTCTTTGAACACATGCCTTCAGGAACCTCGGACCATTGGAG
CCAGAGGAAATGATAGAACACTGTCTTAAATGTTATGGGAAGAAATATGTAGATGAAGXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXAGCAGCAGCACGAATGCTACTTCAGAATGCGGTGAAATTCAATCTCGCTGAG
TTTCAAGAAGTGTTGGCAGCAGAGTGTTCTGAAGGAATGGTAACTAGTCTTGATCAGCTTAAAGGGTTTAGCGCTG
GTGGATAGACACTCGAGACCAGAAATCATATTTTTGCTGAAAGTAGATGATTTACCTGAGGATAATCAGGAACGT
TTTAATAGCCTTTTCTCTCTAAGGGAGAAGTGACAGAGAAGATATTGCTCCATATATTCAAGATTTGTGTGGA
GAGAAGCAAACCATAGGTGCATTACTACTAAATATTCTCATTCTTCGATGCAAAATGGTGTTAAAGTTTATAAT
TCGAGAAGACCCATTTCTTAAAGAACAACGGTCTTTTCTTCAGGACTCAAGTTGCTTTATAAGTTGCTGGATA
GAAGAAAAATAACTTGTACTTTTTATTICTGACTTTTAGAAACCTAGTCTTCTAAGGCATTTTTCTCCTCATCTTA
AGCATTTTGAAGTACTGTTATTTCTTAAATGTTATAGGATGTAGCTTTAAATTTATATTGTACTATGTACACA
GTGTAAACAAGGACAAAAGAATTCTTTCCTATATTATGTCTGAGGTCTCTATGATTTATTTAAAGTTTGGCTTTT
TATATTTAAATGTCATTTCTTTACTTAGGATTTGATGTTCTAATCATTAACTAAGTTTCCAGAGAACT
AAATAGTAATAGTTTCATAGAAGAGAACTATTTACTTAAATATCATTCTCAAGTGAGTGAGTTCCCTCT
ACTTTTAGCCTTCCACCCAACTGGAAGCCTCTAGGTGCTATCAATTATTTATATCCATCGTTTACATCCATGAA
ATTGGCTGAATAATTACTCCTCTGCCTGGCGTAGACATGCGCTTTGGGAAAAAACGAGTTTATAATCCTATAAT
GAAGAATACTGGCACAGGCAATGCTCACTCGAAACTTCAAGTAATTTCTAGTTGGTTTTGGAATGCTTGATAAA
GTTCTTTTACAGCTTTATTTTCTGATTTGTTTTGGTTTAGATCAAAGTTCAAATTAATTTTAACTTAGCTAATG
AACTCATCACCAGGACAGTTGGAGGGGGTAGGCCGAGGTTAAATGGTCCACGTTTCAAAAATGTTAATGGCTAAT
CCATAATTAAAGAAGGTTTAACTGTTACTGAAGTTTACAAGTTTATTTGTCATGAACATGAAATACAAACACGAT
GGCTTCGAAATGCTTTCAATAAATGTTTCTGCATTT

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FIGURE 2605

ACGCCCTATACAACTTGGCTTCACATACTTTTACACTAACTTTATATGATTTTTTAAAACTGGTCTGATCGGACT
TCTCGTCTTGGGACACTGTTTACTGGAGTCTGGCCGGCTCTCCGTGCTCCTCTTGGTACCTCATTTTGGGGAGAA
CCTTAAACCCACTCGAGCAGATAATCTCCGCCTTGACCGGTGCCACCAAAGAAGCCTTGGAACCATGTGGACTTT
TCTGGGCATTGCCACTTTCACCTATTTTTATAAGAAGTTCGGGGACTTCATCACTTTGGCCAACAGGGAGGTCTCT
GTTGTGCGTGCTGGTGTTCCTCTCGCTGGGCCTGGTGCTCTCTACCGCTGTCGCCACCGAAACGGGGGTCTCCT
CGGGCGCCAGCAGAGCGGCTCCCAGTTCGCCCTCTTCTCGGATATTCTCTCAGGCCTGCCTTTCATTGGCTTCTT
CTGGGCCAAATCCCCCCTGAATCAGAAAATAAGGAGCAGCTCGAGGCCAGGAGGCGCAGAAAAGGAACCAATAT
TTCAGAAACAAGCTTAATAGGAACAGCTGCCTGTACATCAACATCTTCTCAGAATGACCCAGAAGTTATCATCGT
GGGAGCTGGCGTGCTTGGCTCTGCTTTGGCAGCTGTGCTTTCCAGAGATGGAAGAAAGGTGACAGTCATTGAGAG
AGACTTAAAAGAGCCTGACAGAATAGTTGGAGAATTCTGTCAGCCGGGTGGTTATCATGTTCTCAAAGACCTTGG
TCTTGGAGATACAGTGAAGGTCTTGATGCCCAGGTTGTAAATGGTTACATGATTATCATGATCAGGAAAGCAAATC
AGAGGTTTCAAGTTCCTTACCCTCTGTCAGAAAACAATCAAGTGCAGAGTGAAGAGCTTTCCATCACGGAAGATT
CATCATGAGTCTCCGGAAGCAGCTATGGCAGAGCCCAATGCAAAGTTTATTGAAGGTGTTGTGTACAGTTATT
AGAGGAAGATGATGTTGTGATGGGAGTTTCACTACAAGGATAAAGAGACTGGAGATATCAAGGAACCTCATGCTC
CACTGACTGTTGTTGCAGATGGGCTTTTCTCCAAGTTCAGGAAAAGCCTGGTCTCCAATAAAGTTTCTGTATCAT
CTCATTTTGTGGCTTTCTTATGAAGAATGCACCACAGTTTAAAGCAAATCATGCTGAACCTATTTTAGCTAACCC
CGAGTCCAGTTCTCATCTACCAGATTTTATCCAGTGAAACTCGAGTACTTGTGACATTAGAGGAGAAATGCCAA
GGAATTTAAGAGAATACATGGTTGAAAAAATTTACCCACAAATACCTGATCACCTGAAAGAACCATTCTTAGAAG
CCACTGACAATTCTCATCTGAGGTCCATGCCAGCAAGCTTCCTTCTCCTTCATCAGTGAAGAAACGAGGTGTTT
TTCTTTTGGGAGACGCATATAATATGAGGCATCCACTTACTGGTGGAGGAATGACTGTTGCTTTTAAAGATATAA
AACTATGGAGAAAACCTGCTAAAGGGTATCCCTGACCTTTATGATGATGCAGCTATTTTTCGAGGCCAAAAATCAT
TTTACTGGGCAAGAAAAACATCTCATTCCTTTGTCGTGAATATCCTTGCTCAGGCTCTTTATGAATTATTTTCTG
CCACAGATGATTCCCTGCATCAACTAAGAAAAGCCTGTTTTCTTTATTTCAAACCTTGGTGGCGAATGTGTTGCGG
GTCCIGTTGGGCTGCTTTCTGTATTGTCTCCTAACCCCTCTAGTTTTAATTGGACACTTCTTTGCTGTTGCAATCT
ATGCCGTGTATTTTGTCTTTAAGTCAGAACCTTGGATTACAAAACCTCGAGCCCTTCTCAGTAGTGGTGTGTAT
TGTACAAAGCGTGTTCTGTAATATTTCTCTAATTTACTCAGAAATGAAGTATATGGTTTCATTAAGCTTAAAGGG
GAACCATTTGTGAATGAATATTTGGAACCTTACCAAGTCCTAAGAGACTTTTGGAGAGGATATATATAGCATAGT
ACCATACCACTTATAAAGTGGAACTCTTGGACCAAGATTTGGATTAAATTTGTTTTTGAAGTTTTTTGTATATAA
ATATGTAAATACATGCTTTAATTTGCAATTTAAATGAAGGGGTTAAATAAGTTAGACATTTAAAAGAAATGATT
GTTACCATAAATTAGTGCTAATGCTGAGGAGAACTACAGTTTTTCTTTTGAATTTAGTATTTGAGATGAGTTGTT
GGGACATGCAAATAAAATGAAGAATGA

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FIGURE 2606

GGCAGAGCCCCGCTCAGTCACCCGCAGCAGGCGTGCAAGTTTCCCGGCTCTCCGCGCGGCCGGGGGAAGGTCAGCGC
CGTAATGGCGTTCTTGCGTCGGGACCCTACCTGACCCATCAGCAAAAGGTGTTGCGGCTTTATAAGCGGGCGCT
ACGCCACCTCGAGTCGTGGTGCCTCCAGAGAGACAAATACCGATACTTTGCTTGTTTGATGAGAGCCCCGTTTGA
AGAACATAAGAATGAAAAGGATATGGCGAAGGCCACCCAGCTGCTGAAGGAGGCCGAGGAAGAATTCTGGTACCG
TCAGCATCCACAGCCATACATCTTCCCTGACTCTCCTGGGGGCACCTCCTATGAGAGATACGATTGCTACAAGGT
CCCAGAATGGTGCTTAGATGACTGGCATCCTTCTGAGAAGGCAATGTATCCTGATTACTTTGCCAAGAGAGAACA
GTGGAAGAACTGCGGAGGGGAAAGCTGGGAACGAGAGGTTAAGCAGCTGCAGGAGGAAACGCCACCTGGTGGTCC
TTTAACTGAAGCTTTGCCCCCTGCCGAAAGGAAGGTGATTGCCCCCACTGTGGTGGTATATTGTGACCAGACC
CCGGGAGCGGCCCATGTAGAAAGAGAGAGACCTCATCTTTCATGCTTGCAAGTGAAATATGTTACAGAACATGCA
CTTGCCCTAATAAAAAATCAGTGAAATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2607

MAFLASGPYLTHQQKVLRLYKRALRHLESWCVQRDKYRYFACLMRARFEEHKNEKDMAKATQLLKEAEEEFWYRQ
HPQPYIFPDSPGGTSYERYDCYKVP EWCLDDWHPSEKAMYPDYFAKREQWKKLRRESWEREVKQLQEETPPGGPL
TEALPPARKEGDLPLWWYIVTRPRERPM

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FIGURE 2608

CTGCTCGCGGCCGCCACCGCCGGGCCCCGGCCGTCCTGGCTCCCCTCCTGCCTCGAGAAGGGCAGGGCTTCTCA
GAGGCTTGGCGGGAAGAAACGAGAGGGAGGGATCGCGCTGAGTATAAAAGCCGGTTTTTCGGGGCTTTATCTAAC
TCGCTGTAGTAATTCCAGCGAGAGGCAGAGGGAGCGAGCGGGCGGCCGGCTAGGGGTGGAAGAGCCGGGCGAGCAG
AGCTGCGCTGCGGGCGTCTCTGGGAAGGGAGATCCGGAGCGAATAGGGGGCTTCGCCTCTGGCCCAGCCCTCCCGC
TGATCCCCCAGCCAGCGGTCCGCAACCCCTTGCCGCATCCACGAACTTTGCCCATAGCAGCGGGCGGGCACTTTG
CACTGGAAC TTACAACACCCGAGCAAGGACGCGACTCTCCCGACGCGGGGAGGCTATTCTGCCCATTTGGGGACA
CTTCCCGCGCGTGCAGGACCCGCTTCTCTGAAAGGCTCTCCTTGAGCTGCTTAGACGCTGGATTTTTTTTCGG
GTAGTGGAAGAACAGCAGCCTCCCGCGACGATGCCCCCTCAACGTTAGCTTCACCAACAGGAACTATGACCTCGAC
TACGACTCGGTGCAGCCGTATTTCTACTGCGACGAGGAGGAGAACTTCTACCAGCAGCAGCAGCAGAGCGAGCTG
CAGCCCCCGGCGCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCCACCCCGCCCCTGTCCCCTAGCCGC
CGCTCCGGGCTCTGCTCGCCCTCCTACGTTGCGGTACACCCCTTCTCCCTTCGGGGAGACAACGACGGCGGTGGC
GGGAGCTTCTCCACGGCCGACCAGCTGGAGATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACCAGAGTTTC
ATCTGCGACCCGGACGACGAGACCTTCATCAAAAACATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCGGCC
GCCGCCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCAAAGACAGCGGCAGCCCGAACCCCGCC
CGCGGCCACAGCGTCTGCTCCACCTCCAGCTTGTTACCTGCAGGATCTGAGCGCCGCGCCTCAGAGTGCATCGAC
CCCTCGGTGGTCTTCCCCTACCCTCTCAACGACAGCAGCTCGCCCAAGTCCTGCGCCTCGCAAGACTCCAGCGCC
TTCTCTCCGTCTCGATTCTCTGCTCTCCTCGACGGAGTCTCCCCGCAGGGCAGCCCCGAGCCCCTGGTGCTC
CATGAGGAGACACCGCCACCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTTGTT
TCTGTGGAAGAGAGGCAGGCTCCTGGCAAAAGGTGAGAGTCTGGATCACCTTCTGCTGGAGGCCACAGCAAACCT
CCTCACAGCCCCTGGTCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACCTACGCAGCGCCTCCCTCCACT
CGGAAGGACTATCCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAGATCAGCAACAACCGA
AAATGCACCAGCCCCAGGTCTCGGACACCGAGGAGAATGTCAAGAGGCGAACACACAACGTCTTGGAGCGCCAG
AGGAGGAACGAGCTAAAACGGAGCTTTTTTGCCCTGCGTGACCAGATCCCGGAGTTGGAAAACAATGAAAAGGCC
CCCAAGGTAGTTATCCTTAAAAAAGCCACAGCATAACATCCTGTCCGTCCAAGCAGAGGAGCAAAAGCTCATTCT
GAAGAGGACTTGTTGCGGAAACGACGAGAACAGTTGAAACACAACTTGAACAGCTACGGAACCTTGTGCGTAA
GGAAAAGTAAGGAAAACGATTCTTCTAACAGAAATGTCCTGAGCAATCACCTATGAACTTGTTCAAATGCATG
ATCAAATGCAACCTCACAACCTTGGCTGAGTCTTGAGACTGAAAGATTTAGCCATAATGTAACTGCCTCAAATT
GGACTTTGGGCATAAAGAAGCTTTTTTATGCTTACCATCTTTTTTTTTTTCTTTAACAGATTTGTATTTAAGAATT
GTTTTTAAAAAATTTTAA

GCTAATTCATTTTGACACACCTGTTAGCAAGAAACAGAAGTTTGAAGGACTGGAACAAGTGAACCTAGGAAAGAGGGGAA
CGCCAATCCAAGGATAGAAGGACAAGGACAGAATCACCAGCACTGGCTGAAGGTACCTTAACATGGGGAATCTTCT
TTAAAGTTTTGACATGCACAGACCTTGAGCAGGGGGCCAAATTTTTTTCCTTGATTTTTGAAAATGCCAGCCTACAG
AGTCTGAGAAGGAAATTTATAATCAGGTGAATGTAGTATTAAAAAGATGCAGAAGGCATCTTGGAGGACTTGCAGT
CATACAGAGGAGCTGGCCACGAAATACGAGAGGCAATCCAGCATCCAGCAGATGAGAAGTTGCAAGAGAAGGCAT
GGGGTGCAAGTTGTTCCACTAGTAGGCAAATTTAAAGAAATTTTACGAATTTTCTCAGAGGTTAGAAGCAGCATTAA
GAGGTCTTCTGGGAGCCTTAACAAGTACCCCATATTCTCCCACCCAGCATCTAGAGCGAGAGCAGGCTCTTGCTA
AACAGTTTGAGAAATTTCTTCATTTTACACTCCGGTTTGATGAACTCAAGATGACAAATCCTGCCATACAGAATG
ATTTACAGCTATTATAGAAGAACATTGAGTCGTATGAGGATTAACAATGTACCGGCAGAAGGAGAAAATGAAGTAA
ATAATGAATTGGCAAATCGAATGTCTTTGTTTTATGCTGAGGCAACTCCAATGCTGAAAACCTTGAGTGATGCCA
CAACAAAATTTGTATCAGAGAATAAAAAATTTACCAATAGAAAAATACCACAGATTGTTTAAGCACAAATGGCTAGTG
TATGCAGAGTCATGCTGGAAACACCGGAATACAGAAAGCAGATTTACAAATGAAGAGACAGTGTCATTCTGCTTGA
GGGTAAATGGTGGGTGTCATAATACTCTATGACCACGTACATCCAGTGGGAGCATTGCTAAAACCTTCCAAAATTG
ATATGAAAGGTTGTATCAAAGTTCTTAAAGGACCAACCTCCTAATAGTGTGGAAGGCTTCTTAAATGCTCTCAGGT
ACACAACAAAACATTTGAATGATGAGACTACCTCCAAGCAAATTTAAATCCATGCTGCAATTAACAATTCTGGAATA
AGCACCTGCTGTAGACAGAAGACAGTATTCTGCAATGACTGAGAATGCAGTTTTTTTAGTGATTGCAATTACTATC
TCATTTATTCTTGCTTTTTATTTCTTTTCTCTGTTCTTCTTCCCTCTTTTTTTAATCATGTTCTTAAAGACTTCTTTT
CTGTGCCAAAATCAGTAAAGTTACACTCTGAAGGGATATCATCCTTTCAAACGGGCCATCTAAGGCAGCTAATTA
TGCATTGCATTGGGGTCTCTACTGAGAAAAAATTCTGTGACTTGAACATAAATATTTTTTAAATGTGGATTTTTTTTT
AAACTAATATTTAATATTGCTTCTCCTGCATGGCAAAACTGCCTATTCTGCTATTTAAAAACCCTCAATGACTTT
ATTTTCTACTGCCGCCTTTTTTCATGTGCAACCAAAATGAAAATGTTTAAATTAAGTGTGTTGTACAAATGGTACC
CAACACAAACTTTTTTTTAAATTAGTAATACTTTTGTTTAAAGTTTTTAAAGTTTGCATTTTGACTTTTTTTTGTAAAG
ATGTATGTTGTGTGTTTAACTTTTATTAATAACGTTAAAGCTGTGATGTGTGCGTAGAATATTACGTATGCAT
GTTTCATGTCTAAAGAATGGCTGTTGATGATAAAAATAAAAAATCAGCTTTTCATTTTTCT

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FIGURE 2610

MGNLLKVLTC TDLEQGP NFFLD FENAQPT ESEKEIYNQVNVVLKDAEGILEDLQSYRGAGHEIREAIQHPADEKL
QEKAWGAVVPLVGKLKKFYEF SQRLEAALRGLLGALTSTPYSPTQHLEREQALAKQFAEILHFTLRFDELKMTNP
AIQNDFSYYRRTL SRMRINNVP AEGENEVNNELANRMSLFYAEATPMLKTLS DATTKFVSENKNLP IENTTDCLS
TMASVCRVMLETPEYRSRFTNEETVSFCLRV MVGVII LYDHVHPVGAF AKTSKIDMKGC IKVLKDQPPNSVEGLL
NALRYTTKHLNDETT SKQIKSMLQ

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FIGURE 2611

CTAATTCCTAGATTAGACGTTGGTAGGGAGGCCGATAAGTCAAAGTGGCAAGTGTCAGTGTACACCAAAGGGA
GCGACCAGAACAGAGTAAAGCCCATAAACCGAGTAAAAACAAACAACACCACAGTCCCTCAAAGCTGTAGGCCAC
GTAGTATGAGGGAAACAGCACCACCGCTGGGGCAGTGTGTCATCAGAAGAGCATTAGGAAGAGGTCCGTATCTTG
CAGTTTATGTTGAAGTTTCTGGTAAAGATGGTCAGAAGCGGGAACCTGACACTTCAAAGTGGAAAGCTTCAGTTAC
CTGGGCGCCCAAGGGGAGGTGTTCTCCCCAGTGATGCCGGGCAAATGAACCAACAGCTGGATCATACTTCTCATT
TGACATGCITTTTTGGGGGACCTACGTGGGGTTTCAGCACTGCGCCGGGCCACAGATTTGCAGGGCCAATGAGGATG
TGGTCCCTGCCCGGAGCCTGATGCTCTAAGTGCTGAGGGTGGAGGGCTTCCCGGAGGAGGTGTTCTCTGAGGAG
AGTGCAATGTGGCTGGGTGTGAGCTCTGAGCACAGAAGTCACTTGGGGATCATAGCAGTTTTGTTTGTGAGGGACA
GTGTG

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FIGURE 2612

GCTCCGGGCCAGCCGCGGTCCAGAGCGCGGAGGTTTCGGGGAGCTCGGCCAGGCTGCTGGTACCTGCGTCCGCCC
GGCGAGCAGGACAGGCTGCTTTGGTTTGTGACCTCCAGGCAGGACGGCCATCCTCTCCAGAATGAAGATCTTCTT
GCCAGTGCTGCTGGCTGCCCTTCTGGGTGTGGAGCGAGCCAGCTCGCTGATGTGCTTCTCCTGCTTGAACCAGAA
GAGCAATCTGTACTGCCTGAAGCCGACCATCTGCTCCGACCAGGACAACACTACTGCGTGACTGTGTCTGCTAGTGC
CGGCATTGGGAATCTCGTGACATTTGGCCACAGCCTGAGCAAGACCTGTTCCCCGGCCTGCCCCATCCCAGAAGG
CGTCAATGTTGGTGTGGCTTCCATGGGCATCAGCTGCTGCCAGAGCTTTCTGTGCAATTCAGTGCGGCCGATGG
CGGGCTGCGGGCAAGCGTCACCTGCTGGGTGCCGGGCTGCTGCTGAGCCTGCTGCCGGCCCTGCTGCGGTTTGG
CCCCTGACCGCCCAGACCCTGTCCCCCGATCCCCCAGCTCAGGAAGGAAAGCCCAGCCCTTTCTGGATCCCACAG
TGTATGGGAGCCCCTGACTCCTCACGTGCCTGATCTGTGCCCTTGGTCCCAGGTCAGGCCCACCCCTGCACCTC
CACCTGCCCCAGCCCCTGCCTCTGCCCCAAGTGGGGCCAGCTGCCCTCACTTCTGGGGTGGATGATGTGACCTTC
CTTGGGGGACCGCGGAAGGGACGAGGGTTCCCTGGAGTCTTACGGTCCAACATCAGGACCAAGTCCCATGGACAT
GCTGACAGGGTCCCCAGGGAGACCGTGTGAGTAGGGATGTGTGCCTGGCTGTGTACGTGGGTGTGAGTGCACGT
GAGAGCACGTGGCGGCTTCTGGGGGCCATGTTTGGGGAGGGAGGTGTGCCAGCAGCCTGGAGAGCCTCAGTCCCT
GTAGCCCCCTGCCCTGGCACAGCTGCATGCACTTCAAGGGCAGCCTTTGGGGGTTGGGGTTTCTGCCACTTCCGG
GTCTAGGCCCTGCCCCAAATCCAGCCAGTCCTGCCCCAGCCCACCCCAACATTGGAGCCCTCCTGCTGCTTTGGT
GCCTCAAATAAATACAGATGTCCCC

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FIGURE 2613

TGTTGAGAGGCTGGCCTGCGGTGATGTGGCCAAAGAGGAAGAGCTGGGCTGGGGTGAGTGTTGGTCACATGGTTG
AAACTAGGTGGGGAGGGGAGTGGTCCAGGGGAGAGTCCAGGCCAGCTCTGCTGGGACTTGCCATGGGGGTACG
ACTCATCTGCAGGGAAGGTCTGGGCTTTATCTCTGAGCACCTCTGTGTGCTGCTCACCTGAAGTGGGGGTGGGC
CTGTGCCTGGCCTGTCCCTCATCTGGGAGCTCCCAATGCCATCTGCAAGGCTGTGGACCCCTCAGGAGTGGC
CTGGAGCCTGGCTCCCATGGCACATGGTGGCTGTGTGTGTGGAGAGGGTTGATAGTGGAGTGGTCAGGCCCAGG
CTGCCCTGGGGGATGAAGTGCCATCCTCTGGGTGCCCTGGAGAAAAGAAGAGAACTCAGTGAGCCCTGTCTGGTAC
TTTCCTGGAGGAGGGCTCCCATGCTGGCCCTCCACCCCTCTGTCCCTGTACCCCTGAGGCCTCTGGATTTCCTC
TCTGCCCTTCCCAACCTGCCAACTTCACGGGTTTCTGGCTGGGTTCTGGGGATGGCCCTAGGGGAGACGGGCCA
GGCACAAGCGGGGCTGTGTCAAGGTGGGTATGCAGGGGTAGCACAAAGTGTGCAGAGCCTGGGGAGGCATGGGCAA
AGCATGGCAGGCGGCGGGGAGGGGATCTTGGAAGGTACGGGCTGGGGAGCAGTGTGGGCAGCGGCCAGAGGT
GGGAAGGCCGTAGCTTAGCTGGGTGTCCCTTTCTGTCTCTGCAGGTGGAGCCCCCTGAGCTGCCCGCTGATCT
GCAGCACTGGATCTCCTACAACGAGGCCAGCAGCCAGCTGCTCCGCATGGAGAGTGGGCTCAGTGATGTCACCAA
GGACCAGTGACCGCCACCTTCACACCGTCTGCCCTGGCCACCATCCTGGGCCTGGGGGCTGCCACAGATGGGCA
GTCTCAGCCATACTCTGTTCCAGCTGGAGTAGCCTCTGACCAGCCTGGCCACCCCTGCTCCACCCACTGGGGCC
CCCCAGTTATTGATACCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAGGAGGAGTGGCATTGGCATCCTGACCCA
GCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCCTGGCCCTACGATGAGGCCACTCATGTGGG
CCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCCTCCCGAGCCTAGATCCTGGCTCGGACC
ACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCCTGGGTACAGGCCTGGGCTCTCCAGGGCCTGGGCCTGAT
TCAGGTGCAGTGGGCACTCCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCCTCTGGCTTCCGCTGAGGTGGT
TGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGGCCGGGGCTAGAGGCAGATGGAAGGGAGGCATTTGCTGACAG
AGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCTCCTCCTCCTCTACCTCCAGTCAGGCTGGAC
GGGAGGGTAGCCTTGTGGCTGAGAGGGGTGAGACTAGGTGGCACAGGGGCTCCTGGAAAGACAGCAGGCTTCCTG
CTGGGCGTTCCCTTGTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTCCTTGTCCACTCGCACCCCT
CGCCGCCCACAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCCTTCTGGGCCTACAGCACCAAGGCCGC
TGTACCCCTTAGAGCTGCCCCCTCTCTGGCCTGGCCGGCAGGCGTCTTCTTAACCTCTTGTCTCTATATTCAG
CATGTTCTTGTGAGCTGCTGGGCCGGCCCTGCCTTGCCTAGCAGAGCCTCTCCTGGCAGCTTCTCAGGTCTCC
CTAATGGAGACACCAGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGGTGCCCCATCTAGCTGGGT
GCAGGGGTCACTGCTTGTGAGCTCAGGGCCCTGTGCCCGCTTGCTGTTCCCTACATCTGTGCCTGCACATCCA
GAACTGCCTCCTTGCCGCTGCCTCCAGGAAGCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCCGATAGA
ACACGCCCGCCCTCACTGCTGTTCTTGCTTACAGCCACCATGGGAAAGCTGCAACCTTTCTGTTTTATTAAAG
AAAGCCCAACATTAAAGGGTTTTTCATTGC

2836/6881
FIGURE 2614

GGGCACCGTAACCAGCGCCGCGGACACCGGCACCGGCGCCACGGACTCCGCAGGACCCCGCGCCCGCCGCCGCG
CT**ATG**CTGGGGCTGCTGGTGGCGTTGCTGGCCCTGGGGCTCGCTGTCTTTGCGCTGCTGGACGTCTGGTACCTGG
TGC GCCTTCCGTGCGCCGTGCTGCGCGCGCGCTGCTGCAGCCGCGCGTCCGTGACCTGCTAGCTGAGCAGCGCT
TCCCGGGCCGCGTGTGCCCCTCGGACTTGGACCTGCTGTTGCACATGAACAACGCGCGCTACCTGCGCGAGGCCG
ACTTTGCGCGCGTTCGCGCACCTGACCCGCTGCGGGGTGCTCGGGGCGCTGAGGGAGTTGCGGGCGCACACGGTGC
TGGCGGCCCTCGTGC GCGCGCCACCGCCGCTCGCTGCGCCTGCTGGAGCCCTTCGAGGTGCGCACCCGCCTGCTGG
GCTGGGACGACCGCGCGTTCTACCTGGAGGCGCGCTTTGTGAGCCTGCGGGACGGTTTCGTGTGCGCGCTGCTGC
GCTTCCGGCAGCACCTGCTGGGCACCTCACCCGAGCGCGTCTGTGAGCACCTGTGCCAGCGCAGGGTGGAGCCCC
CTGAGCTGCCCGCTGATCTGCAGCACTGGATCTCCTACAACGAGGCCAGCAGCCAGCTGCTCCGCATGGAGAGTG
GGCTCAGTGATGTACCAAGGACCAG**TGAC**CGCCACCTTCACACCGTCTGCCCTGGCCACCATCCTGGGCCTGGG
GGCTGCCCACAGATGGGCAGTCTCAGCCATACTCTGTTCCAGCTGGAGTAGCCTCCTGACCAGCCTGGCCCACCC
TGCTCCACCCACTGGGCCCCCCCCAGTTATTGATACCCCCTCTGTGCTGGGCTCCACGCTAGGCAGAAGGAGGAGTG
GCATTGGCATCCTGACCCAGCTCTGCCCTCAAGGTGGGGATGGATGGGCAAAGGAGAGTCTGCTGGCCCTACG
ATGAGGCCACTCATGTGGGCCTAGGTAGGGGAGGATGGTGCCTGGAGCAGAGGGACCCACAAGTGCCTCCCGAGC
CTAGATCCTGGCTCGGACCACTGCAAGGGCCGAGGCAGGGCCAGACCAGAGCATCCTGGGTACAGGCCTGGGCTC
TCCAGGGCCTGGGCCTGATTAGGTGCAGTGGGCACTCCTGAAGGGTCAGAGCGGCATCTGCCAGGCAGCCCCCTC
TGGCTTCCGCTGAGGTGGTTGCAGGCCTGGGGCAGAGCCTGGGTGGTCAGAGGCCGGGGCTAGAGGCAGATGGAA
GGGAGGCATTTGCTGACAGAGGACGGGGCACCCGGGCTCCCCACTGCAGTCGGCCTTGCTCCTCCTCCTCCTCT
ACCTCCAGTCAGGCTGGACGGGAGGGTAGCCTTGTGGCTGAGAGGGGTCAGACTAGGTGGCACAGGGGGCTCCTGG
AAAGACAGCAGGCTTCCTGCTGGGCGTTCCCTTGTGGAGGGAATAGAGTGGGGGTGGGACTCTGCAGGGGTGTC
CTTGTCCACTCGCACCCCTCGCCGCCACCAGGGCCATGCTCTGTGACTTGGGCTGATCCCCACCCCTTTCTGGGC
CTACAGCACACAGGCCGCTGTACCCCTTAGAGCTGCCCCCTCTCTGGCCTGGCCGGCAGGCGTCTTCTTAATC
CTCTGTCTCTATATTCAGCATGTTCTTGTGAGCTGCTGGGCCGGCCCTGCCTTGCCTAGCAGAGCCTCTCCT
GGCAGCTTCTCAGGTCTCCCTAATGGAGACACCAGGCTACTAGGACACTGGCTGGGGCCACCCCTCCTGCCTAA
TGCCTCACCTTACAGCTGGGGAAACTGAGGCCTGGAATGGCCCAGAGTCACCAAGGCAAAGTTGGGGCTGGTCCC
AGCCTGAGGCTCCAGCTGATGCCCTCAGCTCCCAGAGAGGGGGTGCCCCATCTAGCTGGGTGCAGGGGTCACTGC
TTGTGAGCTCAGGGCCCTGTGCCCGCTTGCTGTTCCCTACATCTGTGCCTGCACATCCAGAACTGCCTCCTTG
CCGCTGCCTCCAGGAAGCCACCTTGAGCCAGAGTCAAGGGCTGCAGCACTGCCGATAGAACACGCCCCGCTC
ACTGCTGTTCTTGCTTACAGCCACCATGGGAAAGCTGCAACCTTCTGTTTTATTAAAGAAAGCCCAACATTA
AAGGGTTTTTCATTGCAAAAAAAAAAAAAAAAAA

2837/6881
FIGURE 2615

MLGLLVALLALGLAVFALLDVWYLVRLPCAVLRARLLQPRVRDLLAEQRFPGRVLP
SDLDLLLHMNNARYLREAD
FARVAHLTRCGVLGALRELRAHTVLAASCARHRRSLRLLEPFVTRLLGWDDRAFYLEARFVSLRDGFVCALLR
FRQHLLGTSPERVVQHLCQRRVEPPELPADLQHWISYNEASSQLLRMESGLSDVTKDQ

2838/6881
FIGURE 2616

CTTTCCCGGAGGCTGGCAGATGCGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGCTGCTCGGGGAGGT
CCCCCGCCGCGCGGCTCCCGGGGTGTCCCGGGCTCGCGCAGGACGCAGAAGGGCAGTGGAGCCAGGTGGGAGAA
GGAGAAGCACGAAGACGGGGTGAACTGGAGACAGCTGGAGCACAAGGGCCCCGTACTTCGCACCCCCATACGAGCC
CCTTCCCGACGGAGTGCCTTTCTTCTATGAAGGAAGGCCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCGCCAC
TTTTTATGGGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAACTTCTTCAATGACTGGCG
AAAGGAAATGGCGGTGGAAGAGAGGGGAAGTCATCAAGAGCCTGGACAAGTGTGACTTCACGGAGATCCACAGATA
CTTTGTGGACAAGGCCGAGCCCGGAAAGTCCTGAGCAGGGAGGAGAAGCAGAAGCTAAAAGAAGAGGCAGAAAA
ACTTCAGCAAGAGTTTCGGCTACTGTATTTTAGATGGTCACCAAGAAAAAATAGGCAACTTCAAGATTGAGCCGCC
TGGCTTGTTCCGTGGCCGTGGCGACCATCCCAAGATGGGGATGCTGAAGAGAAGGATCACGCCAGAGGATGTGGT
TATCAACTGCAGCAGGGACTCGAAGATCCCCGAGCCGCCGGCGGGGCACCACTGGAAGGAGGTGCGCTCCGATAA
CACCGTCACGTGGCTGGCAGCTTGGACCGAGAGCGTTGAACTCCATCAAGTACATCATGCTGAACCCCTTGCTC
GAAGCTGAAGGGGGAGACAGCTTGGCAGAAGTTTGAAACAGCTCGACGCCTGCGGGGATTTGTGGACGAGATCCG
CTCCAGTACCGGGCTGACTGGAAGTCTCGGGAAATGAAGACGAGACAGCGGGCGGTGGCCCTGTATTTTCATCGA
TAAGCTGGCACTGAGAGCAGGAAATGAGAAGGAGGACGGTGAGGCGGCCGACACCGTGGGCTGCTGTTCCCTCCG
CGTGGAGCACGTCCAGCTGCACCCGGAGGCCGATGGCTGCCAACACGTGGTGGAAATTTGACTTCCTGGGGAAGGA
CTGCATCCGCTACTACAACAGAGTGCCGGTGGAGAAGCCGGTGTACAAGAACTTACAGCTCTTTATGGAGAACAA
GGACCCCGGGACGACCTCTTCGACAGGCTGACCACGACCAGCCTGAACAAGCACCTCCAGGAGCTGATGGACGG
GCTGACGGCCAAGGTGTTCCGGACCTACAACGCCTCCATCACTCTGCAGGAGCAGCTGCGGGCCCTGACGCGCGC
CGAGGACAGCATAGCAGCTAAGATCTTATCCTACAACCGAGCCAACCGAGTCTGGCCATTCTCTGCAACCATCA
GCGAGCAACCCCCAGTACGTTGAGAAGTCGATGCAGAATCTCCAGACGAAGATCCAGGCAAAGAAGGAGCAGGT
GGCTGAGGCCAGGGCAGAGCTGAGGAGGGCGAGGGCTGAGCACAAAGCCCAAGGGGATGGCAAGTCCAGGAGTGT
CCTGGAGAAGAAGAGGCGGCTCCTGGAGAAGCTGCAGGAGCAGCTGGCGCAGCTGAGTGTGACGGCCACGGACAA
GGAGGAGAACAAGCAGGTGGCCCTGGGCACGTCCAAGCTCAACTACCTGGACCCAGGATCAGCATTGCCTGGTG
CAAGCGGTTTCAGGGTGCCAGTGGAGAAGATCTACAGCAAAACACAGCGGGAGAGGTTTCGCCTGGGCTCTCGCCAT
GGCAGGAGAAGACTTTGAATTC**TAAC**GACGAGCCGTGTTGAACTTCTTTTGTATGTGTGTGTGTTTTTTTCACT
ATTAAAGCAGTACTGGGGAATTTTGTAATAAAAAAAAAAAAAAAAAA

2839/6881
FIGURE 2617

MRVVRLRLRAALTLLGEVPRRPASRGVPGSRRTQKSGGARWEKEKHEDGVKWRQLEHKGPYFAPPYEPLPDGVR
FFYEGRPVRLSVAEEVATFYGRMLDHEYTTKEVFRKNFFNDWRKEMAVEEREVIKSLDKCDFTEIHRYFVDKAA
ARKVLSREEKQKLKEEAELQQEFGYCILDGHQEKIGNFKIEPPGLFRGRGDHPKMGMLKRRITPEDVVINCSRD
SKIPEPPAGHQWKEVRSDNTVTWLAAWTESVQNSIKYIMLNPCSKLKGETAWQKFETARRLRGFVDEIRSQYRAD
WKSREMKTRQRAVALYFIDKLALRAGNEKEDGEAADTVGCCSLRVEHVQLHPEADGCQHVVVEFDLFGKDCIRYYN
RVPVEKPVYKNLQLFMENKDPRDDLFDRLLTTSLNKHLLQELMDGLTAKVFRTYNASITLQEQRLRALTRAEDSIAA
KILSYNRANRVVAILCNHQRATPSTFEKSMQNLQTKIQAKKEQVAEARAELRRARAETHKAQGDGKSRSVLEKKRR
LLEKLQEQLAQLSVQATDKEENKQVALGTSKLNLYLDPRIASIAWCKRFRVPVEKIYSKTQRERFAWALAMAGEDFE
F

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FIGURE 2618

GATGGCGGCGGAGCAGGACCCCGAGGCGCGCGGGGCGGCCGCTGCTCACTGACCTCTACCAGGCCACCATGGC
GTTGGGCTATTGGCGCGCGGGCCGGGCGCGGGACGCCGCCGAGTTCGAGCTCTTCTTCCGCCGCTGCCCGTTTCG
CGGCGCCTTCGCCTTGGTAGCCGGCTTGCGCGACTGTGTGCGCTTCCTGCGCGCCTTCCGCCCTGCGGGACGCCGA
CGTGCACTTCCTGGCCTCGGTGCTGCCCCAGACACGGATCCTGCGTTCCTTCGAGCACCTTCGGGCCCTCGACTG
CTCCGAGGTGACGGTGCGAGCCCTGCCCCAGGCTCCCTCGCCTTCCCCGGAGTGCCGCTCCTGCAGGTGTCCGGG
CCGCTCCTGGTGGTGCAGCTGCTGGAGACACCGCTGCTCTGCCTGGTCAGCTACGCCAGCCTGGTGGCCACCAAC
GCAGCGCGCGTTCGCTTGATCGCAGGGCCAGAGAAGCGGCTGCTAGAGATGGGCCTGAGGCGGGCTCAGGGCCCCG
ATGGGGCCTGACAGCCTCCACCTACAGCTACCTGGGCGGCTTCGACAGCAGCAGCAACGTGCTAGCGGGCCAGCT
GCGAGGTGTGCCGTGGCCGGGACCCTGGCCCACTCCTTCGTCACTTCCTTTTCAGGCAGCGAGGTGCCCCCTGA
CCCGATGTTGGCGCCAGCAGCTGGTGAGGGCCCTGGGGTGGACCTGGCGGCCAAAGCCCAGGTGTGGCTGGAGCA
GGTGTGTGCCCACCTGGGGCTGGGGGTGCAGGAGCCGCATCCAGGCGAGCGGGCAGCCTTTGTGGCCTATGCCTT
GGCTTTTCCCCGGGCTTCCAGGGCCTCCTGGACACCTACAGCGTGTGGAGGAGTGGTCTCCCCAACTTCCTAGC
AGTCGCCCTGGCCCTGGGAGAGCTGGGCTACCGGGCAGTGGGCGTGAGGCTGGACAGTGGTGACCTGCTACAGCA
GGCTCAGGAGATCCGCAAGGTCTTCCGAGCTGCTGCAGCCCAGTTCAGGTGCCCTGGCTGGAGTCAGTCCTCAT
CGTAGTCAGCAACAACATTGACGAGGAGGCGCTGGCCCGACTGGCCCAGGAGGGCAGTGAGGTGAATGTCATTGG
CATTGGCACCACTGTGGTCACTGCCCCAACAGCCTTCCCTGGGTGGTGTCTATAAGCTGGTGGCCGTGGGGGG
CCAGCCACGAATGAAGCTGACCGAGGACCCCGAGAAGCAGACGTTGCCTGGGAGCAAGGCTGCTTCCGGCTCCT
GGGCTCTGACGGGTCTCCACTCATGGACATGCTGCAGTTAGCAGAAGAGCCAGTGCCACAGGCTGGGCAGGAGCT
GAGGGTGTGGCCTCCAGGGGGCCAGGAGCCCTGCACCGTGAGGCCAGCCCAGGTGGAGCCACTACTGCGGCTCTG
CCTCCAGCAGGGACAGCTGTGTGAGCCGCTCCCATCCCTGGCAGAGTCTAGAGCCTTGGCCCAGCTGTCCCTGAG
CCGACTCAGCCCTGAGCACAGGCGGCTGCGGAGCCCTGCACAGTACCAGGTGGTGTGTCCGAGAGGCTGCAGGC
CCTGGTGAACAGTCTGTGTGCGGGCAGTCCCCCTGAGACTCGGAGCGGGGCTGACTGGAAACAACAGCAATCAC
TCACTTTTCCCC

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FIGURE 2619

CAGAAAAATGGCTACAAACTTCCTAGCACATGAGAAGATCTGGTTCGACAAGTTCAAATATGACGACGCAGAAAG
GAGATTCTACGAGCAGATGAACGGGCTGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCCGTGATCCTCCGTG
ACATTGCGAGAGCCAGAGAGAACATCCAGAAATCCCTGGCTGGAAGCTCAGGCCCCGGGGCCTCCAGCGGCACCA
GCGGAGACCACGGTGAGCTCGTCGTCCGGATTGCCAGTCTGGAAGTGGAAGACCAGAGTCTGCGTGGCGTGGTAC
AGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCGGCTGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGG
CCACGGCCCCACAGACCCAGTGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGG
CAGTACGCGGAGAAGAAGGCCAAGAAGCCTGCACTGGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGG
GATGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCCAGCTGGACGGGCTGGTCTGGGGGGCT
TCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGTGGGG
ACAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAACAAG
ATCTGAAGCCTGAGTGTGTGTACGTGCGCGCTGCGTGAGGCCCTGCCACGATTAAAGACTGAGAC

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FIGURE 2620

AGCGCAGCGGCGTCCGAGGCAACAAG**ATG**GCAGCTGCGGAGCCGTCTCCGCGGCGCGTGGGCTTCGTGGGCGCGG
GCCGCATGGCGGGGGCCATCGCGCAGGGCCTCATCAGAGCAGGAAAAGTGGAAGCTCAGCACATACTGGCCAGTG
CACCAACAGACAGGAACCTATGTCACTTTCAAGCTCTGGGTTGCCGGACCACGCACTCCAACCAGGAGGTGCTAC
AGAGCTGCCTGCTCGTCATCTTTGCCACCAAGCCTCATGTGCTGCCAGCTGTCTTGGCAGAGGTGGCTCCTGTGG
TCACCACTGAACACATCTTGGTGTCCGTGGCTGCTGGGGTGTCTCTGAGCACCCCTGGAGGAGCTGCTGCCCCAA
ACACACGGGTGCTGCGGGTCTTGCCCAACCTGCCCTGTGTGGTCCAGGAAGGGGCCATAGTGATGGCGCGGGGCC
GCCACGTGGGGAGCAGCGAGACCAAGCTCCTGCAGCATCTGCTGGAGGCCTGTGGGCGGTGTGAGGAGGTGCCTG
AAGCCTACGTGACATCCACACTGGCCTCAGTGGCAGTGGCGTGGCCTTCGTGTGTGCATTCTCCGAGGCCCTGG
CTGAAGGAGCCGTCAAGATGGGCATGCCCAGCAGCCTGGCCACCCGCATCGCTGCCCAGACCCTGCTGGGGACGG
CCAAGATGCTGCTGCACGAGGGCCAACACCCAGCCAGCTGCGCTCAGACGTGTGCACCCCGGTGGCACCACCA
TCTATGGACTCCACGCCCTGGAGCAGGGCGGGCTGCGAGCAGCCACCATGAGCGCCGTGGAGGCTGCCACCTGCC
GGGCAAGGAGCTCAGCAGAAAG**TAG**CTGGGCTCTGGCCATCCTTTCTGCTCTGTGCCCCCTGCCTCTCCCTG
TGTCCCTTCCCCTGAGGACTGCGGCTCCCTCCCTCCTGCATGAGGGTCTCCTACTGCTCCTTCTCCCTTGCACA
GGGAAATGCAGGGGGCAGGACTTGGGAGGTTCCAGCAGGCGGGGGAGCCCCGACCAGTGGGGACACTCCTCCCTC
CCCAGTGAGCAGAAGGCACCGTGGTGGTGGCTCTGCCCCCTGCTGCAGTGAGCCACCTTGCTGCAACATTGGTT
CTGAGGGGGCCCAAGAGATGGCGTCTTGGTCATTTGCCCGCATGGTTGGGCAGTTGGTTGAGGCCATGAACAGAAC
TTACGGTAACAGGCACGGCTGGCCCAATGCCTGGTCTGGAGCTGGAGCTTGCTTTGGCTTTCCAGGTGGCTCCG
TGCAGCTACAGCCAGGCCGGCTGCCTCATCTCAGCTCTAGGGGGCACGAGCCATATGGGGTCTGCACAAGAGACC
CTCTCCCTGCAGTAAAGCCAGGGGCCCTGGCCTGATGGGGCCCCCATGGGGAGCTGGAGCCTGCCCTGCAGCCT
GGAGAAGAGGGTGGCTGTGGTGGGCGTGTCTATCCCTGCTAAGGAGCAGGAGCTGCTGGGCCAGGTCTGCGGCA
GTGCTGGGGTGGCACCAGGTGGGCAGTGGTAGGTGGGGTGGCTTGAGGTCTGGGAGGGTGGCCCTGGCCAGCCAG
GACACATGCAGACCCCTGGCTTAGTCTGGATACAGGCTCCCTCTTTCTCCCAATCCTAAGCTCCTGACAAGTGG
CCAGGTGGCTCTGGGGCCCTCCTGCCCCGTGCCTAGGTGAGGGTCCCTGGAATACCCCGTAGCTCTGGCACCACCA
CACTGGCCTCTGATGGCAAGACTTGGCCCCCTCCACCTGTCCCTAACGGACGGCAGGTGAGGAAAGCCAGGACTCA
GGGGAGAAGCAAACCCCCAGGATTGAAGGCTAGGGTTCTAGGGCCTTTGGGTGGGGAGGGCCCCGGGCCGACAGC
CTCAGCTCCGTCCCCTGCCCCACAAGATTACCTGGGCCTCCAGTCCCACGCTGGCCCCAACTGCTGCAGCTCTC
GGCTTCCGCCCAACAGCCTCTGGAGGTGAGGCGGGAGCATGCCCTCAGCGAGGCTGGGCGGCGGGTCTGCTGTG
CCATCTCCCTGTGCGCCTGAGCAGATCAATCCACCAGTGCAAAACAGGGCTAACGGCACCTGCAGGACAGCAGCA
CGCTCCATCCCTCATGCTCAGCTGCCTCTGCGGCCACGGACTTCTGCCCTTCATCTGCTCTCTTACTCTCCTG
AGCCTAGCCCCGTCCGTAAGCTCCCTCCCTGCCTGGTTCCCAGGGCAGGCTGACTCAGTTGACTGCTTGGTCCAA
GCCTGGCCCTGGCACTTGTGAGGGTCAGCCTAAGGAGATGGGAATAAAGAGGCCAGAGAGCACCAAGTGAGCTCA
TGTTTC

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FIGURE 2621

MAAAEPSPRRVGFGAGRMAGAI AQGLIRAGKVEAQHILASAPTRNLCHFQALGCRTTHSNQEVLSCLLVIFA
TKPHVLPVLA EVAPVVTTEHILVSVAAGVSLSTLEELLPPNTRVLRVLPNLPCVVQEGAI VMARGRHVGSSETK
LLQHLLEACGRCEEVPEAYVDIHTGLSGSGVAFVCAFSEALAE GAVKMGMPSSLAHRIAAQTLLGTAKMLLHEGQ
HPAQLRSDVCTPGGTTIYGLHALEQGG LRAATMSAVEAATCRAKELSRK

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FIGURE 2622

CGCGTGGTGCGGCTGCTGCGGCTCCGGGCGGCTCTGACGTGCTCGGGGAGGTCCCCGCCGCCCGCCTCCCGGGAT
GTCCGCTCGCGCAGGACGCAGAAGGGCAGTGGAGCCAGAAACAGCCAGAAAGGCCCTTTCAGAAATGTCTGTTGC
ACATGCTTTCCCTCTCAGACCTTCAGAGACTTCCTGTTGCTCTGAGGACACTCATCCCAGCCGACCAGGCCAC
CAGGCCCCCAACAGCACTACCTGGCTGGGGTCACGTGCAGGTCTCCTGGCTCTGGCAGGTGGGAGAAGGAGAAGC
ACGAAGACGGGGTGAAGTGGAGACAGCTGGAGCACAAGGGCCCGTACTTCGCACCCCCATACGAGCCCCCTTCCCG
ATGGAGTGCCTTTCTTCTATGAAGGAAGGCCTGTGAGATTGAGCGTGGCAGCGGAGGAGGTGCGCACTTTTTATG
GGAGGATGTTAGATCATGAATACACAACAAAGGAGGTTTTCCGGAAGAACTTCTTCAATGACTGGCGAAAGG

[illegible]

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FIGURE 2624

MEEKEILRRQIRLLQGLIDDYKTLHGNAFAPGTPAASGWQPPTYHSGRAFSARYPRPSRRGYSSHHGPSWRKKYS
LVNRPPGPSDPPADHAVRPLHGARGGQPPVPQQHVLERQVQLSQGQNVVIKVKPPSKSGSASASGAQRGSLEEF
ETPWSQQRPREGEGEPFRGQLQPSRPTRARGTCSVEDPLLVCQKEPGKPRMVKS SVGSVGDSPREPRRTVSESVIA
VKASFPSSALPPRTGVALGRKLGSHSVASCAPQLLGDRRVDAGHTDQVPVSGSVGGPARPASGPRQAREASLVVT
CRTNKF RKNNYKWVAASSKSPRVARRALSPRVAAENVCKASAGMANKVEKPQLIADPEPKPRKPATSSKPGSAPS
KYKWKASSPSASSSSSFWRQSEASSKDHASQLSPVLSRSPSGDRPAVGHSGLKPLSGETPLSAYKVKSRTKIIRR
RSSTSLPGDKKSGTSPAATAKSHLSLRRRQALRGKSSPVLKKTTPNKGLVQVTTHRLCRLPPSRAHLPTKEASSLH
RRGPLQSICQQALQDLRPAQ

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FIGURE 2625

CTCCTGCGCACGCGGCCCGGTGCTGTCGGAAGCGGCTGTGCGGGTGGCGGCCGGCGCGCGGTGGGGCATGGCGG
GTTCGCGGGGTGCGGGGCGCACGGCGGCGCCGAGCCTGCGGCGGAGAAGCGGCGGTCTGAGCCCGAACTGGAGC
CTGAGCCCGAGCCGGAGCCCCCTCCTCTGCACCTCTCCTCTCAGCCACAGCACCGGCGAGCGATTCTGGCGTCT
CCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAGATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCG
ACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGGGCCACAGTGGGATTAAAAAGACCACTGAGGAGCAGGTGC
AGGCCAGCACTCCTTGCCCCGAGGACAGAGATGGCGAGCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTG
ATGAGGAGGACATCCGGAACACGGTGGGCAACGTGCCCTTGAGTGGTACGATGACTTCCCCACGTGGGCTACG
ACCTGGATGGCAGGCGCATCTACAAGCCCCCTGCGGACCCGGGATGAGCTGGACCAGTTCTTGACAAGATGGACG
ATCCTGACTACTGGCGCACCGTGCAGGACCCGATGACAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCC
TGGTGCGGCGGCTGCAGAGTGGCCAGTTTGGGGATGTGGGCTTCAACCCCTATGAGCCGGCTGTCGACTTCTTCA
GCGGGGACGTCATGATCCACCCGGTGACCAACCGCCCGGCGACAAGCGCAGCTTCATCCCCCTCCCTGGTGGAGA
AGGAGAAGGTCTCTCGCATGGTGCACGCCATCAAGATGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCC
CCAGCTTCTATGACCTGTGGGCCCAGGAGGACCCCAACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTC
CCAAGCTGGCCCTGCCAGGCCACGCCGAGTCGTACAACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCT
TGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGCTGAGCTTTTTGCCACGCAAGTTCCCGAGCCTGCGGGCCG
TGCTGCCTACGGACGCTTCATCCAGGAACGCTTCGAGCGCTGCCTTGACCTGTACCTGTGCCACGGCAGCGCA
AGATGAGGGTGAATGTAGACCCTGAGGACCTCATCCCCAAGCTGCCTCGGCCGAGGGACCTGCAGCCCTTCCCCA
CGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACCTTGTCCGGTGCCTCAGTGTCTCTCCTGGGGGCCAGTGGC
TGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCTGGGAGGTGGCCACTGCCCCTGTGTGAGGACTGTTCCCG
TGGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCAGCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACT
CGGTGCTGCTGCTGAACCCAGCTCTGGGGGACCGGCTGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCG
TCCCGCCTGAGGAGCCCCCTTGACGCCGGCCCCGCTGGCTGGAGGCCTCAGAGGAGGAGCGCCAAGTGGGCCTGC
GGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGGTGACCTGGCACGGGCGTGGGGACTACCTGGCCGTGGTGC
TGGCCACCCAAGGCCACACCCAGGTGCTGATTACCAGCTGAGCCGTGCGCGCAGCCAGAGTCCGTTCCGCCGCA
GCCACGGACAGGTGCAGCGAGTGGCCTTCCACCCTGCCCGGCCCTTCTGTTGGTGGCGTCCCAGCGCAGCGTCC
GCCTCTACCACCTGCTGCGCCAGGAGCTCACCAAGAAGCTGATGCCCAACTGCAAGTGGGTGTCCAGCCTGGCGG
TGCACCTGCAGGTGACAACGTCTGTGGGAGCTACGATAGCAAGCTGGTGTGGTTGACCTGGATCTTTCCA
CCAAGCCATACAGGATGCTGAGACACCACAAGAAGGCTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCT
TTGCGTCAGGCTCGGACGACGGCAGTGTATCGTCTGCCATGGCATGGTGTACAATGACCTTCTGCAGAACCCCT
TGCTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGCTGACCCGAGATCTGGGAGTGTGGACGTCTCTCCACC
CCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACGGGACTGTCCGCCTCTTCACCTAGCTGTTCTGCCTGCCTG
GGCTGGGGTGGTCTGTGCTGAAGTCAACAGAGCCTTTACCCTGTGCTGCCTGGTGTCTCCACCTTCTTGAATTGG
GGTTGCCAACAAAGCCGCCCCCACCACA

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FIGURE 2626

GCCCCGTTGCAAGATGGCGGCGGCCATGCTGGGCCCCGGGGCTGTGTGTGCGCAGCGGGCGGGCGGGCGGGCCCCGGA
AGGCTGGCGCGGCGACGGCGTTAGCCCCGGCCCTCGGCCCCCTCTTTGCGGCGGCTCCCTCCGCCTATTCCCTCCTT
GCTCGAGATGGATCTGCCCCGTGGGCCCCGGCGCGGGGGCCAGCAACGTCCCGGCCCTTCTTGACCAAGCTGTG
GACCCCTCGTGAGCGACCCGGACACCGACGCGCTCATCTGCTGGAGCCCCGAGCGGGAACAGCTTCCACGTGTTGCA
CCAGGGCCAGTTTGCCAAGGAGGTGCTGCCCAAGTACTTCAAGCACAAACATGGCCAGCTTCGTGCGGCAGCT
CAACATGTATGGCTTCCGGAAAGTGGTCCACATCGAGCAGGGCGGCCTGGTCAAGCCAGAGAGAGACGACACGGA
GTTCCAGCACCCATGCTTCCCTGCGTGGCCAGGAGCAGCTCCTTGAGAACATCAAGAGGAAAGTGACCAAGTGTGTC
CACCCCTGAAGAGTGAAGACATAAAGATCCGCCAGGACAGCGTCACCAAGCTGCTGACGGACGTGCAGCTGATGAA
GGGGAAGCAGGAGTGATGGACTCCAAGCTCCTGGCCATGAAGCATGAGAATGAGGCTCTGTGGCGGGAGGTGGC
CAGCCTTCGGCAGAAGCATGCCCAGCAACAGAAAGTCGTCAACAAGCTCATTAGTTTCTGATCTCACTGGTGCA
GTCAAACCGGATCCTGGGGGTGAAGAGAAAGATCCCCCTGATGCTGAACGACAGTGGCTCAGCACATTCCATGCC
CAAGTATAGCCGGCAGTTCTCCCTGGAGCACGTCCACGGCTCGGGCCCCCTACTCGGCCCCCTCCCCAGCCTACAG
CAGCTCCAGCCTCTACGCCCCCTGATGCTGTGGCCAGCTCTGGACCCATCATCTCCGACATCACCGAGCTGGCTCC
TGCCAGCCCCATGGCCTCCCCCGGCGGGAGCATAGACGAGAGGCCCTATCCAGCAGCCCCCTGGTGCGTGTCAA
GGAGGAGCCCCCAGCCCGCCTCAGAGCCCCCGGGTAGAGGAGGCGAGTCCCGGGCGCCCATCTTCCGTGGACAC
CCTCTTGTCGCCCGACCGCCCTCATTGACTCCATCCTGCGGGAGAGTGAACCTGCCCCCGCCTCCGTACAGCCCT
CACGGACGCCAGGGGCCACACGGACACCGAGGGCCGGCTTCCTTCCCCCGCCACCTCCACCCATGAAAAGTG
CTTCAGGGTAGCCTGCCTGGACAAGAATGAGCTCAGTGACCACCTGGATGCTATGGACTCCAACCTGGATAACCT
GCAGACCATGCTGAGCAGCCACGGCTTCAGCGTGGACACCAGTGCCCTGCTGGACCTGTTAGCCCCCTCGGTGAC
CGTGCCCGACATGAGCCTGCCTGACCTTGACAGCAGCCTGGCCAGTATCCAAGAGCTCCTGTCTCCCCAGGAGCC
CCCCAGGCCTCCCGAGGCAGAGAACAGCAGCCCCGATTTCAGGGAAGCAGCTGGTGCACTACACAGCGCAGCCGCT
GTTCTGCTGGACCCCGGCTCCGTGGACACCGGGAGCAACGACCTGCCGGTGCTGTTTGAGCTGGGAGAGGGCTC
CTACTTCTCCGAAGGGGACGGCTTCGCCGAGGACCCACCATCTCCCTGCTGACAGGCTCGGAGCCTCCCAAAGC
CAAGGACCCCACTGTCTCCTAGAGGCCCGGAGGAGCTGGGCCAGCCGCCACCCCCACCCCAAGTGCAGGGCTG
GTCTTGGGGAGGCAGGGCAGCCTCGCGGTCTTGGGCACTGGTGGGTGCGCCGCCATAGCCCCAGTAGGACAAACG
GGCTCGGGTCTGGGCAGCACCTCTGGTCAGGAGGGTCACCCTGGCCTGCCAGTCTGCCTTCCCCCAACCCCGTGT
CCTGTGTTTTGTTGGGGCTTCACAGCCACACCTGGACTGACCCTGCAGGTTGTTCATAGTCAGAATTGTATTTT
GGATTTTACACAACGTGCCGTTCCCCGCTCCACAGAGATACACAGATATATACACACAGTGGATGGACGGACA
AGACAGGCAGAGATCTATAAACAGACAGGCTCT

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FIGURE 2627

GAAGCTCTGGGAAGGGGATGCCCCGAGGGTGCCAGTCCAGCTAGCTGCCCCACCCCTCAGGCCCAGCCTGGCCC
CCAAGCTCCCCACTCTGGTGCCCCGAGCAGCCCTGTGGGCAAGCAGCCGCCGCCATGGCCGAGCACCTGGAGCTG
CTGGCAGAGATGCCCATGGTGGGCAGGATGAGCACACAGGAGCGGCTGAAGCATGCCCAGAAGCGGCGCGCCCAG
CAGGTGAAGATGTGGGCCCAGGCTGAGAAGGAGGCCCAGGGCAAGAAGGGTCCTGGGGAGCGTCCCCGGAAGGAG
GCAGCCAGCCAAGGGCTCCTGAAGCAGGTCTCTTCCCTCCCAGTGTGTCTTCTGGAGGCGCTGCCCCGAAAT
GACCTGGAAGAAGTCCGCCAGTTCCTTGGGAGTGGGGTCAGCCCTGACTTGGCCAACGAGGACGGCCTGACGGCC
CTGCACCAAGTGTGCTGATTGATGATTTCCGAGAGATGGTGCAGCAGCTCCTGGAGGCTGGGGCCAACATCAATGCC
TGTGACAGTGAGTGTGAGCGCCTCTGCATGCTGCGGCCACCTGCGGCCACCTGCACCTGGTGGAGCTGCTCATC
GCCAGTGGCGCCAATCTCCTGGCGGTCAACACCGACGGGAACATGCCCTATGACCTGTGTGATGATGAGCAGACG
CTGGACTGCCTGGAGACTGCCATGGCAGACCGTGGCATCACCCAGGACAGCATCGAGGCGCGCGGGCCGTGCCA
GAACTGCGCATGCTGGACGACATCCGGAGCCGGCTGCAGGCCGGGGCAGACCTCCATGCCCCCTGGACCACGGG
GCCACGCTGCTGCACGTGCGAGCCGCCAACGGGTTCAGCGAGGCGGGCTGCCCTGCTGCTGGAACACCGAGCCAGC
CTGAGCGCTAAGGACCAAGACGGCTGGGAGCCGCTGCACGCCGCGGCCTACTGGGGCCAGGTGCCCCCTGGTGGAG
CTGCTCGTGGCGCACGGGGCCGACCTGAACGCAAAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXGAGGTGCGGGCCAAGCTTCTGGAAGTGAACACAAGCACGACGCCCTCCTGCGCGCCAGAGCCGCCAGCGC
TCCTTGCTGCGCCGCCGACCTCCAGCGCCGGCAGCCGCGGGAAGGTGGTGAGGCGGGTGAGCCTAACCCAGCGC
ACCGACCTGTACCGCAAGCAGCACGCCAGGAGGCCATCGTGTGGCAACAGCCGCCGCCACCAGCCCGGAGCCG
CCCGAGGACAACGATGACCGCCAGACAGGCGCAGAGCTCAGGCCGCCGCCCGGAGGAGGACAACCCCGAAGTG
GTCAGGCCGCACAATGGCCGAGTAGGGGGCTCCCCAGTGCGGCATCTATACTCCAAGCGACTAGACCGGAGTGTC
TCCTACCAGCTGAGCCCCCTGGACAGCACACCCCCACACCCCTGGTCCACGACAAGGCCCACCACACCCCTGGCT
GACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCCCACCTGAGGGGGCCGAGAGCCCTGAGACAGCT
GAGCCTGGCCTGCCTGGTGACACGGTGACCCCCAGCCTGACTGTGGCTTCAGGGCAGGCGGGGACCCACCCCTG
CTCAAGCTCACAGCCCCGGCGGTGGAGGCTCCCGTGGAGAGGAGGCCGTGCTGCCTGCTCATGTGAGGCTGTTGC
TCAGCATGCAGGGGCCCTGTCTCGGGCACAGCCCAAGGCTGCCTCCCCACGGTGCCTGCCCTGGTGCTGCGGGTG
CAGCACGGAACCCCGGCTTCTACTGTACAGGACACTGGCCCTCTCAGGTCAGAAGACATGCCTGGAGGGATGT
CTGGCTGCAAAGACTATTTTTATCCTGCAACTCTTGATAAAGGGCTGTTTGGCATGG

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FIGURE 2628

GACCTGAAGCGCCAGCGAGCTGCTGCCAAGCTGCAGCGACCCCCACCTGAGGGGCCCCGAGAGCCCTGAGACAGCT
GAGCCTGGCCTGCCTGGTGACACGGTGACCCCCAGCCTGACTGTGGCTTCAGGGCAGGCGGGGACCCACCCCTG
CTCAAGCTCACAGCCCCACGGTGCGTGCCCTGGTGCTGCGGGTGACGACGGAAACCCGGCTTCTACTGTACAG
GACACTGGCCCCCTCTCAGGTCAGAAGACATGCCTGGAGGGATGTCTGGCTGCAAAGACTATTTTTTA

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FIGURE 2629

ATGGTCACCATGGAGCCCGGGTACCTGTTCTGGGTTCTCGCCTGGGCAATTCCCTCCTCCTCAAGTACACGGAG
AAGCTGCAGGAGCCCCCGGCCAGTGCTGTCCGTGAGGCTGCCGACAAGGAAGAGCCTCCCTCAAAGAAGAAGCGA
GTGGATGCGACGGCCGGCTGGTCAGCTGCGGGTAAGTCGGTGCCGCAGGATGAGGTGGACGAGATTGAAGTGTAC
GGCAGCGAGGCCCAGTCGGGAACACAGCTGGCCACCTACTCCTTTGAGGTGTGTGACAGCATCCTGAACATTGGA
CCCTGTGCCAATGCCGCCGTGGGCGAACCTGCCTTCTCTCTAAAGAGTTTCAGAACAGCCCCGAGCCGGACCTG
GAGATTGTGGTTTGTCTCCGGCCACGGGAAGAACGGGGCTTTGTCCGTGCTGCAGAAGAGCATCCGGCCCCAGGTG
GTGACAAACATTTGAGCTTCCCCGGCTGCTATGACATGTGGACAGTCATCGCCCCGGTGCGTAAGGAGGAGGAGGAC
AATCCCAAGGGGGAGGGCACAGAGCAGGAACCCAGCACCCACCCCTGAAGCAGACGACGACGGCCGCAGACACGGA
TTCTTGATTCTGAGCCGGGAAGACTCCACCATGATCCTGCAGACGGGGCAGGAGATCATGGAGCTGGACACCAGT
GGCTTCGCCACTCAGGGCCCCACGGTCTTTGCTGGGAACATCGGGGACAACCGCTACATTGTCCAAGTGTACCA
CTGGGCATCCGCCTGCTGGAAGGAGTGAATCAGCTGCACTTCATCCCCGTGGACCTGGGCGCCCCCATCGTGCAG
TGCGCCGTGGCCGACCCCTATGTGGTCATCATGAGTGCCGAGGGCCACGTACCATGTTCTCTGCTGAAGAGTGAC
TCCTACGGTGGCCGCCACCACCGCTGGCGCTGCACAAGCCCCCGCTGCACCATCAGTCCAAGGTGATTACGCTG
TGCCTGTACCGAGACCTCAGCGGCATGTTTCACTGAGAGCCGCTGGGTGGGGCCCGTGACGAGCTCGGGGGC
CGCAGTGGCCCGGAGGCCGAGGGCCTGGGCTCAGAGACTAGCCCCACAGTGGATGACGAGGAGGAGATGCTGTAT
GGGGATTTCGGGCTCCCTCTTTCAGCCCCAGCAAGGAGGAGGCCCGAAGAAGCAGCCAGCCCCCTGCTGACCGGGAC
CCTGCACCCCTTCGGGGCAGAGCCTACCCACTGGTGCCTGCTGGTGCGGGAGAATGGCACCATGGAGATCTACCAG
CTTCCCGACTGCGGGCTGGTGTTCCTGGTGAAGAACTTCCCTGTGGGGCAGCGGGTCTTGTGGACAGCTCCTTT
GGACAGCCCACTACACAGGGCGAGGGCCGCAGGGAGGAGGCCACGCGCCAGGGGGAGCTGCCCCCTCGTCAAGGAG
GTGCTGCTGGTGGCGCTGGGCAGCGCCAGAGCAGGCCCTACCTGCTGGTGCATGTGGACCAAGAGCTGCTTATC
TACGAGGCCTTCCCCACGACTCTCAGCTCGGCCAGGGCAATCTCAAAGTCCGCTTTAAGAAGGTCCCTCACAAC
ATCAACTTCCGTGAGAAGAAGCCAAAGCCATCCAAGAAGAAAGCAGAAGGTGGCGGCGCAGAGGAGGGGGCTGGG
GCCCCGGGGCCTCGTGGCGCGTTTCCGCTACTTCGAGGATATTTATGGCTACTCAGGGGTCTTCATCTGCGCCCC
TCCCCTCACTGGCTCTTGGTGACCGCCGAGGGGCTCTGCGGCTACACCCCATGGCCATCGACGCGCCCGGTGCGAC
TCTTTGCTCCATTCCACAATGTCAACTGTCCCCGCGGCTTCTGTACTTCAACAGACAGGGCGAGCTGAGGATC
AGTGTCTCTGCCTGCCTACCTGTCTATGATGCCCCATGGCCTGTCAGGAAGATCCCGCAGCGTTGCACGGCCAC
TATGTGGCTTACCACGTGGAGTTTAAGGTGTATGCTGTGGCCACCAGCACCAACACGCCGTGTGCCCGCATCCCA
CGCATGACTGGCGAGGAGAAGGAGTTTGAACCATCGAGAGAGATGAGCGGTACATCCACCCCGAGCAGGAGGCC
TTCTCCATCCAGCTCATCTCCCCGCTCAGCTGGGAGGCTATTCCCAATGCCAGGATCGAGCTGCAGGAGTGGGAG
CATGTGACCTGCATGAAGACAGTGTCTCTGCGCAGTGAGGAGACCGTGTGCGGCCCTCAAAGGCTACGTGGCCGCC
GGGACCTGCCTCATGCAGGGGGAGGAGGTACGTGCCGAGGGCCGATCTTGATCATGGATGTGATTGAGGTGGTG
CCCGAGCCTGGCCAGCCCTTGACCAAGAACAAGTTCAAAGTCCCTTACGAGAAGGAGCAGAAGGGGGCCCGTGACC
GCCCTGTGCCACTGCAATGGCCACCTGGTGTGCGCCATCGGCCAGAAGATTTTCTGTGGAGCCTGCGGGCCAGC
GAGCTGACGGGCATGGCCTTCATCGACACGCAGCTCTACATACACCAGATGATCAGCGTCAAGAACTTCATCCTG
GCAGCCGACGTATGAAGAGCATTTGCTGTGCTGCGCTACCAGGAGGAAAGCAAGACGCTGAGCCTGGTGTGCGGG
GATGCCAAGCCCCCTGGAGGTGTACAGCGTGGACTTCATGGTGGACAATGCCAGCTGGGTTTTCTGGTGTCTGAC
CGCGACCGCAACCTCATGGTGTACATGTACCTGCCCCGAAGCCAAGGAGAGTTTCGGGGGCATGCGCCTGCTGCGT
CGGGCAGACTTCCACGTGGGTGCCACGTGAACACGTTTTGGAGGACCCCGTGCCGGGGGGCCACTGAAGGGCTC
AGCAAAAAGTCGGTGTGTTGGGAGAATAAGCACATCACGTGGTTTTGCCACCCTGGACGGCGGCATCGGGCTGCTG
CTGCCCATGCAGGAGAAGACCTACCGGCGGCTGCTGATGCTGCAGAACGCGCTGACCACCATGCTGCCACACCAC
GCCGGCCTCAACCCCGCGCCTTCCGGATGCTGCACGTGGACCGCCGCACCCCTCCAGAATGCCGTGCGCAACGTG
CTGGATGGGGAGCTGCTCAACCGCTACCTGTACCTGAGCACCATGGAGCGCAGCGAGGTAGCCAAGAAGATCGGC
ACCACACCAGACATAATCCTGGACGACTTGTGAGACGGACCGCGTACCGCCCCACTTCTAGCCCCGTGGATGC
CGTACACCACCAGCACACGGAACCTACCTCCCACCCCTTTTTGTACAAAACACAAGGAAAAACATTTTTTGC

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FIGURE 2630

MYAVYKQAHPPPTGLEFSMYCNFFNNSERNLVVAGTSQLYVYRLNRDAEALTKNDRSTEGKAHREKLELAASFSSF
GNVMSMASVQLAGAKRDALLLSFKDAKLSVVEYDPTGTHDLKTLSSLHYFEEPELRDGFVQNVHTPRVRVDPDGRCA
AMLVYGTTRLVVLPRRESLAEHEGLVGEGQRSSFLPSYIIDVRALDEKLLNIIDLQFLHGYYEPTLLILFEPNQ
TWPGRVAVRQDTCISIVAISLNIQKVHPVIWSLTSLPFDCTQALAVPKPIGGVVVFVAVNSLLYLNQSVPPYGVAL
NSLTTGTTAFLRTQEGVRITLDCAQATFISYDKMVISLKGGEIYVLTITDGMRSVRAFHFDDKAAASVLTSSMV
TMEPGYLFLGSRLGNSLLLKYTEKLQEPASPASVREAADKEEPPSKKKRVDATAGWSAAGKSVPQDEVDEIEVYGS
EAQSGTQLATYSFEVCDASILNIGPCANAAVGEPAFLSKEFQNSPEPDLEIVVCSGHGKNGALSVLQKSIRPQVVT
TFELPGCYDMWTVIAPVRKEEEDNPKGEGTEQEPSTTPEADDDGRRHGFLILSREDSTMILQTGQEIEMELDTSGF
ATQGPTVTFAGNIGDNRYIVQVSPLGIRLLEGVNQLHFIPVDLGAPIVQCAVADPYVVMIMSAGHVMTMFLKSDSY
GGRHHRALALHKPPLHHQSKVITLCLYRDLSGMFTTESRLGGARDELGGRSGPEAEGLGSETSP TVDDEEEMLYGD
SGSLFSPSKEEARRSSQPPADRDPAFFRAEP THWCLLVRENGTMEIYQLPDWRLVFLVKNFVVGQRVLVDSSFGQ
PTTQGEARREEATRQGELPLVKEVLLVALGSRQSRPYLLVHVDQELLIYEAFPHDSQLGQGNLKVRFKKVPHNIN
FREKKPKPSKKKAEGGGAEEGAGARGLVARFRYFEDIYGYSGVFICGPSPHWLLVTGRGALRLHPMAIDGPVDSF
APFHNVCNPRGFLYFNRRQELRISVLPAYLSYDAPWPVRKIPQRCTAHYVAYHVEFKVYAVATSTNTPCARIPRM
TGEEKEFETIERDERYIHPQQEAFSIQLISPVSWEAIPNARIELQEWVHTCMKTVSLRSEETVSGLGKYVAAGT
CLMQGEEVTCRGRILIMDVIEVVPEPGQPLTKNFKVLYEKEQKGPVTALCHCNGHLVSAIGQKIFLWSLRASEL
TGMAFIDTQLYIHQMISVKNFILAADVMKSISSLRYQEESKTSLVSRDAKPLEVYSVDFMVDNAQLGFLVSDRD
RNLVMVYMLPEAKESFGGMRLRRADFHVGAVNTFWRTPCR GATEGLSKKSVVWENKHITWFATLDGGIGLLLP
MQEKTYYRLLMLQNALTTMLPHHAGLNPRAFRMLHVD RRTLQNAVRNVLDGELLNRYLYLSTMERSEVAKKIGTT
PDIILDDLLETDRVTAHF

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FIGURE 2631

AATGGACGAGAGAGGCGGCCGTCCATTAGTTAGCGGCTCCGGAGCAACGCAGCCGTTGTCCTTGAGGCCGACGGG
CCTGACGCGGGCGGGTTGAACGCGCTGGTGAGGCGGTCACCCGGGCTACGGCGGCCGGCAGGGGGCAGTGGCGGC
CGTTGTCTAGGGCCCCGAGGTGGGGCCGCGCGCCTCGGGCGCTACGAACCCGGCAGGCCCCACGCTTGCGTGC
CGGGTGCGGGCTGAGGCCATGGGCGACCGCGGCAGCTCCCGGCGCCGGAGGACAGGGTTCGCGGCCCTCGAGCCAC
GGCGGCGGGCGGCCCTGCGGCGGCGGAAGAGGAGGTGCGGGACGCCGCTGCGGGCCCCGACGTGGGAGCCGCGGGG
GACGCGCCAGCCCCGGCCCCCAACAAGGACGGAGACGCCGGCGTGCGGAGCGGCCACTGGGAGCTGAGGTGCCAT
CGCCTGCAGGATTCTTTATTTCAGCTCTGACAGTGGCTTCAGCAACTACCGTGGCATCCTGAACTGGTGTGTGGTG
ATGCTGATCTTGAGCAATGCCCGTTATTTCTGGAGAACCTCATCAAGTATGGCATCCTGGTGGACCCCATCCAG
GTGGTTTCTCTGTTCCCTGAAGGATCCCTATAGCTGGCCCGCCCCATGCCTGGTTATTGCGGCAATGTCTTTGCT
GTGGCTGCATTCCAGGTTGAGAAGCGCCTGGCGGTGGGTGCCCTGACGGAGCAGGCGGGACTGCTGCTGCACGTG
GCCAACCTGGCCACCATTCTGTGTTTCCCAGCGGCTGTGGTCTTACTGGTTGAGTCTATCACTCCAGTGGGCTCC
CTGCTGGCGCTGATGGCGCACACCATCCTCTTCCTCAAGCTCTTCTCCTACCGCGACGTCAACTCATGGTGCCGC
AGGGCCAGGGCCAAGGCTGCCTCTGCAGGGAAGAAGGCCAGCAGTGCTGCTGCCCCGCACACCGTGAGCTACCCG
GACAATCTGACCTACCGCGATCTCTACTACTTCCTCTTCGCCCCACCTTGTGCTACGAGCTCAACTTTCCCCGC
TCTCCCCGCATCCGGAAGCGCTTTCTGCTGCGACGGATCCTTGAGATGCTGTTCTTCACCCAGCTCCAGGTGGG
CTGATCCAGCAGTGGATGGTCCCCACCATCCAGAACTCCATGAAGCCCTTCAAGGACATGGACTACTCACGCATC
ATCGAGCGCCTCCTGAAGCTGGCGGTCCCCAATCACCTCATCTGGCTCATCTTCTTCTACTGGCTCTTCCACTCC
TGCTGAATGCCGTGGCTGAGCTCATGCAGTTTGGAGACCGGGAGTTCTACCGGGACTGGTGGAACCTCCGAGTCT
GTCACCTACTTCTGGCAGAACTGGAACATCCCTGTGCACAAGTGGTGCATCAGACACTTCTACAAGCCCATGCTT
CGACGGGGCAGCAGCAAGTGGATGGCCAGGACAGGGGTGTTCTGGCCTCGGCCTTCTTCCACGAGTACCTGGTG
AGCGTCCCTCTGCGAATGTTCCGCCTCTGGGCGTTCACGGGCATGATGGCTCAGATCCCACTGGCCTGGTTCGTG
GGCCGCTTTTTTCCAGGGCAACTATGGCAACGCAGCTGTGTGGCTGTGCTCATCATCGGACAGCCAATAGCCGTC
CTCATGTACGTCCACGACTACTACGTGCTCAACTATGAGGCCCCAGCGGCAGAGGCCTGAGCTGCACCTGAGGGC
CTGGCTTCTCACTGCCACCTCACACCCGCTGCCAGAGCCCACCTCTCCTCCTAGGCCTCGAGTGCTGGGGATGGG
CCTGGCTGCACAGCATCCTCCTCTGGTCCCAGGGAGGCCTCTCTGCCCTATGGGGCTCTGTCTGCACCCCTCA
GGGATGGCGACAGCAGGCCAGACACAGTCTGATGCCAGCTGGGAGTCTTGCTGACCCTGCCCCGGGTCCGAGGGT
GTCAATAAAGTGCTGTCCAGTG

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FIGURE 2632

MGDRGSSRRRRRTGSRPSSHGGGGPAAAEVEVRDAAAGPDVGAAGDAPAPAPNKG DAGVSGHWELRCHRLQDSL
FSSDSGFSNYRGILNWCVVMLILSNARLFLENLIKYGILVDPIQVVSFLKDPYSWPAPCLVIAANVFVAAAFQV
EKRLAVGALTEQAGLLLHVANLATILCFPAAVVLLVESITPVGSLLALMAHTILFLKLF SYRDVNSWCRRARAKA
ASAGKKASSAAAPHTVSYPDNLT YRDLYYFLFAPTLCYELNFRSPRIRKRFLRRILEMLFFTQLQVGLIQQWM
VPTIQNSMKPFKMDYSRIIERLLKLAVPNHLIWLIFFYWLFHSCLNVAELMQFGDREFYRDWWNSESVTYFWQ
NWNIPVHKWCIRHFYKPMLRRGSSKWMARTGVFLASAFFHEYLVSVPLRMFRLWAF TGMMAQIPLAWFVGRFFQG
NYGNAAVWLSLIIGQPIAVLMYVHDYYVLN YEAPAAEA .

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FIGURE 2634

MGRVIRGQRKGAGSVFRAHVKHKGAARLRAVDFAERHGYIKGIVKDI IHDPGRGAPLAKVVFRDPYRFKKRTEL
FIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPGEGTIVCCLEEKPGDRGKLARASGNYATVISHNPETKKTRVKL
PSGSKKVISSANRAVVGVVAGGGRIDKPILKAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGGNHQHIGKPSTI
RRDAPAGRKVGLIAARRTGRLRGTKTVQEKEN

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FIGURE 2635

GCGGCATGGGCAGTATCCGCCGCCATCCTCTTCCGTGAGGCGCGCTGAGACCCGGACCGGCCCTCCTGAGAGGAT
GCCGGTGCGGGCGCCCGCGGAGAGGGACCCGTCGCCATGGGCCGTGTGATCCGTGGACAGAGGAAGGGCGCCGGG
TCTGTGTTCCGCGCGCACGTGAAGCACCGTAAAGGCGCTGCGCGCCTGCGCGCCGTGGATTTTCGCTGAGCGGCAC
GGCTACATCAAGGGCATCGTCAAGGACATCATCCACGACCCGGGCCGCGGCGCGCCCTCGCCAAGGTGGTCTTC
CGGGATCCGTATCGGTTTAAGAAGCGGACGGAGCTGTTCATTGCCGCCGAGGGCATTACACGGGCCAGTTTGTG
TATTGCGGCAAGAAGGCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATGCCTGAGGGTACAATCGTG
TGCTGCCTGGAGGAGAAGCCTGGAGACCGTGGCAAGCTGGCCCGGGCATCAGGGAACATGCCACCGTTATCTCC
CACAACCCTGAGACCAAGAAGACCCGTGTGAAGCTGCCCTCCGGCTCCAAGAAGGTTATCTCCTCAGCCAACAGA
GCTGTGGTTGGTGTGGTGGCTGGAGGTGGCCGAATTGACAAACCCATCTTGAAGGCTGGCCGGGCGTACCACAAA
TATAAGGCAAAGAGGAACCTGCTGGCCACGAGTACGGGGTGTGGCCATGAATCCTGTGGAGCATCCTTTTGGAGGT
GGCAACCACCAGCACATCGGCAAGCCCTCCACCATCCGCAGAGATGCCCTGCTGGCCGCAAAGTGGGTCTCATT
GCTGCCCGCCGGACTGGACGTCTCCGGGGAACCAAGACTGTGCAGGAGAAAGAGAACTAGTGTGAGGGCCTCAA
TAAAGTTTGTGTTTATGCCAAA

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FIGURE 2636

MGRVIRGQRKGAGSVFRAHVKHRKGAARLRAVDFAERHGYIKGIVKDI IHDPGRGAPLAKVVFRDPYRFKKRTEL
FIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPGEGTIVCCLEEKPGDRGKLARASGNYATVISHNPETKKTRVKL
PSGSKKVISSANRAVVGVVAGGGRIDKPILKAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGGNHQHIKGPSTI
RRDAPAGRKVGLIAARRTGRLRGTKTVQEKEN

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FIGURE 2637

CTGTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCTGCGGCCAC
GTGCAGCCTATTCGCTGCACTAACTGTGCCCCGATGCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCCGCGAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGTCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 2638

TTTTCCTGGGGGCAGCAGCCGGGCTGAGAGGAGAGTGGCTGTCTACTCTCTCCGCCATGGCGTGTGTCCGCCAC
TGATGTCGCTGTACTCCGAAAAGGGGGAGTCATCTGGCAAAAATGTCACCTTAGCCCGCTGTATTCAAGGCTCCTA
TTCGACCAGACATCGTGAACCTTTGTTACACCAACTTGCGCAAAAACAACAGACAGCCCTACGCTGCCAGTGAAT
TAGCAGGTCATCGGACCAGCACTGAGTCTTTGGGTACTGGCAGAGCTGTGGCTCGAATTTCCAGAGTTCGAGGTG
GTGGGACTCACCGCTCCGGCCAGGGTGCTTTTGAAAACCATGTGTCGTGGAGGCCGAAGGTTTGACCAACCAAAA
CCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAACGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAG
CCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAGGAAGTTCCTGAACTTCCTTTGGTAGTCGAAGATA
AAGTTGAAGGCTACAGGAAGACCAAGGAAGCTGTTTTGCTCCTTAAGAACTTAAAGCCAGGAACGATATCAAAA
AGGTCTATGCCTCTCAGCGAATGAGAGCTGGCAAAGGCAAAATGAGAAACCGTCGCCGTATCCAGCGCAGGGGCC
CGTGCATCATCTATAATGAGGATAATGGTATCAAGGCCTTCAGAAACATCCCTGCAATTACTCTGCTTAATGTAA
GCAAGCTGACCATTTTGAAGCTTGCTCCTGGTGGGCACGTGGGACGTTTCTGCATTTGGACTGGAAGTGCTTTCC
GGAAGTTGGATGAATTGTATGGCACTTGGCGTAAAGCCGCTTCCCTCAAGAGTAACTACAATCTTCCCATGCACA
AGATGATTAATACAGATCTTAGCAGAATCTTGAAAAGCCCAGAGATCCAAAGAGCCTTTCGGGCACCAAGCAAGA
AGATTCATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTGAGAATCATGTTGAAGCTAAACCCATATGCAA
AGACCATGCGCCGGAACACCATTCTTCGCCAGGCCAGGAATCACAAAGCTCCGGATGGATAAGGCAGCTGCTGCTG
CAGCAGCACTAGAAGCCAAACCAGATGAGAAGGCGGCGGTTGCAGGCAAGAAGCCTGTGGTAGGTAAGAAAGGAA
AGAAGGCTGCTGTTGGTGTGAAGAAGCAGAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAGAAATCAG
CCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTGTAGAGGAAAAGAAGCCTGCTGCATTAACTCTTAAATTTG
ATTATTCCATAAAGGTCAAATCATTGTGGACAGCTTCTTTTGAATAAAGACCTGATTATACAGGCAGTGAGAAAC
A

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FIGURE 2639

MCRGGRRFAPTKTWRRWHRRVNTTQKRYAICSALAASALPALVMSKGHRIEEVPELPLVVEDKVEGYRKTKEAVL
LLKKLKARNDIKKVYASQRM RAGKGKMRNRRRIQRRGPCIIYNEDNGIKAFRNIPAITLLNVSKLTISK LAPGGH
VGRFCIWTGSAFRKLDELYGTWRKAASLKSNNLPMHKMINTDLSRILKSPEIQRAFRAPSKKIHRVVLKKNPLK
NLRIMLKLN PYAKTMRRNTILRQARNHKL RMDKAAAAAAALEAKPDEKAAVAGKKPVVGKKGKAAVGVKKQKKP
LVGKAAAATKKSAP EKKPAEKKPTVEEKKPAALTLKFDYSIKVKS LWTASFE

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FIGURE 2640

CTGAGTCTTGGGGTACTGGCAGAGCTGTGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCCGGCC
AGGGTGCTTTTGAAACATGTGTCGTGGAGGCCGAAGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTA
GAGTGAACACAACCCAAAAACGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGT
CTAAAGGTCAATCGTATTGAGGAAGTTCCTGAACTTCCTTTGGTAGTCGAAGATAAAGTTGAAGGCTACAGGAAGA
CCAAGGAAGCTGTTTTGCTCCTTAAGAAATCAGCCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTGTAGAGG
AAAAGAAGCCTGCTGCATTAACCTTAAATTTGATTATTCCATAAAGGTCAAATCATTGTGGACAGCTTCTTTTG
AATAAAGACCTGATTATACAGGCAGTGAG

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FIGURE 2641

AGAGCTGTGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCCGGCCAGGGTGCTTTTGGAAACATG
TGTCGTGGAGGCCGAAGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAA
CGGTATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAG
GAAGTTCCTGAACCTCCTTTGGTAGTCGAAGATAAAGTTGAAGGCTACAGGAAGACCAAGGAAGCTGTTTTGCTC
CTTAAGAACTTAAAGCCAGGAACGATATCAAAAAGGCAGCAGCTACCAAGAAATCAGCCCCTGAAAAGAAGCCT
GCAGAAAAGAAACCTACTGTAGAGGAAAAGAAGCCTGCTGCATTAACTCTTAAATTTGATTATTCCATAAAGGTC
AAATCATTGTGGACAGCTTCTTTTGAATAAAGACCTGATTATACAGGC

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FIGURE 2642

AGTGGCGGTGTCTGTGATGGTCCGGAGCGAGGCCTCGGCCAATCTGGGTGGCGTGCCCGAGCGAGATTAAAGATGC
AGTACGCCACGGGGCCACTGCTCAAGTTCCAGATTTGTGTTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACA
TGTGGGTTACTAGCCAGGGGTACCCAGACATCCGTATTGAAGGAGAGAATTACCTCCCTCAACCAATGTATAGAC
ACATAGCATCTTTCTGTCTAGTCTTCAAACCTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTT
TCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTCTATGCATGTATGATGGTTTTCT
TCTTGAGCAACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGT
GGTCTAAGCTGGAATCCGGTCACCTTCCATCCATGCAACAGCTTGTTCAAATTCTTGACAATGAAATGAAGCTCA
ATGTGCATATGGATTCAATCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACCTCTTTTGCATTAAG
GGATCATTTCCAAGAGCAGCTTGACTGACATTATGAAGGCCTGTACTGAAGAGAGCAAGCTGTTAGTACAGACCAA
ATGCTTTCTTAGCATGCTCGTTGTACCTCTTGGAAAACCTCAATGCAAGATAGCTTTTCCGTGCTGGCATATTTT
GGAATTCCTCACATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCACCCCCACACAATCACCCAGTTAATG
TGTGTTTTTTTTTAAGGTAGACATTACTACTTGTAACTTTTTTCCTTAGTCGTATTTGAAAAAGTAGAAAATTGA
GTTACAATTTGATTTTTTTTTTCAAAGATGTCTGTTAAATCTGTTGTGCTTTTATATGAATATTTGTTTTTTATAG
TTTAAAATTCATCCTTTGGGAATCCAGTTGAAGTTCCCAAATACTTTATAAGAGTTTATCAGACATCTCTAATTT
GGCCATGTCCAGTTTATATAGTTTACAAAATACAGCAGATGCAAGATTATGGGGGAAATCCTATATTCAGAGTAC
TCTACAAATTTTTGTGTATGTGTGTATGTGCGTGTGATTACCAGAGAATACTACTAAAAAAACCAACTGCTTTTTAA
ATCCTATTGTGTAGTTCAAGTGTCATGCCTTGACCAATCTAATGAATTGATTAATTAATACTGGGCCTTTTACTTA
ACTAAATAAAAACTAAGCAGATATGAGTT

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FIGURE 2643

CSTPRGHCSSSRFVFPEGYRRVFEEYMWVTSQGYPDIRIEGENYLPQPMYRHIAFSLSVFKLVLIIGLIIVGKDPF
AFFGMQAPSIWQWGQENKVYACMMVFFLSNMIENQCMSTGAFEITLNDVPVWSKLESGHLPSMQQLVQILDNEMK
LNVHMDSIPHHS

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FIGURE 2644

AGTGGCGGTGTCTGTGATGGTCCGGAGCGAGGCCTCGGCCAATCTGGGTGGCGTGCCCAGCGAGATTAAAGATGC
AGTACGCCACGGGGCCACTGCTCAAGTTCAGATTTGTGTTTCCTGAGGTTATAGGCGGGTGTTTGAGGAGTACA
TGTGGGTTACTAGCCAGGGGTACCCAGACATCCGTATTGAAGGAGAGAATTACCTCCCTCAACCAATGTATAGAC
ACATAGCATCTTTCCTGTCAGTCTTCAAAGTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTT
TCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGACCAGTGTATGTCAACAGGTGCATTTGAGATAA
CTTTAAATGATGTACCTGTGTGGTCTAAGCTGGAATCCGGTCACCTTCCATCCATGCAACAGCTTGTTCAAATTC
TTGACAATGAAATGAAGCTCAATGTGCATATGGATTCAATCCCACACCATCGATCATAGCACCACCT

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FIGURE 2645

GGGAGATTAAACCTTGGATTCTAGGTGGTAGAGGATAATTTTTTTTTGAATGAATTTCTTTTTATTATTATT
TATTTTTTTCCTTTTTAGGATAGAATTTTTGCGGCATTTGAAGAGCTTTTCCAGATTATGTTTAAAATTGAAAC
CAAGCCATGTGGTGAAGAACTCAAGGGTGGGGATAAAGTGCTGATGACCTGTGTTGGCATTGGTTTCTCCAACCT
TAGCAAGACCCTCAAGTGATAACCATCACAAAGATAAGGCCCAATGCCTACAGACAAAGCAGAAGCTGCCACGGA
CACCAATGGGACCAAGTCCAAATGGATTAATCCAGGACAGAATAGCCACTTGCTTAATTTTCTGTGAAGAAATAT
CAATATACAAATAAAAAGACATCCCTGTAGCATATGGTTTCCAGCTGTTTCTCCAGTGGCATTGCCATTGCCCAGG
AGGGGCCCAGTCACCATGAGAGCTCCCTTGCCTTACCTGGAGGAAGAATGTGCCTTCAGGCCACAGTCGTGCTGC
TAGAACAGTCTCGTAGCTGCAGTTCAGCTGTGCTTCCCTCAGCCTACTATCATAGGCTTCCTCAGCCCTCTGTCTAT
ATGGCTGTTTTGCAAACCTGTGGAGTCTGTTACTGTTCTTTCTGCAAGGACTCACCTCCTTGAGCCTTGGTTTTT
GTTGTAGGGATTAAATGAGATAATATGAGTGGCAGCTCTTCATGAGTCCTGCAGTGCTAAGCAAATGTCAGAAAT
TGGTGTATTAGACTATTTATCTTTGATCTTCTGAATGGATTGCTGTCTATGGACACGGACACGGATCTTCATCTGG
TTCATTGTATTTATATGTGAGGGATGGATGGCTGCGGGGCTCCAAGAGCAGCCTCCTGAAGTGAGGGTGGCAAGT
ATGTGACAGGGCACCCACAAAGGCAGACAAGGACTCTGAGAACCAACAGGACTTCTCTGGTCTTATTCTGAGGCT
AAGACAAAAACCGCACCTGAGCCAGATCTCTCAGCCTGGCAGCTCCAGGACCCGTGGGCCCTGCCACTGGCCCAT
CTCAACGGCTAGGACCTAGAGCATCATCAAGCTGCAGGTTAAACAGGTTGGTTGGTTCTGATTTGACTGCACCTC
TACAAGGACCTATGGCTGCACTTGTTGATACTTTCCCGAGGAGCCACAACACTGAGCAATGAGGGGAGGAGCATG
TGTTAGTTCATTTCATCAAGTCCTAAATGTTAACTACTATGTGCCAGGTGCTGAGCCAGGCACCAGAGATACCATG
ATGAACAAGACACATAAATCTTACCCTCATTGAGCTTACACCATGTGAAAGAGAAGTATGAAATAATTATACGTT
ATTTTTTTTTTAGTTTTTGAGATGGAGTTTCACTTTTGTCCCCCAGGCTGGAGTGCGGTGGTGTGACCTCAGCTCA
CTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTG
CCACCATGCCTGGCTAAATTTTGTATTTTTAGTAGAGACGGGCTTTTACCCTGTTGGTCAGGCTAGTCTTGAAC
CCTGGCCTCAGGTGATCCTCCACCTTGGCCTCCCAAAGTGCTGGGATTGCAGGCGTGAGCCACGGCACCTCACA
AATTACACATTATTCAACTGTAAGTGTGAAAGTGATTCTAAGGAAAAAGTACAGAGAGCTGTGGGAAAACATAAT
AGGAAATCTTTGTCTATTCTGTCACTATTGTCTATTAGGCTGTCACTGTTGTCTATTGTACCCCCTACCCTCTCGCA
GAGAGTGGTTCCCATTTGCCAGAGCTCATTTATTGTCTGAAGGTCTGTGAAAAGATGACAAAGTCGTGTTGCCT
TCTTTCCACTTTCCCAAGTCTCACGTGAGCACCCCTAACTGGCAGAATCAATTCACACCCACAAGCCTAGCTGCA
AGGGGACCTGGGAAATGTATTCCCAGCTTTCCAACCTCTCCACCCAGGAGATGAAACAGCCAATTTAGGCCAGGT
GCAATGGCTTACACATGTAAAACAGCACTATGGGAGGCTGAGGAGGGAAGATTACTTGAGCCCAGGAGTTTGAG
ACCAGCCTGGACAACAGGGCGAGACCATCATCTCTACAAAAAATACAAAAAAATTAGCTAGGCGTGGTGTCTCTG
TGCCTGTGGTCCCAGCTCCTCAGGAGGCTGAGGCAGGAGGATCGCTTGAGATCGAGGCTGCAGTGAGCCGTGATC
GCGCCACTGCACTCCAGTCTGGGTGACAGCGAGACCCTATCTCAAAAAAG

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FIGURE 2646

CTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCCTGTCTACCCTGAGCGGGCGCCCCGTCAAAATC
CGAAAAGATTCGGGGCCAGAGACGACAACCCGGGCCTCCGAGATTTTGAAGCCAGCTTCATAAGGCTATTGGACAAA
ATAACGAATGGTTCTCGAATTGAAATAAACCAAAACAGGAACAACCTTATATTATCAGCCTGGCCTCCTGTATGGT
GGATCTGTGGAACATGACTGTAGCGTCCTTCGTGGCATTGGGTATTACCTGGAGAGTCTTCTTTGCTTGGCTCCA
TTTATGAAGCACCCGTTAAAAATAGTTCTACGAGGAGTGACCAATGATCAGGTTGACCCTTCAGTTGATGTTCTT
AAGGCAACAGCACTCCCTTTGTTGAAACAATTTGGGATTGATGGTGAATCATTGAACTGAAGATTGTGCGACGG
GGAATGCCTCCCGGAGGAGGAGGCGAAGTGGTTTTCTCATGTCTGTGAGGAAGGTCTTGAAGCCCATTCAACTC
ACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTACGTGTGTACCTCAGATGGCGAACCGG
ATTGTGGATTCTGCAAGGAGCATCCTCAACAAGTTCATACCTGATATCTATATTTACACAGATCACATGAAAGGA
GTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGACCACCAAGTGGCACCTTCCTCAGTGCT
GAACTGGCCTCCAACCCCCAGGGCCAGGGAGCAGCAGTACTTCCAGAGGACCTTGGCAGGAACTGTGCCCCGGCTG
CTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAAGCCTGGCGCTACTACTCATGACCCTT
GGACAGCAGGATGTTTCCAAAGTCCTGCTAGGCCCTCTCTCTCCCTACACGATAGAATTTTTGCGGCATTTGAAG
AGCTTTTTCCAGATTATGTTTTAAATTGAAACCAAGCCATGTGGTGAAGAACTCAAGGGTGGGGATAAAGTGCTG
ATGACCTGTGTTGGCATTGGTTTTCTCAACCTTAGCAAGACCCTCAAGTGATAACCATCACAAAGATAAGGCCCCA
ATGCCTACAGACAAAGCAGAAGCTGCCACGGACACCAATGGGACCAAGTCCAAATGGATTAATCCAGGACAGAAT
AGCCACTTGCTTAATTTTCTGTGAAGAAATATCAATATACAAATAAAAGACATCCCTGTAGCATATGGTTTCCAG
CTGTTTCTCCAGTGGCATTGCCATTGCCCAGGAGGGGGCCAGTCACCATGAGAGCTCCCTTGCCCTTACCTGGAGG
AAGAATGTGCCTTCAGGCCACAGTCGTGCTGCTAGAACAGTCTCGTAGCTGCAGTTCAGCTGTGCTTCCTCAGCC
TACTATCATAGGCTTCCTCAGCCCTCTGTATATGGCTGTTTTGCAAACCTGTGGAGTCTGTTACTGTTCTTTCT
GCAAGGACTCACCTCCTTGAGCCTTGGTTTTTGTGTAGGGATTAAATGAGATAATATGAGTGGCAGCTCTTCAT
GAGTCCTGCAGTGCTAAGCAAATGTCAGAAATTGGTGTATTAGACTATTTATCTTTGATCTTCTGAATGGATTGC
TGTCATGGACACGGACACGGATCTTCATCTGGTTCATTGTATTTATATGTGAGGGATGGATGGCTGCGGGGCTCC
AAGTAAGTTATTGGGATGTTTTTATATTCCAGGTGTGCTGTACATTCTTATTTTATTTTACAAATAGCTCTGTGA
TGTAAGTGCTATCTCCATGAGAAAATTCATAAAGGGTGTTCCTTTGAAATGTATAATGTAAAGACATTAA
ATCTCCTCATTTA

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FIGURE 2647

CGCCGCAGCTCCAGCGCCGCGCAGCAGCCGCCGCCGCCCTCTCCTTAGTCACTGCCATGACGACCGCGTCCAC
CTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTACAC
CTCCTACCTTTACCTGTCCACGTCTTACTACTTTGACCTCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTT
TCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGTTGAAGCTGCAGAACCAACGAGGTGGCCGAAT
CCTTCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGTGGGCTGAATGCGATGGAGTGTGCACTACA
TTTGGAATAAATGTGTATCAGTCACCACTGGAAGTGCACAAACCGGCCACTGACAAAAATGCCATCAAAGAATG
GGGTGACCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTTGGCAGAATATCTCTTTGACAAGCA
CTCCCTGGGAGACAGTGATAATGAAAGCTAAGCCTCAGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCTGGT
CACCAAGGCAGTGCATGCATGTTGGG

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FIGURE 2648

MTTASTSQVRQNYHQDSEAAINRQINLELYTSYLYLSTSYFDLDDVALKNFAKYFLHQSHREHAEKLLKLQN
QRGGRIILLQDIKKPCDDWESGLNAMECALHLEKNVYQSPLELHKPATDKNAIKEWGDHVTNLCKMGAPESGLAE
YLFDKHSLGSDNES

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FIGURE 2649

ATGGCATCCGTTGCAGTTGATCCACAACCGAGTGTGGTGACTCGGGTGGTCAACCTGCCCTTGGTGAGCTCCACG
TATGACCTCATGTCCTCAGCCTATCTCAGTACAAAGGACCAGTATCCCTACCTGAAGTCTGTGTGTGAGATGGCA
GAGAACGGTGTGAAGACCATCACCTCCGTGGCCATGACCAGTGCTCTGCCCATCATCCAGAAGCTAGAGCCGCAA
ATTGCAGTTGCCAATACCTATGCCTGTAAGGGGCTAGACAGGATTGAGGAGAGACTGCCTATTCTGAATCAGCCA
TCAACTCAGATTGTTGCCAATGCCAAAGGCGCTGTGACTGGGGCAAAAGATGCTGTGACGACTACTGTGACTGGG
GCCAAGGATTCTGTGGCCAGCACGATCACAGGGGTGATGGACAAGACCAAAGGGGCAGTGACTGGCAGTGTGGAG
AAGACCAAGTCTGTGGTCAGTGGCAGCATTAAACACAGTCTTGGGGAGTCGGATGATGCAGCTCGTGAGCAGTGGC
GTAGAAAATGCACCTCACCAAATCAGAGCTGTTGGTAGAACAGTACCTCCCTCTCACTGAGGAAGAACTAGAAAAA
GAAGCAAAAAAAGTTGAAGGATTTGATCTGGTTCAGAAGCCAAGTTATTATGTTAGACTGGGATCCCTGTCTACC
AAGCTTCACTCCCGTGCCTACCAGCAGGCTCTCAGCAGGGTTAAAGAAGCTAAGCAAAAAAGCCAACAGACCATT
TCTCAGCTCCATTCTACTGTTACCTGATTGAATTTGCCAGGAAGAATGTGTATAGTGCCAATCAGAAAATTCAG
GATGCTCAGGATAAGCTCTACCTCTCATGGGTAGAGTGGAAAAGGAGCATTGGATATGATGATACTGATGAGTCC
CACTGTGCTGAGCAATTTGAGTCACGTACTCTTGCAATTGCCCCGAACCTGACTCAGCAGCTCCAGACCACGTGC
CACACCCTCCTGTCCAACATCCAAGGTGTACCACAGAACATCCAAGATCAAGCCAAGCACATGGGGGTGATGGCA
GGCGACATCTACTCAGTGTTCGCAATGCTGCCTCCTTTAAAGAAGTGTCTGACAGCCTCCTCACTTCTAGCAAG
GGGCAGCTGCAGAAAATGAAGGAATCTTTAGATGACGTGATGGATTATCTTGTTAACAACACGCCCCCTCAACTGG
CTGGTAGGTCCCTTTTATCCTCAGCTGACTGAGTCTCAGAATGCTCAGGACCAAGGTGCAGAGATGGACAAGAGC
AGCCAGGAGACCCAGCGATCTGAGCATAAAACTCAT**TAA**

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FIGURE 2650

MASVAVDPQPSVVTRVNLPLVSSTYDLMSSAYLSTKDQYPYLKSVCEMAENGVKTIITSVAMTSALPIIQKLEPO
IAVANTYACKGLDRIEERLPILNQBSTQIVANAKGAVTGAKDAVTTTGTGAKDSVASTITGVMDKTKGAVTGSVE
KTKSVVSGSINTVLGSRMMQLVSSGVENALTKSELLVEQYLPLTEEELEKEAKKVEGFDLVQKPSYYVRLGSLST
KLHSRAYQQALSRVKEAKQKSQQTISQLHSTVHLIEFARKNVYSANQKIQDAQDKLYLSWVEWKRSIGYDDTDES
HCAEQFESRTLAIARNLTQQQLQTTCHTLLSNIQGV PQNIQDQAKHMGVMAGDIYSVFRNAASFKEVSDSLLTSSK
GQLQKMKESLDDVMDYLVNNTPLNWLVGPFYPQLTESQNAQDQGAEMDKSSQETQRSEHKTH

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FIGURE 2651

CCTCTTTTCCGTGGCGCCTCGGAGGCGTTTCAGCTGCTTCAAGATGAAGCTGAACATCTCCTTCCCAGCCACTGGC
TGCCAGAACTCATTGAAGTGGACGATGAACGCAAACCTTCGTACTTTCTATGAGAAGCGTATGGCCACAGAAGTT
GCTGCTGACGCTCTGGGTGAAGAATGGAAGGGTTATGTGGTCCGAATCAGTGGTGGGAACGACAAACAAGGTTTC
CCCATGAAGCAGGGTGTCCTTGACCCATGGCCGTGTCCGCCTGCTACTGAGTAAGGGGCATTCTGTGTACAGACCA
AGGAGAACTGGAGAAAGAAAGAGAAAATCAGTTCGTGGTTGCATTGTGGATGCAAATCTGAGCGTTCTCAACTG
GTTATTGTAAAAAAGGAGAGAAGGATATTCCTGGACTGACTGATACTACAGTGCCTCGCCGCCTGGGCCCCAAA
AGAGCTAGCAGAATCCGCAAACCTTTCAATCTCTCTAAAGAAGATGATGTCCGCCAGTATGTTGTAAGAAAGCCC
TTAAATAAAGAAGGTAAGAAACCTAGGACCAAAGCACCCAAGATTACAGCGTCTTGTTACTCCACGTGTCCTGCAG
CACAAACGGCGGCGTATTGCTCTGAAGAAGCAGCGTACCAAGAAAAATAAAGAAGAGGCTGCAGAAATATGCTAAA
CTTTTGGCCAAGAGAATGAAGGAGGCTAAGGAGAAGCGCCAGGAACAAATTGCGAAGAGACGCAGACTTTCCTCT
CTGCGAGCTTCTACTTCTAAGTCTGAATCCAGTCAGAAATAAGATTTTTTGAGTAACAAATAAATAAGATCAGAC
TCTG

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FIGURE 2652

MKLNISFPATGCQKLI EVDDERKLRTFYEKRMATEVAADALGEEWKGYVVRISGGNDKQGFPMKQGVLT HGRVRL
LLSKGHSCYRPRRTGERKRKSVRGCIVDANLSVLNLVIVKKGEKDIPGLTDTTVPRRLGPKRASRIRKLFNLSKE
DDVRQYVVRKPLNKEGKKPRTKAPKIQRLVTPRVLQHKRRRIALKKQRTKKNKEEAAEYAKLLAKRMKEAKEKRQ
EQIAKRRRLSSLRASTSKSESSQK

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FIGURE 2653

CCTCCCTACGGGCGCCTCCGGCAGCCCTTCCCGCGTGCGCAGGGGCTCAGAGCCGTTCCGAGATCTTGGAGGTCCG
GGTGGGAGTGGGGGTGGGGTGGGGGTGGGGGTGAAGGTGGGGGGCGGGCGCGCTCAGGGAAGGCGGGTGC GCGCC
TGCGGGGCGGAGATGGGGCAGGGGGCGGTGCGTGGGTCCCAGTCTGCAGTTAAGGGGGCAGGAGTGGCGCTGCTCA
CCTCTGGTGCCAAAGGGCGGCGCAGCGGTGCCGAGCTCGGCCCTGGAGGCGGCGAGAACATGGTGCGCAGGTTT
TTGGTGACCCCTCCGGATTTCGGCGCGCGTGCGGCCCCGCCGCGAGTGAGGGTTTTTCGTGGTTACATCCCGCGGCTC
ACGGGGGAGTGGGCAGCGCCAGGGGGCGCCCGCCGCTGTGGCCCTCGTGCTGATGCTACTGAGGAGCCAGCGTCTA
GGGCAGCAGCCGCTTCCTAGAAGACCAGGTTCATGATGATGGGCAGCGCCCGAGTGGCGGAGCTGCTGCTGCTCCA
CGGCGCGGAGCCCCAACTGCGCCGACCCCGCCACTCTCACCCGACCCGTGCACGACGCTGCCCCGGGAGGGCTTCCT
GGACACGCTGGTGGTGCTGCACCGGGCCGGGGCGCGGCTGGACGTGCGCGATGCCTGGGGCCGTCTGCCCGTGGGA
CCTGGCTGAGGAGCTGGGCCATCGCGATGTGCGACGGTACCTGCGCGCGGCTGCGGGGGGCACCAGAGGCAGTAA
CCATGCCCCGATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAGAACCAGAGAGGCTCTGAGAAACC
TCGGGAAACTTAGATCATCAGTCACCGAAGGTCCCTACAGGGCCACAACCTGCCCCGCCACAACCCACCCCGCTTT
CGTAGTTTTTCATTTAGAAAATAGAGCTTTTAAAAATGTCCTGCCTTTTAACTAGATATATGCCTTCCCCCTA
CCGTAAATGTCCATTTATATCATTTTTTTATATATTCTTATAAAAAATGTAAAAAAGAAAAACACCGCTTCTGCCTT
TTCCTGTGTTGGAGTTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTCATGTGGGCATTTCTTGCGAGCC
TCGCAGCCTCCGGAAGCTGTCGACTTCATGACAAGCATTTTGTGAACTAGGGAAGCTCAGGGGGGTTACTGGCTT
CTCTTGAGTCACACTGCTAGCAAATGGCAGAACCAAAGCTCAAATAAAAATAAAATAATTTTCATTCACTCACTC

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FIGURE 2654

MGRGRCVGPSLQLRGQEWRCSPVLPKGGAAAAELGPGGGENMVRRLVTLRIRACGPPRVRFVVHIPRLTGEW
AAPGAPAAVALVLMLLRSQRLGQQPLPRRPGHDDGQRPSGGAAAAPRRGAQLRRPRHSHPTRARRCPGGLPGHAG
GAAPGRGAAGRARCLGPSARGPG

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FIGURE 2655

CCCAACCTGGGGCGACTTCAGGTGTGCCACATTCGCTAAGTGCTCGGAGTTAATAGCACCTCCTCCGAGCACTCG
CTCACGGCGTCCCCTTGCTGGAAAGATAACGCGGTCCCTCCAGAGGATTTGAGGGACAGGGTCGGAGGGGGCTC
TTCCGCCAGCACCGGAGGAAGAAAGAGGAGGGGCTGGCTGGTCACCAGAGGGTGGGGCGGACCGCGTGCCTCGG
CGGCTGCGGAGAGGGGGAGAGCAGGCAGCGGGCGGCGGGGAGCAGC**ATG**GAGCCGGCGGCGGGGAGCAGCATGGA
GCCTTCGGCTGACTGGCTGGCCACGGCCGCGGCCCCGGGGTTCGGGTAGAGGAGGTGCGGGCGCTGCTGGAGGCGGG
GGCGCTGCCCCAACGCACCGAATAGTTACGGTCGGAGGCCGATCCAGGTCATGATGATGGGCAGCGCCCGAGTGGC
GGAGCTGCTGCTGCTCCACGGCGCGGAGCCCCAACTGCGCCGACCCCGCCACTCTCACCCGACCCGTGCACGACGC
TGCCCGGGAGGGCTTCCTGGACACGCTGGTGGTGTGCTGCACCGGGCCGGGGCGCGGCTGGACGTGCGCGATGCCGTG
GGGCCGTCTGCCCGTGGACCTGGCTGAGGAGCTGGGCCATCGCGATGTCGCACGGTACCTGCGCGCGGCTGCGGG
GGGCACCAGAGGCAGTAACCATGCCCAGATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGAT**TGAA**AAGAACCA
GAGAGGCTCTGAGAAACCTCGGGAACTTAGATCATCAGTCACCGAAGGTCCCTACAGGGCCACAACCTGCCCCCGC
CACAACCCACCCCGCTTTCGTAGTTTTTCATTTAGAAAATAGAGCTTTTAAAAATGTCCTGCCTTTTAAACGTAGAT
ATATGCCTTCCCCCACTACCGTAAATGTCCATTTATATCATTTTTTTATATATTCTTATAAAAATGTAAAAAAGAA
AAACACCGCTTCTGCCTTTTCACTGTGTTGGAGTTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTCATGT
GGGCATTTCTTGCGAGCCTCGCAGCCTCCGGAAGCTGTCGACTTCATGACAAGCATTTTGTGAACTAGGGGAAGCT
CAGGGGGGTTACTGGCTTCTCTTGAGTCACACTGCTAGCAAATGGCAGAACCAGCTCAAATAAAAAATAAAATA
ATTTTCATTCATTCATC

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FIGURE 2656

MEPAAGSSMEPSADWLATAAARGRVEEVRALEAGALPNAPNSYGRRPIQVMMMG SARVAELLLLHGAEPNCADP
ATLTRPVHDAAREGFLDTLVVLHRAGARLDVRDAWGRLPVDLAEELGHRDVARYLRAAAGGTRGSNHARIDAAEG
PSDIPD

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FIGURE 2657

TGTGTGGGGGTCTGCTTGGCGGTGAGGGGGCTCTACACAAGCTTCCTTTCCGTCATGCCGGCCCCACCCTGGCT
CTGACCATTCTGTTCTCTCTGGCAGGTCATGATGATGGGCAGCGCCGAGTGGCGGAGCTGCTGCTGCTCCACGG
CGCGGAGCCCAACTGCGCCGACCCCGCCACTCTCACCCGACCCGTGCACGACGCTGCCCGGGAGGGCTTCCTGGA
CACGCTGGTGGTGCTGCACCGGGCCGGGGCGCGGCTGGACGTGCGCGATGCCTGGGGCCGTCTGCCCGTGGACCT
GGCTGAGGAGCTGGGCCATCGCGATGTCGCACGGTACCTGCGCGCGGCTGCGGGGGGCACCAGAGGCAGTAACCA
TGCCCGCATAGATGCCGCGGAAGGTCCCTCAGACATCCCCGATTGAAAGAACCAGAGAGGCTCTGAGAAACCTCG
GGAAACTTAGATCATCAGTCACCGAAGGTCCTACAGGGCCACAACCTGCCCCCGCCACAACCCACCCCGCTTTCGT
AGTTTTCATTTAGAAAATAGAGCTTTTAAAAATGTCCTGCCTTTTAACGTAGATATAAGCCTTCCCCACTACCG
TAAATGTCCATTTATATCATTTTTTATATATTCTTATAAAAATGTAAAAAAGAAAAACACCGCTTCTGCCTTTTC
ACTGTGTTGGAGTTTTCTGGAGTGAGCACTCACGCCCTAAGCGCACATTTCATGTGGGCATTTCTTGCGAGCCTCG
CAGCCTCCGGAAGCTGTCGACTTCATGACAAGCATTTTGTGAAGTAGGGAAGCTCAGGGGGGTACTGGCTTCTC
TTGAGTCACACTGCTAGCAAATGGCAGAACCAGCTCAAATAAAAATAAAATAATTTTCATTCATTCACTC

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FIGURE 2658

MMGSGARVAELLLLHGAEPNCADPATLTRPVHDAAREGFDTLVVLHRAGARLDVRDAWGRLPVDLAEELGHRDV
ARYLRAAAGGTRGSNHARIDAAEGPSDIPD

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FIGURE 2659

GCAGTAGTGCTAGCGGCTTCACGGTTCGGTCCTCGGACCCGGCAGCCGCCACTGGTGCTGAGCTGTTAGGAAGCC
CCTATCGGCGAGCTCATTGGAGCTTGAACCCATTGTACCCCTCCGACTCACCGGCAAAAAAAAAAAAAAAAAAAT
GGTTGAAGCAGATTGCCCAGGAAAGCCGTTCACTGGTGGGCTTAACACGGAAACAAATGAGAAAGCTCTTGAAGC
AGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGGTGAAAGACCATGAAACCAACAAATCAGGAGGATT
TGCTTTTGTACCTTTGAAAGCCCAGCAGATGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGG
AAAAGCCATCGAGGTGGAACAAGCCAACAAACCATCATTTGAAAGTGGTAGACGTGGACCGCTCCACCTCCAAG
AAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACAAGGGGACCTCCCTCACGGGG
AGGACACATGGATGACGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACATCCAGTAAAAAG
AGGACCACCACCAAGAAGTGGGAGTCTCTCTTAAGAGATCTGCACCTTCAGGACCAGTTCGCAGTAGCAGTGA
AATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACGGAGGTCCACCTCGAAGGGAAGTGTGCCCTC
TTGTAGAAATGATTATTTGTCCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCC
AAGTTCTCATGATACTAGAGCTTATGCACCACCACCAGAGATTATACTTACCGTGATTATGGTCATTCCAGTTC
ACGTGTTGACTATCCATAAAGAGGCTATAGCGATAGAGATAGATATGGTCGTGATCATGACTATTCAGATCATCC
AGGTGGAGGTTCCACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACACGAGGGCCCCC
ACCATCTTATGGTGGAAAGCAGTCGCTATGATGATTACAGCAGCTCATGTGACGGATATGGTGGAAAGTCGAGACAG
TTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGAGGGCTTACCCC
TTCTATGGAAAGAGGATACCCTCCTCCACGTGATTCTTACAGCAGTTCAAGTGCGGAGCACCAAGCGGTGGTGGC
TGTGGAGGAAGCCGATCTGATAGAGGGGGAGGTAGAAGCAGATACTAGAAACAAACAAAACCTTTGGACCAAAATC
CCAGTTCAAAGAAACAAAAGTGGAAGCTATTCTATCATAACTACCCAAGGACTACTAAAAGGAAAAAATTGTGTT
ACTTTTTAAAAATTCCCTGTAAAGTTCCCCTCCATAATTTTTATGTTCTTGTGAGGAGAAAAAGTAAAAACATGTTT
AATTTTATTTTGACTTTTGCATTGCTTTTCAACAAGCAAACGTTAAATGTGTTAAGACTTGTACTGGTGTGTAA
CTTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTTCCCAGTAAATGAGGCAGGCAATTCTAAG
ATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAAGCTAGCTATTAG
AGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAAGGTGTCTTCCAAGTAAATCTCAATGTTTTTCAAGTATGAAA
AACCTGAAATCACATGCCTTTGTAAGGAAAGTGCTATTACCCAGTAAACCCAAAAAAGCAAATGGATGATGCTG
GCCATTTTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCCTCCCTTTCCCCCTCCCCCAATAAGACCATT
AAGTGTGTGTTAAACAACACTACAGAATACTAAATAAAAAAGTTTGGCCAAAACC

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FIGURE 2660

CGGTAAC TACCCCGGCTGCGCACAGCTCGGCGCTCCTTCCCGCTCCCTCACACACCGCCTCAGCCCGCACCCGGCA
GTAGAAG **ATGGT**GAAAGAAACAACCTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAA
AAAGGCTTATAGGAAACTGGCCTTGAAGTACCATCCTGATAAGAACCCAAATGAAGGAGAGAAAGTTTAAACAGAT
TTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAA
AGAGGGTGGAGCAGGTGGCGGTTTTTGGCTCCCCCATGGACATCTTTGATATGTTTTTTGGAGGAGGAGGAAGGAT
GCAGAGAGAAAAGGAGAGGTAAAAATGTTGTACATCAGCTCTCAGTAACCCTAGAAGACTTATATAATGGTGCAAC
AAGAAAAC TGGCTCTGCAAAAGAATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAGA
GTGCTGTCCCAATTGCCGAGGTACTGGAATGCAATAAGAATTCATCAGATAGGACCTGGAATGGTTCAGCAAAT
TCAGTCTGTGTGCATGGAGTGCCAGGGCCATGGGGAGCGGATCAGTCCTAAAGATAGATGTAAAAGCTGCAACGG
AAGGAAGATAGTTTCGAGAGAAGAAAATTTTAGAAGTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAAC
ATTCCATGGTGAAGGAGACCAAGAACCAGGACTGGAGCCAGGCGATATTATCATTGTGTTAGATCAGAAGGACCA
TGCTGTTTTTTACTCGACGAGGAGAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCTT
CCAGAAGCCAATATCTACTCTTGACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGG
AGATATCAAGTGTGTACTAAATGAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTCGCCTAATCATCGA
ATTTAAGGTAAACTTTTCTGAGAATGGCTTTCTCTCTCCTGATAAACTGTCTTTGCTGGAAAACTCCTACCCGA
GAGGAAGGAAGTGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACG
GCGCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCCAGAGGTGGTGTTCAGTGTGACACCTCT**TA**
ATGGCCAGTGAATAACACTCACTGCTGGCATTTAATGTGCAGTAGTGAATGAGTGAAGGACTGTAATCATAATAT
GCTCACTACTTGCTCTTGTTTTTGTTTTAATAAACTATAGTAGTGTATAAAAAGTTAAATGAAGAATAAACGCA
AATATAAAAGCTC

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FIGURE 2661

MVKETTYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEG
GAGGGFGSPMDIFDMFFGGGGRMQRRERGKNVVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECC
PNCRGTMQIRIHQIGPGMVQQIQSVCMECQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGQKITFH
GEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI
KCVLNEGMPYRRPYEKGRLLIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRRH
YNGEAYEDDEHHPRGGVQCQTS

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FIGURE 2662

TAGTCGGGCGGGGTTGTGAGACGCCGCGCTCAGCTTCCATCGCTGGGCGGTCAACAAGTGCGGGCCTGGCTCAGC
GCGGGGGGGCGCGGAGACCGCGAGGCGACCGGGAGCGGCTGGGTTCCCGGCTGCGCGCCCTTCGGCCAGGCCGGG
AGCCGCGCCAGTCGGAGCCCCCGGCCAGCGTGGTCCGCTCCCTCTCGGCGTCCACCTGCCCGGAGTACTGCCA
GCGGGCATGACCGACCCACCAGGGGCGCCGCCCGCGCTCGCAGGCCGCGGATGAAGAAAGAAAACCCGGCGCC
GCTCGACCCGGAGCGAGGAGTTGACCCGGAGCGAGGAGTTGACCCTGAGTGAGGAAGCGACCTGGAGTGAAGAGG
CGACCCAGAGTGAGGAGGCGACCCAGGGCGAAGAGATGAATCGGAGCCAGGAGGTGACCCGGGACGAGGAGTCGA
CCCGGAGCGAGGAGGTGACCAGGGAGGAAATGGCGGCAGCTGGGCTCACCGTGACTGTACCCACAGCAATGAGA
AGCACGACCTTCATGTTACCTCCCAGCAGGGCAGCAGTGAACCAGTTGTCCAAGACCTGGCCCAGGTTGTTGAAG
AGGTCATAGGGGTTCCACAGTCTTTTCAGAACTCATATTTAAGGGAAAATCTCTGAAGGAAATGGAAACACCGT
TGTCAGCACTTGGAATACAAGATGGTTGCCGGGTCATGTTAATTGGGAAAAGAAGAGTCCACAGGAAGAGGTTG
AACTAAAGAAGTTGAAACATTTGGAGAAGTCTGTGGAGAAGATAGCTGACCAGCTGGAAGAGTTGAATAAAGAGC
TTACTGGAATCCAGCAGGGTTTTCTGCCCAAGGATTTGCAAGCTGAAGCTCTCTGCAAACCTGATAGGAGAGTAA
AAGCCACAATAGAGCAGTTTATGAAGATCTTGAGGAGATTGACACACTGATCCTGCCAGAAAATTTCAAAGACA
GTAGATTGAAAAGGAAAGGCTTGGTAAAAAAGGTTTCAGGCATTCCTAGCCGAGTGTGACACAGTGGAGCAGAACA
TCTGCCAGGAGACTGAGCGGCTGCAGTCTACAACTTTGCCCTGGCCGAGTAGAGGTGTAGCAGAAAAAGGCTGTG
CTGCCCTGAAGAATGGCGCCACCAGCTCTGCCGTCTCTGGATCGGAATTTACCTGATTTCTTCAGGGCTGCTGGG
GGCAACTGGCCATTTGCCAATTTTCTACTCTCACACTGGTTCTCAATGAAAAATAGTGTCTTTGTGATTGAGT
AAAGCTCCTATTCTGTTTTTTCACAAAAA

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FIGURE 2663

LAQRGGARRPRGDRERLGSRLRALRPGREPRQSEPPAQRGPPPSRRPPARSTASGHDRPTRGAAAGARRPRMKKK
TRRRSTRSEELTRSEELTLSEEATWSEEATQSEEATQGEEMNRSQEVTRDEESTRSEEVTREEMAAAGLTVTVTH
SNEKHDLHVTSSQGSSEPVVQDLAQVVEEVIGVPQSFQKLIFKGKSLKEMETPLSALGIQDGCRVMLIGKKNSPQ
EEVELKKLKHLEKSVEKIADQLEELNKELTGIQQGFLPKDLQAEALCKLDRRVKATIEQFMKILEEIDTLILPEN
FKDSRLKRKGLVKKVQAF LAECDTVEQNICQETERLQSTNFALAE.

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FIGURE 2664

GGGGAAGTCGAGGCGGGAGTGACTCTGCTTCCGTTTCTGGTTTTGCTCTAGTGTTTGGGTTTTCTTCGCGGCTGCT
CAAG**ATGA**AACCGACTCTTCGGGAAAGCGAAACCCAAGGCTCCGCCGCCAGCCTGACTGGCTGCATTGGCACGGT
GGACAGTAGAGCAGAATCCATTGACAAGAAGATTTCTCGATTGGATGCTGAGCTAGTGAAGTATAAGGATCAGAT
CAAGAAGATGAGAGAGGGTCTTGCAAAGAATATGGTCAAGCAGAAAGCCTTGCGAGTTTTAAAGCAAAAGAGGAT
GTATGAGCAGCAGCGGGACAATCTTGCCCAACAGTCATTCAACATGGAACAAGCCAATTATACCATCCAGTCTTT
GAAGGACACCAAGACCACGGTTGATGCTATGAAACTGGGAGTAAAGGAAATGAAGAAGGCATACAAGCAAGTGAA
GATCGACCAGATTGAGGATTTACAAGACCAGCTAGAGGATATGATGGAAGATGCAAATGAAATCCAAGAAGCACT
GAGTCGCAGTTATGGCACCCCAGAACTGGATGAAGATGATTTAGAAGCAGAGTTGGATGCACTAGGTGATGAGCT
TCTGGCTGATGAAGACAGTTCTTATTTGGATGAGGCAGCATCTGCACCTGCAATTCCAGAAGGTGTTCCCACTGA
TACAAAAAACAAGGATGGAGTTCTGGTGGATGAATTTGGATTGCCACAGATCCCTGCTTCA**TAGA**TTTGCATCAT
TCAAGCATATCTTGTAATAACAAACACATATTATGGGACTAGGAAATATTTATCTTTCCAAATTTGCCATAACAGA
TTTAGGTTTCTTTCCTTTCTTTGAAGGAAAGTTTAATTACATTGCTCTTTTATTTTTTCCATTAAGAGACTCATT
GCTTGGGAAATGCTTTCTTCGTACTAAAATTTGATTCCTTTTTTTTCTTATGAAAAACGAACTCAGTTTAAAAGTA
TTTTTAGCTCGTATGACTTGTTTTCATTCATTAATAATAATTTGAAATAAAACTAAGGAAATGGAATCTTAAAAG
TCTATGACAGTGTAACCTCTACAGTCTCAAAATGACCTGATAAATTGATAAGACAAAGATGAGATTATTGGGGCTG
TTCATATTATGATTCAGAATCATTTTCTATTGTGGTATTATAGGTTGGTTAAAGTGATGGCCTTTTTTGATGGGTT
TTGTTGTGCTTGTGAACAAGTCGTTACTGTGTCCATTATTGGAATGGAATTATCACTACTGTATCATGAGTGGG
TATTTTGATTCTATGGTTCCCTCAGTATTACATCTTGACTTGTAATCAATTATGAATATTTCTTGATATTTAATG
TATAGGACATTTATTTATACTCAATAAATATTTTTTCAAAAGGAAAAAAAAAAAAAAAAATCAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 2665

MNRLFGKAKPKAPPPSLTGCIGTVDSRAESIDKKISRLDAELVKYKDQIKKMREGPAKNMVKQKALRVLKQKRMV
EQQRDNLAQQSFNMEQANYTIQSLKDTKTTVDAMKLGVKEMKKAYKQVKIDQIEDLQDQLEDMMEDANEIQEALS
RSYGTPELDEDDLEAELDALGDELLADEDESSYLDEAASAPAIPEGVPTDTKNKDGVLVDEFGLPQIPAS

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FIGURE 2666

TGCTCGCTGCGCCACCGCCTCCCGCCACCCCTGCCCCGCCCCGACAGCGCCGCGCCCTGCCCCGCCATGGGTTCGACA
GAAGGAGCTGGTGTCCCGCTGCGGGGAGATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGCCGAGTG
CCTGGGGACCCTCATCCTGGTGATGTTTGGCTGTGGCTCCGTGGCCAGGTTGTGCTCAGCCGGGGCACCCACGG
TGGTTTCCTCACCATCAACCTGGCCTTTGGCTTTGCTGTCACTCTGGGCATCCTCATCGCTGGCCAGGTCTCTGG
GGCCACCTGAACCCTGCCGTGACCTTTGCCATGTGCTTCCCTGGCTCGTGAGCCCTGGATCAAGCTGCCCATCTA
CACCTTGGCACAGACGCTGGGAGCCTTCTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAATCTGGCA
CTTCGCCGACAACCAGCTTTTTGTTTTCGGGCCCCAATGGCACAGCCGGCATCTTTGCTACCTACCCCTCTGGACA
CTTGATATGATCAATGGCTTCTTTGACCAGTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGT
TGACCCCTACAACAACCCCGTCCCCCGAGGCCTTGAGGCCTTCACCGTGGGCCTGGTGGTCTCTGGTCATTGGCAC
CTCCATGGGCTTCAACTCCGGCTATGCCGTCAACCTGCCCCGGGACTTTGGCCCCCGCCTTTTTACAGCCCTTGC
GGGCTGGGGCTCTGCAGTCTTCACGACCGGCCAGCATTGGTGGTGGGTGCCATCGTGTCCCCACTCCTGGGCTC
CATTGCGGGTGTCTTCGTGTACCAGCTGATGATCGGCTGCCACCTGGAGCAGCCCCACCCCTCCAACGAGGAAGA
GAATGTGAAGCTGGCCCATGTGAAGCACAAGGAGCAGATCTTGAGTGGGCAGGGGCCATCTCCCCACTCCGCTGCC
CTGGCCTTGAGCATCCACTGACTGTCCAAGGGCCACTCCAAGAAGCCCCCTTCACGATCCACCCTTTCAGGCTA
AGGAGCTCCCTATCTACCCTCACCCCACGAGACAGCCCTTCAGGATTTCCACTGGACCTTGCCCAAATAGCACC
TTAGGCCACTGCCCCTAAGCTGGGGTGGAACCGGAATTTGGGTCAATACATCCTTTTGTCTCCCAAGGGAAGAGA
ATGGGCAGCAGGTATGTGTGTGTGTGCATGTGTGTGCATGTGTGTGCATGTGTGTGCAGGGGTGTGTGTGTGTGG
GGGGGTTCCCAGATATTACAGGGCAAGGGACCAGTCGGAAGGGATTCTGGCTATTGGGGGAGCCCAGAGACAGGG
GAAGGCAGCCTGTCCATCTGTGCATAAGGAGAGGAAAGTCCAGGGTGTGTATGTTTCAGGGGCTTCACATGGAG
GAGCTGCAGATAGATATGTGTTTCT

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FIGURE 2667

MGRQKELVSRGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVVL SRGTHGGFLTINLAFGFAVTLGILIAG
QVSGAHLNPAVTFAMCFLAREPWIKLP IYTLAQTLGAFLGAGIVFGLYYDAIWHFADNQLFVSGPNGTAGIFATY
PSGHLDMINGFFDQFIGTASLIVCVLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLF
TALAGWGS AVFTTGQHWWVPIVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVKHKEQI

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FIGURE 2668

GGCACGAGGGAGGCGGCGGCTCCAGCCGGCGCGGCGGAGGCTCGGCGGTGGGATCCGGCGGGCGGTGCTAGCTC
CGCGCTCCCTGCCTCGCTCGCTGCCGGGGGCGGTTCGGAAGGCGCGGCGCGAAGCCCCGGGTGGCCCGAGGGCGCGA
TGGCTGCTCCTGTCCCGTGGGCCTGCTGTGCTGTGCTTGCCGCGCCGCGCCGAGTTGTCTACGCCCAGAGACACA
GTCCACAGGAGGCACCCCATGTGCAGTACGAGCGCCTGGGCTCTGACGTGACACTGCCATGTGGGACAGCAAACCT
GGGATGCTGCGGTGACGTGGCGGGTAAATGGGACAGACCTGGCCCCCTGACCTGCTCAACGGCTCTCAGCTGGTGC
TCCATGGCCTGGAACCTGGGCCACAGTGGCCTCTACGCCTGCTTCCACCGTGACTCCTGGCACCTGCGCCACCAAG
TCCTGCTGCATGTGGGCTTGCCGCGCGGGGAGCCTGTGCTCAGCTGCCGCTCCAACACTTACCCCAAGGGCTTCT
ACTGCAGCTGGCATCTGCCCCACCCACCTACATTCCCAACACCTTCAATGTGACTGTGCTGCATGGCTCCAAAA
TTATGGTCTGTGAGAAGGACCCAGCCCTCAAGAACCGCTGCCACATTGCTACATGCACCTGTTCTCCACCATCA
AGTACAAGGTCTCCATAAGTGTGAGCAATGCCCTGGGCCACAATGCCACAGCTATCACCTTTGACGAGTTCACCA
TTGTGAAGCCTGATCCTCCAGAAAATGTGGTAGCCCGGCCAGTGCCAGCAACCCTCGCCGGCTGGAGGTGACGT
GGCAGACCCCTCGACCTGGCCTGACCCTGAGTCTTTTCTCTCAAGTTCTTTCTGCGCTACCGACCCCTCATCC
TGGACCAGTGGCAGCATGTGGAGCTGTCCGACGGCACAGCACACACCATCACAGATGCCTACGCCGGGAAGGAGT
ACATTATCCAGGTGGCAGCCAAGGACAATGAGATTGGGACATGGAGTGACTGGAGCGTAGCCGCCACGCTACGC
CCTGGACTGAGGAACCGCGACACCTCACCACGGAGGCCAGGCTGCGGAGACCACGACCAGCACCACCAGCTCCC
TGGCACCCCCACCTACCACGAAGATCTGTGACCCTGGGGAGCTGGGCAGCGGCGGGGGACCCCTCGGCACCCTTCT
TGGTCAGCGTCCCCATCACTCTGGCCCTGGCTGCCGCTGCCGCCACTGCCAGCAGTCTCTTGATC**TGAG**CCCCGGC
ACCCCATGAGGACATGCAGAGCACCTGCAGAGGAGCAGGAGGCCGGAGCTGAGCCTGCAGACCCCGGTTTCTATT
TTGCACACGGGCAGGAGGACCTTTTGCATTCTCTTCAGACACAATTTGTGGAGACCCCGGCGGGCCCCGGGCTGC
CGCCCCCAGCCCTGCCGCACCAAGCTGGCCCTCCTTCCCTCAGGGGAGGTGGGCCATGCAGCTAACCACCC
CACCAAAGACCCCTCACCCCTGGCCCTTGGGCTGGACCCTCCAATGCCAGCGACTCCCAGGAGCCCTTGGGGGA
CGTGAGGGGAGCCTCTCACATCCGATTTCCTCCTGCCCCAGCCTCCTGTCTATCCCAGGGTCTCTGTTGCCAC
CATCAGATTATAAGCTCCTGATGCTGGGGGGGCCAGCCATCCCCCTCCCCCAGCACCCACAATTTTCAGTCCC
CTCCCTCTGCCCTGTTTGTATACCCCTCCCTGACCTGCTCCTATCCCACAGTATTTAATGCCCTGTCAGTC
CCTTCTAGTCTGACTCAATGGTAACTTGCTGTATTTGAATTTTTTATAGATGTATATACAGGGTGGGGGGAGTGG
GCGGTTCTCATTAAACGTCACCATTTCATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2669

MAAPVPWACCAVLAAAAVVYAQRHSPQEAPHVQYERLGSDVTLPCGTANWDAAVTWRVNGTDLAPDLLNGSQLV
LHGLELGHSGLYACFHRDSWHLRHQVLLHVGLPPREPVLSCRSNTYPKGFYCSWHLPTPTYIPNTFNVTVLHGSK
IMVCEKDPALKNRCHIRYMHLESTIKYKVSISVSNALGHNATAITFDEFTIVKPDPPENVVARPVPSNPRRLEVT
WQTPSTWPDPESEFPLKFFLRYPILLDQWQHVELSDGTAHTITDAYAGKEYIIQVAAKDNEIGTWSWVAHAHAT
PWTEEPRLTTEAQAETTTSTTSSLAPPPPTTKICDPGELGSGGGPSAPFLVSVPI TLALAAAAATASSLLI

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FIGURE 2670

CTCCGAGGCCGTGAGCGCAAAGCCTCAGGCCCGGCTCCCTCCTGAGCTGCGCCGTGCCAGGCCGCGCCGCGGGA
TGCAGTGGGCCGTGGGCCGGCGGTGGGCGTGGGCCGCGCTGCTCCTGGCTGTGCGCAGCGGTGCTGACCCAGGTCTG
TCTGGCTCTGGCTGGGTACGCAGAGCTTCGTCTTCCAGCGCGAAGAGATAGCGCAGTTGGCGCGGCAGTACGCTG
GGCTGGACCACGAGCTGGCCTTCTCTCGTCTGATCGTGGAGCTGCGGCGGCTGCACCCAGGCCACGTGCTGCCCG
ACGAGGAGCTGCAGTGGGTGTTTCGTGAATGCGGGTGGCTGGATGGGCGCCATGTGCCTTCTGCACGCCTCGCTGT
CCGAGTATGTGCTGCTCTTCGGCACCGCCTTGGGCTCCCGCGGCCACTCGGGGCGCTACTGGGCTGAGATCTCGG
ATACCATCATCTCTGGCACCTTCCACCAGTGGAGAGAGGGGCACCACCAAAAGTGAGGTCTTCTACCCAGGGGAGA
CGGTAGTACACGGGCCTGGTGAGGCAACAGCTGTGGAGTGGGGGCCAAACACATGGATGGTGGAGTACGGCCGGG
GCGTCATCCCATCCACCCTGGCCTTCGCGCTGGCCGACACTGTCTTCAGCACCCAGGACTTCCTCACCCCTCTTCT
ATACTCTTCGCTCCTATGCTCGGGGCTCCGGCTTGAGCTCACACCTACCTCTTTGGCCAGGACCCTTGACCAG
CCAGGCCTGAAGGAAGACCTGCGGATGGACAGGAGCGGGCAGCCCGCACATATCCACTTGCTGGAGCCCATGTTT
ACAGACAGGGACATACACCATGCAGATCCTGAGTTCCTGCTGTATGAGCAGGGATATCCATGCTTATGTATCCAA
ACACAGAGACCCATGGGAACAAATGAGACACATATAGATACTGAGACCTGTGTGTACAGTAGGACCATGCACTCA
CACCCATCTGGAGAGGGAGCCCCCGGTATACCAAGGGAGCCAGTTGTGTTTCAGACACACACATCACAGCTTGACT
CACTAACTGAGGCCTTTCCATAGCTCCACAGCTTCCACCTCCTCCCCACCAAACCGGGGTTCTAGAGTTAAGGA
TGGGGGAGGGTATTATACTGCCTCAGTCTGACTCCTCAACCCAGCAGCAATTTGAGGGGATGAGGGGGAAGAGGA
GCTGCCTTTTGAGGCCCCCTTACCTGCAGCTATGATGCCCTTCCCCTTCTCCCCTGTCCTCACCATATGCCTT
ATCCCCATTCTACTCCCCTGCTATGCAAGTGCCCCCTGTGGCTTGTCCCCAACCCCTCAGCAACAAAGCTCAGCT
GGGGAACGAGAGTAATTTGAAGAATGCTTGAAGTCAGCGTCTTCCATTCCAGAAAGACCCCCATTCTTCCTTTGG
GGGTATGATGTGGAAGCTGGTTTCAGCCCAGGACCCACCACTGAGGAGAGGATCTAGACAGGTGGGCCTAATTCC
AAGGGGCCCTTCTGGCCTGGAGAAGGCCTTTTACACACACACAACACATACACACACACACACACATATCAC
AGTTTTACACAGCCCCTGCTGCATTCTCTGTCCATCTGTCTGTTTCTATTAATAAAGATTTGTTGATCTGTTCC

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FIGURE 2671

MQWAVGRRWAWAALLLAVAAVL TQVVWLWLGTQSFVFQREEIAQLARQYAGLDHELAF SRLIVELRRLHPGHVLP
DEELQWVFVNAGGWMGAMCLLHASLSEYVLLFGTALGSRGHSGRYWAEISDTIISGTFHQWREGTTKSEVFYPGE
TVVHGPGEATAVEWGPNTWMVEYGRGVIPSTLAFALADTVFSTQDFLTIFYTLRSYARGLRLELTYYLFGQDP

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FIGURE 2672

GATGATATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTTAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGCATCGTCTCAAGTATTGAACAAAAGACA
GAAGGTGCTGAGAAAAAACAGCAGATGGCTCAAGAATACAGAGAGAAAAGTCTGAGACCTAGCTAAGAGATAGCTG
CAATGATGTACTGTCCCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCGAGAGCAAATTCCTTCTATTG
AAAATGAAAGGAGATCACTACCATTTACTTGGCTGAGGTTGCCGCTGGTGATGATAAGAAAGGGACTGTGGATCAG
TCACAACAAGCACACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACATATCCTATCAGACTGGGT
CTGGCCCTTAACCTTCTCCGTGTTCTATTATGACGTTCTGAATTCCTCAGAGAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATCCAAAGACAGCACACTAATAATGCAA
TTACTGAGAGACAACTTGACATTGTGGTTTTTATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTTATACAAGTTATTAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTT

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FIGURE 2673

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTGCCCCGACGCCTCGCTGCCGGTGGGAGGAAGCGAGA
GGGAAGCCGCTTGCGGGTTTGTGCGCGCTGCTCGCCACCGCCTGGAAGAGCCGAGCCCCGGGCCAGTCGGTTCGC
TTGCCACCGCTCGTAGCCGTTACCCGCGGGGCCGCCACAGCCGCGGGCCGGGAGAGGCGCGCGCCATGGCCTTCTGG
AGCCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAATCGGTTAATTGTTGA
TGAAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCCAGCCCAAGATGGATGAATTGCAGTTGTTCCGAGG
TGACACAGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGA
TGAGAAGATTCGGATGAATAGAGTTGTTCCGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCC
ATGCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCATTGATGACACAGTGAAGGCATTACTGGTAA
TCTCTTCGAGGTATACCTTAAGCCGTACTTCTTGAAGCGTATCGACCCATCCGAAAGGAGACATTTTTCTTGT
CCGTGGTGGGATGCGTGTGTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGA
CACAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCTTGAATGAAGTAGGGTATGA
TGACATTGGTGGCTGCAGGAAGCAGCTAGCTCAGATAAAGGAGATGGTGGAACTGCCCTGAGACATCCTGCCCT
CTTTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAAGACCCTGAT
TGCTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCTGAGATCATGAGCAAATTGGC
TGGTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGA
TGAGCTAGATGCCATCGCTCCCAAAGAGAGAAAACCTCATGGCGAGGTGGAGCGGCGCATTGTATCACAGTTGTT
GACCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAAACAGCATTGA
CCCAGCTCTACGGCGATTTGGTTCGCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGA
GATTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAAATGAGACTCA
CGGGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCT
CATTGACCTAGAGGATGAGACCATTGATGCCGAGGTCATGAACTCTCTAGCAGTTACTATGGATGACTTCCGGTG
GGCCTTGAGCCAGAGTAACCCATCAGCACTGCGGGAAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACAT
CGGGGGCCTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCT
GAAGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAA
AGCCATTGCTAATGAATGCCAGGCCAACTTCATCTCCATCAAGGGTCCTGAGCTGCTCACCATGTGGTTTGGGGA
GTCTGAGGCCAATGTCAGAGAAATCTTTGACAAGGCCCGCCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCT
GGATTGATTGCCAAGGCTCGTGGAGGTAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGAT
CCTGACAGAAATGGATGGCATGTCCACAAAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCTGACATCAT
TGATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCACTTCCTGATGAGAAGTCCCCTGT
TGCCATCCTCAAGGCTAACCTGCGCAAGTCCCCAGTTGCCAAGGATGTGGACTTGGAGTTCTTGCTAAAATGAC
TAATGGCTTCTCTGGAGCTGACCTGACAGAGATTTGCCAGCGTGCTTGCAAGCTGGCCATCCGTGAATCCATCGA
GAGTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCC
TGAGATCCGTCGAGATCACTTTGAAGAAGCCATGCGCTTTGCGCGCCGTTCTGTCTAGTGACAATGACATTCCGAA
GTATGAGATGTTTGCCAGACCCTTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACCAGGG
TGGAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGTATACACAGAAGACAATGATGATGACCT
GTATGGCTAAAGTGGTGGTGGCCAGCGTGAGCTGGCCTGCCTGGACCTTGTTCCCTGGGGGTGGGGGCGCT
TGCCAGGAGAGGGGACCAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTTCAGCTACAGTCTGA
CTCTGGACAGGGGGTTTTCTGTTGCAAAAATACAAAACAAAAGCGATAAAATAAAAGCGATTTTCATTTGGTAGGC
GGAGAGTGAATTACCAACAGGGAATTGGGCCCTTGGGCCATGCCATTTCTGTTGTAGTTTGGGGCAGTGCAGGGG
ACCTGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCC
CGAGCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGT
AGGTTGATTTATTTTACATGCTTTTGTAGTTAATGTTGGAAAACATAATCACAAGCAGTTTCTAAACCAAAAAATGA
CATGTTGTAAAAGGACAATAAACGTTGGGTCAAAATGG

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FIGURE 2674

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGD
IFLVRGGMRAVEFKVETDPSPYCIVAPDTVIHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR
HPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSESNLRKAFEEAEKNAPAI
IFIDELDAIAPKREKTHGEVERRIVSQLLTLMMDGLKQRAHVIVMAATNRPN SIDPALRRFGRFDREVDIGIPDAT
GRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEALQAIRKKMDLIDLEDETIDAEVMNSLAVTMD
DFRWALSQSNPSALRETVVEVPQVTWEDIGGLE DVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGP PGCGKT
LLAKAIANECQANFISIKGPELLTMWFGESEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV
INQILTEMDGMSTKKNVFIIGATNRPD IIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFL
AKMTNGFSGADLTEICQRACKLAIRESEIEIRRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN
DIRKYEMFAQTLQQSRGFGSFRFP SGNQGGAGPSQSGGGTGGSVYTEDNDDDLYG

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FIGURE 2675

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAA**ATG**CTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGCTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCCGAAACACCGTGGTACTGTTTCGTGCCGCAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC
AAGGAAATTGTCAACAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTCTGCAAAATCGATGGAGTC
CTTTACCTGCGCATCATGGACCCTTACAAGGCAAGCTACGGTGTGGAGGACCCTGAGTATGCCGTCACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTCTGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTCTCCAAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACTTGATCGAGTCAAG
ATGAGT**TAG**TGGAGCTGGGCTTGGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTATTTTTTTATTTTGAACTTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2676

MLARAARGTGALLLRGSLLASGRAPRRASSGLPRNTVVLFPQQEAWVVERMGRFHRILEPGLNILIPVLDRIRY
VQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRE
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQAO
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSAFSKLAKDSNTILLPS
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

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FIGURE 2677

GGGCGGCCGGCCAATGCCGGACCGCTTCGGCACCGCCCGCCGATCCCTCCACCCGTGGGCGGGCA**ATG**GCGGGC
GCAGTTTCGCTCTTGGGTGTGGTGGGGCTGCTGCTTGTGTCTGCGCTGTCCGGGGTCCTAGGAGACCGCGCCAAT
CCCGACCTCCGGGCACACCCAGGGAACGCAGCCACCCCGGCTCTGGAGCCACGGAACCCCGGCGGGCACCACCG
CTCAAGGATCAACGCGAGCGGACCCGGGCCGGGTGCTGCTCTGGGGGCGCTGTACACCGCGGCCGTGCGGGCT
TTTGTGCTGTACAAGTGTTTGCAGGGGAAAGATGAACTGCGGTTCTCCACGAGGAGGCAAGCAAGCAGCAGCCA
CTGCAGTCAGGTGGGTTTAGCAGAAGTCTGTGCTGGGTGCGGGGAGTT**TAG**GGGACAGCAGAAGATACATAACCA
CTTCTGCCCCCTTTTTTCCCTTATCCCCAGAGCAACAGCTGGCCCAGTTGACACAACAGCTGGCCCAGACAGAGC
AGCACCTGAACAACCTGATGGCCCAGCTGGACCCCCTTTTTGAGCGGTGAGGAGAGCAATGATTCTGTGAATTTT
TGGGGAATTTGTGGCAGGAGGGAGGAATGGGGACATAGGTTGGGAGCCACTGAGTGGACATTTCTTCAGTGTGAC
TACTCTGGCTGGAGCCCAGCAGGAGCTTCTGAACATGAAGCTATGGACCATCCACGAGCTGCTGCAAGATAGCAA
GCCGACAAGGATATGGAGGCTTCAGAACCAGGTGAAGGCTCGGGAGGCGAGTCTGCTGGAGGTGGAGACAAAGT
CTCTGAACTGGAACATTCCTGATCTCTCCCCACACAGAGGCCAGCAGACCTCTTCCTGAGGACTTCTGTTTAAA
GGAGGACGAGGAGGAGATTGGTGACAGTCAGGCCTGGGAGGAGCCACAACTGGAGCACAGAGACATGGAACCT
AGCTACTTCCTGGGAGGTGGGGCGGGGACTACGGAGAAGGTG**C**AGCCAGGCTGTGGCAAAGGGCCCCAGTCACAG
CCTTGGCTGGGAAGGAGGGACGACAGCTGAAGGTCGACTAAACAAAGTCTGTTTTCATG

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FIGURE 2678

MAGAVSLLGVVGLLLVSALSGVLGDRANPDLRAHPGNAAHPGSGATEPRRRPPLKDQRETRAGSLPLGALYTAA
VAAFVLYKCLQGKDETAVLHEEASKQQPLQSGGFSRSLCWVGGV

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FIGURE 2679

AGTGTGATCCCTCAGCCAGGGCATGGAGCTCTCCTGCCCCGGTTGCGGGTGCCCGGTGCAAGAGCAGCGTGCCC
GCTGGGAGCGGAAACGCGCCTGCACCGCCCGGGAGCTGCTAGAGACCGAGCGGCGCTACCAAGAACAGCTGGGGC
TGGTGGCCACGTACTTTTTGGGGATCCTGAAAGCCAAGGGGACCTGCGACCACCTGAGCGCCAGGCCCTGTTTG
GCTCCTGGGAGCTCATCTACGGCGCCAGCCAGGAGCTGCTTCCCTACCTGGAAGGAGGATGCTGGGGCCAAGGGC
TGGAGGGCTTCTGCCGCCACTTGGAGCTCTATAACCAATTTGCTGCCAACTCAGAGAGGTCCCAGACCACCTGCG
AGGAGCAGCTAAAGAAAAATAAAGGTTTCCGGAGGTTTGTACGGCTTCAGGAAGGCCGCCCTGAGTTTGGGGGCC
TTCAGCTCCAGGACCTGCTCCCTCTGCCTCTGCAACGGCTCCAGCAGTATGAGAATCTCGTCGTAGCTTTGGCTG
AAAACACAGGTCCCAACAGCCCTGACCATCAACAGCTCACACCTGTCTTCCCTCATGAGAAGCTACTGCTTATG
TCCACAGACCAGGAGGAGCTGTCACGCTGGTACCACAGTCTGACTTGGGCTATCAGCAGCCAGAAAACTAGAGG
AATCTTATAGATTCCAGAACTCAGGATACCTCAGGGATAGGTACACAGCCAAGAGTACAAAGGAATCTTCAGTACT
GAACAAAACAGAACCCTTCATGATTTGACAAAGGTCACTTTCTGTTTGCCTGGACCAAGCTACTCCAGATCATCT
GACCAACTCTTAAAAATCACGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAAGCAGAGGTGG
CAGGATCATTCCAGCCCAGGAGTTCAAGACCAGCCTGGGCAACACAGTGAGTGAGACCCTGTCTCTATTTAAGAA
AAAATAATTAAGAAATTTTATTAAAAAAGAAGAATCAGGAAACCAAGTCCAACCCAACTAAACCTCAAATGAACC
AGCCCCTAACACAGATGAGGGGATTTGGGACTGATAAGCTCTGTGCTGTGTCCATGGCCCGTCATTTATCAAGGC
TGCAGCTTTGTAAATGTGGCTATTTTTATGTTGTGTATAGTTTCTATCATTTATTTTTTCCACTGGATTTGAGTAA
AGTTTTTTTTTCTTTTTTTTGGGAAAGACCTTCTGTCTCAGTTTTGCTATGAGAAAAGGGATTTTTTGGGCCCTGA
ACGCGGGCATGCTGGTGGCCTCAGGAATACGAGGAAAAGAGCTGGAGCTCCCTCTATCTTCTCTGCTGTACACT
GGAAGGCAGCCTCTTTTTGTCTTAATAAGGACAGCTCTTCAAGAAGGCCAGTTGTCTTAGGCACCTAGTATGG
GTGTGTACAACCAACTAGGATCGAAAAACACACAGGAGCACTCCATCATGAAAACAGACTTTGTTTTAGTCGAC
CTTCAGCTGTCTCCCTCCTTCCAGCCAAGGCTGTGACTGGGGCCCTTTGCCACAGCCTGGCTGCACCTTCTCC
GTAGTCCCCGCCCCACCTCCCAGGAAGTAGCTAGGTTCCATGTCTCTGTGCTCCAGTTTGTGGGCTCCTCCCAGG
CCTGACTGTACCAATCTCCTCCTCGTCTCCTTTAAACAGAAGTCTCAGGAAGAGGTCTGCTGGCCTCTGTGT
GGGGAGAGATCAGGAATGTTCCAGTTTCAGAGACTTTGTCTCCACCTCCAGCAGACTCGCCTCCCGAGCCTTCAC
CTGGTTCTGAAGCCTCCATATCCTTGTCCGGCTTGCTATCTTGACAGCAGCTCGTGGATGGTCCATAGCTTCATGT
TCAGAAGCTCCTGCTGGGCTCCAGCCAGAGTAGTCACACTGAAGAAATGTCCACTCAGTGGCTCCCAACCTATGT
CCCCATTCTCTCCTCCTGCCACAAATTCGCCAAAAATTCACAGAATCATTGCTCTCCTCACCGCTCAAAAAGGGG
GTCCAGCTGGGCCATCAGGTTGTTTCCAGGTGCTGCTCTGTCTGGGCCAGCTGTTGTGTCAACTGGGCCAGCTGTTG
CTCTGGGGATAAGGGAAAAAAGGGGGCAGAAGTGGTTATGTATCTTCTGCTGTCCCCTAAACTCCCCGACCCAG
CACAGACTTCTGCTAAACCCACCTGACTGCAGTGGCTGCTGCTTGCTTGCTCCTCGTGGAGAACCGCAGTTTCA
TCTTTCCCCTGTTGTGGAAGAAGGAAAGGGCAGTACTGAAGCAACAAGGTTCTGCTCCATCACCTCAGTCTCCAG
AGCCAGCCAAGAGAGAGTGCAATTTGAGATGGAGACAGTGATTGGGTTTTTACCTCAGAGAATCACAACTCCTAGT
CTATCTAGCTCCTCACCCAGCATATGAAGCGACGTCTATGTCCCACACATGGTCAGTTTGCTGAAACACCTCCA
GGAATGAGCAACTCCCTCCGTTTGAAGAAAGCTCTGGTGGCTGAGTGTGTGGCTCACACCTGTAATCCCAGCA
CTTCGGGAAGCCAAGGGCCTCCTCCCAAGGAGAACATGAGACCACTTCATATCTGGAACCTCTAGAAACACTGGCT
GCAGCAATCAACCTCCTGTGCCAAGGCTGGCCCCACTCTTGTAGCATGGACACTGCTAGCTGGGTTCAAATCCCA
GCTCCAGCAGTTGCCAGCGCTGGGTGACCTCGAGCAAGTGACTACTCCTCACTGGATTGTAGGAGAACTAAATGT
GATAGTCATTATTTACAGTTTACCACACGCTCTTCACATCCGTTACCTCCCTGGATCCTCAAAATAACCTCATAA
TATTGGAAGGCC

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FIGURE 2680

TGCTGCTCTCCTCCCGCTCCGTCCTCCTCGCCTGCCACCGGTGCACCCAGTCCGCTCACCCAGCCCAGTCCGTCC
GGTCCTCACCGCCTGCCGGCCGGCCCCACCCCCACCGCAGGCCATGGACGCCATCAAGAAGAAGATGCAGATGCT
GAAGCTGGACAAGGAGAACGCCATCGACCGCGCCGAGCAGGCCGAAGCCGACAAGAAGCAAGCTGAGGACCGCTG
CAAGCAGCTGGAGGAGGAGCAGCAGGCCCTCCAGAAGAAGCTGAAGGGGACAGAGGATGAGGTGGAAAAGTATTC
TGAATCCGTGAAGGAGGCCCAGGAGAACTGGAGCAGGCCGAGAAGAAGGCCACTGATGCTGAGGCAGATGTGGC
CTCCCTGAACCGCCGCATTTCAGCTGGTTGAGGAGGAGCTGGACCGGGCCCAGGAGCGCCTGGCTACAGCCCTGCA
GAAGCTGGAGGAGGCCGAGAAGGCGGCTGATGAGAGCGAGAGAGGAATGAAGGTCATCGAAAACCGGGCCATGAA
GGATGAGGAGAAGATGGAACTGCAGGAGATGCAGCTGAAGGAGGCCAAGCACATCGCTGAGGATTTCAGACCGCAA
ATATGAAGAGGTGGCCAGGAAGCTGGTGATCCTGGAAGGAGAGCTGGAGCGCTCGGAGGAGAGGGCTGAGGTGGC
CGAGAGCCGAGCCAGACAGCTGGAGGAGGAACCTTGAACCATGGACCAGGCCCTCAAGTCCCTGATGGCCTCAGA
GGAGGAGTATTCCACCAAAGAAGATAAATATGAAGAGGAGATCAAACCTGTTGGAGGAGAAGCTGAAGGAGGCTGA
GACCCGAGCAGAGTTTGCCGAGAGGTCTGTGGCAAAGTTGGAGAAAACCATCGATGACCTAGAAGAGACCTTGGC
CAGTGCCAAGGAGGAGAACGTCGAGATTACCCAGACCTTGGACCAGACCCTGCTGGAACCTCAACAACCTGTGAGG
GCCAGCCCCACCCCCAGCCAGGCTATGGTTGCCACCCCAACCCAATAAACTGATGTTACTAGCCTCTC

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FIGURE 2681

MDAIKKKMQLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKKLKGTEDEVEKYSESVKEAQEKLEQAE
KKATDAEADVASLNRRRIQLVEEELDRAQERLATALQKLEEAekaADESERGMKVIENTRAMKDEEKMELQEMQLKE
AKHIAEDSDRKYEEVARKLVILEGELERSEERAevaESRARQLEEEELRTMDQALKSLMASEEEYSTKEDKYEEEI
KLEEKLKEAETRAEFAERSVAKLEKTIDDLEETLASAKEENVEIHQTLDQTLLLELNNL

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FIGURE 2682A

CCCGAGAAGCGGCGGGGCGGCGGGCGGCGGGGCGCAGAGCCAGGCAGCGCAGGTATAGCCAGGCTGGAGA
AAAGAAGCTGCCACC**ATG**GTTGCACTTTCACTGAAGATCAGCATTGGGAATGTGGTGAAGACGATGCAGTTTGAG
CCGTCTACCATGGTGTACGACGCCTGCCGCATCATTTCGTGAGCGGATCCAGAGGCCCCAGCTGGTCCTCCCAGC
GACTTTGGGCTCTTTCTGTCTAGATGATGACCCCAAAAAGGGTATATGGCTGGAGGCTGGGAAAGCTTTGGACTAC
TACATGCTCCGAAATGGGGACACTATGGAGTACAGGAAGAAACAGAGACCCCTGAAGATCCGTATGCTGGATGGA
ACTGTGAAGACGATCATGGTGGATGACTCTAAGACTGTCACTGACATGCTCATGACCATCTGTGCCCCGATTGGC
ATCACCAATCATGATGAATATTCATTGGTTTCGAGAGCTGATGGAAGAGAAAAAGGAGGAAATAACAGGGACCTTA
AGAAAGGACAAGACATTGCTGCGAGATGAAAAGAAGATGGAGAAACTAAAGCAGAAATTGCACACAGATGATGAG
TTGAACTGGCTGGACCATGGTCGGACACTGAGGGAGCAGGGTGTAGAGGAGCACGAGACGCTGCTGCTGCGGAGG
AAGTTCTTTTACTCAGACCAGAATGTGGATTCCCGGGACCTGTACAGCTGAACCTCCTGTATGTGCAGGCACGA
GATGACATCCTGAATGGCTCCACCCCTGTCTCCTTTGACAAGGCCCTGTGAGTTTGTGCTGGCTTCCAATGCCAGATC
CAGTTTGGGCCCCACAATGAGCAGAAGCACAAAGGCTGGCTTCCCTTGACCTGAAGGACTTCTTGCCCCAAGGAGTAT
GTGAAGCAGAAGGGAGAGCGTAAGATCTTCCAGGCACACAAGAATTGTGGGCAGATGAGTGAGATTGAGGCCAAG
GTCCGCTACGTGAAGCTAGCCCGTTCTCTCAAGACTTACGGTGTCTCCTTCTTCTGGTGAAGGAAAAAATGAAA
GGGAAGAACAAGCTAGTGCCAGGCTTCTGGGCATCACCAAGGAGTGTGTGATGCGAGTGGATGAGAAGACCAAG
GAAGTGATCCAGGAGTGGAACCTCACCAACATCAAACGCTGGGCTGCGTCTCCAAAAGCTTCACCCTGGATTTT
GGAGATTACCAAGATGGCTATTACTCAGTACAGACAACCTGAAGGGGAGCAGATTGCACAGCTCATTGCCGGCTAC
ATCGATATCATCCTGAAGAAGAAAAAAGCAAGGATCACTTTGGGCTGGAAGGAGATGAGGAGTCTACTATGCTG
GAGGACTCAGTGTCCCCAAAAAGTCAACAGTCCTGCAGCAGCAATACAACCGGGTGGGGAAAGTGGAGCATGGC
TCTGTGGCCCTGCCTGCCATCATGCGCTCTGGAGCCTCTGGTCTGAGAATTTCCAGGTGGGCAGCATGCCCCCT
GCCCAGCAGCAGATTACCAGCGGCCAGATGCACCGAGGACACATGCCTCCTCTGACTTCAGCCCAGCAGGCACTC
ACTGGAACCATTAACCTCCAGCATGCAGGCCGTGCAGGCTGCCAGGCCACCCTGGATGACTTTGACACTCTGCCG
CCTCTTGCCAGGATGCTGCCTCTAAGGCCTGGCGTAAAAACAAGATGGATGAATCAAAGCATGAGATCCACTCT
CAGGTAGATGCCATCACAGCTGGTACTGCGTCTGTGGTGAACCTGACAGCAGGGGACCCTGCTGAGACAGACTAT
ACCGCAGTGGGCTGTGCAGTCACCACAATCTCCTCCAACCTGACGGAGATGTCCCGTGGGGTGAAGCTGCTGGCT
GCCTTGCTGGAGGACGAAGGCGGCAGTGGTCGGCCCTGTTGCAGGCAGCAAAGGGCCTTGCGGGAGCAGTGTCA
GAACTGCTGCGCAGTGCCCAACCAGCCAGTGCTGAGCCCCGTGCAACCTGCTGCAAGCAGCTGGGAACGTGGGC
CAGGCCAGTGGGGAGCTGTTGCAACAAATTGGGGAAAGTGATACTGACCCCCACTTCCAGGATGCGCTAATGCAG
CTCGCCAAAGCTGTGGCAAGTGTGTCAGCTGCCCTGGTCTCAAGGCCAAGAGTGTGGCCAGCGGACAGAGGAC
TCGGGACTTCAGACCCAAGTTATTGCTGCAGCAACACAGTGTGCCCTATCCACTTCCCAACTAGTGGCCTGTACT
AAGGTGGTGGCACCTACAATCAGCTCACCTGTCTGCCAAGAGCAACTGGTGGAGGCTGGACGACTGGTAGCCAAA
GCCGTGGAGGGCTGTGTGTCTGCCTCCCAGGCAGCTACAGAGGATGGGCAACTGTTGCGAGGGGTAGGAGCAGCA
GCCACAGCTGTACCCAGGCCCTAAATGAGCTGCTGCAGCATGTGAAAGCCCATGCCACAGGGGCTGGGCCCTGCT
GGCCGTTATGACCAGGCTACTGACACCATCCTAACCGTCACTGAGAACATCTTTAGCTCCATGGGTGATGCTGGG
GAGATGGTGGGACAGGCCCGCATCCTGGCCCCAAGCCACATCTGACCTGGTCAATGCCATCAAGGCTGATGCTGAG
GGGGAAAGTGATCTGGAGAACTCCCGCAAGCTCTTAAGTGCTGCCAAGATCCTAGCTGATGCCACAGCCAAGATG
GTAGAGGCTGCCAAGGGAGCAGCTGCCCCACCCTGACAGTGAGGAGCAGCAGCAGCGGCTGCGGGAGGCAGCTGAG
GGGCTGCGCATGGCCACCAATGCAGCTGCGCAGAATGCCATCAAGAAAAAGCTGGTGCAGCGCCTGGAGCATGCA
GCCAAGCAGGCTGCAGCCTCAGCCACACAGACCATCGCTGCAGCTCAGCACGCAGCCTCTACCCCCAAAGCCTCT
GCCGGCCCCCAGCCCCTGCTGGTGCAGAGCTGCAAGGCAGTGGCAGAGCAGATTCCACTGCTGGTGCAGGGCGTC
CGAGGAAGCCAAGCCCAGCCTGACAGCCCCAGCGCTCAGCTTGCCCTCATTGCTGCCAGCCAGAGCTTCTGTCAG
CCAGGTGGGAAGATGGTGGCAGCTGCAAAGGCCTCAGTGCCAACGATTGAGGACCAGGCTTCAGCCATGCAGCTG
AGTCAGTGTGCCAAGAACCTGGGCACCGCGCTGGCTGAACTCCGGACGGCTGCCCAGAAGGCTCAGGAAGCATGT
GGACCTTTGGAGATGGATTCTGCACTGAGTGTGGTACAGAATCTAGAGAAAGATCTACAGGAAGTGAAGGCAGCA
GCTCGAGATGGCAAGCTTAAACCCCTTACCTGGGGAGACAATGGAGAAGTGTACCCAGGACCTGGGCAACAGCACC
AAAGCCGTGAGCTCAGCCATCGCCCAGCTACTGGGAGAGGTTGCCAGGGCAATGAGAATTATGCAGGTATTGCA
GCTCGGGATGTGGCAGGTGGGCTGCGGTCACTGGCCAGGCCGCTAGGGGAGTGCCTGCACTGACGTGAGATCCT
GCAGTGCAGGCCATTGTACTTGATACGGCCAGTGATGTGCTGGACAAGGCCAGCAGCCTCATTGAGGAGGCGAAA

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FIGURE 2682B

AAGGCAGCTGGCCATCCAGGGGACCCTGAGAGCCAGCAGCGGCTTGCCCAGGTGGCTAAAGCAGTGACCCAGGCT
CTGAACCGCTGTGTGCTGAGCTGCCTACCTGGCCAGCGCGATGTGGATAATGCCCTGAGGGCAGTTGGAGATGCCAGC
AAGCGACTCCTGAGTGACTCGCTTCCTCCTAGCACTGGGACATTTCAAGAAGCTCAGAGCCGGTTGAATGAAGCT
GCTGCTGGGGCTGAATCAGGCAGCCACAGAACTGGTGCAGGCCTCTCGGGGAACCCCTCAGGACCTGGCTCGAGCC
TCAGGCCGATTTGGACAGGACTTCAGCACCTTCCTGGAAGCTGGTGTGGAGATGGCAGGCCAGGCTCCGAGCCAG
GAGGACCGAGCCCAAGTTGTGTCCAACCTTGAAGGGCATCTCCATGTCTTCAAGCAAACCTTCTTCTGGCTGCCAAG
GCCCTGTCCACGGACCCCTGCTGCCCCCTAACCTCAAGAGTCAGCTGGCTGCAGCTGCCAGGGCAGTAACTGACAGC
ATCAATCAGCTCATCACTATGTGCACCCAGCAGGCACCCGGCCAGAAGGAGTGTGATAACGCCCTGCGGGAATTG
GAGACGGTCCGGGAACCTCCTGGAGAACCCAGTCCAGCCCATCAATGACATGTCCTACTTTGGTTGCCTGGACAGT
GTAATGGAGAACTCAAAGGTGCTGGGCGAGGCCATGACTGGCATCTCCCAAATGCCAAGAACGGAAACCTGCCA
GAGTTTGGAGATGCCATTTCCACAGCCTCAAAGGCACCTTTGTGGCTTCACCGAGGCAGCTGCACAGGCTGCATAT
CTGGTTGGTGTCTCTGACCCCAATAGCCAAGCTGGACAGCAAGGGCTAGTGGAGCCACACAGTTTGGCCGTGCA
AACCAGGCAATTCAGATGGCCTGCCAGAGTTTGGGAGAGCCTGGCTGTACCCAGGCCCAGGTGCTCTCTGCAGCC
ACCATTGTGGCTAAACACACCTCTGCAGTGTGTAACAGCTGTGCCTGGCTTCTGCCCGTACCACCAATCCTACT
GCCAAGCGCCAGTTTGTACAGTCAGCCAAGGAGGTGGCCAACAGCACAGCTAATCTTGTCAAGACCATCAAGGCG
CTAGATGGGGCCTTCACAGAGGAGAACCGTGCCAGTGCCGAGCAGCAACAGCCCCTCTGCTGGAGGCTGTGGAC
AATCTGAGTGCCTTTGCCTCAACCCTGAGTTCTCCAGCATTCCTGCCCAGATCAGCCCTGAGGGTTCGGGCTGCC
ATGGAGCCCATTTGTGATCTCTGCCAAGACAATGTTAGAGAGTGCCGGGGGACTCATCCAGACAGCCCGGGCCCTC
GCAGTCAATCCCCGGGACCCCCGAGCTGGTTCGGTGTCTGGCCGGCCACTCCCGTACTGTCTCAGACTCCATCAAG
AAGCTAATTACAAGCATGAGGGACAAGGCTCCAGGGCAGCTGGAGTGTGAAACGGCCATTGCAGCTCTGAACAGT
TGTCTACGGGACCTAGACCAGGCTTCCCTCGCTGCAGTCAGCCAGCAGCTTGCTCCCCGTGAGGGAATCTCTCAA
GAGGCCCTTGACACTCAGATGCTCACTGCAGTCCAAGAGATCTCCCATCTCATTGAGCCGCTGGCCAATGCTGCC
CGGGCTGAAGCCTCCCAGCTGGGACACAAGGTGTCCCAGATGGCGCAGTACTTTGAGCCGCTCACCCCTGGCTGCA
GTGGGTGCTGCTTCCAAGACCCTGAGCCACCCGCAGCAGATGGCACTCCTGGACCAGACTAAAACATTGGCAGAG
TCTGCCCTGCAGTTGCTATACACTGCCAAGGAGGCTGGTGGTAACCCAAAGCAAGCAGCTCACACCCAGGAAGCC
CTGGAGGAGGCTGTGCAGATGATGACCGAGGCGCTAGAGGACCTGACAACAACCCTCAACGAGGCAGCCAGTGCT
GCTGGGGTCTGTTGGTGGCATGGTGGACTCCATCACCCAGGCCATCAACCAGCTAGATGAAGGACCAATGGGTGAA
CCAGAAGGTTCTTCGTGGATTACCAAACAACCTATGGTGCAGGACAGCCAAGGCCATTGCAGTGACCGTTTCAGGAG
ATGGTTACCAAGTCAAACACCAGCCAGAGGAGCTGGGCCCTCTTGCTAACAGCTGACCAGTGACTATGGCCGT
CTGGCCTCGGAGGCCAAGCCTGCAGCGGTGGCTGCTGAAAATGAAGAGATAGGTTCCCATATCAAACACCGGGTA
CAGGAGCTGGGCCATGGCTGTGCCGCTCTGGTACCAAGGCAGGCGCCCTGCAGTGCAGCCCCAGTGATGCCTAC
ACCAAGAAGGAGCTCATAGAGTGTGCCCCGAGAGTCTCTGAGAAGGTCTCCACGTCTCTGGCTGCGCTCCAGGCT
GGGAATCGTGGCACCCAGGCCTGCATCACAGCAGCCAGCGCTGTGTCTGGTATCATTGCTGACCTCGACACCACC
ATCATGTTCCGCACTGCTGGCACGCTCAATCGTGAGGGTACTGAACTTTTCGCTGACCACCGGGAGGGCATCCTG
AAGACTGCGAAGGTGCTGGTGGAGGACACCAAGGTCTGGTGCAAAACGCAGCTGGGAGCCAGGAGAAGTTGGCG
CAGGCTGCCCAGTCTCCGTGGCGACCATCACCCGCTCGCTGATGTGGTCAAGCTGGGTGCAGCCAGCCTGGGA
GCTGAGGACCCTGAGACCCAGGTGGTACTAATCAACGCAGTGAAAGATGTAGCCAAAGCCCTGGGAGACCTCATC
AGTGCAACGAAGGCTGCAGCTGGCAAAGTTGGAGATGACCCCTGCTGTGTGGCAGCTAAAGAACTCTGCCAAGGTG
ATGGTGACCAATGTGACATCATTGCTTAAGACAGTAAAAGCCGTGGAAGATGAGGCCACCAAAGGCACTCGGGCC
CTGGAGGCAACCACAGAACACATACGGCAGGAGCTGGCGGTTTTCTGTTCCCCAGAGCCACCTGCCAAGACCTCT
ACCCAGAAAGACTTCATCCGAATGACCAAGGGTATCACCATGGCAACCGCCAAGGCCGTTGCTGCTGGCAATTCC
TGTGCCAGGAAGATGTCATTGCCACAGCCAATCTGAGCCGCCGTGCTATTGCAGATATGCTTCGGGCTTGCAAG
GAAGCAGCTTACCACCCAGAAGTGGCCCCCTGATGTGCGGCTTCGAGCCCTGCACTATGGCCGGGAGTGTGCCAAT
GGCTACCTGGAAGTGTGGACCATGTACTGCTGACCCCTGCAGAAGCCAAGCCCAGAACTGAAGCAGCAGTTGACA
GGACATTCAAAGCGTGTGGCTGGTTCCGCTCACTGAGCTCATCCAGGCTGCTGAAGCCATGAAGGGAAACAGAAATGG
GTAGACCCAGAGGACCCACAGTCATTGCTGAGAATGAGCTCCTGGGAGCTGCAGCCGCCATTGAGGCTGCAGCC
AAAAAGCTAGAGCAGCTGAAGCCCCGGGCCAAACCAAGGAGGCAGATGAGTCCTTGAACCTTGAGGAGCAGATA
CTAGAAGCTGCCAAGTCCATTGCAGCAGCCACCAGTGCACTGGTAAAGGCTGCGTGGCTGCCAGAGAGAACTA

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FIGURE 2682C

GTGGCCCAAGGGAAGGTGGGTGCCATTCCAGCCAATGCACTGGACGATGGGCAGTGGTCCCAGGGCCTCATTCT
GCTGCCCCGATGGTGGCTGCGGCCACCAACAATCTGTGTGAGGCAGCCAATGCAGCTGTACAAGGCCATGCCAGC
CAGGAGAAGCTCATCTCATCAGCCAAGCAGGTAGCTGCCTCCACAGCCCAGCTCCTTGTGGCCTGCAAGGTCAAG
GCTGACCAGGACTCGGAGGCAATGAAACGACTTCAGGCTGCTGGCAACGCAGTGAAGCGAGCCTCAGATAATCTG
GTGAAAGCAGCACAGAAGGCTGCAGCCTTTGAAGAGCAGGAGAATGAGACAGTGGTGGTGAAAGAGAAGATGGTT
GGCGGCATTGCCCAGATCATCGCAGCACAGGAAGAAATGCTTCGGAAGGAACGAGAGCTGGAAGAGGCGCGGAAG
AAACTGGCCCAGATCCGGCAGCAGCAGTACAAGTTTCTGCCCTTCAGAGCTTCGAGATGAGCACTAAAGAAGCCTC
TTCTATTTAATGCAGACCCGGCCCAGAGACTGTGCGTGCCACTACCAAAGCCTTCTGGGCTGTGCGGGCCCAACC
TGCCCAACCCAGCACTCCCCAAAGTGCCTGCCAAACCCAGGGCCTGGCCCCGCCAGTCCCGCAGTACATCCC
CTGTCCCCTCCCCAACCCCAAGTGCCCTTCATGCCCTAGGGCCCCCAAGTGCCCTGCCCTCCCCAGAGTATTAAC
GCTCCAAGAGTATTATTAACGCTGCTGTACCTCGATCTGAATCTGCCGGGGCCCCAGCCCACTCCACCCTGCCAG
CAGCTTCCAGCCAGTCCCCACAGCCTCATCAGCTCTCTTCACCGTTTTTTGATACTATCTTCCCCCAGCCCCAGC
TACCCATAGGGGCTGCAGAGTTATAAGCCCCAAACAGGTCATGCTCCAATAAAAATGATTCTACCTACAAAAAA
AAAAAAAAAAAA

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FIGURE 2683

MVALSLKISIGNVVKTMQFEPSTMVYDACRIIRERIPEAPAGPPSDFGLFLSDDDPKKGIWLEAGKALDYYMLRN
GDTMEYRKKQRPLKIRMLDGTVKTIMVDDSKTVTDMLMTICARIGITNHDEYSLVRELMEEEKKEEITGTLRKDKT
LLRDEKKMEKLKQKLHTDDELNWLDHGRTLREQGVEEHETLLLRKFFYSQNVDSRDPVQLNLLYVQARDDILN
GSHPVSFDKACEFAGFQCQIQFGPHNEQKHKAGFLDLKDFLPKEYVKQKGERKIFQAHKNCGQMSEIEAKVRYVK
LARSCLKTYGVSFFLVKEKMKGKNKLVPRLLGITKECVMRVDEKTKEVIQEWNLNLIKRWAAAPSKSFTLDFGDYQD
GYYSVQTTEGEQIAQLIAGYIDIILKKKSKDHFGLGDEESTMLEDSVSPKKSTVLQQQYNRVGKVEHGSVALP
AIMRSGASGPENFQVGSMPPAQQQITSGQMHRGHMPPLTSAQQALTGTINSSMQAVQAAQATLDDFDLPLPLGQD
AASKAWRKNKMDESKHEIHSQVDAITAGTASVVNLTAGDPAETDYTAVGCAVTTISSNLTEMSRGVKLLAALLED
EGGSGRPLLQAAKGLAGAVSELLRSAQPASAEPRQNLQAAGNVGQASGELLQQIGESDTPHFQDALMQLAKAV
ASAAAALVLKAKSVAQRTEDSGLQTQVIAAATQCALSTSQVLACTKVVAPTISSPVCQEQLV EAGRLVAKAVEGC
VSASQAATEDGQLLRGVGAAATAVTQALNELQLHVKAHATGAGPAGRYDQATDTILTVTENIFSSMGDAGEMVGQ
ARILAQATSDLVNAIKADAEGESDLENSRKLLSAAKILADATAKMVEAAKGAAHPDSEEQQRLREAAEGLRMA
TNAQAQNAIKKKLVQRLEHAAKQAAASATQTIAAAQHAASTPKASAGPQPLLVSCKAVAEQIPLLVQGVRSQA
QPDSPSAQLALIAASQSFLQPGGKMVAAAKASVPTIQDQASAMQLSQCAKNLGTALAE LR TAAQKAQEACGPLEM
DSALSVVNLEKDLQEVKAAARDGKLKPLPGETMEKCTQDLGNSTKAVSSAIAQLLGEVAQGNENYAGIAARDVA
GGLRSLAQAARGVAALTS DPAVQAIVLDTASDVLDKASSLIEEAKKAAGHPGDPESQORLAQVAKAVTQALNRCV
SCLPGQRDVDNALRAVG DASKRLLSDSLPPSTGTQEAQSRLNEAAAGLNQAATELVQASRGTPQDLARASGRFG
QDFSTFLEAGVEMAGQAPSQEDRAQVVSNLKGISMSSSKLLLAAKALSTDPAAPNLKSQLA A ARAVTD SINQLI
TMCTQQAPGQKECDNALRELETVRELENPVQPINDMSYFGCLDSVMENSKVLGEAMTGISQNAKNGNLPEFGDA
ISTASKALCGFTEAAAQAYLVGVSDPNSQAGQQGLVEPTQFARANQAIQMACQSLGEPGCTQAQVLSAATIVAK
HTSALCNSCRLASARTTNPTAKRQFVQSAKEVANSTANLVKTIKALDGAFTEENRAQCRAATAPLLEAVDNL SAF
ASNPEFSSIPAQISPEGRAAMEPIVISAKTMLESAGGLIQTARALAVNPRDPPSWSVLAGHSRTVSDS IKKLITS
MRDKAPGQLECE TAI AALNSCLRDL DQASLA AVSQQ LAPREGISQEALHTQMLTAVQEISHLIEPLANAARAEAS
QLGHKVSQMAQYFEPLTLAAVGAASKTLSHPQQMALLDQTKTLAESALQLLYTAKEAGGNPKQAAHTQEAL EEA V
QMMTEAVEDLTTTLNEAASAAGVVGGMVDSITQAINQLDEGPMGEPEGSFVDYQTTMVRTAKAIAVTVQEMVTKS
NTSPEELGPLANQLTSDYGR LASEAKPA AVAAENEEIGSHIKHRVQELGHGCAALVTKAGALQCSPSDAYTKKEL
IECARRVSEKVSHVLAALQAGNRGTQACITAASAVSGIIADLDTTIMFATAGTLNREGTETFADHREGILKTAKV
LVEDTKVLVQNAAGSQEKLAQAAQSSVATITRLADVVKLGAA SLGAEDPETQVVLINAVKDVAKALGDLISATKA
AAGKVGDDPAVWQLKNSAKVMVTNVTSLKTKVAVEDEATKGTRALEATTEHIRQELAVFCSPPEPAKTSTPEDF
IRMTKGITMATAKAVAAGNSCRQEDVIATANLSRRAIADMLRACKEAAYHPEVAPDVRLRALHYGRECANGYLEL
LDHVLLTLQKPSPELKQQLTGHSKR VAGSVTELIQAAEAMKGTEWVDPEDPTVIAENELLGAAAAIEAAAKKLEQ
LKPRAPKPEADESLNFEEQILEAAKSIAAATSALVKAASAAQRELVAQGVGAIPANALDDGQWSQGLISAARMV
AAATNNLCEAANA AVQGHASQEKLISSAKQVAASTAQLLVACKVKADQDSEAMKRLQAAGNAVKRASDNLVKAQ
KAAAFEEQENETVVVKEKMVG GIAQIIAAQEEMLRKERELEEARKKLAQIRQQQYKFLPSELRDEH

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FIGURE 2684

AGACCGGAAAGGGCTCGGGTCATCCCGGCGCCAGGGTCACCTTCCCACGGGCTGGCACCTGGGCGCGGGCGCTG
CCCCGGAGCCGGCCGGCGGGACCTGGCGCCCAATCCTGGGGGACCCGGTGCCGTGGCCCAGGGGCCGGGCCGAGG
TCCCGGGGGCGGTGCTTTCGGGGCCCGTCCCGGGGCGGTGCCTGGTGGGCTGGCCCCGCGGCTCCTCCCCCTCTCT
GCGGGCCCACTGCGCCCTTGGCCGGGCGAGCTAATCGTCGGCTCAATGACGACGAGGCCCGACCCCTTCCCGTCCA
GGACCTACAGAGACAACCGAAGGAGAGCCCAAGGCGGCTTCTTTGCTGTCGCCGCCCCACTGAAGCAAGAGCTC
CCCGGCTCCACTGAAACACCAGCTCATTTAAGCTTTCCCAACGCCCGGCCCTCCGGGACGATACCTAACAACGA
CCGGCGCCCGCATCTGGAATAGGCTGGCGAGATACTTAGTATCCGAGGGCTCGGGACTTGGCGCCATCGAGGTCA
TGGGGACCCAGGATCCAGGGAACATGGGAACGGCGTCCAGCCTCGGAGCAGATAAGCTGTGCCAAAGAGGATC
CACAAGTTTATTGCCCTGAAGAGACTGGCGGCACCAAGGATGTGCAGGTTACAGACTGTAAGAGTCCCCAAGACA
GCCGACCCCCAAAAGAGACGGACTGCTGCAATCCGGAGGACTCTGGGCAGCTGATGGTTTTCTATGAGGGTAAAG
CTATGGGCTACCAGGTGCCCTCCCTTTGGCTGGCGCATCTGTCTGGCTCATGAGTTTACAGAGAAGAGGAAACCTT
TTCAAGCTAACAACGTCTCCCTAAGCAACATGATAAAGCATATAGGCATGGGCTTGAGGTACCTGCAGTGGTGGT
ACCGGAAGACCCATGTGGAAAAGAAGACACCTTTCATCGACATGATCAATTCTGTACCCCTAAGACAGATTTATG
GTTGTCCCTTGGGTGGCATCGGGGAGGCACTATTACCCGTGGCTGGAGAGGCCAGTTCTGTGCTTGGCAGCTTA
ACCCTGGAATGTATCAGCACCGGACAGTCATCGCTGACCAAGACAGCAGCCTGCCTGTAGGAGTCTTTGTGTGGG
ATGTGGAATAAGAGGGGACGAAGCTCTAGATGTGTCCATCATGTTCTCCATGCGGAATGGACTGGGTGGTGGAG
ACGATGCCCCAGGGGTTTGTGGAATGAGCCCTTCTGTCTGGAGCGTAGCGGGGAACTGTCCGGGGGCTGCTCCT
GCATCATCCAACCCCTTCCAAACCCCTACACGATGGCTGTGGCTGCACGAGTCACGGCAGCTACCACGGTAACCCA
CATCACAGCCTTTGACCCTGACAGCACGGGGCAGCAGGTGTGGCAGGATCTACTTCAGGATGGACAGCTGGACTC
TCCCACTGGCCAAAGCACCCCTACGCAGAAAGGAGTAGGCATTGCTGGAGCTGTGTGTGTTTCCAGCAAGTTGCG
ACCTCGAGGCCAGTGCCGCCTGGAGTTTTCTACTGGCTTGGGACATGCCAGGATCATGTTTGGAGCTAAAGGCCA
AGTCCACTACAGGCGGTATACAAGGTTCTTTGGCCAGGATGGAGATGCAGCACCTGCCCTCAGCCACTATGCACT
GTGCCGATACGCAGAGTGGGAAGAGAGGATCTCAGCTTGGCAGAGCCCGGTATTGGATGACAGATCACTGCCTGC
CTGGTACAAATCTGCGCTGTTCAATGAACATATACTTCTGGCTGATGGAGGCACAGTGTGGCTGGAAGTTCTTGA
GGACTCCCTACCAGAGGAGCTGGGCAGAAACATGTGTACCTCCGCCCCACCCTACGGGACTACGGTGCATTTGG
CTACCTTGAGGGCCAGGAGTACCGCATGTACAACACATATGATGTCCACTTTTATGCTTCCCTTGCCTCATCAT
GCTCTGGCCCAAACCTTGAGCTCAGCCTACAGTATGACATGGCTCTGGCCACTCTCAGGGAGGACCTGACACGGCG
ACGGTACCTGATGAGTGGGGTGTATGGCACCTGTGAAAAGGAGGAACGTATCCCCATGATATTGGGGACCCAGA
TGATGAACCATGGCTCCGCGTCAATGCATATTTAATCCATGATACTGCTGATTGGAAGGACCTGAACCTGAAGTT
TGTGCTGCAGGTTTATCGGGACTATTACCTCACGGGTGATCAAACTTCTTGAAGGACATGTGGCCTGTGTGTCT
AGCTGTGATGGAATCTGAAATGAAGTTTGACAAGGACCATGATGGACTCATTGAAAATGGAGGCTATGCAGACCA
GACCTATGATGGATGGGTGACCACAGGCCCCAGTGCTTACTGTGGAGGGCTGTGGCTGGCAGCTGTGGCTGTGAT
GGTCCAGATGGCTGCTCTGTGTGGGGCACAGGACATCCAGGATAAGTTTCTTCTATCCTCAGCCGGGGCCAAGA
AGCCTATGAGAGACTGCTGTGGAATGGCCGCTATTACAACATATGACAGCAGCTCTCGGCCTCAGTCTCGTAGTGT
TATGTCTGACCAGTGTGCTGGACAGTGGTTTCTGAAGGCCTGTGGCCTAGGAGAAGGAGACACTGAGGTGTTTCC
TACCCAACATGTGGTCCGTGCTCTCCAAACTATCTTTGAGCTGAACGTCCAGGCCTTTGCAGGAGGGGCCATGGG
GGCTGTGAATGGGATGCAGCCCCATGGTGTCCCTGATAAATCCAGTGTGCAGTCTGATGAAGTCTGGGTGGGTGT
GGTCTACGGGCTGGCAGCTACCATGATCCAAGAGGGCCTGACTTGGGAGGGCTTCCAGACAGCTGAAGGCTGCTA
CCGTACCGTGTGGGAGCGCCTGGGTCTGGCCTTCCAGACCCCAGAGGCATACTGCCAGCAGCGAGTGTTCGGCTC
ACTGGCCTACATGCGGCCACTGAGCATATGGGCCATGCAGCTAGCCCTGCAACAGCAGCAGCACAAAAGGCCCTC
CTGGCCAAAAGTCAAACAGGGCACAGGACTAAGGACAGGGCCTATGTTTGGACCAAAGGAAGCCATGGCAAACCT
GAGCCCAGAGTGAAGCCGTCTGAACTGTGGGAGGGAAGTGCTAACAGCCCAGCCTCCAGCCTGGCCTTTCTCTCTT
CCCCCTGAACCTCCTGCAACCTGAGCCATCAGGACAATCATACCCCTTCCCTTCTCTCCACCAATTGTGCCA
GTAAATGGGGTTGAGGGTGACCTAGGCAGCATTAGAATCACTTATTTATTTCTTCTCACCTGTTCCTGACT
GCGTGAAATGTTAGGGAGGTGAGTTGATTTCCCAGGTACATTTCATGGTGTGACAGACACATGGGTACAAATAA
AAGACCCAGAAAGCC

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FIGURE 2685

MAVAARVTAATTVTHTITAFDPDSTGQQVWQDLLQDGLDSTPTQKGVGIAGAVCVSSKLRPRGQCRLEFS
LAWDMPRIMFGAKGQVHYRRYTRFFGQDGAAPALSHYALCRYAEWEERISAWQSPVLDDRSPLPAWYKSALFNEL
YFLADGGTVWLEVLEDLPEELGRNMCHLRPTLRDYGRFGYLEGQEYRMYNTYDVHVFYASFALIMLWPKLELSLQ
YDMALATLREDLTRRRYLMSGVMAFVKRRNVIPHDIGDPDDEPWLRVNAYLIHDTADWKDLNLKFVLQVYRDYYL
TGDQNFLLKDMWPFVCLAVMESEMKFDDKHDGLIENGGYADQTYDGWVTTGFSAYCGGLWLAADVAVMVQMAALCGAQ
DIQDKFSSILSRGQEAYERLLWNGRYNYDSSSRPQSRVMSDQCAGQWFLKACGLGEGDTEVFPTQHVVRALQT
IFELNVQAFAGGAMGAVNGMQPHGVDPKSSVQSDEVWVGVVYGLAATMIQEGLTWEGFQTAEGCYRTVWERLGLA
FQTPEAYCQQRVFRSLAYMRPLSIWAMQLALQQQHKKASWPKVKQGTGLRTGPMFGPKEAMANLSPE

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FIGURE 2686

AAAAAGAAATCAAGAATGCAATTTTATTTACAATAGTCACGCCAAAAATACCTAGAAATAAATTTAACTGAGGAT
GTAAAAGACCTCTACAAGGAGAGTTCAATCGGTAGCGGGAGCGGAGAGCTGACCCCAGAGAGCCCTGGGCAGCCC
CACCTCCGCCCGCCGGCCTAGTTACCATCACACCCCGGGAGAAGCCGCAGCTGCCGCAGCCGGCCCCAGTCACCAT
CACCGCAACTATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCCGCCGCTCCCCACGCCGCCCGCCCTCAGCG
CCGCCGACACCCACCCAGCACTGCAGGCAGCGGCGCAGGAAGCGGTGGCCCGGGCGGCCTCACATCGGCGGCGC
CTGCCGGCGGGGACAAGAAGGTCATCGCAACGAAGTTTTGGGAACAGTAAAATGGTTCAGTGTAAGGAACGGAT
ATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCAGAAAGAAGAATAACCCCA
GGAAGTACCTTCGCAGTGTTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGGTGCGGAGG
CAGCAAATGTTACAGGGCCTGGTGGTGTTCAGTTCAAGGCAGTACATATGCAGCAGACCGTAACCATTATAGAC
GCTATCCACGTCGTAGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAATAGTGAGAGTGGGGAAAAGAACGA
GGGATCGGAGAGTGCTCCCGCAGGCCAAGCCCAACAACGCCGGCCCTACCGCAGGCCGAAGGTTCCACCTTACTA
CATGCGGAGACCCCTATGGGCGTCGACCACAGTATTCCAACCCTCCTGTGCAGGGTGAAGTGATGGAGGGTGCTGA
CAACCAGGGTGCCAGGAGAACAAGGTAGACCAGTGAGGCAGAATACGTATCGGGGATATAGACCACGATTCCGCAG
GGGCCCTCCACGCCAAAGACAGCCTAGAGAGGACGGCAATGATGAAGATAAAGAAAATCAAGGAGATGAGACCCA
AGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTGCCGACGCAGACACCCAGAAAACCCTAAACC
ACAAGATGGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAAATTCGTCCACTCCTGAGGCTGAGCGGGGCAG
GACTGAG**TAA**ATGCCAGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAGGAAGAAATATGAAATTCC
AGCTATAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCGTTGACCAGATAAATA
GAACTATCTGCATTATCTATGCAGCATGGGATTTTTATTATTTTTTACCTAAAGACGTCTCTTTTTGGTAATAACA
AACGTGTTTTTTAAAAAAGCCTGGTTTTTTTTCAATACGCCTTTAAAGG

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FIGURE 2687

MRRPYGRRPQYSNPPVQGEVMEGADNQGAGEQGRPVRQNTYRGYRPRFRRGPPRQRQPPREDGNDEDKENQGDETQ
GQQPPQRRYRRNFCRRRHPENPKPDGKETKAADPPAENSSTPEAERGRTE

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FIGURE 2688

GAAGAATAACCCACAGGAAGTACCTTCGCAGTATTCCAACCTCCTGTGCAGGGTGAAGTGATGGAGGGTGCTGAC
AACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATACGTATCGGGGATATAGACCACGATTCCGCAGG
GGCCCTCCACGCCAAAGACAGCCTAGAGAGGACGGCAATGATGAAGATAAAGAAAATCAAGGAGATGAGACCCAA
GGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTGCCGACGCAGACACCCAGAAAACCTAAACCA
CAAGATGGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTCGTCCACTCCTGAGGCTGAGCGGGGCAGG
ACTGAGTAAATGCCAGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAGGAAGAAATATGAAATTCCA
GCTATAAGAAATGAACAATAGAACTATCTGCATTATCTATGCAGCATGGGATTTTTATTATTTTTACCTAAAGAC
GTCTCTTTTTGGTAATAACAAACGTGTTTTTT

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FIGURE 2689

AGCGGTGGCTGCCGGGCGTGGTGTCTGGTGGGTTCGGTTGGTTTTTGTCTCACCGTTGGTGTCCGTGCCGTTTCAGTT
GCCCCGCCATGGCTGAGCTGGATCCGTTTCGGCGCCCCCTGCCGGCGCCCCCTGGCGGTCCCGCGCTGGGGAACGGAGT
GGCCGGCGCCGGCGAAGAAGACCCGGCTGCGGCCTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAA
CGACGAGGCCTTCGCCATCCTGGACGGCGGGCGCCCCGGGCCCCAGCCGCACGGCGAGCCGCCGGGGGGTCCGGA
TGCTGTTGATGGAGTAATGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTT
ACAAGTGGATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAAATGGAGAGAAGAACAATGGAACGCTTGGAAGC
CCTTGATGCCAATTCTCGGAAGCAAGAAGCAGAGTGGAAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGC
AAGACAGGACGAGCAGCTACAGAAAACAAAAGCAAACAACAGGGCAGCAGAAGAAGCCTTTGTAAATGACATTGA
CGAGTCGTCCCCAGGCACTGAGTGGGAACGGGTGGCCCGGCTGTGTGACTTTAACCCCAAGTCTAGCAAGCAGGC
CAAAGATGTCTCCCGCATGCGCTCAGTCCTCATCTCCCTCAAGCAGGCCCCGCTGGTGCACTGAAGAGCCACCCT
GTGGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTCATTGGATTAATTATGTTGA
GTTCTTTTGGACCAAACCTTTTGTCTTTAGAGTTGTTTCATTGTTTGTGATTGCATGTTTCCTTCCTTCAACTGT
GTTCTCCCTGGCATTTCAGAGAGGAGGGAGAGGAGGAAGAGGAAGGGGAGGGAAGCTTCCCAAGAGTAGCCTCAAC
CTGTGCTTCTGTGCATTATTCTGAGAATAAATTTCTGTTTCAAACGT

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FIGURE 2690

MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFQAQQESEIAGIENDEAFAILDGGAPGPQPHGEPPGGPDAV
DGVMNGEYYQESNGPTDSYAAISQVDRLQSEPE SIRQWREEQMERLEALDANSRKQEA EWKEKAIKELEEWYARQ
DEQLQKTKANNRAAEEAFVNDIDESSPGTEWERVERLCDFNPKSSKQAKDVSRMRSVLISLKQAPLVH

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FIGURE 2691

GCCACCGCTGTGGTGTCTGGTGGGTCTGGTTGGTTTTTGTCTCACCGTTGGTGTCCGTGCCGTTTCAGTTGCCCGCCA
TGGGCTGAGCTGGATCCGTTTCGGCGCCCCCTGCCGGCGCCCCCTGGCGGTCCCGCGCTGGGGAACGGAGTGGCCGGCG
CCGGCGAAGAAGACCCGGCTGCGGCCCTTCTTGGCGCAGCAAGAGAGCGAGATTGCGGGCATCGAGAACGACGAGG
CCTTCGCCATCCTGGACGGCGGCGCCCCCGGGCCCCAGCCGCACGGCGAGCCGCCGGGGGGTCCGGATGCTGTTG
ATGGAGTAATGAATGGTGAATACTACCAGGAAAGTAATGGTCCAACAGACAGTTATGCAGCTATTTACAAGTGG
ATCGATTGCAGTCAGAGCCTGAAAGTATCCGTAAATGGAGAGAAGAACAATGGAACGCTTGGAAGCCCTTGATG
CCAATTCTCGGAAGCAAGAAGCAGAGTGGAAAGAAAAGGCAATAAAGGAGCTAGAAGAATGGTATGCAAGACAGG
ACGAGCAGCTACAGAAAACAAAAGCAAACAACAGGGTGGCAGATGAAGCTTTCTACAAACAACCCTTCGCTGACG
TGATTGGTTATGTCACAAACATAAACCATCCTTGCTACAGCCTAGAACAGGCAGCAGAAGAAGCCTTTGTAAATG
ACATTGACGAGTCGTCCCCAGGCACTGAGTGGGAACGGGTGGCCCGGCTGTGTGACTTTAACCCCAAGTCTAGCA
AGCAGGCCAAAGATGTCTCCCGCATGCGCTCAGTCCTCATCTCCCTCAAGCAGGCCCGCTGGTGCACTGAAGAG
CCACCCTGTGGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTCATTGGATTAATT
ATGTTGAGTTCTTTTGGACCAAACCTTTTTGTCTTTAGAGTTGTTTCATTGTTTGTGATTGCATGTTTCCTTCCTT
CAACTGTGTTCTCCCTGGCATTACAGAGAGGAGGGAGAGGAGGAAGAGGAAGGGGAGGGAAGCTTCCCAAGAGTAG
CCTCAACCTGTGCTTCTGTGCATTATTCTGAGAATAAATTTCTGTTTCAAACCTGT

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FIGURE 2692

MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFLAQQESEIAGIENDEAFAILDGGAPGPQPHGEPPGGPDAV
DGVMNGEYYQESNGPTDSYAAISQVDRLQSEPE SIRKWREEQMERLEALDANSRKQEA EWKEKAIKELEEWYARQ
DEQLQKTKANNRVADEAFYKQPFADVIGYVTNINHPCYSLEQAEEAFVNDIDESSPGTEWERVERLCDFNPKSS
KQAKDVSRMRSVLISLKQAPLVH

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FIGURE 2693

GCTTCTGTACTGCCAGGTCCGGGTCGGCGGGCTGCACTGCGG**ATG**AGACCGGTGCGACTCATGAAGGTGTTCTGTCA
CCCGCAGGATACCCGCCGAGGGTAGGGTCGCGCTCGCCCGGGCGGCAGACTGTGAGGTGGAGCAGTGGGACTCGG
ATGAGCCCATCCCTGCCAAGGAGCTAGAGCGAGGTGTGGCGGGGGCCACGGCCTGCTCTGCCTCCTCTCCGACC
ACGTGGACAAGAGGATCCTGGATGCTGCAGGGGCCAATCTCAAAGTCATCAGCACCATGTCTGTGGGCATCGACC
ACTTGGCTTTGGATGAAATCAAGAAGCGTGGGATCCGAGTTGGCTACACCCAGATGTCCTGACAGATAACACCG
CCGAACTCGCAGTCTCCCTGCTACTTACCACCTGCCGCCGGTTGCCGGAGGCCATCGAGGAAGTGAAGAATGGTG
GCTGGACCTCGTGGAAGCCCCCTCTGGCTGTGTGGCTATGGACTCACGCAGAGCACTGTCCGGCATCATCGGGCTGG
GGCGCATAGGCCAGGCCATTGCTCGGCGTCTGAAACCATTCCGGTGTCCAGAGATTTCTGTACACAGGGCGCCAGC
CCAGGCCTGAGGAAGCAGCAGAATTCCAGGCAGAGTTTGTGTCTACCCCTGAGCTGGCTGCCCAATCTGATTTCA
TCGTCGTGGCCTGCTCCTTAACACCTGCAACCGAGGGACTCTGCAACAAGGACTTCTTCCAGAAGATGAAGGAAA
CAGCTGTGTTTCATCAACATCAGCAGGGGCGACGTCGTAAACCAGGACGACCTGTACCAGGCCTTGGCCAGTGGTA
AGATTGCAGCTGCTGGACTGGATGTGACGAGCCCAGAACCCTGCCTACAAACCACCCTCTCCTGACCCTGAAGA
ACTGTGTGATTCTGCCCCACATTGGCAGTGCCACCCACAGAACCCGCAACACCATGTCCTTGTGGCAGCTAACA
ACTTGCTGGCTGGCCTGAGAGGGGAGCCGATGCCTAGTGAACCTCAAGCTG**TAG**CCAAACAGTAGAGATGGAGGGC
CGGGAAGCAAACCGTGCCCTGGTATTGTCAGACACACCCAGGCTTGATTGGATCCACAGGCAGAGCCAAGGGAA
GGTGTGATTCTCTGAGGAAAGAGTGATTCTGATATATGTACTTGTACATTGGTGTGGACACATTTGCGCCAAA
AGTATGGTAATTCTATTATTAAATAATTCTCTGAG

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FIGURE 2694

MRPVRLMKVFVTRRIPAEGRVALARAADCEVEQWDSDEPIPAKELERGVAGAHGLLCLLSDHVDKRILDAAGANL
KVISTMSVGIDHLALDEIKKRGIRVGYTPDVLDTTAE LAVSLLLTTCRRLPEAIEEVKNGGWTSWKPLWL CGYG
LTQSTVGI IGLGRIGQAIARRLKPFQVQRFLYTGRQPRPEEAAEFQAEFVSTPELAAQSDFIVVACSLTPATEGL
CNKDFQKMKETAVFINISRGDVVNQDDLYQALASGKIAAAGLDVTSPEPLPTNHPLLT LKNCVILPHIGSATHR
TRNTMSLLAANNLLAGLRGEPMPSELKL

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FIGURE 2695

AGTGTGAAATCTTCAGAGAAGAATTTCTCTTTAGTTCTTTGCAAGAAGGTAGAGATAAAGACACTTTTTCAAAAA
TGGCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAATGAAGAGCAGGAATATGTTCAAACGTGTGA
AGTCATCCAAAGGTGGTCCCGGATCAGCGGTGAGCCCCTATCCTACCTTCAATCCATCCTCGGATGTCGCTGCCT
TGCATAAGGCCATAATGGTTAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACTAAGCGAAACAATGCAC
AGCGTCAACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCCTGGATGAAACACTTAAGAAAGCCCCCTA
CAGGTACCTTGAGGAGGTTGTTTTAGCTCTGCTAAAACTCCAGCGCAATTTGATGCTGATGAACCTTCGTGCTG
CCATGAAGGGCCTTGGAAGTGAAGATACTCTAATTGAGATTTTGGCATCAAGAACTAACAAAGAAATCAGAG
ACATTAACAGGGTCTACAGAGAGGAACTGAAGAGAGATCTGGCCAAAGACATAACCTCAGACACATCTGGAGATT
TTCGGAACGCTTTGCTTTCTCTTGCTAAGGGTGACCGATCTGAGGACTTTGGTGTGAATGAAGACTTGGCTGATT
CAGATGCCAGGGCCTTGATGAAGCAGGAGAAAGGAGAAAGGGGACAGACGTAAACGTGTTCAATACCATCCTTA
CCACCAGAAGCTATCCACAACCTTCGCAGAGTGTTTCAGAAATACACCAAGTACAGTAAGCATGACATGAACAAAG
TTCTGGACCTGGAGTTGAAAGGTGACATTGAGAAATGCCTCACAGCTATCGTGAAGTGCGCCACAAGCAAACCAG
CTTTCTTTGCAGAGAAGCTTCATCAAGCCATGAAAGGTGTTGGAACTCGCCATAAGGCATTGATCAGGATTATGG
TTTCCCGTTCTGAAATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTTGCCAAG
CCATCCTGGATGAAACCAAAGGAGATTATGAGAAAAATCCTGGTGGCTCTTTGTGGAGGAACTTAAAACATTCCCTT
GATGGTCTCAAGCTATGATCAGAAGACTTTAATTATATATTTTCATCCTATAAGCTTAAATAGGAAAGTTTCTTC
AACAGGATTACAGTGTAGCTACCTACATGCTGAAAAATATAGCCTTTAAATCATTTTTATATTATAACTCTGTAT
AATAGAGATAAGTCCATTTTTTAAAAATGTTTTCCCCAAACCATAAAACCCTATACAAGTTGTTCTAGTAACAAT
ACATGAGAAAGATGTCTATGTAGCTGAAAATAAAATGACGTCACAAGAC

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FIGURE 2696

MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGVD EATI IDILTKRNNA
QRQQIKAAYLQETGKPLDETLKKALTGHLEEVVLALLKTPAQFDADELRAAMKGLGTDEDTLIEILASRTNKEIR
DINRVYREELKRDLAKDITSDTSGDFRNALLSLAKGDRSEDFGVNEDLADSDARALYEAGERRKGTDVNVFNTIL
TTRSYPQLRRVFQKYTKYSKHD MNKVL DLELKGDIEKCLTAIVKCATSKPAFFAEK LHQAMKGVGTRHKALIRIM
VSRSEIDMNDIKAFYQKMYGISLCQA ILDETKGDYEKILVALCGGN

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FIGURE 2697

TTTCCGCGCTACCTACAGAGGGGCCCATACGGCGTTGTTCTGGATTCCCGTCGTAACTTAAAGGGAACTTTTAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAAGCAACCCACTT
AGGTGGCACC AATCTTGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTAGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCATGGCTTCTTGTTGTTAC
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTG
GTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCTATGACCACCCGTGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGA
GGAATTTCAAGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCCCTGTGTCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 2698

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYICKRKSNGIYIINLKRTWEKLLLAASAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGHFTPGTFINQIQAAFREPWLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPMRYVDIAIPCNNKGAHSVGLMWRMLAREVLRMCSTISYDHPWEVMPDLYFYRDPEDIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTAAQATEWVGATTDWS

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FIGURE 2699

CAGAGGGGCCCATAACGGCGTTGTTCTGGATTCCCGTCGTAACCTTAAAGGGAAACTTTCACAATGTCCGGAGCCCT
TGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCCACTTAGGTGGCACC AATCT
TGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCATCTATATCATAAATCTGAAGAGGACCTG
GGAGAAGCTTCTGCTGGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCATGGCTT
CTTGTGGTTACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCT
CTGTGTAACACAGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTG
GGTTTGATGTGGTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCCCTATGACCACCCGTGGGAG
GTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGATATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCA
GTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCCTGCTACTCAGCCTGAGGTTGCA
GACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGC

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FIGURE 2700

GGGAAACTTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCA
CAGGAACCCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTGTAAAAGGAAAAGTAATGGCA
TCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTAGTGCTATTGTTGCCATTGAAAACC
CTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAG
CCTCTCCAATTGCTGGCCACTTCACTCCTGGAACCTTCACTAACCAGACACGGAGGCATCTTATGTTAACCTACC
TACCATTGCTCTGTGTAACACAGATTCTCCTATGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGC
TCACTCAGTGGGTTTGATGTGGTAGATGCTGGCTCGGGAAGTTCTGCGCATGTGTAGCACGATTTCTATGACCA
CCCGTGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGATATTGAAAAGAAGAGCAGGCTGCTGC
TGA

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FIGURE 2701

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTGTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACCTATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCAGTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTG
TGACATGTCCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCCTCCGAGAGTGCCC
CTCGGTCTTGAATAACAAGGTGCAGGCTGGAACAGCTCCTTGTACAACACGCCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTGTCTGTGGGAGGCATCCGGGCCTCTCTGTA
TAATGCTGTCACAATTGAAGACGTTCAGAAGCTGGCCGCCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATG
AACACATCCTAACCCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAA
AAGTTAACACAGTATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAAC
ATCCACAACCTCTGTAAAGCTGGTGGGACCTAATGTACCTTAATTCTGACTTGAAGTGAAGCATTTTAAGAAAT
CTTGTTGCTTTTCTAACAAATTCCCGCGTATTTTGCCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTGCC
TGTGGACTTAATAATGCAAGTTGCGATTAAATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGG
CCCTCTAGGTGCTGAATCTACACATCTGTGGGGTCTCCTGGGTTTACGCGGCTGTTGATTCAAGGTCAACATTGAC
CATTGGAGGAGTGGTTTAAGAGTGCCAGGCGAAGGGCAAACCTGTAGATCGATCTTTATGCTGTTATTACAGGAGA
AGTGACATACTTTATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTT
ATATTTCTAATAATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCAT
TATAGCATTCCATTAGCAAGAGTTGTACCCCTCCCCAGTCTTCGCCTTCCTCTTTTTAAGCTGTTTTATGAAAA
AGACCTAGAAGTTCTTGATTCATTTTTACCATTCTTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTT
TCAATTATGCCATTAACTAAACATTTCTGTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGT
ATGACTACGAGAGTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAAT
ATGTAAAGAACATTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2702

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIIINNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVLNLI GLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGA QKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCF SIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIYEIIDNSQGFYVSVGGIRASLY
NAV TIEDVQKLA AFMKKFLEMHQL

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FIGURE 2703

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTTGTTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTCGGGAATTGCTAGCTGTTCCAGACAACCTATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCAGTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAATGAGACGGTGCATGGTGTGGAGTTTGACTTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTG
TGACATGTCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCTCCGAGAGTGCC
CTCGGTCTTGAATACAAGGTGCAGGCTGGAAACAGCTCCTTGTACAACACGCCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCTTGAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTCAC
AATTGAAGACGTTTCAAGAGCTGGCCGCCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTCACCTTAATTCTGACTTGAACCTGGAAGCATTTTAAGAAATCTTGTTGCTTTT
CTAACAAATTTCCCGCTATTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCTGTGGACTTAAT
AATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGTCTCCTGGGTTTCAAGGCTCAACATTGACCATTTGGAGGAGT
GGTTTAAGAGTGCCAGGCGAAGGGCAAACCTGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCGAGTCTTCGCCTTCTCTTTTTTAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTTACCATTCTTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTTCCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2704

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHVKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFCSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVGGIRASLYNAVITIEDVQKLAAFMKKFLEMHQL

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FIGURE 2705

ATGGTGGAAAAGGAGCAAAGACATAGTCGGAATGAATGGGAAGGTTGGTATAATGGACCCAAATCTCTTGTTTCA
AAACAAGTTAAGGAAAATTGTTTTAAAAATCCTAAACACTCAGTCTGTGAATATGATCCTGGGTCCTCTCAGAAC
TGCCAACATTCTAACACCAGCTGGCACCAGAGACCCTGCTCTGAGGTCAGGGATGATGTGAGCAAGTGGTCTAAT
AATTCCTCAGAACTCTTTTTCTCATTCTTCTTCCCTCTCTTCCCTTACCAAGAACAGAGAAATGGTC
TTTCTTAAAGAAGAAGAAAAGAGGACTCCAACCGTAAGAATTGAGTACAAGGAGTTGCTCAGTGTGAAGCTG
AAGAGGGCATCTGAGGAGATGAGCTGTAAAACATATTACAAGAGGGACGTGTGAAGGGAGTGACCATTCCGAAG
AACCCAGACAGCTGCCCACAGGAGAAGGATGCCATCCCAAAGATGAATCAGAGTTTCCATGAGCAAAAGAGCCTT
GTGAGTCGTCGGCAAAGCCTGAGTCCTGTCTTTTCGCTCTCCTCCCCGACAGTATGAGCTTCACCACTCGCTCC
ACCTTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCCAGCTACGGCGCCCGGCCTATAGACAATGCC
CATCTTGCTGCTGATGACTGTAGAGTCAAGTATGAGACAGAACTGGCCATGCACCAGTCTGTGGAGAAAGACATC
CATGGGCTCCACAAGGTCATCGATGACACCAATGTCACTTGGCTGCAGGTGGAGACACAGATCGAGGCTCTCAAG
GAGGAGCTCTTTTATGAAGAAGAACCACGAATAGGAAATAAAAGGCCCAAGCTCAGATTGCCAGCTCTGGGTT
GACAGTGGAGTGGTCCCCATGCAGCCCGCCAAGGTCGGAGCTGCTGAGATGATGCTCACTGAGCCGAGATGCACA
GTCCAGTCTTCGGAGGTGACCTGGAATCGATGAGAAATCTGAAGGCTAGCTTGGGGAACAGCCTGAGGGAGGTG
GAGGCCTGCTACACCGTGAAGATGGAGCAGCTCGACGGAATCGTGCCACACTTGGAGTCAGAGCTGGCACAGACC
TGGGCAGAGGAACAGTGCCAGGCCCAGCAGTACGAGGCCCTGATGAACATCAAGGTCAAGTTGGAGGCTGAGATC
ACCACCTACTGCTGCCTGCTGAAAGATGGCGAGGACGTCAATCTTGGTGATACCTGGACAGCAGCAACTCCATG
CAAACCATCCAAAAGACCACCACCTGCCAGACAGTGGATGGCAAAGTGGTGTCTGAGACCAAAGATACCAAAGTT
CTGAGGCATTACACCAGCAGAAATTACAACCTGCATGGCCCAGGAAAGGCGCAATGGCAAAGAAACAGGAAGTGAT
TCTTACAGTGGGGAACCCCTGGAAGCTGAGGATGCCAAAGCCGTAAGACTTAACATCTCCAAGTCATCATTTCGAG
GTGTTAATGCTGGAAGCTACAGAGAAGATGACAGGTTCTCATTAAATTGA

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FIGURE 2706

MVEKEQRHSRNEWEGWYNGPKSLVSKQVKENC FKNPKHSVCEYDPGSSQNCQHSNTSWHQRPCSEVRDDVSKWSN
NSSELFFSFFFPLFLFCLTKNREMVFLKEEEKRTPTVRIEYKELLSDVKLKRASEEMSCKTYSQEGRVKGV TIPK
NPDSCPQEKDAIPKMNQSFHEQKSLVSRRLSPVLSLSSPDMSFTTRSTFSTNYRSLGSGVQAPSYGARPIDNA
HLAADDCRVKYETELAMHQSV EKDIHGLHKVIDDTNVTWLQVETQIEALKEELFH EEEPRIGNKRPTSSDCQLWV
DSGVVPMQPAKVGAAEMMLTEPRCTVQSSEVDLES MRNLKASLGNSLREVEACYTVKMEQLDGIVPHLESELAQT
WAEEQCQAQQYEALMNIKV KLEAEITTYCCLLDGEDVNLGDTLDSSNSMQTIQKTTTCQTVDGKVVSETKDTKV
LRHYTSRNYNCMAQERRNGKETGSDSYSGEPLAEDAKAVRLNISKSSFEVLMLEATEKMTGSSLM

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FIGURE 2707

ACAGAGCCCCGGCCGCCGCCAGAGCGATGTTCCCGCAGAGCCGGCACCCGACGCCGCACCAGGCTGCAGGCCAGC
CCTTCAAGTTCACTATCCCGGAGTCCCTGGACCGGATTAAAGAGGAATTCCAGTTCCTGCAGGCGCAGTATCACA
GCCTTAAATTGGAATGTGAGAACTGGCAAGTGAAGACAGAAATGCAGAGGCACTATGTGATGTATTATGAAA
TGTCATATGGATTAAACATTGAAATGCACAAACAGACTGAAATCGCCAAGAGATTGAATACGATTTGTGCACAAG
TCATCCCATTTCTGTCTCAGGAACATCAACAACAGGTGGCCAGGCTGTTGAACGTGCCAAACAGGTGACCATGG
CAGAATTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCATCTTTCTCATGGCCACGGACCCCCAGTTC
CCCTTACGCCTCACCCCTTCGGGACTTCAGCCTCCTGGAATCCCCCCCCCTCGGGGGCAGTGCCGGCCTTCTTGCGC
TGTCTAGTGCTCTGAGTGGGCAGTCTCACTTGGCAATAAAGATGACAAGAAGCACCACGATGCAGAGCACCACA
GAGGTGAGAGGCCGGGCAAGAGTAATTCCTCCTGGTCCCAGACAGTCTAAGAGGCACAGATAAACGCAGAAATG
GACCTGAATTTTCCAATGACATCAAGAAAAGGAAGGTGGATGATAAGGACTCCAGCCACTATGACAGTGATGGTG
ACAAAAGCGATGACAACCTTAGTTGTGGATGTGTCTAATGAGGACCCTTCTTCTCCGCGAGCAAGCCCTGCCCACT
CGCCCCGGGAAAATGGAATCGACAAAATCGCCTGCTAAAGAAGGATGCTTCTAGCAGTCCAGCTTCCACGGCCT
CCTCGGCAAGTTCCACTTCTTTGAAATCCAAAGAAATGAGCTTGCATGAAAAAGCCAGCACGCCTGTTCTGAAAT
CCAGCACACCAACGCCTCGGAGCGACATGCCAACGCCGGGCACCAGCGCCACTCCAGGCCTCCGTCCAGGTCTCG
GCAAGCCTCCAGCCATAGACCCCTCGTTAACCAAGCGGCAGCTGGCTTGAGGACACCCCTGGCAGTGCCCGGCC
CATATCCTGCTCCTTTTGGGATGGTCCCCACGCTGGCATGAACGGCGAGCTGACCAGCCCAGGCGCTGCCTACG
CCAGTTTACACAACATGTCGCCCCAGATGAGCGCCGCAGCCGCCGCGGCCGCGTGGTGGCCTACGGGCGCTCCC
CCAATGGTGGGGTTTGATCCTCCCCCTCACATGAGAGTACCTACCATTCTTCCAAACCTGGCAGGAATCCCTGGGG
GGAAACCTGCATACTCCTTCCACGTTACTGCAGACGGTCAGATGCAGCCTGTCCCTTTTCCCCCGACGCCCTCA
TCGGACCCGGAATCCCCCGGCATGCTCGCCAGATCAACACCCTCAACCACGGGGAGGTGGTGTGCGCTGTGACCA
TCAGCAACCCACAGAGACACGTGTACACAGGCGGGAAGGGCTGCGTCAAGGTCTGGGACATCAGCCACCCTGGCA
ATAAGAGCCCTGTCTCCAGCTCGACTGTCTGAACAGAGACAATTATATCCGTTCTGTAAATTGCTACCCGATG
GCTGCACTCTCATAGTGGGAGGGGAAGCCAGTACTTTGTCCATTGTTGGGACCTGGCGGCTCCAACCCCGCGCATCA
AGGCGGAGCTGACGTCTCGGCCCGCCCTGCTACGCCCTGGCCATCAGCCCCGATTCCAAGGTCTGCTTCTCAT
GCTGCAGCGACGGCAACATCGCTGTGTGGGATCTGCACAACCAGACACTAGTGAGGCAATTCCAGGGCCACACAG
ACGGAGCCAGCTGTATTGACATTTCTAATGATGGCACCAAGCTCTGGACGGGTGGTTTGGACAACACAGTCAGGT
CCTGGGACCTGCGCGAGGGGCGGCAGCTGCAGCAGCACGACTTCACCTCCCAGATCTTCTCCCTGGGGTACTGCC
CCACCGGGGAGTGGCTGGCAGTGGGCATGGAGAGCAGCAATGTGGAGGTGCTGCACGTGAACAAGCCTGACAAGT
ACCAGCTGCACCTGCATGAGAGCTGCGTGCTGTCCCTGAAATTTGCTTACTGTGGTAAATGGTTTGTGAGTACTG
GAAAAGATAACCTCCTCAATGCTTGGCGGACCCCTATGGAGCCAGCATATTCCAGTCCAAGAGTCCTCGTCAG
TGCTTAGCTGTGACATCTCTGTGGATGATAAGTACATAGTCACTGGCTCGGGGGACAAGAAGGCTACAGTCTATG
AAGTCATCTACTGAAAACATTATGTGGT

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FIGURE 2708

CGGCAGTCTCGCGCGGCTACTGCAGCACTGGGGTGTGAGTTGTTGGTCCGACCCAGAACGCTTCAGTTCTGCTCT
GCAAGGATATATAATAAAGTATTGGTGTGCCCGTTTAATAAAAGAATATGGAAGAGGAACAAGCATTAAAA
TCCCTAACACTGAAACCAATGGTGAATTTGGTAAACGCCCTGCAGAAAGATATGGAAGAGGAACAAGCATTAAAA
GATCTAGAAACACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGAGCAAGAATGCTGGGGCAGTGATTGGAA
AAGGAGGCAAGAATATTAAGGCTCTCCGTACAGACTACAATGCCAGTGTTCAGTCCCAGACAGCAGTGGCCCCG
AGCGCATATTGAGTATCAGTGCTGATATTGAAACAATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGAAG
AGGGCCTGCAGTTGCCATCACCCTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATT
ACCAACACTATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTA
TTGGGGTCAAAGGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTTCCAGGAATGCT
GTCCTCATTCCACTGACAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTTGTAGAGTGCATAAAGATCATCC
TTGATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTACGATGAAACCTATG
ATTATGGTGGTTTTACAATGATGTTTGATGACCGTCGCGGACGCCCAGTGGGATTTCCCATGCGGGGAAGAGGTG
GTTTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTATGATGATATGAGCC
CTCGTCGAGGACCACCTCCCCCTCCTCCCGGACGAGGCGGCCGGGTGGTAGCAGAGCTCGGAATCTTCTCTTC
CTCCACCACCACCCTAGAGGGGAGACCTCATGGCCTATGACAGAAGAGGGAGACCTGGAGACCGTTACGACG
GCATGGTTGGTTTCAGTGCTGATGAAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGG
CTTATGAACCACAGGGTGGCTCCGGATATGATTATTCCTATGCAGGGGGTCTGGCTCATATGGTGATCTTGGTG
GACCTATTATTACTACACAAGTAAGTATTCCTAAAGATTTGGCTGGATCTATTATTGGCAAAGGTGGTCAGCGGA
TTAAACAAATCCGTCATGAGTCGGGAGCTTCGATCAAAATGATGAGCCTTTAGAAGGATCCGAAGATCGGATCA
TTACCATTACAGGAACACAGGACCAGATACAGAATGCACAGTATTTGCTGCAGAACAGTGTGAAGCAGTATGCAG
ATGTTGAAGGATTCTAAATGCAAGATATTTTTCTTTTTTATAGTGTGAAGCAGTATTCTGGAAAGTTTTCTAAG
ACTAGTGAAGAACTGAAGGAGTCTGCATCTTTTTTTTTTATCTGCTTCTGTTTAAAAAGCCAACATTCCTCTG
CTTCATAGGTGTTCTGCATTTGAGGTGTAGTGAAATCTTTGCTGTTACCAGATGTAATGTTTTAGTTCCTTACA
AACAGGGTTGGGGGGGGAAGGGCGTGCAAAACTAACATTGAAATTTGAAACAGCAGCAGAGTGAGTGGATTT
TATTTTTCGTTATTGTTGGTGGTTTTAAAAAATCCCCCATGTAATTATTGTGAACACCTTGCTTTGTGGTCACT
GTAACATTTGGGGGGTGGGACAGGGAGGAAAAAGTAACAATAGTCCACATGTCCCTGGCATCTGTTCCAGAGCAGTG
TGCAGAAATGTAATGCTCTTTTGTAAAGAAACGTTTTATGATTTTTAAATAAATTTAGTGAACCTATTTTTGGTGG
TCATTTTTTTTTTAAGACAGTCATTTTAAATGGTGGCTGAATTTCCCAACCCACCCCCAACTAAACACTAAGT
TTAATTTTCAGCTCCTCTGTTGGACATATAAGTGCATCTCTTGTGGACATAGGCAAAATAACTTGGCAAACTTA
GTTCTGGTGATTTCTTGATGGTTTGAAGTCTATTGCTGGGAAGAAATTCATCATACATATTCATGCTTATAAT
AAGCTGGGGATTTTTGTTTGTGTTTGCAAATGCTTGCCCTACTTTTCAACAATTTCTATGTTAGTTGTGAAG
AACTAAGGTGGGGAGCAGTACTACAAGTTGAGTAATGGTATGAGTATATACCAGAATTCGATTGGCAGCAAGTT
TATTAATCAGAATAACACTTGTTTATGGAAGTACTAATGCTGAAAAAATTGATTATTTTTATTAGATAATTTCT
CACCTATAGACTTAACTGTCAATTTGCTCTAGTGTCTTATTAGTTAACTTTGTAAAATATATATATACTTGT
TTCCATTGTATGCAATTGAAAGAAAAAGATGTACCATTTCTCTGTTGTATGTTGGATTATGTAGGAATGTTTG
TGTACAATTCAAAAAAAAAAAGATGAAAAAGTTCCTGTGGATGTTTTGTGTAGTATCTTGGCATTGTATTGA
TAGTTAAATTCACCTCCAAATAAATAAACACCCATGATGCTAG

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FIGURE 2709

METEQPEETFPNTETNGEFGKRPAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGKGGKNIKALRTDYNAS
VSVPDSSGPERILSISADIETIGEILKKIIPITLEEGLQLPSPTATSQLEPLESDAVECLNYQHYKGSDFDCELRL
IHQSLAGGIIGVKGAKIKELRENTQTTIKLFQECCPHSTDRVVLIGGKPD RVVECIKIILDLISESPIKGRAQPY
DPNFYDETYDYGGFTMMFDDRRGRPVGFPMRGRGGFDRMPPGRGGGRPMPPSRRDYDDMSPRRGPPPPPPGRGGRG
GSRARNLPLPPPPPPRGGDL MAYDRRGRPGDRYDGMVGFSADETWD SAIDTWSPSEWQMAYEPQGGSGYDYSYAG
GRGSYDGLGGPIITTTQVTIPKDLAGSIIGKGGQRIKQIRHESGASIKIDEFLEGS EDRIITITGTQDQIQNAQYL
LQNSVKQYADVEGF

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FIGURE 2710

AAAAAGGAACTGGGAGCGCGCCGCGCGGTTCTGTCTTACAGTTGCGCTGCCAGGGACCGATGTTGCGCGAG
GAAAATGCGGGACGCCCAGGTCGGTGCTCGGCCAGACTTATGCCCGTGTTTTACAGCCCACACTCGTGCCCGA
AGCCCCCTTACCCCGCCCCGGGCTGTGGTCTGTGGGCTGTGGGACGAGCTGCGGCGCGGGCCATTTCTGAGCAGTG
GAGGTTTCAAGTAATCCACTAACAACCAGTTCCAAATTCTGTCAATCCTGTGCTGCTGTTCTCTCGTGTTAA
TAGATGCATATTATTTCTTTTATTTAAAGAAATGAATGTGACTAGTATTGCATTAAGAGCTGAAACTTGGCTTT
TAGCTGCATGGCATGTTAAAGTACCTCCGATGTGGCTGGAAGCTTGATTAACTGGATTCAAGAAGAAAAATAATA
ATGTTAACTTGAGTCAGGCCCAAATGAATAAACAAGTGTTTGAGCAGTGGCTCCTTACTGATCTGAGGGATTG
AGCATCCTCTTTTACCCGATGGCATTTTAGAAATTCCAAAAGGAGAATTAAATGGATTTTATGCTCTGCAGATTA
ATTCTTGGTTGATGTAAGTCAGCCTGCATACTCCAGATACAGAAGTTGAGAGGAAAGAATACAACAAATGATC
TAGTTACAGCTGAAGCACAAGTAACCCCAAACCTTGGGAAGCAAAGCCTTCACGAATGTTGATGCTGCAGCTAA
CTGATGGAATCGTACAAATACAGGAATGGAATATCAGCCTATTCCAATTCTTCATAGTGATCTTCTCCAGGT
CAAAAAATTTGATTTATGGAATATATCTTTCCGCTCTGGTGTTCTCTTATTGAAACCAGAAAACGTGAAAGTGT
TAGGAGGTGAAGTAGATGCTCTTTTAGAAGAATATGCCCAAGAAAAAGTACTTGCAAGATTAATAGGGGAACCTG
ATCTTGTAGTTTCAGTCATACCAACAATTCTAACGAAAACATTCCCAGAGTTACAGATGTTCTAGATCCTGCAT
TAGGTCCTTCTGATGAAGAACTCTTGGCAAGTCTTGATGAAAATGATGAGCTTACAGCAAATAATGACACTTCCT
CAGAACGATGTTTACCACAGGTAGTTCTCAAATACCATTCCCACAAGACAGTCAAGTTTTGAGCCAGAATTTG
TTATTTCTCCAAGACCAAAGAGGAACCATCAACCTATCTATACATGTAATGGATGGAGAATTAGATGACTTTT
CACTGGAGGAGGCCTTGCTTTTAGAAGAACTGTCCAGAAAGAACAGATGGAACCTAAGGAATTGCAACCATTGA
CTTTTAACAGAAATGCCGATCGAAGTATAGAGAGATTTTCACATAATCCTAATACTACGAATAACTTTTCTTTGA
CTTGCAAAAATGGAACAATAATTGGAGTGAAAAAAATGTATCTGAACAAATGACTAATGAAGACAAATCATTG
GTTGTCCATCTGTTAGAGACCAAAACAGGAGTATTTTTTCAGTTCATTGTAATGTACCCTTAGCCCATGATTTTA
CAATAAAGAAAAGAACTTAGAGACAGATAATAAAATAAAACAAACCAGCAGTTCAGATAGCCATTCTTAAATA
ATAAAATATTAAATAGAGAGGTGGTCAACTATGTACAGAAAAGGAATTCACAAATTTCTAATGAAAATGATTGTA
ATTTACAGAGTTGTTCTTTAAGATCATCAGAGAATAGCATTAACTTTCTATTGCCATGGATTTGTATTCTCCAC
CCTTTGTCTATTTGTCTGTTCTAATGGCCAGCAAACCAAAGGAAGTTACAACAGTGAAAGTGAAAGCATTATTG
TAACCTTAACCTGGAATCTCTCAAGTTCTGGTGGTATTTGGAGTATAACTGCAAAGGTGTCTGATGGTACTGCAT
ATCTAGATGTAGACTTTGTGGATGAAATACTTACTAGCTTGATAGGGTTCTCAGTACCAGAAATGAAACAGTCAA
AAAAGGATCCTCTTCAATACCAAAAGTTCTGGAAGGGTTGCAGAAATGTCAAAGAGATCTAATAGATTTGTGCT
GTCTAATGACTATTTTCAATTAATCCTTCTGTCTAAAGCAATGGTACTGGCATTACAAGATGTTAATATGGAAC
ACCTTGAGAACTAAAGAAGCGGTTAAATAAATAATTAACCTAAATAGTATTAGGAACAATTAACCAACAAG
GAAATATTTAGAATTTGTTTACAATTTTACTTATGATACTTTGTGTAAAAAGGAAAAATGAAATTCATAGCTTA
TTTCAGTTTAATTTTAAAGTGTTTAAATCATGTTTGTATATGTGGAGCTTTTGAAAATAAGTTAATCTTTTTTT
TTTTTTTTTAATGTCAGGGTATTGCTCTGTTGCCAGGCTAGAGTGCAGTGGCATGATCATAGGTTATTGCATCA
ACCTCTTGAGCTCAAGCGATCCTCCTGCCTTAGCCTCTTGAGTTGCTGGGACTATAGGCATGTACCACCATGCC
AGCTAATTTATAATTACTATTATTGTTTTGTAGGGACAGAGTTTTGCTATGTTGCCAGATTGGTCTCAACTCC
TGGCCTCTCACTCCTGCCGTCATGGCCTCCAAAGTTTACTTTTTTTAAAGTAAGTGTAGATGGAGGAATATGG
TGACCCACTATTGTTGAGAAATTTGTTTTCCACTTGTCACGTCACATAAGATGATTGCTAAAAATATTGTACTGGT
GTTCCGGTGGTGAGTCATATTTTGAAGTTAATAATTATAAATAGGTAATTTCTTCTAATATGTTGGTACTGTC
TATGGCCATACCACCCTGAACATGCCTGAGCTTGTCATAATATGTTGAGTACCCAAAAGATTTGTTTATATTGTT
AATCTTAGGGAAAAAAATTAATCCAGTAGATCAGAACATCAGGCTTTCAGATACAAATGATTTACTGGTTT
TTATTTTGTGATTATAATATTTGGTATATTTAAGGTAATCTAGTTAACTAGATGCTATTTTCATAGATTATATTG
AATGATTTAAACTTTTATTTTCAAGGATAGTTTATTTTAAATGGCATATTGAAAACATCATTATTAAGATCCAGT
AGGTAGGACATTTATTGGATTAAATGAAGCATTTATCTATGTCTTTAGGTGTCTATTGTTCCCTTTCTGAATTAG
CTGTACATATAAGCCTTCCTTTGGTTTTAAGTACTGATTTTTTTTTTAAAAAAGAGGGACTGTTTACCATTCTT
CCACTGTGCTGTTATAAAGTTGTATTTGAAAGGTAATGTTGTTTTTATTAATCTTTTGTCTTAAAAATAATTTAA
GTGCTTTGAATTTTAAACATTAAACAAATCCTTAAATAAC

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FIGURE 2711

TGCTCCGGAGGGCACGGGCTCCGTAGTCACCAACTGCAAGGCCCCCTCCCCCTGCGGGCGCTCCCCTGGCACAAAT
TCGCGTTTCGAGAGTGACCTGCACTCGCTGCTTCAACTGGATGCACCCATCCCCAATGCACCCCCTGCTCGCTGGC
AGCGCAAAGCCAAGAAAGCCACAGGCCCCGGCCCCCTCACCCATGCGGGCCGCCAACCGATCCCACAGCGCCAGCA
GGACTCCGGGGCCGAACCTCCTGGCAAATCCAGTTCCAAGGTTGAGACCACTCCTAGCAAACCTGGCGGTGACCGCT
ATATCCCCCATCGCAGTGCTGCCAGATGGAGGTTGCCAGCTTCCTCCTGAGCAAGGAGAACCAGCCTGAAAACA
GCCAGACGCCCACCAAGAAGGAACATCAGAAAGCCTGGACTTTGAACCTGAACGGTTTTGATGTAGAGGAAGCCA
AGATCCTTCGGCTCAGTGGAAAACCAAAAATGCGCCAGAGGGTTACCAGAACAGACTGAAAGTACTCTACAGCC
AAAAGGCCACTCCTGGCTCCAGCCGGAAGACCTACCATTACATTCCTTCCCTGCCAGACCATAACCTGGATGCCC
CTGAAATCCGAAATGACTACTACCTGAATCTTGTGGACTGGAGCTCTGGGAATGTATTGGCCGTGGCGCTGGACA
ACAGTGTGTACCTGTGGAGCGCAAGCTCTGGTGACATCCTGCAGCTTTTGCAAATGGAGCAGACTGGGAAATATG
TATCCTCTGCGGCCTGGATCAAAGAGGGCAACTACTTGGCTGTGGGCATCAGCAGTGCTGAGGTGCAGCTTTGGG
ATGTGCAGCAGCAGAAACGGCTTCGAAATATGACCATTCACTCTGCCCCGAGTGGGCTCCCTAAGCTGGAACAGCT
ATATCCTATCCAGTGGTTCACATTCTGGCCACATCCACCACCATGATGTTCCGGTAGCAGAACACCACGTGGCCA
CACTGAGTGGCCACAGCCAGGAAGTGTGTGGGCTGCGCTGGGTCCCAGATGGACGACATTTGGCCAGTGGTGGCA
ATGATAACTTGGTCAAAGTGTGGCCTAGTGCTCTTGGAGAGGGTGGCTGGGTTCTCTGCAGACATTCACCCTTC
AAGGGGCTGTCAAGGCCGTAGCATGGTGTCCCTGGAAGTCCAATGTCCCGCAACAGGAGGGGGCACCAGTGATC
GACACATTTGCATCTGGAACGTGTGCTCTGGGGCCTGTCTGAGTGCCGTGGATGCCCTTTCCCAGGTGTGCTCCA
CCCTCTGGTCTCCCCACTACAAGGAGCTCATCTCAGGCCATGGCTTTGCACAGAACCAGCTGGTTATTTGGAAGT
ACCCAACCATGGCCAAGGTGGCTGAACTCAAAGGTCACACATCCCGGTCCTGACTCTGACCATGAGCCCAGATG
GGGCCACAGTGGCATCTGCAGCAGCAGATGAGACCCCGAGGCTATGGCACTGTTTTGAGTTGGACCCTGTGTGGC
GGCGGGAGCGGGAGAAGGCCAGTGCAGCCAAAAGCAGCTTCATCCACCAAGGCATCCGCTGAAGACCAACCCCTC
GCCTCAGTTGTTTTTTATTTTTCTAATAAAGTCATGTCTCCCTTCA

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FIGURE 2712

CTTTCCCAGCCCCAGCCCGGCCCTTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGA
ACTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAA
GAATGTGCCCAACCTTCATGTCATGAAGGCCATGCAGTTTCTCAAGTCCCGAGGCTATGTGAAGGAACAGTTTGC
CTGGAGACATTTCTACTGGTATCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCAGA
GATTGTGCCTGCCACCCTATGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGATTGAGCG
ACCTACGAGACTCGCAAGAGGGGAAGCTGACAGAGATACCCACAGATTGAGTGCTGTGCCACCTGGTGCCGGAAG
AAAGCTGAGGCTGGGGCTGGGTCAGCAACCGAATTCCAGTTTAGAGGCGGATTTGGTCATGGACGTGGTCAGCCA
CCTCAGTAAAATTGGAGAGGATTCTTTTGATTGAATAAACTTACAGCCAAAAATCCTTAAAA

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FIGURE 2713

MLMPKKNRIAIYELLFKEGVMVAKKDVHMPKHPELADKNVNLHVMKAMQFLKSRGYVKEQFAWRHFWYLTNEG
IQYLRDYLHLPPEIVPATLCRSRPETGRPRPKGLEIERPTRLARGEADRDTHR

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FIGURE 2714

AGTCTCCGGCGAGTTGTTGCCTGGGCTGGACGTGGTTTTTGTCTGCTGCGCCCGCTCTTCGCGCTCTCGTTTCATT
TTCTGCAGCGCGCCACGAGGATGGGCCCAACAAGCAGATCTACTACTCGGACAAGTACTTCGACGAACACTACGAGT
ACCGGCATGTTATGTTACCCAGAGAACTTTCCAAACAAGTACCTAAAACATCTGATGTCTGAAGAGGAGTGGA
GGAGACTTGGTGTCCAACAGAGTCTAGGCTGGGTTCATTACATGATTCATGAGCCAGAACCACATATTCTTCTCT
TTAGACGACCTCTTCCAAAAGATCAACAAAATGAAGTTTATCTGGGGATCGTCAAATCTTTTTCAAATTTAATG
TATATGTGTATATAAGGTAGTATTCAGTGAATACTTGAGAAATGTACAAATCTTTCATCCATACCTGTGCATGAG
CTGTATTCTTCACAGCAACAGAGCTCAGTTAAATGCAACTGCAAGTAGGTTACTGTAAGATGTTTAAGATAAAAG
TTCTTCAGTCAGTTTTTCTCTTAAGTGCCTGTTTGAGTTTACTGAAACAGTTTACTTTTGTTCAATAAAGTTTG
TATGTTGCATTTAAAAAAAAAAAAAAAAA

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FIGURE 2715

MAHKQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRR LGVQQSLGWVHYMIHEPEPHILLFRRLPK
DQQK

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FIGURE 2716A

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCGCGGGGCTGTCCAGGCACGCGAGGCCCCCT
CAACAAAATGCTTCAACAAGTTCCAGAAAACATAAAATTTTCCTGCTGAAGAAGAGAAAATCTTGGAGTTTTGGAC
TGAATTTAATTGTTTTTCAGGAATGCTTAAAGCAATCAAAACATAAACCAAAATTTACCTTCTATGATGGTCCTCC
TTTTGCAACTGGACTGCCTCACTATGGACATATACTTGCGGGTACAATTAAAGATATAGTTACAAGATATGCTCA
CCAGAGTGGGTTTTCATGTTGACAGAAGATTTGGATGGGATTGCCATGGCTTACCTGTGGAATATGAAATTGATAA
GACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAGTATAACAATCAGTGCCGAGCAAT
TGTGATGAGATATTCTGCTGAGTGGAAGTCTACTGTTAGCAGACTTGGCCGATGGATTGACTTTGACAATGACTA
TAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAACCTCTATGATAAAGGCCTTGTTTA
TAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCCAACCTCGAGTCACACCAGAATTA
TAAGGATGTTCAAGATCCTTCAGTATTTGTAACCTTTCCCTTTTGAAGAAGATGAAACTGTATCTTTAGTTGCTTG
GACAACCACTCCCTGGACTCTACCTAGTAACCTTGCTGTGTGTGTTAATCCAGAAATGCAATATGTGAAAATTAA
AGATGTTGCCAGAGGACGATTACTCATTTTAATGGAAGCCAGATTGTCAGCCCTCTATAAATTGGAGAGTGACTA
TGAGATCCTTGAAAGATTTCTTGGTGCCTATCTTAAAGGCAAGAAGTACAGGCCCTGTTTGACTATTTCTTGAA
GTGTAAAGAGAATGGCGCTTTCACTGTGCTTGTTGACAACCTATGTGAAGGAAGAAGAAGGCACAGGGGTTGTCCA
CCAAGCTCCTTACTTCGGTGCTGAGGACTATCGGGTCTGTATGGACTTTAACATTATTCGGAAAGACTCACTCCC
TGTTTGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTTTCGAGGACAGTATGTGAAGGATGC
TGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCCACCACCTTCACTCACAGCTACCC
TTTTTGCTGGAGATCAGACACTCCTCTAATTTACAAAGCAGTGCCAGCTGGTTTGTGCGAGTGAGAACATGGT
GGACCAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCCAGAGTTGGTACGAGAAAAACGATTTGGAAATTG
GCTGAAAGATGCACGTGACTGGACAATTTCCAGAAACAGATACTGGGGCACCCCCATCCCCTGTGGGTGACGGA
TGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTGAAGAACTGTCAGGAGCAAAGATCTCAGATCT
CCACAGAGAGAGTGTGACCACCTGACCATTCCCTTCACGCTGTGGGAAGGGATCCTTGACCCGATCTCTGAAGT
GTTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTTATTACCCGTTTGAAAACAAGAGGGAGTT
TGAGGATGCTTTTCTGTCAGATTTTATTGCCGAGGGCATCGACCAAACCAGAGGATGGTTTTATACCTGCTGGT
GCTGGCCACGGCCCTCTTTGGACAACCGCCTTTCAAGAACGTAATTGTGAATGGGCTTGCTCTGGCAAGTGATGG
CCAAAAATGAGCAAACGGAAAAAGAATTATCCAGATCCAGTTTCCATCATCCAGAAGTATGGTGCTGATGCCCT
CAGATTATATCTGATTAACCTCCCCTGTGGTGAGAGCAGAAAACCTCCGCTTTAAAGAAGAGGGTGTGCGGGACGT
CCTTAAGGATGTACTGCTCCCATGGTACAATGCCTATCGCTTCTTAATCCAGAACGTTCTGAGGCTCCAGAAGGA
GGAAGAAATAGAATTTCTCTACAATGAGAACACGGTTAGAGAAAGCCCCAACATTACAGACCGGTGGATCCTGTC
CTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGGCTTTATACTGTGGTGCCTCGCCT
GGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGAAGATTAAAGGGTGAAAATGGGAT
GGAGGATTGTGTCATGGCCCTAGAAACCTTGTTTAGTGTTCTGCTTTCTCTTGCAGACTTATAGCTCCCTACAC
ACCTTTTCTCACTGAATTGATGTACCAGAATCTAAAGGTGCTGATTGACCCTGTTTCTGTTTCAGGACAAGGACAC
ACTCAGCATTCACTACCTCATGCTGCCCGTGTTTCGAGAAGAATTGATTGACAAGAAAACAGAGAGTGCAGTATC
TCAGATGCAGTCTGTGATTGAACTTGGAAGAGTGATCAGAGACCGAAAAACTATTCCCATAAAGTATCCTTTGAA
AGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCTTTGGAGAAGTATATCATTGAGGA
ACTCAATGTTGAAAAGTTACTGTCTACAGATAAAAAACAAGTATGGCATTTCGGCTAAGGGCAGAACCCAGATCA
CATGGTCTCTGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCCATCAAGCAGTTGAGCAGTGAGGA
GCTGGAGCAGTTCCAGAAGACTGGGACCATTGTTGTGGAAGGCCATGAATTGCACGATGAAGACATCCGCCTCAT
GTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCAGATGCTCAGGCTTTGGTCCTCTT
AGATGTCACCTCCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGAAGTCATCAATCGCATACAGAACTTCG
CAAAAAGTGCAATCTGGTTCCAACCTGATGAAATCACAGTGTACTATAAAGCAAAGTCTGAAGGAACATATCTGAA
TAGTGTTATTGAAAGCCACACAGAGTTCATATTTACCACCATAAAGGCTCCCTTGAAACCATATCCAGTTTCTCC
ATCGGATAAAGTCCTTATTCAAGAAAAAACACAGTTGAAGGGATCTGAACTGGAAATTACACTCACCAGAGGATC
TTCCCTTCTGCTGCTTGTGTCATATGTCAATCTTAACATTTGTGCAAATGGCAGTGAACAAGGTGGAGTATT
GCTCCTGGAAAATCCAAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAGAGTGTGTCACTAGCATTTTTGG
TGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAACCAAACCTGACTTACTGAGTCTTAG
TGGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGTTCTAGTACTCTTCTTGTGAGTA

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FIGURE 2716B

TATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTTAATGGGGACAGTGGGCACTCTCCTGCTTGAAAA
CCCCTTGGGCAGAATGGACTCACCCACCAAGGTCTTCTGTATGAAGCAGCCAAGGTGTTTGGCCTTCGGAGCAG
GAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGACATCCCCGTGAAGACTTTGAATAT
GAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTACTTATCAATGTTGTTCGGTCAGC
CCTTCCCTAATTACACCTATCCCCTACACATACATGCACATAGACACACACATGAACACACTGAAGATATTTCTT
TCAGGTGTGTGTAAAATATGCTGCTTGGATTGAAATTCAAATGGGATTGATTAGTCAAGTAACTTGAGACCTCAC
AGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGGTTACAATGTTACTTCAGCCCACA
GTTTATTTCTATTCTTGAGTTCTTAAGTACAGAAGATAGAAGTGATTTAAATGGCATAGTATATATATCATTTTC
TGGCCTTTTAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATATTTCTGCCACCTGGATTTTCCTG
GATAATTTGATGGAATATTTTAAGTTTCAGTAAATCAGAACAATAAACAACTCAGATAT

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FIGURE 2717

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS
GFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDPSVVFVTFPLEEDET VSLVAVTT
TPWTLPSNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLESDYEILERFPGAYLKGGKYRPLFDYFLKCK
ENGAF TVLV DNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIIIRKDSLPCVPVDASGCF TTEVTDFAGQYVKDADK
SIIRTLKEQGRLLVATTFTHSYPFCWRSDTPLIYKAVPSWFVRVENMVDQLLRNNDLCYWVPELVREKRFGNWLK
DARDWTISRNRWGTPIPLWVSDDFEEVVCIGSVAELEELSGAKISDLHRESVDHLTIPSRGKGSLHRISEVFD
CWFESGSMPIYAQVHYPPFENKREFEDAFPADFIAEGIDQTRGWFYTLVLALATFGQPPFKNVIVNGLVLASDGQK
MSKRKKNYPDVPSIIQKYGADALRLYLINSPVVRANLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLRRLQKEEE
IEFLYNENTVRESPNITDRWILSFMQSLIGFFETEMAAYRLYTVVPRLVKFVDILTNNWYVRMNRRLKGENGMED
CVMALETFLFSVLLSLCRLIAPYTPFLTELMYQNLKVLIDPVSVDKDTLSIHYLMLPRVREELIDKKTESAVSQM
QSVIELGRVIRDRKTIPIKYPLKEIVVIHQDPEALKDIKSLEKYIEELNVRKVTLSLTDKNKYGIRLRAEPDHMV
LGKRLKGAFKAVMTSIKQLSSEEELEQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQALVLLDV
TPDQSMVDEGMAREVINRIQKLKKNLVP TDEITVYYKAKSEGTYLNSVIESHTEFIFTTIKAPLKPYPVSPSD
KVLIQEK TQLKGSELEITLTRGSSLP GPACAYVNLN ICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK
NTELAVFHDETEIQNTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLENPL
GQNGLTHQGLLYEAAKVFGRLSRKLLFLNETQTQEITEDIPVKTLNMKTVYVSVLPTTADF

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FIGURE 2718A

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCCGCGGGGCTGTCCAGGCACGCGAGGCCCT
CAGGTACGCCCTCTCTTCCCTGCAGGATCCGGCCCTCAAAGACGAGGGTCACGCACGCGTTACAACCCCGAAACA
GTAGCACAAGATTTAATTTTTAAAGAGCGTGTTTCTTCGGGGCTTGCCGTTTCGTTTCGTTTCCAGCCTCAGGAAT
TTATGGTCGCCTTTTTGAATGAGCAACAAAATGCTTCAACAAGTTCCAGAAAACATAAATTTTCTGCTGAAGAA
GAGAAAAATCTTGGAGTTTTGGACTGAATTTAATTGTTTTCAGGAATGCTTAAAGCAATCAAAAACATAAACAAAA
TTTACCTTCTATGATGGTCCTCTTTTTGCAACTGGACTGCCTCACTATGGACATATACTTGCGGGTACAATTAAA
GATATAGTTACAAGATATGCTCACCAGAGTGGGTTTCATGTTGACAGAAGATTTGGATGGGATTGCCATGGCTTA
CCTGTGGAATATGAAATTGATAAGACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAG
TATAACAATCAGTGCCGAGCAATTGTGATGAGATATTCTGCTGAGTGGAAGTCTACTGTTAGCAGACTTGGCCGA
TGGATTGACTTTGACAATGACTATAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAA
CTCTATGATAAAGGCCTTGTTTATAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCC
AACTTCGAGTCACACCAGAATTATAAGGATGTTCAAGATCCTTCAGTATTTGTAACTTTCCCTTTGGAAGAAGAT
GAACTGTATCTTTAGTTGCTTGGACAACCACTCCCTGGACTCTACCTAGTAACCTTGCTGTGTGTGTTAATCCA
GAAATGCAATATGTGAAAATTAAGATGTTGCCAGAGGACGATTACTCATTTTTAATGGAAGCCAGATTGTCAGCC
CTCTATAAATTGGAGAGTGACTATGAGATCCTTGAAAGATTTCTGGTGCCTATCTTAAAGGCAAGAAGTACAGG
CCCCGTGTTTGACTATTTCTGAAGTGTAAGAGAATGGCGCTTTCACTGTGCTTGTTGACAACATATGTGAAGGAA
GAAGAAGGCACAGGGGTTGTCCACCAAGCTCCTTACTTCGGTGCTGAGGACTATCGGGTCTGTATGGACTTTAAC
ATTATTCGGAAGACTCACTCCCTGTTTGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTTTC
GCAGGACAGTATGTGAAGGATGCTGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCC
ACCACCTTCACTCACAGCTACCCTTTTTGCTGGAGATCAGACACTCCTCTAATTTACAAAGCAGTGCCCAGCTGG
TTTGTGCGAGTGGAGAACATGGTGGACCAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCCAGAGTTGGTA
CGAGAAAAACGATTTGGAATTTGGCTGAAAGATGCACGTGACTGGACAATTTCCAGAAAACAGATACTGGGGCACC
CCCATCCCACTGTGGGTGAGCGATGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTGAAGAAGTGC
TCAGGAGCAAAGATCTCAGATCTCCACAGAGAGAGTGTTGACCACCTGACCATTCCCTTCACGCTGTGGGAAGGGA
TCCTTGCACCGCATCTCTGAAGTGTTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTTCATTAC
CCGTTTGAAAACAAGAGGGAGTTTGAGGATGCTTTTCTGCGAGATTTTATTGCCGAGGGCATCGACCAAACCAGA
GGATGGTTTTATACCCTGCTGGTGCTGGCCACGGCCCTCTTTGGACAACCGCCTTTCAAGAACGTAATTGTGAAT
GGGCTTGTCTGGCAAGTGATGGCCAAAAAATGAGCAAACGGAAGAAAGATTATCCAGATCCAGTTTCCATCATC
CAGAAGTATGGTGCTGATGCCCTCAGATTATATCTGATTAACTCCCCTGTGGTGAGAGCAGAAAACCTCCGCTTT
AAAGAAGAGGGTGTGCGGGACGTCCCTTAAGGATGTACTGCTCCCATGGTACAATGCCTATCGCTTCTTAATCCAG
AACGTTCTGAGGCTCCAGAAGGAGGAAGAAATAGAATTTCTCTACAATGAGAACACGGTTAGAGAAAGCCCCAAC
ATTACAGACCGGTGGATCCTGTCTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGG
CTTTATACTGTGGTGCCCTCGCCTGGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGA
AGATTAAAGGTGAAAATGGGATGGAGGATTGTGTCATGGCCCTAGAAACCTTGTTTAGTGTTCTGCTTTCTCTT
TGCAGACTTATAGCTCCCTACACACCTTTTCTCACTGAATTGATGTACCAGAATCTAAAGGTGCTGATTGACCCT
GTTTCTGTTTCAGGACAAGGACACACTCAGCATTCACTACCTCATGCTGCCCCGTGTTTCGAGAAGAATTGATTGAC
AAGAAAACAGAGAGTGCAGTATCTCAGATGCAGTCTGTGATTGAACTTGGAAGAGTGATCAGAGACCGAAAACT
ATTCCCATAAAGTATCCTTTGAAAGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCT
TTGGAGAAGTATATCATTGAGGAACTCAATGTTTCGAAAAGTTACTGTCTACAGATAAAAAACAAGTATGGCATT
CGGCTAAGGGCAGAACCAGATCACATGGTCTCGGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCC
ATCAAGCAGTTGAGCAGTGAGGAGCTGGAGCAGTTCCAGAAGACTGGGACCATTGTTGTGGAAGGCCATGAATTG
CACGATGAAGACATCCGCCTCATGTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCA
GATGCTCAGGCTTTGGTCTCTTAGATGTCACTCCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGGAAGTC
ATCAATCGCATACAGAACTTCGCAAAAAGTGCAATCTGGTTCCAAGTATGAAATCACAGTGTAATAAAGCA
AAGTCTGAAGGAACATATCTGAATAGTGTTATTGAAAGCCACACAGAGTTTCATATTTACCACCATAAAGGCTCCC
TTGAAACCATATCCAGTTTCTCCATCGGATAAAGTCCCTTATTCAAGAAAAACACAGTTGAAGGGATCTGAACTG
GAAATTACACTCACAGAGGATCTTCCCTTCTGGTCTGCTGTGTCATATGTCAATCTTAACATTTGTGCAAT
GGCAGTGAACAAGGTGGAGTATTGCTCCTGGAAAATCCAAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAG

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FIGURE 2718B

AGTGTGTGTCAGTATTTTTGGTGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAAC
CAAACCTGACTTACTGAGTCTTAGTGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGT
TCTAGTACTCTTCTTTGTCAGTATATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTTAAATGGGGACA
GTGGGCACTCTCCTGCTTGAAAACCCACTTGGGCAGAATGGACTCACCCACCAAGGTCTTCTGTATGAAGCAGCC
AAGGTGTTTGGCCTTCGGAGCAGGAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGAC
ATCCCCGTGAAGACTTTGAATATGAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTA
CTTATCAATGTTGTTTCGGTCAGCCCTTCCCTAATTACACCTATCCCCTACACATACATGCACATAGACACACACA
TGAACACACTGAAGATATTTTCCTTCAGGTGTGTGTAATAATGCTGCTTGGATTGAAATTCAAATGGGATTGATT
AGTCAAGTAACTTGAGACCTCACAGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGG
TTACAATGTTACTTCAGCCACAGTTTATTTCTATTCTTGAGTTCTTAAGTACAGAAGATAGAAGTGATTTAAAT
GGCATAGTATATATATCATTTTTCTGGCCTTTTAAAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATA
TTTCTGCCACCTGGATTTTCCTGGATAATTTGATGGAATATTTTAAAGTTTCAGTAAATCAGAACAATAAACAAAC
TCAGATAT

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FIGURE 2719

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS
GFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFFSTACNTPLSNFESHQNYKDVQDPSVFVTFPLEEDETIVSLVAWTT
TPWTLPSNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLES DY EILERFPGAYLKGGKYRPLEFDYFLKCK
ENGAF TVLDNYVKEEEGTGVVHQAPYF GAEDYRVCMDFNIIRKDSLPCVPVDASGCFTTEVTDFAGQYVKDADK
SIIRTLKEQGRLLVATTFTHSYFFCWRSDTPLIYKAVPSWFVRVENMVDQLLRNNDLCYWVPELVREKREFGNWLK
DARDWTISRNYWGTP IPLWVSDDFEEVVCIGSVAELEELSGAKISDLHRESVDHLTIPSRCGKGS LHRRISEVFD
CWFESGSMPIYAQVHYPFENKREFEDAFPADFIAEGIDQTRGWFTLLVLATALFGQPPFKNVIVNGLVLASDGQK
MSKRKKNYDPVSI IQY GADALRLYLINSPVVR AENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLR LQKEEE
IEFLYNENTVRESPNITDRWILSFMQSLIGFFETEMAAYRLYT VVPRLVKFVDILT NWYVRMNRRLKGENGMED
CVMALETLSVLLSLCRLIAPYTPFLTELMYQNLKVLIDPVS VQDKDTLSIHYLMLPRVREELIDKKTESAVSQM
QSVIELGRVIRDRKTIP IKYPLKEIVVIHQDPEALKDIKSLEKYIIEELNVRKVTLSTDKNKYGIRLRAEPDHMV
LGKRLKGAFKAVMTSIKQLSSEEELEQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQALVLLDV
TPDQSMVDEGMAREVINRIQKL RKKCNLVP TDEITVYYKAKSEGTYLNSVIESHTEFIFTTIKAPLKPYVPVSPSD
KVL IQEKTQLKGSELEITLTRGSSLP GPACAYVNLN ICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK
NTELAVFHDETEIQNQTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLENPL
GQNGLTHQGLLYEAAKVFGLR SRKLKFLNETQTQEITEDIPVKTLNMKTVYVSVLPTTADF

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FIGURE 2720A

TGAGGAGGGCCCCGGCCTGCGAGAGCCTCAGTGGGAGCCGGCTCAGCCCTCGGCCACCATGTCGGCGCCGTGCGAG
GAGGAGGAGTACGCGCGGCTGGTGATGGAGGCGCAGCCGGAGTGGCTGCGCGCCGAGGTGAAGCGGCTGTCCAC
GAGCTGGCCGAGACCACGCGTGAGAAGATCCAGGCGGCCGAGTACGGGCTGGCGGTGCTCGAGGAGAAGCACCAG
CTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCTATCCGCAGCGAGATGGAGCAGCTCAAGGAGGCC
TTTGACAAGCACACACAAACCACAAGAAGGTGGCTGCTGACGGAGAGAGCCGGGAGGAGAGCCTGATCCAGGAG
TCGGCCTCCAAGGAGCAGTACTACGTGCGGAAGGTGCTAGAGCTGCAGACGGAGCTGAAGCAGTTGCGCAATGTC
CTCACCACACGCAGTCGGAGAATGAGCGCCTGGCCTCTGTGGCCAGGAGCTGAAGGAGATCAACCAGAATGTG
GAGATCCAGCGTGGCCGCTGCGGGATGACATCAAGGAGTACAAATTCGGGAAGCTCGTCTGCTGCAGGACTAC
TCGGAACCTGGAGGAGGAGAACATCAGCCTGCAGAAGCAAGTGTCTGTGCTCAGACAGAACCAGGTGGAGTTTGAG
GGCCTCAAGCATGAGATCAAGCGTCTGGAGGAGGAGACCGAGTACCTCAACAGCCAGCTGGAGGATGCCATCCGC
CTCAAGGAGATCTCAGAGCGGCAGCTGGAGGAGGCGCTGGAGACCCTGAAGACGGAGCGCGAACAGAAGAACAGC
CTGCGCAAGGAGCTGTACACTACATGAGCATCAATGACTCCTTCTACACCAGCCACCTGCATGTCTCGCTGGAT
GGCCTCAAGTTCAGTGACGATGCTGCCGAGCCCAACAACGATGCCGAGGCCCTGGTCAATGGCTTTGAGCACGGC
GGCCTGGCCAAGCTGCCACTGGACAACAAGACCTCCACGCCCAAGAAGGAGGGCCTCGCACCGCCCTCCCCAGC
CTCGTCTCCGACCTACTCAGTGAGCTCAACATCTCTGAGATCCAGAAGCTGAAGCAGCAGCTGATGCAGATGGAG
CGGGAAAAGGCGGGCCTGCTGGCAACGCTGCAGGACACACAGAAGCAGCTGGAGCACACGCGGGGCTCCCTGTCA
GAACAGCAGGAGAAGGTGACCCGCTCACAGAGAATCTGAGTGCCCTGCGGCGCCTGCAGGCCAGCAAGGAGCGG
CAGACAGCCCTGGACAACGAGAAGGACCGTGACAGCCATGAGGATGGGGACTACTACGAGGTGGACATCAACGGG
CCTGAGATCTTGGCCTGCAAGTACCATGTGGCTGTGGCTGAGGCTGGCGAGCTCCGCGAGCAGCTCAAGGCACTG
CGCAGCACGCACGAGGCTCGTGAGGCCCAGCACGCCGAGGAGAAGGGCCGCTATGAGGCTGAGGGCCAGGCACTC
ACGGAGAAGGTCTCCCTGCTAGAGAAGGCCAGCCGCCAGGACCGCGAGCTGCTGGCCCGGCTGGAGAAGGAGCTA
AAGAAGGTGAGCGACGTGCGCGGCGAGACACAGGGCAGCCTGAGTGTGGCCAGGATGAGCTGGTGACCTTCAGT
GAGGAGCTGGCCAATCTCTACCACCAGTGTGCATGTGCAACAATGAGACACCCAACCGTGTCTGCTGGACTAC
TACCGCGAGGGCCAGGGCGGGGCCGCGCACCAAGTCCCGGGGGCCGACCAGCCCCGAGGCGCGTGGCCGGCGC
TCACCCATCCTCCTACCCAAGGGGCTGCTGGCTCCTGAGGCGGGCCGAGCAGATGGTGGGACGGGGGACAGCAGC
CCCTCGCCTGGCTCCTCACTGCCATCACCCCTGAGTGACCCACGCCGGGAGCCCATGAACATCTACAACCTGATC
GCTATCATCCGTGACCAGATCAAGCACCTGCAGGCAGCCGTGGACCGCACACGGAGCTGTACGCCAGCGCATT
GCCTCTCAGGAGCTGGGCCCCGCGTGGACAAGGACAAGGAAGCGCTTATGGAGGAGATCCTCAAGCTGAAGTCG
CTGCTCAGCACCAAGCGGGAGCAGATCACCACGCTGCGCACTGTGCTCAAGGCCAACAAGCAGACGGCCGAGGTG
GCCCTTGCCAACCTGAAGAGCAAGTATGAGAATGAGAAGGCCATGGTTACCGAGACCATGATGAAGCTGCGCAAT
GAGCTCAAGGCCCTCAAGGAGGACGCAGCCACCTTCTCCTCGCTGCGTGCTATGTTTGCCACCAGGTGTGACGAG
TACATTACACAGCTGGATGAGATGCAGCGGCAGCTGGCGGTGCTGAGGACGAGAAGAAGACGCTGAACCTGCTG
CTGCGCATGGCCATCCAGCAGAAGCTGGCGCTGACCCAGCGGTGGAGCTGCTCGAGCTGGACCATGAGCAGACC
CGGCGTGGCCGTGCCAAAGCCGCCCCGAAGACCAAGCCAGCCACACCGAGCGTAAGTCACACCTGTGCCTGTGCC
AGCGACAGGGCCGAGGGCACCGGGCTGGCCAACCAGGTGTTCTGCAGCGAGAAGCACAGCATTTACTGTGATTAG

GGGCTGTGGGGCGCCGCACGCTGCAGCTAACATCTGCTTACCTCAACTAACCAGCAGCAGCGGGACGGCGGTG
CTAGGTCAATCTTAACGTGACTAATGCACAGAGGGTAGGAGTCTAGCCGAGGCGCCATGGGGCGTTGCATCAGCA
GGACACTTGTGAGAGCTTTGTGTGCTTCTCACTCCTCAAAGCCCCCTCAGGAGCACCCAGTCCCTCAGCTGCTCT
CTTAGGTGGGGGTGAGAGGTGGGGATAGAGCTGCACATTCTTGACAGCAGATGTGTGATGAAAAGCATCTTCTAAGC
CCTGCGCACCCGTGGGGAAACCAAGGGAGGAGTCTGGTCTGCTCCCTCAGCACCCAAAAGGGGCAGAACCTG
AGTTGAGACTTGCATGTTCTCGCATGTGTCTAATGTCAGCACTAGAAAGCAGTTTTAGGAGGTTCCAGCCTGCA
GCATAGGTACGACCTCAGAGGATGGCTTTGCACCTGGCATAGTTTCATGGAAAGGAGTACGTTGTAGTTTATGCA
GTATCTGACTGCAATCATATTACAGGAAAGAGTGCAGAATTTCTTCCCCAAGCCCAGAGAAGAGCAGCCCTGAG
CCCCTGTATTCTGCTGGCCAGACACACATGGCACAGACACAGCTGACCATAACCCAGGAATCCAGAGCTCGGTTT
CTCATTTCTGAGATCAGGATGCTTGTATAGTGGCCTGTGAGGTGACAGATTGGCAGGGCCCAAGGCCCCAGGTTT
TCATTTTTTCATGAGAAAAGCTTTCCAAGTGCCTGGCCAGACCTTGGTCCTTAGTGACAGAGCCCGTCTTTTGTAC
TTGGGGTGACCCAGCAGCCAATTATCCGGCCTTCCATAGGGGGTTAGTCCCAAAGACATGGGGCTTTGAAAAC
CCTAGCCTGAAGTCTGAGCCACCAAGGGCTTGGCTGGGTGGACACCCACAGGTGTATCCAGAGCCCAGCCCGT

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FIGURE 2720B

GCTGGGAAAGCTTTGTCATAGGGCCAGGGCCACTTGTGTCAGGATTACAGGTAGGAGATGTTTAGGTCTCTTTATTT
AGTGCAATCTGGGGGATGGCAACAGAGAAAAGAGGAAAGGTAGCTGTAGGGTTCTCCCATTTCCAGAGGCTCCATC
CACACCTGCCTTCCACATTCTGAGCAGAACTTTTCTCAGTACTTTTTTCCCGATCACCTGTGGGACCAGCTGG
ACCTGAGGCTGCAGTCTTCTCTCCTGCAGGCTGCTTGCCTTGTCTCTCATGCGGAAGAGGCATTGAGTTACCTG
GTGAGAGACCGTGTGCCCCCTCCACAGCTCTCTGCCCTGCGCGTTCTTCCCTTTGGTGCCGAGTATGTTTCGG
TCCCCTCCAGACTCCAGGACACGCCCATGTATGTCCCCTGCGTGTTCATCCTGGGCCCAGATCCCCCTGCCCCAG
CAAGACTCGCAGTGGGATGGCTGCTGGCATGCCACCCTGCATGCGCTTGGCCCTCTCCTTGCAAGCCTGGCACA
TAGCTTCTCTCCATACTCCTAAGGGACTTTGCAGACACCCAAGCCACTGGGACCCCTGCTAACACATGCAGGTCT
TCTCTTCTGCCAACTAACGTGCTCGCGCCCTCCAGCACGTGGAGAGCTTCAATTGTCAGATAAACAGGAAGCGA
CAGATGACCGCTTTCTAACGCTCTCTTTTCTCCCGTTTTTCAGCTGTAGAGTAGCTGCCAGGAGGACTTGGCCACC
CGGCCCTGTCACTGCAGCCCCCTTCCCCTTCCCTCTCGTGGCCCCACAAGGAGGAAGGAAGGGCAACCTAAAAGC
CCACTTAGAACTTTTTGGATATGCCACTGCAATTCTTTTCAAAATAGCATTCCCCAGGTTTTTAATGGGAGGAA
AAAAAGCTTTAATGTTGAGCATGCTGCGAGCTGCTGCGTGGAAAGGCCTCTGTATGGGCCGAAGACCCCTTCTTCC
CTGGCTGCCAGGCTCGCCAGGAGCCCACTGGAAACGCCCACCACGGGGGCTCCTTGTTACACATGTTCTTTTTTT
ATCCGATCAACCTGTGCACTTTTGATATTTTGATATTATATTTGCTTCCTTAATTCTCGCGTAGAGACGGTCTC
AGGTGCCGTGGTCTATGCTCGTGGTCTCTGTAGCTGTCCGCTCAGCTCCCACCGTGTGTTGTCTGGTGTGAGCAG
AGGCAGAGCTGTGTGCTCCATAGCGTGTAGCTTTAGACTCGGAGATGAGTGCTTTGACCCAGCGAGGAGCTCAGC
TAAGTGTATCCACGCTGTGGTTCAGCAGCCTTTAGATCATACGGCATTGTGGTTCATGTTTGAAATTACAGATTT
TAAATGCCATGTTTCATTAAAGAAATCCAGGGTATTGAGATTCTGGGGTTTTTTCATATTGTATTATTATTATTCTTA
GGAATAGTTCAATGTAACAAGAAGAAAACCTTGACCTTTGCTCTGGTTAAAACAGTAATAGGCACCTGAAAAA
AGATAAATTATTGAATGAGTAGTATTACCTACAAATTCCAGAATTTTCTGGGTTTTAGGACGTTGTGAAGCATGA
CTGATTAACAGAATTTTATACAACTGTACCAATAAAATTCCAAATTGGAATTGTTTTGTTACTCTGGTTGTTGTG
CCAAATTGTGGTACACTTAGAAAATTCTACAGTCGTCGATTTTTAGGGTGTTCTCTTTCAACACCTTTTTTGTAG
TAATCATTGCCAGTAGTGCCTTCATCAGTTAAGGGAGGTGTCCCAGCACAGATCATTCTCAAAAGCGAGCAGGGA
AGAGCTAGTGGGCATGCTGAAGGCCAGCGTGGACAGCAGGTGAGGCAGGTGCTCCTCACACCCAGACCTGGGCAT
CTTCATTGAGGGAAAGAAAACAGTCATTGTGCAAAATCTGTTAGTCAGTGATTCTTTACTTGCAAATTCAGGGG
CTTAGAAAATGAAAGCAAACACAAAACCTTGAGTGTGCTTTGGGAACCAATGGACCTTCTGGGACAAGCTGAGC
AAGCTGTATGAACGCCACGTTTGTGAAGAGCTGAGGGTATCAGGAGGGCCGACGCTGTGTTGGCATGCGCAGTAG
GGGATGAGGGTTAGCCATAGTATTCTTTGCAAAATGTGAAAGCGAGACATTATATCTTCTCTTGCTTGGTGTAACT
AATCACTGTTAATTTTCAGGAAACAGAACTCATTAAACTCCTTAGCAAACCAGGTCTACATCCTGTTTTGTTTGC
TGAGTGAGGTTAGTGGGAGTGGTCAAATTGGTACTCTTGAGGAAGAAAACTGTCTTCTCTCCAAAAAAGG
AAAAATTATAATAATAAATGACAAAAATAAAGAATTCTGTTTCCTGGAATAAGCATTTCTTATTCCTAGTTG
TAGGGACTCCTATTTTTTACCTTCCGTTACAGTGTGATTTCATAAGAAATATTGTTACATTTGAGATAACTTCATC
TGTATGGGGTATTTATTTGCAATGATGTCTGAGTACTGTATTTTTTCTGTGCATTACCTTAGTGTCAGAATGTTG
GTCTTTATTTTAAAGTCATATGCATGTTCTCCTGCCAAGGAACCTTTACACAGACCCAAACAAAAAATAATAAT
CAAAATGCCCTTCAATTTCTGAGAAAATGAGGCAGAGCATGGAAGGAATAGGAAGGAGAAATTAATTGAGATTTT
CAGGACACAGACATATGATGTGAATGCCTACAAAGCCAGTGCGCATAGGAACAGTGGGCCTGGGTAAAGAGTCAC
ATTGGTAGGACCAATAAAGAATAATAAAAAAGAC

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FIGURE 2721

MSAPSEEEYARLVMEAQPEWLRAEVKRLSHELAEETREKIQA AEYGLAVLEEKHQLKLQFEELEVDYEAIRSEM
EQLKEAFGQAHTNHKKVAADGESREESLIQESASKEQYYVRKVLELQTELKQLRNVLTNTQSENERLASVAQELK
EINQNVEIQRGRLRDDIKEYKFREARLLQDYSELEENISLQKQVSVLRQNQVEFEGLKHEIKRLEEET EYLN SQ
LEDAIRLKEISERQLEEALET LKTEREQKNSLRKELSHYMSINDSFYTSHLHVSLDGLKFSDDAEPNND AEALV
NGFEHGGLAKLP LDNKTSTPKKEGLAPPSPSLVSDLLSELNISEIQKLKQQLMQMEREKAGLLATLQDTQKQLEH
TRGSLSEQQEKVTRLTENLSALRRLQASKERQTALDNEKDRD SHEDGDY YEV DINGPEILACKYHVAVAEAGELR
EQLKALRSTHEAREAQHAE EKGRYEAEQALTEKVS LLEKASRQDRELLARLEKELKKVSDVAGETQGSLSVAQD
ELVTFSEELANLYHHVCMCNNETPNRVMLDYYREGQGGAGRTSPGGRTSPEARGRRSPILLPKGLLAPEAGRADG
GTGDSSSPSGSSLPSP LSPRREP MNIYNLIAIIRDQIKHLQAAVDRTTELSRQRIASQELGPAVDKDKEALMEE
ILKLKSL LSTKREQITTLRTVLKANKQTAEVALANLKS KYEN EKAMVTETMMKLRNELKALKEDAATFSSLRAMF
ATRCDEYITQLDEMQRQLAAA EDEKKTLSLLRMAIQOKLALTQRLELLELDHEQTRRGRAKAAPKTKPATPSVS
HTCACASDRAEGTGLANQVFCSEKHSIYCD

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FIGURE 2722

GCGGCCTGGGCGGCCGCACCATGGACTCGGGAACCGAGGAGTACGAGCTCAACGGCGGCCTGCCTCCGGGCACAC
CCGGCTCCCCGACGCCTCGCCGGCCCGCTGGGGCTGGAGGCACGGGCCCATCAACGTGAACCATTACGCCAGCA
AGAAGAGCGCAGCCGAGAGCATGCTGGACATCGCGCTGCTGATGGCCAACGCGTCCCAGCTGAAGGCCGTCGTGG
AACAGGGCCCCAGCTTCGCCTTCTATGTGCCCTGGTGGTCCTCATCTCCATCTCCCTTGTGCTGCAGATCGGCG
TGGGGGTGCTGCTCATCTTCCTTGTCAAGTACGACCTTAACAACCCGGCCAAGCACGCCAAGCTGGACTTCCTCA
ACAACCTGGCCACGGGCCTGGTGTTCATCATCGTGGTAGTCAACATCTTCATCACGGCCTTCGGGGTCCAGAAGC
CCTTGATGGACATGGCACCCCAGCAGTAGGACACCCAGGACCCTGGATGTTGCCTGCCCTGCAACTCAGCTGCC
GACCCAGGAGTCGCCATACCTGTGAGGTGTCCACCTCCCTGCACATGGCACTACCCAGACTGCCAGAGCCCAGG
CTGGCCTCATCTGCACCATGTCCCCGACCAGCCCTTGCTCTGACTGCGGCCAAGCACCCACGCAGGAGGCCACTC
TTGTCTCTCAGCAGCTGTTCCAGGAGGCAGCTCCCTCCTGGCACATGGGGGCTGGCCACAATAGCCCAGAGGGT
CAGAACTGGACAGCTGCAGAGACCTGTGCCCAGAGAAGGGTCTCGACCCACTCAAGGACACACAGCAGGTCCGTG
GATGGGCTGGATGAGTGACCAGGGCCAGCCTCTGTCTCAGGACATTCCAGAAGGACAAGGAGATGTCTCTCCCTC
TCCCAAAGCACCAGCGTCCCTGCCTCCCGTGGGCCCTGTCCGGGTGCCCCTGGTGACCCAGCCTCTGTCCACTT
CCTAACCCAGGGACCCTGCACAGCCAGAACTGCCTTTGGCCCTACGGATGGCCACTGGCTCTGGTCTTAAGTGCC
TGGGCTTGGTGGCCATCAAGAGGGAGCCAGTCAGGCCTGTGAGGGCCGTAGACCTTGTATATACCCTGCACCAGC
AGTGACCGGGCAGAGCCCAACCCCTCCACGGGGGTCCCAGCACCCACTTTTCTAATCATGAATGAACAATAAAG
CCCACGCTCTTTGTCAGGC

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FIGURE 2723

GCTGCAGCCCTCAGAAGTAAGCAAGGTTTCCTGCCGGGAGAAAAGGATTGGAAGCATTCCAGCCAAAATGACGGA
CAGAAGCCCCTTCGAAACCGACATGCTCACCCCTGACCCGCTACGTTATGGAAAAGGGGCGTCAGGCCAAAGGGAC
TGGGGAGCTCACCCAGCTGCTGAACTCAATGCTGACGGCCATCAAAGCCATCTCCTCGGCTGTGCGCAAGGCCGG
TCTGGCCCACCTGTATGGAATCGCAGGAAGCGTTAACGTGACGGGAGATGAGGTGAAGAACTGGATGTGCTATC
CAATTCCTGGTGATCAACATGCTCCAATCCTCCTATAGTACCTGCGTCCTGGTCTCAGAAGAGAATAAGGACGC
CATCATCACCGCCAAGGAGAAGCGGGGAAATACGTGGTCTGCTTTGACCCACTGGATGGATCTTCCAATATTGA
CTGCCTGGCCTCCATCGGAACCATCTTTGCCATCTATAGAAAGACCTCAGAGGATGAGCCTTCTGAAAAGGATGC
CCTGCAGTGTGGCCGCAATATTGTGGCCGCAGGTTATGCGCTGTACGGTAGTGCAACCCTGGTGGCTCTCTCCAC
AGGGCAAGGCGTGGACCTCTTCATGCTTGACCCGGCTCTTGGTGAATTTGTCCTGGTGGAAAAAGATGTCAAGAT
TAAGAAGAAAGGAAAGATTTACAGCCTGAATGAGGGCTATGCCAAGTATTTTGATGCGGCCACCACTGAATATGT
GCAGAAAAAGAAATTCCTGAGGATGGCAGTGCTCCCTATGGGGCCAGGTATGTGGGCTCCATGGTGGCTGACGT
GCACCGCACCCCTGGTCTATGGAGGAATCTTCCTGTACCCAGCCAACCAGAAGAGCCCTAAGGGCAAGCTCCGGCT
CCTGTATGAATGCAATCCCGTGGCCTACATCATTGAGCAGGCAGGAGGCTTGGCGACCACGGGGACCCAGCCTGT
ACTGGACGTGAAGCCCGAGGCAATTCACCAGCGAGTCCCCCTCATTCTGGGGTCACCAGAGGATGTGCAGGAATA
TCTCACCTGTGTGCAGAAAAATCAGGCAGGCAGCTAGCGAGTTTGACCCACATGCCCTCTTCTGTTTGTGTTTGC
ACCTTGTCTAAGGACCCTAAATGAACGATAAACAGAGATGGTAGCTATGAGTATGCAAAAGGTAAATCCACTTAA
TCACATACAGAAGAGCAACAACAACTGCTTACGACAGGTTTGAAGCCACAGGCGATTCTATGGTCAATGTGAA
GGACTAGAAATAAAAAACCCACATGTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2724

MTDRSPFETDMLTLTRYVMEKGRQAKGTGELTQLLNSMLTAIKAISSAVRKAGLAHLYGIAGSVNVTGDEVKKLD
VLSNSLVINMLQSSYSTCVLVSEENKDAIITAKEKRGKYVVCFDPLDGSSNIDCLASIGTIFAIYRKTSEDEPSE
KDALQCGRNIVAAGYALYGSATLVALSTGQGVDLFMLDPALGEFVLVEKDVKIKKKGKIYSLNEGYAKYFDAATT
EYVQKKKFPEDGSAPYGARYVGSMVADVHRTL VYGGIFLYPANQKSPKGKLRLLYECNPVAYIIEQAGGLATTGT
QFVLVDVKPEAIHQRVPLILGSPEDVQEYLTCVQKNQAGS

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FIGURE 2725A

CCGAATAGTTAGCCAAGACTACCCGCAGCATCAATAGTCGGCTCCCTGGCCCAGGGCCTGGAGAGTAACTGGCCA
AGTGGGTGCTGGGCTGGTATGGGAGCCCCGGGTCCTTGGAGCACCTTGCCCTGGCTGTGGCAGTCACCGGGAAGCA
GAGGCTGTCCACCTGGAGGCACAGCGGCACCTCTTGGCACTATTTTGGCCACTTCAGGTTTTATAATCTGTTGAA
ACAAAAATTGTGGGGGAACATCTTGAGTAGGTTTAGAGATGGAATGGGAAGCCTGGCAGAAGCGCTGGTCCAGTC
TTCAGGGTCACGGCTGATACAGGAGTTTAAGCGGCCGTGTGACTCCAAAGCCTAGCTTCTGCAAGCAGATGTTTT
CTTCTAGCCATGTGTGAATTGGAGGTTCCCTTGGGCTGTCCACGCCTGGTCATCGGCTGGCAGGAGGCTCTCCAGG
CACACGCAGCACACACAGCACATGCACCACACGTAGCACACACACTGCATGCAGCACACACACACCAGAGGACGC
ACCACACAGAGCACGCACAGCACACACCACACAGCGCACGCACCACACAGAGCACACGCGGCACACACAGCACAC
ACAGCGCACGCACCACGCAGAGCACACACGGCACATGCAGCATAACACACAAACAGCGCACGCACCACACAGAGC
ACACGCGGCACACGCAGCACACACACCACACAGAGCACCTGGAGCACCCACAGCACACACACCACGCAGAGTACA
CGCGGCACACACACCACACACAGCGCATGCACAACACAGAGCACACACAGCACATGCACCACACGTAGCGCGCAC
ACTGCATGCAGCACACACACCACACACAGCGCGTGCACCACACAGAGCACCTGCGGCACACACAGCACACACCGC
ACGCACCACACAGAGCACATGTGGCACACACAGTGCACGCACCACACAGCACCCGCGGCGCACACAGCACACGTG
GCATATGGCCTCCATGACCCTGTGTCTTGAGGGCAGGTCCTACTTTTTGCTTTGTTGTGTTGGAGCGGAATTTCT
CCCCTGGCTTCTATTGGAGTCCTAGATTATTTAAATCACTTCCCTGTGTTAATTGTGCCTGGAATTAACCTGTTAG
ATTTACTTCCCTAGCAGTTAGTTGCTCAGTATGGGTTTCTACACTATTAAGCAACCTAGCGGTAGTACACAAGGT
TTTGTTAGGATAGCTGTGAGATTTTTTTTCTCTAACAATCATCATTATTTCTGTGTCTGCTCCGTTTTTCTTCAG
TGTTTTATATGATATTAATAGGGATGTCTAATTTTGTATCTTTAAAAAACTTTATCAAATCTGAAGCATTTTTT
CGTGTTATAGCTTCTCTATAATTTTTTATGGATATTGAATATTTGGTGTTGATATTCTTCACTCAGTTTTGAACA
TTGAGTTTTCTTCTAATGTTTTGTGCTTATGAAAAACATTTCTGTGTAACGTGTTTAAAGTAGCTTATTTATCTGA
AAGAACTCTAATAATGAAAAGAAATAAAAAAGTTTTTTCAGAAGCATGATCATATTCTTCCAGAAGAGTCAGGAACC
ATGTGTGCCAGGAAAGGGAAACGGGACTGAGCGTCTCGTAGCGAAACGCCTGCTGCAGACTTGACGCGGCTCCCC
TCCAGGACGGGCTGGCGGCACACAGACTGTGCATTACCTCACTGCCGGCCTCATAATAGTAATCAGTGTAATG
GTGTTTCTCTTTCTGTTTTGTTATTTCTGTGGCGTACGTGTTAAAGTGTGTGAAACTACAAGGCCAGCTAGTCCTTT
CATCATTCCTTTTGGTGCAGGTTTTTGGAGCAGCACACAGGGCACACCCCTCGCCACTCTTTATGGGGAATTTTT
GCCCAGGCAGGCAAAGGAGTCATCTTGGTCACAAGTCTCCCTTTTCCCCCTCCCCAGCATCTTCGATCCTGTCCC
CACCCCTCCAGATGCATCCAGGGGTTGCAAGCCTGCCCCCAACCAGTCCCCGTGAGGAACAGTGCCCGGGATTG
TCCCAGGGCCCCCTCCAGCAGGGGGACCTCCTGACTTGAGAGTCCCCAAAGCCTTCCCAGGGCAGCTAGAATCTG
CCTGGAGAGAAGGGATCTTGTCCCCAAGGGTTAGAGGCGATAAATAAGCAAGGACAGCTGCCTTTAGCAATT
GTGTGTGTCGCATGGCCGGTCCCTGCATTTTTCTTCAGTTCCAAAGCTGCACTGGCATTTTTATGGTCATCTCTG
GAGTCCCTTTGATTCAAGAAATTATACCTCTAGGATGCCAACTAAACGAACAACAACAGAACTCCACCTGTTT
GCTAGCATAACAGGCGTGAAGGCGGCAGTGTGCGCGGCTCCTTCCGCGGAAGCCCAGTGTGTGCAGACAGCAG
GGGTGGCGCTGCTCTCAGGTGCTCTGGCTGCTTGGGTTCCCTGGCATGCTGATTTGTGACTTAAGATTAAATCAC
ATTGCCAGGGATTACCACGCAACCACGACCTTGGCTGCTCCTCCAGAAACCGTGGTTCGCGCTCACTGCAGATTGG
AGAACAGGTGCATCTCGTAGCTCTTCTTTGGAAACAAAAGAAGCCACCAGCTGAGGAAGATGCTCACCGGTCACC
GTCCCTTTATTTATGCCAGCGATGACCTCTCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAACAGTGATTGGT
TTCCGCTTTGTTACAGTGGCTAAGTTCTGCACCTGAAGAGAAGGTGAGATGGGGACAGTTAAGTTGGAGCCGCT
GGGGCAGAGGCCGTTGCTGACGGGCCGGCCGCTGCTGCACAGTCAGCTTGGGTGCGGAGCGCGATCCTGGAGGAT
GAGAGACCACTTGACCCCAAGGATGCACTGTCTCCTGCTGGGAATGCTAGCCATGTACTGAGTCCTTAAGTCTGT
CCACAGAAACATGCACTAATCGGACATCTGTCTGAAAGGTCAAATGTATTGAAAGTTGCAAAAAATCTTCTTACA
AAAACTAAAACCAAATGCATCACCTAAGTCGTGTGAAATCATGTGGTAGCTCATGGCTGTGAGCGGGGCGGGGC
GGGGCTTTTCGAGGAGCTCCTGTTGTTCTGGGCGCGGTGAACCTCTCTTGTATTTGCACTCCAGGCCTTCGCGT
CTCCTGCGCCAGCAGACGGTGCCACGGAGCTCCAGCTGAGGCGCTGCTTCTCCGGGCTGTGATTGGACCCGC
CCTCCGGTGCCTACTGAGCTGATATCAGTTCTCATTTTACACACTGGCTCAGTTCAGCAGGAACAGGAGTGCAGC
CCTTGAGCAAAAAGCCTTCGTGTCTGTAAGTGCCCGAGGCTCAGGAGAGCTGGGGCTCCCACTCGCGGCAGACAG
GCCCCGCTCCACCCTGCGTCCACCCGCGCCGCGGCAGCACGGTGCCAGTCATCTGCATGTGCTCCTGCGGCGT
GGGGGTTTTGTAGACTTGGAACCCCTGTTGGCAGAAAGTTAAGAGCTCCAGGCCTGAAGGCAGGACACAGTGCC
AGCAGGGGGCCGTTTGCCCCATGTGTAAGGGAGGCAGGGCCAGCTCTCCACGGCGAGGTGAGCTGAGACTTT

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FIGURE 2725B

CTGAGAACAGTTAGAGTGGGTGCGTGTCTGAAATGGGTACTCCTAGCAGCTATTGTGTACGCAAAGCCTGAGTAC
AGCCTGCTGGTGTCAATGGCCACGTGTGAGCAGGCCAGCGTCACACGGCTCGCTGTGACCCGTCCCGGAGACTGAA
ATGGGCCTGGGTCTTCTCCTTGTCTGTGATTAAAGTCCTCTCTTGAAAGTGGAGAGCAAAGGCACACAGAGGTG
CGCGCTCACAAGAATTCCTCCCGGTGACTGGGTAATCAATGTTACTGCTGTTTCCTTTGCAGGAAAAGACCACAGC
AAGATTCTTTCATTTCGTCTCCTCCTAGCCTGGGGGACCAGGCTCGAACTGACCCTGGACATCAAAGGAGGGATTA
TGTGGCTGCTAAAGCCATCGGCCACAGCCCTGTTACATCTTGGTGCTTCTCTTTCCAGAGGCTGGTCCCAGC
CAGGCACACACAAAAGGCAGATTCTCGTAAACGCAGCCTCCCTCCCTGGAGGCTGCCTCCTGCCCTGGATCTGGA
GTGGAGCTGCTCTGAGATTTTGTGTTCTTCTGCAGAGATGATTAAATATATCCAAGAGACATTGGAAAACCTGCT
GAACATTTTACATTGGTCTGCTCAGCACATGGCTGGATGCGGATATTTCTATAATTCCAGAAAGTCACACAGCTC
CTCTGTATGAGACCAGTGGGCGCCATTTAAAAGAACAGGATGAGAATCTAAGATATATTATTAATAAATGTAATG
GATTTTTTTTTTGT

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FIGURE 2726

GGCGGCCTCAGCAAAAAAGAAGAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGGGG
TACTGGTGGAGGAAGGACCTATGTTTCCAAACCAGTCAGCTGAGCTGATGAAACGGATGACCTGGAAGGAGATGT
TTCGACAACCTTGGCACAGTAACGATGACGATGTGTATAGGGCGTCTCCAATTGACCGTTCCATCCTTCCCCTGCT
TCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCATCTTCCCAAATCGCCACCCTACACTGCTTTTCTAGG
AAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTGAGGATTAAATATCAGTGCAGTGCCTTT
ACCATGTGAACCCAGCAATCCAGTGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGCT
TAGTGCCCTGAGTCTCAAGGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGACGTTGCTGATCAAGCACAGGA
TAAAGACAGGGATGATTGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGGTACAGACTGGAGGGC
TCGTCCTGCTACAGACAGCTTTGATGACTACCCACCTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGAGA
TCGTTATGATTACAGACCGGTATCGGGATGGGTATCGGGATGGGTATCGGGATGGCCAACGCCGGGATATGGATCC
ATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAG
TGGCAGAAGAGCATTTGGCAGTGGGTATCGCAGGGATGATGTCTCAGAGGAGGCGGGGACCACTATGAAGACCGA
TATGACAGACGGGATGATCGGTCTTGGAGCTCCAGAGATGATTACTCTCTGGATGATTATAGGCGTGATGGTAGA
GGTCCCCCCCCAAGACCCAACTGAATCTAAACCCCTCGGAGTACTCCTAAGGAAGATGATTCCTCTGCTAGTACC
TCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCCGTTGACACAGCTGCTAGAGAAAGAGAAGTA
GAAGAACGGCTACAGAAGGAACAAGAGAAGTTGCAGCATCAGCTGGATGAGCCAAAACCTAGAACGACGGCCTCCG
GAGAGACACCCAAGCTGGCGAAGTGAAGAACTCAGGAACGGGAACGGTTCGAGGACAGGAAGTGAGTCATCACAG
ACTGGGACCTCCACCACATCTGGCAGAAGTAAGTCAGCCCAGGATGCACGAAGGAGAGAGAATGAGAAGTCTCTA
GAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAACCTTCTAAACCTCCCAAACCTGATCAGCCCCTA
AAGGTAATGCCAGCCCCTCCACCAAAGGAGAATGCTTGGGTGAAGCGAAGTTCTAACCCCTCCTGCTCGATCTCAG
AGCTCAGACACAGAGCAGCAATCCCCTACAAGTGGTGAGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGA
CCAGCAAGGAAAGATGAAAACAAAGTAGATGGGATGAATGTCCCAAAGGCCAAACTGGGAACTCTAGCCGTGGT
CCAGGAGATGGAGGGAACAAAGACCACTGGAAGGAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGA
TCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAAGTTCAGTTCTGCAAGCAAGTATGCTGCTCTC
TCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCGAATAG

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FIGURE 2727

CCTTTGGGAAGCTGCCCCGCGAGTCTCCGAGATTTGTCCCTGGTGGTCCC GCGGACCCCTCGTCCCTCCGCAGTC
TCCGGCTGGCAGCGATGGAGGGCGCTGGGGAGAACGCCCCGGAGTCCAGCTCCTCTGCCCCCTGGGTCCGAAGAGT
CTGCCAGGGATCCACAGGTGCCGCTCCGGAGGAAGAATCGGGGGACTGCGCCCCGGTCCCTGGAGGCGGTCCCCA
AGAAACTCTGTGGGTATTTAAGTAAGTTTCGGCGGCAAAGGGCCCATCCGGGGCTGGAAATCCCGCTGGTTCTTCT
ACGACGAAAGGAAATGTCAGCTGTATTACTCGCGGACCGCTCAGGATGCCAATCCCTTGGACAGCATCGACCTCT
CCAGTGCAGTGTTTGA CTGTAAGGCGGACGCTGAGGAGGGGATCTTCGAAATCAAGACTCCCAGCCGGGTATTATTA
CCCTGAAGGCCGCCACCAAGCAAGCGATGCTGTACTGGCTGCAGCAGCTGCAGATGAAGCGCTGGGAATTCCACA
ACAGCCCCGCCGGCACCTCCTGCCACCCCTGATGCCGCCCTGGCTGGGAATGGGCCCCGTCTGCACCTCGAGCTAG
GGCAAGAAGAGGCAGAGCTGGAGGAGTTCTGTGCCCTGTGAAAACACCCCTGGGCTAGTGGGCGTGGCAGCTG
CCTTGACGCCCTTCCCTGCCCTTCAGAATATTTCCCTCAAGCACCTGGGGACTGAAATACAGAACACAATGCACA
ACATCCGTGGCAACAAGCAGGCCCAGGGAACAGGCCATGAACCTCCAGGGGAAGATTCTCCACAGAGTGGGGAGC
CTCAGAGGGAGGAGCAGCCCTTGGCCTCTGACGCCAGCACCCAGGGAGAGAGCCAGAGGATTCTCCAAAGCCTG
CACCCAAGCCTTCTCTGACCATCAGTTTCGCTCAGAAAGCCAAGCGCCAGAACAACACCTTCCCATTCTTTTCTG
AAGGAATCACACGGAACCGAACTGCCCAGGAGAAAAGTGGCAGCCTTGGAGCAACAGGTTCTGATGCTCACC AAGG
AGTTAAAGTCTCAGAAGGAGCTAGTGAAGATCCTGCACAAGGCACCTGGAGGCCGCCAGCAGGAGAAGCGGGCGT
CCAGCGCATACCTGGCGGGCGGCTGAGGACAAGGACCGGCTGGAGCTGGTGC GGCACAAAGTGC GGCCAGATCGCGG
AGCTGGGCGGGCGGGTGGAGGCCCTGGAGCAGGAGCGGGAGAGCCTGGCGCACACAGCGAGCCTGCGGGAGCAGC
AGGTGCAGGAGCTACAGCAGCACGTGCAGCTGCTTATGGACAAGAACCACGCCAAGCAGCAGGTCATCTGCAAGC
TCTCTGAGAAGGTACCCAGGACTTCACGCACCCCCCTGACCACTCTCCTTTGCGCCCCGACGCTGCCAACAGGG
ACTTCTGAGCCAGCAGGGGAAGATAGAGCACCTGAAGGATGACATGGAAGCTTACCGGACCCAGA ACTGCTTCC
TCAACTCCGAGATCCACCAGGTCACAAAGATCTGGAGAAAGGTGGCTGAGAAGGAGAAGGCCCTTCTGACGAAGG
TGCGCCTACCTCCAAGCCAGAAACTGCCAGGTGGAAGCAAGTACCTGGCCGGTCTGAGAAGGCTGCAGGAGGCC
CTGGGGGACGAAGCCAGCGAGTGCTCAGAGCTGCTGAGGCAGCTTGTCCAGGAGGCACTGCAGTGGGAAGCTGGG
GAGGCCTCATCTGACAGCATCGAGCTGAGCCCCATCAGTAAGTATGATGAGTACGGCTTCTGACGGTGCCCGAC
TATGAGGTGGAAGACCTGAAGCTGCTGGCCAAGATCCAGGCATTGGAGTCACGATCCCACCACCTGCTGGGCCTC
GAGGCTGTGGATCGGCCGCTGAGGGAGCGCTGGGCTGCCCTGGGCGATCTTGTGCCCTCAGCCGAGCTCAAGCAG
CTACTGCGGGCAGGAGTACCCCGTGAACACCGGCCTCGTGTCTGGAGGTGGCTGGTCCACCTCCGTGTCCAGCAC
CTGCACACTCCAGGCTGCTACCAGGA ACTGCTGAGCCGGGGCCAGGCCCGCAGCACCCCTGCTGCCCGCCAGATT
GAGCTGGACCTGAACCGGACCTTCCCCAACAAACAACTTACCTGCCCCACCTCCAGCTTCCCCGACAAGCTC
CGCCGGGTGCTGCTGGCCTTCTCCTGGCAGAACCCACCATCGGCTACTGCCAGGGCCTGAACAGGCTGGCGGCC
ATTGCCCTGCTGGTCTTAGAGGAGGAGGAGAGCGCCTTCTGGTGCCTGGTGGCCATTGTGGAGACCATCATGCC
GCTGATTACTACTGCAACACGCTGACGGCATCCAGGTGGACCAGCGGGTGTCTCCAGGACCTGCTCTCGGAGAAG
CTGCCCAGGCTGATGGCCCATCTGGGGCAGCACACGTGGATCTCTCCCTCGTCACCTTCAACTGGTTCTCTGTG
GTCTTTGCGGACAGTCTCATTAGCAACATCCTCCTTCGGGTCTGGGATGCCTTCTGTACGAGGGGACGAAGTAC
AACGAGAAGGAGATCTTGAGGCTACAGAATGGCCTGGAAATCTACCAGTACCTGCGCTTCTTACCAAGACCATC
TCCAACAGCCGGAAGCTGATGAACATCGCCTTCAATGACATGAACCCCTTCCGCATGAAACAGCTGCGGCAGCTG
CGCATGGTCCACCGGGAGCGGCTGGAGGCTGAGCTGCGGGAGCTGGAGCAGCTTAAGGCAGAGTACCTGGAGAGG
CGGGCATCCCGGCGCAGAGCTGTGTCCGAGGGCTGTGCCAGCGAGGACGAGGTGGAGGGGGGAAGCCTGACTTGGC
CACCTCCCCCTCCCCACAGCCTTCCCTCACCCCTTGGCTGGCAGACCCACTGGAGGTGAGGCACGGACCAGTGGCCCA
GCCCTGGGTGTCCCATCACCATGTGACCTTGGACATGTCCCTTCCCCTCTCTGGCCCTCAGTTTCCCCACTGGGA
CATTGTGTGCTGCAAAGCCATTGGTTGGGCTACTTCTTCATAGGCACCTTACTTACCCAGGGATGCCACCCCTTTCG
TCACCTCTTCCACAGAGCACTTTGGCATGTAAACAAGCAAGAGCACTGCCTCTATAGGGTAACCTGGAACATTCT
CTAGGTTATATCAATATAAAACAATGTAAATGGTGG

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FIGURE 2728

CACAGGGGCACTGACATCTTTGCTGGACTCTTTTAATCCTCATAAACCCAGGCTGCTGGCACTTGAAATTTGAGA
AGGGCAATCAGTCTGGCCTCCTGCCTTTCTGGCCTGCAGGCCCAGCCTGGACAAACAATTTAGGTGGAGCTCCTG
GAGGCTGGAAGCAGAGAGGAGGTACCTCACCATCCTCTCCTGCCAGCTGTTGCAGACTCTGCCTGGGGAACTGAT
TAAGGGTGAGCAGAGGCATTTATCTCCATGTTAACAAGCAGATGTTCATGGCACCCCCAGTACCGGAGCTCCAAGT
TCCGTCAATGTCTTTGGCAAACCAGCCAGCAAGGAGAACTGCTACGACTCCGTGCCTATCACCCGCAGCGTTCACG
ACAACCACTTCTGTGCCGTGAACCCCCACTTCATTGCAGTTGTGACTGAGTGTGCTGGTGGAGGGGCCCTTCCTCG
TCATCCCCCTGCACCAGACAGGGAAGTTGGACCCCCACTACCCAAAAGTCTGCGGGCACAGAGGCAACGTTTTGG
ATGTCAAGTGGAACCCTTTTGATGATTTTGAGATCGCCTCCTGTTCTGAAGATGCCACAATTAAGATCTGGAGCA
TCCCCAAGCAGCTGCTGACCAGGAACCTCACGGCCTACAGGAAGGAACTCGTGGGCCACGCGCGCAGAGTAGGCC
TGGTGGAGTGGCACCCACGGCCGCCAACATCCTCTTCAGTGCTGGCTATGACTACAAGGTGATGATCTGGAACC
TGGATACAAAGGAGTCTGTTCATCACAAGCCCCATGAGTACGATTAGCTGTCAACAAGATGTGATCCTCTCCATGT
CCTTCAACACCAACGGCAGCCTGTTGGCCACCACCTGCAAAGACCGCAAGATTGGGGTTATTGACCCCCGAGCAG
GGACCGTCTCTCAGGAGGCCAGCTACAAAGGGCACCGGGCCAGCAAAGTGCTGTTTCTGGGGAACCTGAAGAAGC
TGATGTCCACAGGCACATCCCGATGGAACAACCGGCAGGTGGCCTTGTGGGACCAGGATAACCTCTCTGTGCCTC
TGATGGAGGAGGACCTGGACGGCTCCTCGGGCGTGCTGTTTCCCTTCTATGACGCGGACACCAGCATGCTCTACG
TGGTGGGGAAGGGAGATGGCAACATCCGCTACTACGAGGTGAGCGCCGACAAGCCTCACCTGAGCTACCTGACTG
AGTACCGTCTCTATAACCCACAGAAGGGGATCGGTGTTCATGCCAAAGAGAGGACTCGACGTGTCTCTCTGCGAGA
TCTTCCGCTTCTACAAGCTGATCACAACCAAAAGCCTCATCGAGCCCATCTCCATGATTGTGCCCCGGCAGTCAG
AATCCTACCAAGAGGACATATAACCTCCAACAGCAGGGGGCCAGCCCTCCCTGACGGCCCAGGAGTGGCTCAGCG
GGATGAATCGAGACCCAATCCTGGTGTCCCTTAGGCCTGGCTCTGAGCTGCTGAGACCCCCACCCACTGCCTGCAG
AGAGACCTATCTTCAATTCCATGGCCCCAGCCTCACCCCGGCTCTTGAATCAGACAGAAAAGCTGGCTGCAGAAG
ATGGCTGGAGGTCTTCTCCTGTTGGAGGAGAAGATGCCAAGGTGGGCAGCAGAACACAGGCTGGAGGAGAAGA
AAACCTGGCTGACAAATGGCTTTGACGTTTTTCGAATGCCCCCACCAAAGACAGAGAATGAGTTGCTGCAGATGT
TCTACCGGCAACAGGAGGAGATCCGAAGGCTCCGGGAGCTGTTGACCCAGCGAGAGGTCCAGGCCAAACAGTTGG
AACTGGAGATCAAAAACCTTGCGGATGGGCTCAGAGCAGCTCTGAGCAGAGACCTCTGCCCTCCTCACCTCAGGG
ACACCACTCGGCTCCATGGGGAGGTTTAGAACCAAAACCACAAGTCCCCTCAAGGACAACCACTATTTCTATATTT
TTTACCAGAAAACAAAACCTCTCCATCGCTGAAAGAGATTCCAGTGGGACATGGTGCCGTTTTTCTGTTTGCCTTC
TTGCAACAACAGTTTTCTGAATTGACTTTGTTTTTCAGATGATGCCTTCTGTTGAATTCTGTTATTAAGGGCCCATG
ATGAGCTGTAACCTTCTCAAGAGGAAAGAACACAGTAGAAAACCTAGAGCTGGAAGGATCTAGGTTGACCTGTCTGT
GATTTTCAAACCTGTGGTCCAGAGAATAGGGGAAGACTGGGCCAGACGCAGTGGCTCATGCCTGTAATCCCAGCAC
TCTGGGAGGCTGAGGTGGGCGGATTGCTTGAGGTGCGGAGTTTGAAACCAGTCTCACAGGCGCAGTGGCTCACG
CCTGTAATTCAGCATGTTGGGAGGCCGAGGCTGGTGGATCACGAGGTGAGCAGTTCGAGACCAGCCTGACCAAC
ATGGTGAAACCCCATCTCTACTAAAAA

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FIGURE 2729

MSWHPQYRSSKFRHVFGKPASKENCYDSVPITRSVHDNHFCAVNPHFIAVVTECAGGGAFLVIPLHQTGKLDPHY
PKVCGHRGNVLDVKWNPFDDEIASCEDATIKIWSIPKQLLTRNLTAIRKELVGHARRVGLVEWHPTAANILFS
AGYDYKVMIWNLDTKESVITSPMSTISCHQDVILSMSFNTNGSLLATTCKDRKIRVIDPRAGTVLQEASYKGHRA
SKVLFLGNLKKLMSTGTSRWNNRQVALWDQDNLSVPLMEEDLDGSSGVLFPPFYDADTSMLYVVGKGDGNIRYYEV
SADKPHLSYLTEYRSYNPQKGIGVMPKRGLDVSSCEIFRFYKLITTKSLIEPISMIVPRQSESYQEDIYPPTAGA
QPSLTAQEWLSGMNRDPILVSLRPGSELLRPHPLPAERP IFNSMAPASPRLLNQTEKLAEDGWRSSSLLEEKMP
RWAAEHRLEEKKTWLTNGFDVFECPPPKTENELLQMFYRQQEEIRRLRELLTQREVQAKQLELEIKNLRMGSEQL

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FIGURE 2730

GTGGAGATGAATGGCGGGCGCGGCGACCGGGAGCCGGACCCCTGGGAGGTCGGAGCTTGTCGAGGGATGCGGCTG
GCGCTGCCCGGAGCATGGCGACCGCGTGGCTGAGCTCTTCTGTCGCCGCTGCCGCCGCTGCGTGTGCGCGCTTTG
CCCGGTGCTGGGCGCGCACCGTGGCCACCCTGTGGGCCTGGCGCTGGAGGCAGCGGTGCACGTGCAGAACTCAG
CCAAGAATGTTTAAAGCAGCTGGCAATCAAGAAGCAGCAGCACATTGACAACATAACCCAGATAGAAGATGCCAC
CGAGAAGCTCAAGGCTAATGCAGAGTCAAGTAAAACCTGGCTGAAGGGGAAATTCAGTGAAGTCAAGTACTACT
TGACGAAGAGGAAGCGCTGGCCAAGAAATTCATTGATAAAAACACGCAGCTTACCCTCCAGGTGTACAGGGAACA
AGCTGACTCTTGACAGAGAGCAACTTGACATCATGAATGATCTCTCCAACAGGGTCTGGAGTATCAGCCAGGAGCC
CGATCCTGTCCAGAGGCTTCAGGCATACACGGCCACCGAGCAGGAGATGCAGCAGCAGATGAGCCTCGGGGAGCT
GTGCCATCCCGTGCCCTCTCTTTTGAGCCCGTCAAGAGCTTCTTTAAGGGCCTCGTGGAAGCCGTGGAGAGTAC
ATTACAGACGCCATTGGACATTGCCTTAAGGAAAAGCATAACTGCCAGCTCTCAGACCCTTCCAGCACCAAGCC
AGGTACCTTGTTGAAAACAGCCCTCACCAGAGCGATCGCTATTGCTGAAATACGCGCGCACGCCACGCTGGA
TCCTGACACGATGCACGCGCGCTGCGCCTGTCCGCCGATCGCTGACGGTGCCTGCGGCTGCTGGGCAGCCT
GGGGCCCGTGCCCGTGCTGCGGTTGACGCGCTCTGGCAAGTGCTGGCTCGTGAAGTCTTCGCCACCGGCCGCCA
CTACTGGGAGGTTGACGTGCAGGAGGCGGGCGCCGGCTGGTGGGTGGGCGCGGCCTACGCCTCCCTTCGGCGCCG
CGGGGCCCTCGGCCGCGCCCGCTGGGCTGCAACCGCCAGTCTTGGTGCCTCAAGCGCTACGACCTTGAGTACTG
GGCCTTCCACGACGGCCAGCGCAGCCGCTGCGGCCCGCGACGACCTCGACCGGCTCGGCGTCTTCCCTGGACTA
CGAGGCCGGCGTCTCGCCTTCTACGACGTGACGGGCGGCATGAGCCACCTGCATACCTTCCGCGCCACGTTCCA
GGAGCCGCTCTACCCGGCCCTGCGGCTCTGGGAGGGGGCCATCAGCATCCCCGGCTGCCCTAGGGGCCAGGACC
GGCGTGACAGCCTCCAGACTTGAATCTGTAGACATTTCTTTATTGATATGGCAAATTGCTTGCAGATATTTTAA
ATGACAGCAATTTTCTAATATTTGGTTTAATAAAATGTGAATAATGTCCCTTTT

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FIGURE 2731

MAGAAATGSRTTPGRSELVEGCGWRCPEHGDRVAELFCRRRCRRVCALCPVLGAHRGHPVGLALEAAVHVQKLSQEC
LKQLAIKKQQHIDNITQIEDATEKLLKANAESSKTWLKGFTELRLLLDEEEALAKKFIDKNTQLTLQVYREQADS
CREQLDIMNDLSNRVWSISQEPDPVQRLQAYTATEQEMQQQMSLGELCHPVPLSFEPVKSFFKGLVEAVESTLQT
PLDIRLKESINCQLSDPSSTKPGTLLKTSPSPERSLLLKYARTPTLDPDTMHARLRLSADRLTVRCGLLGSLGPV
PVLRFDALWQVLARDCFATGRHYWEVDVQEAGAGWWVGAAYASLRRRGASAAARLGCNRQSWCLKRYDLEYWAFH
DGQRSRLRPRDDLDRLGVFLDYEAGVLAIFYDVTGGMSHLHTFRATFQEPLYPALRLWEGAISIPRLP

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FIGURE 2732

GTCGACGCGGCCGCGCTCCGCTCCCGTGAGTAACTTGGCTCCGGGGGCTCCGCTCGCCTGCCCGCACGCCGCCCG
CCACCCAGGACCGCGCCGCCCGGCTCCGCCGCTAGCAAACCCCTCCGACGGCCCTCGCTGCGCAAGCCGGGACGC
CTCTCCCCCTCCGCCCCCGCCGCGGAAAGTTAAGTTTGAAGAGGGGGGAAGAGGGGAACATGGACATGAAGAGG
AGGATCCACCTGGAGCTGAGGAACCGGACCCCGGCAGCTGTTTCGAGAACTTGTCTTGGACAATTGCAAATCAAAT
GATGAAAAAATTGAGGGCTTAACAGCTGAATTTGTGAACTTAGAGTTCCTCAGTTTAAATAATGTAGGCTTGATC
TCAGTTTCAAATCTCCCCAAGCTGCCTAAATTGAAAAAGCTTGAACTCAGTGAAAATAGAATCTTTGGAGGTCTG
GACATGTTAGCTGAAAAACTTCCAAATCTCACACATCTAAACTTAAAGTGAAATAAACTGAAAGATATCAGCACC
TTGGAACCTTTGAAAAAGTTAGAATGTCTGAAAAGCCTGGACCTCTTAACTGTGAGGTTACCAACCTGAATGAC
TACCGAGAGAGTGTCTTCAAGCTCCTGCCCCAGCTTACCTACTTGGATGGCTATGACCGAGAGGACCAGGAAGCA
CCTGACTCAGATGCCGAGGTGGATGGTGTGGATGAAGAGGAGGAGGACGAAGAAGGAGAAGATGAGGAAGACGAG
GACGATGAGGATGGTGAAGAAGAGGAGTTTGATGAAGAAGATGATGAAGATGAAGATGTAGAAGGGGATGAGGAC
GACGATGAAGTCAGTGAGGAGGAAGAAGAATTTGGACTTGATGAAGAAGATGAAGATGAGGATGAGGATGAAGAG
GAGGAAGAAGGTGGGAAAGGTGAAAAGAGGAAGAGAGAAACAGATGATGAAGGAGAAGATGATTAAGACCCCAGA
TGACCTGCAGAAACAGAACTGTTCAGTATTGGTTGGACTGCTCATGGATTTTGTAGCTGTTTAAAAAAAAAAAAA
AGGTAGCTGTGATACAAACCCAGGACACCCACCCACCCAAAGAGCCAAAGAATAGTTCCTGTGACATTCCGCCT
TCCTTCCATGTAGTCCCTCTTGGTAATCTACCACCAAGCTTGTGGACTTCACCCCAACAAAATTGTAAGCGTTGT
TAGGTTTTTGTGTAAGATTCTTGCTGTAGCGTGGATAGCTGTGATTGGTGAGTCAACCGTCTGTGGCTACCAGTT
ACACTGAGATTGTAACAGCATTTTTACTTTCTGTACAACAAAAAGCTTTGTAAATAAAATCTTAACATTTTGGG
TCTGTTTTTTCATGCTTTTGCTTTTTAATTATTATTATTATTTTTTTTACATTAGGACATTTTATGTGACAACTGC
CAAAAAAGTATTTTTAAGAATTTAAGCGAAATAAACAGTTACTCTTTGGC

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FIGURE 2734

CCTCGGTTCCGCGGCGCACCGGAGGGCAGC**ATGT**CGCGGCGGCGGCACAGCGACGAGAACGACGGTGGGCAGCCT
CACAAAAGGAGAAAGACCTCTGATGCAAATGAAACTGAAGATCATTGGGAATCTTTAATATGTAAAGTAGGAGAA
AAGAGTGCCTGCTCTTTGGAGAGCAACCTAGAAGGCTTGGCTGGTGTGTTTGGGAAGCTGATCTTCCTAACTACAAG
AGCAAGATCTTAAGGCTTCTTTGTACAGTTGCACGCCTATTACCTGAGAAGCTGACAATTTATACAACATTAGTT
GGACTACTGAATGCCAGGAATTACAATTTTGGTGGAGAATTTGTAGAAGCCATGATTTCGTCAACTTAAAGAATCA
TTGAAAGCAAACAATTATAATGAAGCCGTGTATTTGGTCCGTTTTTTTATCTGATCTTGTGAATTGTCATGTGATT
GCCGCCCATCAATGGTTGCTATGTTTGAAAATTTTGTAAAGCGTAACTCAGGAAGAAGATGTACCTCAGGTGCGA
CGAGATTGGTATGTGTATGCATTTCTGTCTATCTTTGCCCTGGGTTGGAAAGGAGTTGTACGAAAAGAAAGATGCA
GAGATGGACCGCATCTTTGCCAACACTGAAAGCTATCTTAAAAGACGCCAAAAGACTCATGTACCCATGTTACAG
GTATGGACTGCTGATAAACCACATCCACAAGAAGAGTATTTAGATTGCCTGTGGGCCAGATTGAGAAATTGAAA
AAGGATCGCTGGCAGGAACGGCACATCCTAAGACCTTATCTTGCCTTTGACAGCATCCTGTGTGAAGCACTGCAG
CACAATCTGCCTCCTTTTACACCACCTCCTCACACTGAAGATTCAGTGTACCCAATGCCAAGGGTCATCTTCAGA
ATGTTTGTATTACACAGATGATCCCGAGGGTCTGTCTATGCCAGGGAGTCATTCAGTGGAAAGATTTGTAATAGAA
GAGAATCTTCACTGCATCATTAAAGTCCCACTGGAAGGAAAGGAAGACTTGTGCTGCACAGTTAGTGAGCTATCCA
GGGAAGAACAAGATCCCCTTGAACCTACCACATAGTTGAGGTGATCTTTGCAGAGCTGTTTCAACTTCCAGCACCC
CCTCACATTGATGTGATGTACACAACACTCCTCATTGAAGTGTGCAAACCTTCAACCTGGCTCTCTACCCCAAGTT
CTTGCACAGGCAACTGAAATGCTATACATGCGTTTGGACACAATGAACACTACCTGTGTAGACAGGTTTATTAAT
TGGTTTTCTCATCTCTAAGTAACTTCCAGTTCCGTTGGAGCTGGGAAGATTGGTCAGATTGTCTTAGTCAAGAT
CCTGAAAGTCCCAAACCGAAGTTTGTAAAGAGAAGTTCTAGAAAAATGTATGAGGTTGTCTTACCATCAGCGTATA
TTAGATATTGTTCTCTACCTTCTCAGCTCTGTGTCTGCAAACCCAACCTGCATTTACAAGTATGGAGATGAA
AGTAGCAATTCTCTTCTGGACATTCTGTTGCCCTCTGTTTAGCTGTTGCCTTTAAAAGTAAGGCAACCAATGAT
GAAATCTTCAGCATTCTGAAAGATGTACCAAATCCTAACCAGGATGATGACGACGATGAAGGATTCAGTTTTAAC
CCATTGAAAATAGAAGTCTTTGTACAGACTCTGCTACACTTGGCAGCCAAATCATTGAGCCACTCCTTCAGTGCT
CTTGCAAAGTTTCATGAAGTCTTCAAAAACCTAGCTGAAAGTGATGAAGGAAAGTTACATGTGCTAAGAGTTATG
TTTGAGGTCTGGAGGAACCATCCACAGATGATTGCTGTACTAGTGGATAAGATGATTTCGTACACAAATAGTTGAT
TGTGCTGCCGTAGCAAATTGGATCTTCTCTTCAGAACTATCTCGTGACTTTACCAGATTGTTTGTGTTGGGAAATT
TTGCACCTCTACAATTCGTAAGATGAACAAACATGTCCTGAAGATCCAGAAAGAGCTGGAAGAAGCTAAAGAGAAA
CTTGCTAGGCAACACAAACGGCGAAGTGATGATGACGACAGAAGCAGTGACAGGAAAGACGGGGTTCTTGAGGAA
CAAATAGAACGACTTCAGGAAAAAGTGGAATCTGCTCAGAGTGAACAAAAGAATCTTTTCTCGTTATATTTTCAG
CGGTTTATCATGATCTTGACCGAGCACCTAGTACGATGCGAAACTGATGGGACCAGTGATTAACACCATGGTAT
AAGAACTGTATAGAGAGGCTGCAGCAGATCTTCCTACAGCATCACCAAATAATCCAGCAGTACATGGTGACCCTG
GAGAACCTTCTCTTCACTGCTGAATTAGACCCTCATATCTTGGCCGTGTTCCAGCAGTTCTGTGCCCTGCAGGCC
TAAGGGTCATTTTTTCTCATGTCAAGGTTTTTTTTTGATATCTTAAATAATTTGTCTTATTTTTTGATGGTTTG
AATGCTTGCTTTCTTGTAGTATCCTTTCATTCTTAAAGGAAACAAAGGGGAAGAGGACAGTGAATGAACATGGC
ATTACTTTTAATTGCCCTGAAAAGCAAATACTTCCTAACGGCAGTAATGTGACTATGACCATGATATATTATATA
TGTGACAGATACAAATTCTCTGTGATCAGTTTGTTATTTTTTCTCTTAAAGGCAACAAAATAATTGGTTTGAG
GTATGTGAAACACTAGAGGTCAACCTTACATAGTATATAGAAGTATGAGGTTTACCCAGCTACCCAGTAGCATAA
CTTTTCACAGCTCGGGGATGAATTAACATGGCTGAAATAAACTAAAAGTATG

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FIGURE 2735

MSRRRHS DENDGGQPHKRRKTS DANETEDHLES LICKVGEKSACSLESNLEGLAGVLEADLPNYKSKILRL LCTV
ARLLPEKLTIIYTTLVGLLNARNYNFGGEFVEAMIRQLKESLKANNYNEAVYLVRF LSDLVNCHVIAAPSMVAMFE
NFVSVTQEEDVPQVRRDWYVYAF LSSLPWVGKELYEKKDAEMDRIFANTESY LKRRQKTHV PMLQVWTADKPHPQ
EEYLDCLWAQIQKLKKDRWQERHILRPYLA FDSILCEALQHNLPPFTPPPHTEDSVYPMPRVIFRMFDYTDDPEG
PVMPGSHSVERFVIEENLH CIIKSHWKERKTCAAQLVSYPGKNKIPLNYHIVEVIFAELFQLPAPP HIDVMYTTL
LIELCKLQPGSLPQVLAQATEMLYMR LDTMNTTCVDRFINWF SHHLSNFQFRWSWEDWSDCLSQDPESP KPKFVR
EVLEKCMRLSYHQRI LDIVPPTFSALCPANPTCIYKYGDESSNSLP GHSVALCLAVAFKSKATNDEIFSILKDVP
NPNQDDDDDEGFSFNPLKIEVFVQTLLHLAAKSF SHSF SALAKFHEVF KTLAESDEGKLHVLRVMFEVWRNHPQM
IAVLVDKMIRTQIVDCAAVANWIFSS ELSRDFTRLFVWEILHSTIRKM NKHVLKIQKELEEAKEKLARQH KRRSD
DDDRSSDRKDGVL EEQIERLQEKVES AQSEQKNLFLVIFQRFIMILTEHLVRCETDGT SVLTPWYKNCIERLQQI
FLQHHQIIQQYMTLENLLFTAELDPHILAVFQQFCALQA

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FIGURE 2736

CGGCTGTAATCTCAGAGGCTTGTTTGCTGAGGGTGCC TGCGCACGTGCGACGGCTGCTGGTTTTGAAAC**ATGAAT**
CTTTTCGCTCGTCCTGGCTGCCTTTTGCTTGGAATAGCCTCCGCTGTTCCAAAATTTGACCAAAATTTGGATACA
AAGTGGTACCAGTGGAAGGCAACACACAGAAGATTATATGGCGCGAATGAAGAAGGATGGAGGAGAGCAGTGTGG
GAAAAGAATATGAAAATGATTGAAGTGCACAATGGGGAATACAGCCAAGGGAAACATGGCTTCACAATGGCCATG
AATGCTTTTCCTGACATGACCAATGAAGAATTCAGGCAGATGATGGGTTGCTTTGAAACCAGAAATTCAGGAAG
GGGAAAGTGTTCGTGAGCCTCTGTTTCTTGATCTTCCCAAATCTGTGGATTGGAGAAAGAAAGGCTACGTGACG
CCAGTGAAGAATCAGAAACAGTGTGGTTCTTGTTGGGCTTTTAGTGCGACTGGTGCTCTTGAAGGACAGATGTTT
CGGAAAACCTGGGAACTTGTCTCACTGAGCGAGCAGAATCTGGTGGACTGTTTCGCGTCCTCAAGGCAATCAGGGC
TGCAATGGTGGCTTCATGGCTAGGGCCTTCCAGTATGTCAAGGAGAACGGAGGCCTGGACTCTGAGGAATCCTAT
CCATATGTAGCAGTGGATGAAATCTGTAAGTACAGACCTGAGAATTCTGTTGCTAATGACACTGGCTTCACAGTG
GTCGCACCTGGAAAGGAGAAGGCCCTGATGAAAGCAGTCGCAACTGTGGGGCCCATCTCCGTTGCTATGGATGCA
GGCCATTCGTCTTCCAGTTCTACAAATCAGGCATTTATTTTGAACCAGACTGCAGCAGCAAAAACCTGGATCAT
GGTGTCTGGTGGTTGGCTACGGCTTTGAAGGAGCAAATTCGAATAACAGCAAGTATTGGCTCGTCAAAAACAGC
TGGGGTCCAGAATGGGGCTCGAATGGCTATGTAAAAATAGCCAAAGACAAGAACAACCACTGTGGAATCGCCACA
GCAGCCAGCTACCCCAATGTG**TGAG**CTGATGGATGGTGAGGAGGAAGGACTTAAGGACAGCATGTCTGGGGAAAT
TTTATCTTGAACTGACCAACGCTTATTGTGTAAGATAAACCAGTTGAATCATTGAGGATCCAAGTTGAGATTT
TAATTCTGTGACATTTTTACAAGGTAAAAATGTTACCACTACTTTAATTATTGTTATACACAGCTTTATGATATC
AAAGACTCATTGCTTAATTCTAAGACTTTTGAATTTTCATTTTTTAAAAAGATGTACAAAACAGTTT

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FIGURE 2737

MNLSLVLA AFC LG IASAVPKFDQNLDTKWYQWKATHRRLYGANEEGWRRAVWEKNMKMIELHNGEYSQGKHGFTM
AMNAFPDMTNEEFQMMGCFRNQKFRKGKVFREPLFLDLPKSVDWRKKGYVTPVKNQKQCGSCWAFSATGALEGQ
MFRKTGKLVSLSEQNLVDCSRPQGNQGCNGGF MARAFQYVKENGGLDSEESYPYVAVDEICKYRPENSVANDTGF
TVVAPGKEKALMKAVATVGPI SVAMDAGHSSFQFYKSGIYFEPDCSSKNLDHGVLVVGYGFE GANSNN SKYWLVK
NSWGPEWGSNGYVKIAKDKNNHCGIATAASYPNV

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FIGURE 2738

ATGAAAGATCAAGATCGTGACAGGCAGTGGCGCGAGGCTTGAGTTGGGAAACCAGTTCTCCCACTTCATTAATAAT
GATGTCGATGTTCCCTGGCAGTGTTTATAACCAATGCTACTTTGACCTTTGCGCCTTGGCACACGACAGTAGCCTA
TATTTGCCATTTTGTCTTCTTGACATAGAAAGAGCATGGGAAGTAATAAAGCTGGAATTTATGCAGCTC
TTTCGGTCTCCACAGCTCGGGGTCTTGCCACAGACACAGCGCCACGAGTTCTGGCACTTTGGTCAACGTTTATA
AACGGGCTCTCCTCTGCCGCCGCGGGCATGCGCTTTCCCCAAGACTCTGAGGCCACTTTTGCTCTCAGAGGCACA
CAGAAGAGACATCGGGCGCATGGCAAGCGGGCAGCTGAAGATGATGAGGATGATGATGTCGATACCAAGAAGCAG
AAGACCGACAAGGATGACTAG

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FIGURE 2739

MKIKIVTGSGARLELGNQFSHFINNDVDVPGSVYTKCYFDLCALAHDS~~SL~~YLPFC~~LL~~DIERAWELKVIKLEFMQL
FRSPQLGVLPQTQRPRVLALWSTFINGLSSAAAGMRFPQDSEATFALRGTQKRHRAHGKRAAEDDED~~DD~~VDTKKQ
KTDKDD

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FIGURE 2740

GCCAGCTGCCGGTCTTTCGGGGGCTCCGTAACTTTCTATCCGTCCGCGTCAGCGCCTTGCCACCCTCATCTCCAA
TATGCCTGGTCCGACCCCCAGTGGCACTAACGTGGGATCCTCAGGGCGCTCTCCAGCAAAGCAGTGGCCGCCCCG
GGCGGCGGGATCCACTGTCCGGCAGAGGAAAAATGCCAGCTGTGGGACAAGGAGTGCAGGCCGCACAACCTCGGC
AGGCACCGGGGGGATGTGGCGATTCTACACAGAAGATTCACCTGGGCTCAAAGTTGGCCCTGTTCCAGTATTGGT
TATGAGTCTTCTGTTCATCGCTTCTGTATTTATGTTGCACATTTGGGGCAAGTACACTCGTTCGTAGATTGAGTT
ACATCCATCTGTCATCTGAAGAAGGAGGAAAAACCCAACATTTCTTGGACCAAAGTATAGTGACTATCTGTTT
ATGAGAGAAATTTTCTGTAAGCTTGCTGTTTTACAGGGGATTTATCAATAATTGATTTTGAGGAATCAGTTTTTT
TCTATGGCTAATAAACTTTTTAATTCATTATACTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2741

MPGPTPSGTNVGSSGRSPSKAVAARAAGSTVRQRKNASCGTRSAGRTTSAGTGGMWRFYTEDSPGLKVGPPVPLV
MSLLFIASVFMLHIWGYTRS

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FIGURE 2742

ATGTCTACTCCTTCTGGAATATCCACCTGGCTCAGCCTGCCTGTTTCGACTCCTGCCTCCATCACATCCATCAGA
GTGACCCAGAAGTCCTCTGGCCCCCTGGGCCCTTCAGCAGCTGCACCTACGTGAGTGGGCCTGGCGTCTGCATCAGC
TCCTTGAGCTGCTCCCCGAGTGGGGAGCAGCAGCTTTCGGGGTGGCCTGGGTGGAGGCTATGGTGGGGCCAGTGGC
ATGGGAGGCATCATCGCCATCATGGTCAACCAGAGCCTGTTGAGCCCCCTTAACCTGGAGGTGGACCCCAACATC
CAGGCCGTGTGTACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCTCCTTCATCGACAAGGTA
TGTTTCCTGGAGCAGCAGAACAAGGTGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGT
AACATGGACAACATGTTGGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTG
AAGCTGGAAGCAGAGCTTGGCAACATGCAGGGGCTGGGGGAGGACTTCAAGAACAAGTATGAGGATGAGATCAAT
AAGCATACGGAGGTGGAGAATGAATTTGTCCTCATCAAGAAGGATGTTGATGAAGCTTACATGAACAAGGCAGAA
CTGGAGTCCCTCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAGATCCGGGAG
CTGCAGTCCCAGATCTCCGACATGTCTATGGTGCTGTCCATGGACTACAGCTGCTCTCGGGACATGGACAGCATC
ATCCCTGAGGTCAAGGTGCAGTATGAGGAGATTGCCAACTGCAGCCGGGCTGAGGCTGAGAGCATGTACCAGATC
AAGTATGAGGAGCTGCAGACGCTGGCTGGGAAGTACGGGGATGACCTAAGCCGCACAAAGACTGAGATCTCCGAG
ATGAACCGGAACATCAGCTGGCTCCAGGCTGAGACCGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCC
ATCACAGATGCCGAGCAGCGTGGGGAGCTGGCTGTTAAGGATGCCAACGCCAAGCTGTCCGAGCTGGAGGCCGCC
CTGCAGCGGGCCAAGCAGGACATGATGGGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCGGGCTTACCCTG
GACATCGAGATTGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAATCTGGGATGCAGAACGTG
AGTATCCATACGAAGACCACCAGCAGCTATGCAGGTGGGCTGAGCTCGGCCTATGGGGGCCTCACAAGCCCCGGC
ATCATCTACCGCCTGGGCTCCAGCTTTGGCTCTGCCGCGGGCTCCAGCTCCTTCAGCCGCACCAGCTCCACCAGG
GCCGTGGTTGTGAGGAAGATCGAGACCCATGATGGCAAGCTGGAGTCCGAGTCCTCTGACGTCCTGTCCAAGTGA

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FIGURE 2743

MSTPSGISTWLSLPVSTPASITSIRVTQKSSGPWAFSSCTYVSGPGVCISLSCSRVGSSSFRGGLGGGYGGASG
MGGI IAIMVNQSLLSPLNLEVDPNIQAVCTQEKEQIKTLNNKFASFIDKVWFLEQQNKVLETKWSLLQQQKMARS
NMDNMLESYINNLRRLQLETLGQEKLEAELGNMQGLGEDFKNKYEDEINKHTEVENEFVLIKKDVDEAYMNKAE
LESLLLEGLTDEINFLRQLYEEEEIRELQSQISDMSMVLSMDYSCSRDMDSIIPEVKVQYEEIANCSRAEAESEMYQI
KYEELQTLAGKYGDDLSRTKTEISEMNRNISWLQAETEGKQGRASLEAAITDAEQRGELAVKDANAKLSELEAA
LQRAKQDMMGQLREYQELMNVLTLTDIEIATYRKLEGEESRLESGMQNVSIHTKTTSSYAGGLSSAYGGLTSPG
IIYRLGSSFGSAAGSSSFRTSSSTRAVVVRKIETHDGKLESESSDVLSK

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FIGURE 2744

AAAAACATGATGAGAAGTCTATAAAAATTGTGTGCTACCAAAGATCTGTCTTATTTGGCAGCTGCTGCCTCACCC
ACAGCTTTTGATATCTAGGAGGACTCTTCTCTCCCAAACCTACCTGTCACCATGCCCCACCGATTTCCAGCCCTCA
CCCAGGAGCAGAAGAAGGAGCTCTCAGAAATTGCCAGAGCATTGTTGCCAATGGAAAGGGGATCCTGGCTGCAG
ATGAATCTGTAGGTACCATGGGGAACCGCCTGCAGAGGATCAAGGTGAAAAACACTGAAGAGAACCGCCGGCAGT
TCCGAGAAATCCTCTTCTGTGTGGACAGTTCCATCAACCAGAGCATCGGGGGTGTGATCCTTTTCCACGAGACCC
TCTACCAGAAGGACAGCCAGGGAAAGCTGTTTCAAGAAACATCCTCAAGGAAAAGGGGATCGTGGTGGGAATCAAGT
TAGACCAAGGAGGTGCTCCTCTTGCAGGAACAAACAAAGAAACCACCATTCAAGGGCTTGATGGCCTCTCAGAGC
GCTGTGCTCAGTACAAGAAAGATGGTGTGACTTTGGGAAGTGGCGTGCTGTGCTGAGGATTGCCGACCAGTGTC
CATCCAGCCTCGCTATCCAGGAAAACGCCAACGCCCTGGCTCGCTACGCCAGCATCTGTCAGCAGAATGGACTGG
TACCTATTGTTGAACCAGAGGTAATTCCTGATGGAGACCATGACCTGGAACACTGCCAGTATGTTACTGAGAAGG
TCCTGGCTGCTGTCTACAAGGCCCTGAATGACCATCATGTTTACCTGGAGGGCACCCTGCTAAAGCCCCAACATGG
TGACTGCTGGACATGCCTGCACCAAGAAGTATACTCCAGAACAAGTAGCTATGGCCACCGTAACAGCTCTCCACC
GTACTGTTCTGTCAGCTGTTCTGTCATCTGCTTTTTGTCTGGTGGCATGAGTGAAGAGGATGCCACTCTCAACC
TCAATGCTATCAACCTTTGCCCTCTACCAAAGCCCTGGAAACTAAGTTTCTCTTATGGACGGGCCCTGCAGGCCA
GTGCACTGGCTGCCTGGGGTGGCAAGGCTGCAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGG
CTAACTGCCAGGCGGCCAAAGGACAGTATGTTTACACACGGGTCTTCTGGGGCTGCTTCCACCCAGTCGCTCTTCA
CAGCCTGCTATACCTACTAGGGTCCAATGCCCGCCAGCCTAGCTCCAGTGCTTCTAGTAGGAGGGCTGAAAGGGA
GCAACTTTTCCCTCCAATCCTGGAATTCGACACAATTAGATTTGAACTGCTGGAATACAACACATGTTAAATCT
TAAGTACAAGGGGGAAAAAATAAATCAGTTATTGAAACATAAAAAATGAATACCAAGGACCTGATCAAATTTTACA
CAGCAGTTTCTTGCAACACTTTTCACTCCCCATGCTCCAGAATACCCACCCAAGAAAATAATAGGCTTTTAAAC
AATATCGGCTCCTCATCCAAAGAACAACCTGCTGATTGAAACACCTCATTAGCTGAGTGTAGAGAAAGTGCATCTTA
TGAAACAGTCTTAGCAGTGGTAGGTTGGGAAGGAGATAGCTGCAACCAAAAAAGAAATAAATATTCTATAAACCT
TC

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FIGURE 2745

MAHRFPALTQEQKKELSEIAQSIVANGKGILAADESVGTMGNRLQRIKVENTEENRRQFREILFSVDSSINQSIG
GVILFHETLYQKDSQGKLFERNILKEKGIVVGIKLDQGGAPLAGTNKETTIQGLDGLSERCAQYKKDGVDFGKWRA
VLRIADQCPSSLAIQENANALARYASICQQNGLVPIVEPEVIPDGDHDLHCQYVTEKVLAAVYKALNDHHVYLE
GTLLKPNMVTAGHACTKKYTPEQVAMATVTALHRTVPAAVPGICFLSGGMSEEDATLNLNAINLCPLPKPWKLSF
SYGRALQASALAAWGGKAANKEATQEAFMKRAMANCQAAKGQYVHTGSSGAASTQSLFTACYTY

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FIGURE 2746

GCCGCTTTGGGGGCCGCGGTCTCTCCGCAGCTCGCGGGTCACATGGCCCCGCTGAGCAAGGGGAGCCCTGCGCCT
GAGCTGCGAGGCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCGCTCCTTCCGGGCCCCGG
AGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCAGAGGCGGCCCTCGGCGCGCGCAGGGGACC
GAGCTGGTCGCCCCAACCGGGTTTGATTCTGATGACTCTGGCCTGAGTTCCAGGATGGTTTTTTCTTGGGACCA
GACATGAACAAAAGTTGACCTCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACT
GTCCTGGGGCAGCACTGCTGTCCAGCTCTTATCCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCTGGCCTG
TCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAAATGAGCCAAGAGTTCTTGCAGCA
AAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTTTGAGGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTGT
CTGGCAGGCCACCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGT
CCTGCAGGTTGTGTCCAGTTCCACCGGCTTCTTCAGCAATGTGGCCCCAGTGCGAGGGGCACCAACTCTTCT
GTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATGCCAAGTTGCTCTCCAAGTATGTCCCTGTGGCCAATCGCTA
TGAGGGCACTGAGGATGATTATGGTGATGACCCTTCGACCAACTCGTTTGAGAAAGAGAAGCAGGACTATGTCTA
TTGCCTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCCTGATGGTAGAAGACGATGCTGTACCAGAAGA
GCAGATCTTCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTGAGCCACATCTCAGAGATGCCCTTTATCT
CAAGCTGTATCACCCCGAGAGGCTCCAGCACTACATCAATCCAGAGCCCATGCGGATCCTGGAATGGGTTGGTGT
AGGCATGTTGCTGGGGCCCTTACTAACCTGGATATACATGAGGTTTGCCAGCCGCCCAGGGTTTAGCTGGCCTGT
AATGCTCTTCTTCTCCCTGTATAGCATGGGTCTGGTGAGCTGGTGGGTCGGCACTATTTCTTGAAGTGCAGGCG
GCTGAGTCCTTCCCTGTACAGTGTGGTTCTGCCTCTCAGTGTGCAACCCAGCCATGCTCTTCCCGGCACCTGC
GGCCCGCCGGACCTCACCTACCTGTCCCAAGTGTACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTC
GCTGTTGAGGGCCAAGGGAGAGAGGGCCTATGTAGTGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAG
TCTCCGGTACAACCTTTCATCCAGTCTCCTCTAGGGTGCCAAGAGATGCCTTTCTGAAGTTGGCCACTTCTTGAA
GATTCAAATATTTATCTCTTTATTTAGACATGGTTGCCTGCAGGTATTTCACTGTTTACTGTTGTTAGAGATATA
GGCACTGGGGCAGCTGAGGAACCTCAATATGTAAAGAGCCTTGGCTTTGGTAGCCTCCTGGCAGGAGCAGCAGTT
TGCCACAGGTCCGGACCTCTCCCTCCACACAGCCACACTGCCTCATGCAGTCTGACCCACCCAGTGAGGGTGCAT
TTGAACACTGATTATATTCTCCATTTGTTTTTAAGCTCTGCTTTGTGTTAGAGCTTGTGACTGCCAAAAATTTTG
TGCACAGTGATATGACTGTTTTAGGATCTTAAGGGTAGAATTTTGTGAAAGGTGAGATCCTTTGGAATTGAGTTC
TTTCTCATTGGGTATGAAAATGGATGTATGTTTAGAATATATGCCCAACGAGGCAGGACCATGTGGATAGATTCC
ATTTGTTTCTTGACCTGATGTAATAAAAACTGATAAAAAGCCGTGCAGTGCCCGGCATCTTGGAATAAAAAAAAAA
AAAAAAAAA

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FIGURE 2747

MSTSTSPAAMLLRRLRRLSWGSTAVQLFILT VVTFGLLAPLACHRLLHSYFYLRHWHLNQMSQEF LQQSLKEGEA
ALHYFEELPSANGSVPIVWQATPRPWL VITIIITVDRQPGFHYVLQVVSQFHRL LQQCGPQCEGHQLFLCNVERSV
SHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVP EEQIFPVLE
HLLRARFSEPHLRDALYLYKLYHPERLQHYINPEPMRILEWVGVM L LGPLLTIWYMRFA SRPGFSWPV MLFFSLY
SMGLVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLF PAPAARRTLTYLSQVYCHKGFGKDMALYSLLRAKGE
RAYVVEPNLVKHIGLFSSLRYNFHPSLL

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FIGURE 2748

GAGATACGCGCACACACACACAAACGCACTCAGATTTCCCGGACCCTGGTTTTCTCCTGTGACCCTTTCGGG
GCCGGGCTCTCACCCCTAAAGAAGCAGCCCCGCCCTGGGGTGGCCCCACCCTCTCTTGGGACCTGTCATAAGTCGG
ACCCCGGGCGCCCGGCTGCGCAGTCCCAGCCGCCTTCCCCAGGCAGTGGAACCTTCGGGCTCCTGAGCTTCAGGA
TGGTTCGTACTAAGACATGGACCCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAGTTGAAGA
CAGCTGAGCTCCCACCCTTAAAAATGGAGAGGTCTGCTTGAAGCTTTGTTCTCACCCTGGATCCCTACATGA
GAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGGCAGCAAGTGGCCAAAGTTGTGGAAAGTAAAA
ATGTAGCCCTACCAAAGGAACCTATTGTACTGGCTTCTCCAGGCTGGACAACGCACTCCATTTCTGATGGGAAAG
ATCTGGAAAAGCTGCTGACAGAGTGGCCAGACACAATACCACTGTCTTTGGCTCTGGGGACAGTTGGCATGCCAG
GCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGTGTGAAGGTGGAGAAACAGTGATGGTTAATGCAGCAG
CTGGAGCTGTGGGCTCAGTCGTGGGGCAGATTGCAAAGCTCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTG
ATGAAAAGGTTGCCTACCTTCAAAGCTTGGATTTGATGTCGTCTTTAACTACAAGACGGTAGAGTCTTTGGAAG
AAACCTTGAAGAAAGCGTCTCCTGATGGTTATGATTGTTATTTTGATAATGTAGGTGGAGAGTTTTCAAACACTG
TTATCGGCCAGATGAAGAAATTTGGAAGGATTGCCATATGTGGAGCCATCTCTACATATAACAGAACCGGCCAC
TTCCCCCAGGCCACCCCCAGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTCTACCGCTGGC
AAGGAGATGCCCGCCAAAAGCTCTGAAGGACTTGCTGAAATGGGTCTTAGAGGGTAAATCCAGTACAAGGAAT
ATATCATTGAAGGATTTGAAAACATGCCAGCTGCATTTATGGGAATGCTGAAAGGAGATAATTTGGGGAAGACAA
TAGTGAAAGCATGAAAAGAGGACACATGGAATCTGGAGGCCATTTAGATGATTAGTTAATTTGTTTTTCACCAT
TTAGCAAAAATGTATACTACCTTAAATGTCTTAAGAAATAGTACTCATAATGAGTTTGAGCTACTTAATAAAATA
CATTTAAGTGGTATGTAA

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FIGURE 2749

MVRTKTWTLKKHFVGYPTNSDFELKTAELPPLKNGEVLLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAKVVESK
NVALPKGTIVLASPGWTTHSISDGKDLEKLLTEWPD TIPLSLALGTVGMPGLTAYFGLLEICGVKGGETVMVNAA
AGAVGSVVGQIAKLKGCKVVGAVGSDEKVAYLQKLGFDDVFNKYKTVESLEETLKKASPDGYDCYFDNVGGEFSNT
VIGQMKKFGRIAICGAISTYNRTGPLPPGPTPRDCYLSGASHGSFCRLPLARRCPPKSSEGLAEMGLRG

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FIGURE 2750

GAACCTCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCTCCCGACATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGTATTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTGC
ATATTGAGCACATTAAGCACTCTGAGCCGAGATAGCTTCCTGAAATGTGTGAAGGAAAATGATCAGAAAAAGAAA
GAAGCCAAAGAGAAAGGTACCTGGGTTCAACTGAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTGAGA
ACCAATGGGAAGGAGCCTGAACTGCTGGAACCTATTCCTTATGAATTCATGGCATAATAGGTGTTTAAAAAATAA
ATAAATAAAAGACCTCTGGGCTGTTA

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FIGURE 2751

TGGACGGTCTGAAAGGGAGTGTTCTGGGTTTCGCTGGGGCTCGCGGCTCCAGAGCCCAGC**ATG**GCTTCCTCGCGA
GCCTCTTCCACGCAGGCAACCAAACTAAAGCACCCGACGACTTAGTTGCTCCGGTTCGTGAAGAAACCACACATC
TATTATGGAAGTTTGGAAGAGAAGGAGAGGGAGCGTCTGGCCAAAGGAGAGTCTGGGATTTTGGGGAAAGACGGA
CTTAAAGCAGGGATCGAAGCTGGAAATATTAATATAACCTCTGGAGAAGTGTTTGAAATTGAAGAGCGTATCAGC
GAGCGACAGGCAGAAGTATTGGCTGAGTTTGAGAGAAGGAAGCGAGCCCGGCAGATCAATGTTTCCACAGATGAC
TCAGAGGTCAAAGCTTGCTTAGAGCCTTGGGGGAACCCATCACACTTTTTTGAGAGGGTCTCTGCTGAAAGAAGA
GAAAGGTTAAGAAATATCCTCTCAGTTGTCGGTACTGATGCCTTGAAAAAGACCAAAAAGGATGATGAGAAGTCT
AAAAAGTCCAAAGAAGAGTATCAGCAAACCTGGTATCATGAAGGACCAATAGCTTGAAGGTGGCAAGACTATGG
ATTGCTAATTATTCGTTGCCAGGGCAATGAAACGCTTGGAAGAGGCCCGACTCCATAAGGAGATTCCTGAGACA
ACAAGGACCTCCCAGATGCAAGAGCTGCACAAGTCTCTCCGGTCTTTGAATAATTTTGCAGTCAGATTGGGGAT
GATCGGCCTATCTCTACTGTCACTTTAGTCCCAATTCCAAGATGCTGGCCACAGCTTGTTGGAGTGGGCTTTGC
AAGCTCTGGTCTGTTCTGATTGCAACCTCCTTCACTCTTCGAGGGCATAACACAAATGTAGGAGCAATTGTA
TTCCATCCCAAATCCACTGTCTCCTTGGACCCAAAAGATGTCAACCTGGCCTCTTGTCGGCTGATGGCTCTGTG
AAGCTTTGGAGTCTCGACAGTGATGAACCAGTGGCAGATATTGAAGGCCATACAGTGCCTGTGGCGCGGGTAATG
TGGCATCCTTCAGGACGTTTCTTGGGCACCACCTGCTATGACCGTTCATGGCGCTTATGGGATTTGGAGGCTCAA
GAGGAGATCCTGCATCAGGAAGGCCATAGCATGGGTGTGTATGACATTGCCTTCCATCAAGATGGCTCTTTGGCT
GGCACTGGGGGACTGGATGCATTTGGTCGAGTTTGGGACCTACGCACAGGACGTTGTATCATGTTCTTAGAAGGC
CACCTGAAAGAAATCTATGGAATAAATTTCTCCCCCAATGGCTATCACATTGCAACCGGCAGTGGTGACAACACC
TGCAAAGTGTGGGACCTCCGACAGCGGCGTTGCGTCTACACCATCCCTGCTCATCAGAACTTAGTGACTGGTGTC
AAGTTTGAGCCTATCCATGGGAACCTTCTTGCTTACTGGTGCCTATGATAACACAGCCAAGATCTGGACGCACCCA
GGCTGGTCCCCGCTGAAGACTCTGGCTGGCCACGAAGGCAAAGTGATGGGCCTAGATATTTCTTCCGATGGGCAG
CTCATAGCCACTTGCTCATATGACAGGACCTTCAAGCTGTGGATGGCTGAAT**TAG**ATGACAATGGGAAAAGGACTT
GAACCTCAAGCTCTCTCTAAGGAGCTGTTTTCTTCAAACGAGAAGAATTGAAGTGTTTAGTTCTATCATGTTTTT
TGCCAATTACCATGCATAGACCCTCAGTAGAATTGGATTTCCATGTCAGCCCCCTCCAGGAAGGCAGCCCAAT
CCCTAGGTGATGGGGAACCCCTCTCACGGTTGAAAATTTATTACCTTTTTTACGCCCTGCCACGAACCTGTGTAGAC
ATTGTTTTTATTAATCTTTTGTGGCCGGGCGTGGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCCGAG
GTGGGTAGATCGCTTGAGCTCAGGAGTTCAAGACGAGCCTGGGCAACATGGCAAATGCCGTCTCTGCAAAAAAAT
ACTAAAATTAGCTGGTCGCGGTGGCTTCTGCCTGTGATTCCGGCTACTTGGGAGGCTGAGGTGGGAGGGATTGCT
TAAGCCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATTGCGCCATTGCACTCTAGCCTGTGTGACAGAGCAAGACC
CTGTCTCAAAAA

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FIGURE 2752

MASSRASSTQATKTKAPDDLVPVVKPHIYYGSLEEKERERLAKGESGILGKDGLKAGIEAGNINITSGEVFEI
EERISERQAEVLAEFERRKRARQINVSTDDSEVKACLRALGEPITLFGEGPAERRERLRNILSVVGTDALKKTKK
DDEKSKKSKEEYQQTWYHEGPNSLKVARLWIANYSLPRAMKRLEEARLHKEIPETTTRTSQMQLHKSLSLNNFC
SQIGDDREISYCHFSPNSKMLATAACWSGLCKLWSVPCNLLHTLRGHNTNVGAIVFHPKSTVSLDPKDVNLASCA
ADGSVKLWSLDSDEPVADIEGHTVRVARVMWHPSGRFLGTTTCYDRSWRLWDLEAQEEILHQEGHSMGVYDIAFHQ
DGSLAGTGGLDAFGRVWDLRTGRCIMFLEGLHKEIYGINFSPNGYHIATGSGDNTCKVWDLRQRRCVYTIPAHQN
LVTGVKFEP IHGNFLLTGAYDNTAKIWTHPGWSPLKTLAGHEGKVMGLDISSDGQLIATCSYDRTFKLWMAE

GGACACGAGGACGCGGGAAGTCCGGACGCAGTAGCTCCCTGAAGCGAGGCGAAGGGAGGTTTAAGCCCCACGCG
CGGCAATGGCGGAGAGGCCCGAGGACCTAAACCTGCCCAATGCCGTGATCACCAGGATCATCAAGGAGGCGCTCC
CGGACGGTGTCAACATCTCCAAGGAGGCCCGGAGCGCCATCTCCCGCGCCGCCAGCGTCTTCGTGCTGTACGCCA
CATCCTGTGCTAACAACTTTGCAATGAAAGGAAAGCGGAAGACGCTGAATGCCAGTGATGTGCTCTCAGCCATGG
AAGAGATGGAGTTCAGCGGTTTCGTTACCCCATTTGAAAGAAGCTCTGGAAGCATATAGCGGGAGCAGAAAGGCA
AGAAGGAGGCCCTCAGAGCAAAAGAAGAAGGACAAAGACAAAAAAACAGACTCGGAAGAGCAAGACAAGAGCAGGG
ATGAGGACAATGATGAAGACGAAGAAAGGCTGGAAGAAGAAGAACAGAATGAAGAGGAAGAAGTAGACAACTGAA
AAGGGCGGGAGACTGTGGCACCTTGGAAGGTACCACTTGAAATGAGACGTGCTACGTGTTTCTGTGAAGCTTTTC
CATGCTGGGCAGAGTAGTCTCAGGCAAAAGTGCCTGAAAAGATCAGAATAAAAACTGACTAGAAAATACCGTCAAA
ACCAGCACTTACCAAACCTCAGAGCATCTGAGTAGCAGAATCCTGTTTTGCTTCATCAATCTGAAGGTTATGGCCT
TTTGACAAGAGGGATTCTGAACGACTAAATTAGTCAGTTTGCTCGCTTTTGTTTACTTAAATGTATGGTTAGATG
GTTTTTGATCTGCAGTCTTCCCTAGTCCCCCAAATAAGTAATAATAACTTCCATGCTGCCCTGCTGTGTTCCAGAT
CACAGAGGCAGCCAAGGCTCAGGAAAAACTGGGGCTTTGCTTATGGTCAGCCTATGTTTGATTGCACAGTCTTTG
ACAATAGTAGCTTACTAAGACTGCTCAGAATGAGTAAGCTTTAGGAAACTACTAAAATGCTGTGGGAGAATAACA
AAATCCGTTCTCTCTCTTCACTTGACAGAAAGCATTAACTGAATTTTGTTTTTCATAGACCCACTTGGCCCCAAAC
CTTCTATATTGCCTGTAGATGATCGGCCTGCTGGTGTGGTAGTAATCTGATCACAGATATTCTTAAATCAGCAG
TGTGGAATGGTATTAGTCAAACATGGTGCCAGTGTCTTTTACAAAAACAGATGGCATAGTGTGAGATGTACCTTA
CTCTCTGCTACTGTACAGCTTTAGGATTTGTCTATCACCTCCCGGAAGGTGTAAAACCCAGGCTTCCTCTTCTTG
TAGTCCATCTCCCAGACTTGTGACTATGGCTTTTCATTCTTCAATTCTATGACGAGTGCCAAACTTGATTTTCTCT
AGGCACAGCTTTCTCCCTCTGTGCCTCCTGCTTCCTTTCTCTCCTGCCTCTCCTCTGCTCCCCATCCCACCTTTCT
CATCTGCCTCCTTTTCTCACTTCTGTGAGTCTGTAAGCTTTGATAACCTGCTTAATACTCCAAAGTGTGAGTTCC
TCTGATCTCTTGATTCTTAGTTCTAATCTCAGTTTTGTTTTTAAGAGATGGAGTCTCTCACTCTGTGGCCAG
GCTGGAGTGCAGTGGCATGATCATAGCTCATTGCATCCTGAAATCCTGGGCTCAGGTGATCCTCCCGCCTGAGC
CTCCTGAGTATCTGGGACTACAGATGCGTGCCACCAAGCCTGGCTAATTTTGCTCATGTCTTCTAAAAATTATT
TTGTGAAGCCCCTTCAAAAAAACCTTAAGGGAAATCTGATGGTGTCTCAGGAATCTAACTCTCCCTAAACCATCC
TCTTTAACTGCTTCTAAAAATATCTCTGTTGGCCTTTCTTAGCCTTTTTCTGTTTTCCATTAGTGCTCCAAGCGCT
TTTTGTTTCTAAGTTGAGTGCTTGGGGTTTGACAGGTAGTGACGTGTAGTTTGACACTGTTAACTTGTTAAATAC
AGTGAAGAGTTTGTGAGTGAAGAATGCTGAGAAGATTGTAATGCTTTGTACAAATAAAAGTCTTGTTAAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 2754

MAERPEDLNLPNAVITRIIKEALPDGVNISKEARSAISRAASVFVLYATSCANNFAMKGKRKTLNASDVLSAMEE
MEFQRFVTPPLKEALEAYRREQKGKKEASEQKKKDKDKKTDSEEQDKSRDEDNDEDEERLEEEEQNEEEVDN

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FIGURE 2755A

ACCGGCCACAGCCTGCCTACTGTACCCGCCTCTCCCGCGCGCAGATACACGCCCCCGCCTCCGTGGGCACAAAAG
GCAGCGCTGCTGGGGAACCTCGGGGAACGCGCACGTGGGAACCGCCGCAGCTCCACACTCCAGGTACTTCTTCCA
AGGACCTAGGTCTCTCGCCCATCGGAAAGAAAATAATTCTTCAAGAAGATCAGGGACAACCTGATTTGAAGTCTA
CTCTGTGCTTCTAAATCCCCAATTCTGCTGAAAGTGAGATACCCTAGAGCCCTAGAGCCCCAGCAGCACCCAGCC
AAACCCACCTCCACCATGGGGGCCAAGACTCAGCTGTTGGCAGGTGTCTTTCTTGCTTTTCTTGCCCTCGCTACC
GAAGGTGGGGTCTCAAGAAAGTCATCCGGCACAAAGCGACAGAGTGGGGTGAACGCCACCCTGCCAGAAGAGAAC
CAGCCAGTGGTGTTTAACCACGTTTACAACATCAAGCTGCCAGTGGGATCCCAGTGTTCCGGTGGATCTGGAGTCA
GCCAGTGGGGAGAAAGACCTGGCACCGCCTTCAGAGCCCAGCGAAAGCTTTCAGGAGCACACAGTGGATGGGGAA
AACCAGATTGTCTTCACACATCGCATCAACATCCCCCGCGGGCCTGTGGCTGTGCCGCAGCCCCCTGATGTTAAG
GAGCTGCTGAGCAGACTGGAGGAGCTGGAGAACCTGGTGTCTTCCCTGAGGGAGCAATGTACTGCAGGAGCAGGC
TGCTGTCTCCAGCCTGCCACAGGCCGCTTGGACACCAGGCCCTTCTGTAGCGGTCGGGGCAACTTCAGCACTGAA
GGATGTGGCTGTGTCTGCGAACCTGGCTGGAAAGGCCCAACTGCTCTGAGCCCGAATGTCCAGGCAACTGTCAC
CTTCGAGGCCGGTGCATTGATGGGCAGTGCATCTGTGACGACGGCTTCACGGGCGAGGACTGCAGCCAGCTGGCT
TGCCCCAGCGACTGCAATGACCAGGGCAAGTGCGTAAATGGAGTCTGCATCTGTTTCGAAGGCTACGCCGGGGCT
GACTGCAGCCGTGAAATCTGCCAGTGGCCTGCAGTGAGGAGCACGGCACATGTGTAGATGGCTTGTGTGTGTGC
CACGATGGCTTTGCAGGCGATGACTGCAACAAGCCTCTGTGTCTCAACAATTGCTACAACCGTGGACGATGCGTG
GAGAATGAGTGCCTGTGTGATGAGGGTTTACGGGCGAAGACTGCAGTGAGCTCATCTGCCCCAATGACTGCTTC
GACCGGGGCCGCTGCATCAATGGCACCTGCTACTGCGAAGAAGGCTTCACAGGTGAAGACTGCGGGAAAACCCACC
TGCCACATGCCTGCCACACCCAGGGCCGGTGTGAGGAGGGGCAGTGTGTATGTGATGAGGGCTTTGCCGGTGTG
GACTGCAGCGAGAAGAGGTGTCTGTGACTGTCACAATCGTGGCCGCTGTGTAGACGGGCGGTGTGAGTGTGAT
GATGGTTTTACTGGAGCTGACTGTGGGGAGCTCAAGTGTCCCAATGGCTGCAGTGGCCATGGCCGCTGTGTCAAT
GGGCAGTGTGTGTGTGATGAGGGCTATACTGGGGAGGACTGCAGCCAGCTACGGTGCCCCAATGACTGTCAAGT
CGGGGCCGCTGTGTGCGAGGGCAAATGTGTATGTGAGCAAGGCTTCAAGGGCTATGACTGCAGTGACATGAGCTGC
CCTAATGACTGTCAACAGCACGGCCGCTGTGTGAATGGCATGTGTGTTTGTGATGACGGCTACACAGGGGAAGAC
TGCCGGGATCGCCAATGCCCCAGGGACTGCAGCAACAGGGGCCTCTGTGTGGACGGACAGTGCCTCTGTGAGGAC
GGCTTCACCGGCCCTGACTGTGCAGAACTCTCCTGTCCAAATGACTGCCATGGCCAGGGTCTGCTGTGTGAATGGG
CAGTGCGTGTGCCATGAAGGATTTATGGGCAAAGACTGCAAGGAGCAAAGATGTCCAGTGAAGTGTGATGGCCAG
GGCCGCTGCGTGGACGGCCAGTGCATCTGCCACGAGGGCTTCACAGGCCTGGACTGTGGCCAGCACTCCTGCCCC
AGTGAAGTGCACAACTTAGGACAATGCGTCTCGGGCCGCTGCATCTGCAACGAGGGCTACAGCGGAGAAGACTGC
TCAGAGGTGTCTCCTCCCAAAGACCTCGTTGTGACAGAAAGTGACGGAAGAGACGGTCAACCTGGCCCTGGGACAAT
GAGATGCGGGTCACAGAGTACCTTGTGCTGTACACGCCCACCCACGAGGGTGGTCTGGAAATGCAGTTCCTGTG
CCTGGGGACCAGACGTCCACCATCATCCAGGAGCTGGAGCCTGGTGTGGAGTACTTTATCCGTGTATTTGCCATC
CTGGAGAACAAGAAGAGCATTCTGTGACGCGCCAGGGTGGCCACGTACTTACCTGCACCTGAAGGCCTGAAATTC
AAGTCCATCAAGGAGACATCTGTGGAAGTGGAGTGGGATCCTCTAGACATTGCTTTTGAAACCTGGGAGATCATC
TTCCGGAATATGAATAAAGAAGATGAGGGAGAGATCACCAAAGCCTGAGGAGGCCAGAGACCTCTTACCGGCAA
ACTGGTCTAGCTCCTGGGCAAGAGTATGAGATATCTCTGCACATAGTGAAAAACAATACCCGGGGCCCTGGCCTG
AAGAGGGTGACCACCACACGCTTGGATGCCCCCAGCCAGATCGAGGTGAAAGATGTACAGACACCACTGCCTTG
ATCACCTGGTTCAAGCCCCTGGCTGAGATCGATGGCATTGAGCTGACCTACGGCATCAAAGACGTGCCAGGAGAC
CGTACCACCATCGATCTCACAGAGGACGAGAACCAGTACTCCATCGGGAACCTGAAGCCTGACACTGAGTACGAG
GTGTCCCTCATCTCCCGCAGAGGTGACATGTCAAGCAACCCAGCCAAAGAGACCTTCACAACAGGCCTCGATGCT
CCCAGGAATCTTCGACGTGTTTCCCAGACAGATAACAGCATCACCCCTGGAATGGAGGAATGGCAAGGCAGCTATT
GACAGTTACAGAATTAAGTATGCCCCCATCTCTGGAGGGGACCACGCTGAGGTTGATGTTCCAAAGAGCCAAACA
GCCACAACCAAAACCACACTCACAGGTCTGAGGCCGGGAACCTGAATATGGGATTGGAGTTTCTGCTGTGAAGGAA
GACAAGGAGAGCAATCCAGCGACCATCAACGCAGCCACAGAGTTGGACACGCCCAAGGACCTTCAGTTTCTGAA
ACTGCAGAGACCAGCCTGACCCTGCTCTGGAAGACACCGTTGGCCAAATTTGACCGCTACCGCCTCAATTACAGT
CTCCCCACAGGCCAGTGGGTGGGAGTGCAGCTTCCAAGAAACACCACTTCCTATGTCCTGAGAGGCCTGGAACCA
GGACAGGAGTACAATGTCCTCCTGACAGCCGAGAAAGGCAGACACAAGAGCAAGCCCGCACGTGTGAAGGCATCC
ACTGAACAAGCCCCTGAGCTGGAAAACCTCACCGTGACTGAGGTTGGCTGGGATGGCCTCAGACTCAACTGGACC

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FIGURE 2755B

GCAGCTGACCAGGCCTATGAGCACTTTATCATTTCAGGTGCAGGAGGCCAACAAAGGTGGAGGCAGCTCGGAACCTC
ACCGTGCCCTGGCAGCCTTCGGGCTGTGGACATACCGGGCCTCAAGGCTGCTACGCCTTATACAGTCTCCATCTAT
GGGGTGATCCAGGGCTATAGAACACCAGTGCTCTCTGCTGAGGCCTCCACAGGGGAAACTCCCAATTTGGGAGAG
GTCGTGGTGGCCGAGGTGGGCTGGGATGCCCTCAAACCTCAACTGGACTGCTCCAGAAGGGGCCCTATGAGTACTTT
TTCATTTCAGGTGCAGGAGGCTGACACAGTAGAGGCAGCCCAGAACCTCACCGTCCCAGGAGGACTGAGGTCCACA
GACCTGCCTGGGCTCAAAGCAGCCACTCATTATACCATCACCATCCGCGGGGTCCTCAGGACTTCAGCACAAACC
CCTCTCTCTGTTGAAGTCTTGACAGAGGAGGTTCCAGATATGGGAAACCTCACAGTGACCGAGGTTAGCTGGGAT
GCTCTCAGACTGAACTGGACCACGCCAGATGGAACCTATGACCAGTTTACTATTTCAGGTCCAGGAGGCTGACCAG
GTGGAAGAGGCTCACAACTCACGGTTCCTGGCAGCCTGCGTTCCATGGAAATCCCAGGCCTCAGGGCTGGCACT
CCTTACACAGTCACCCTGCACGGCGAGGTCAGGGGCCACAGCACTCGACCCCTTGCTGTAGAGGTCGTCACAGAG
GATCTCCACAGCTGGGAGATTTAGCCGTGTCTGAGGTTGGCTGGGATGGCCTCAGACTCAACTGGACCGCAGCT
GACAATGCCTATGAGCACTTTGTCACTTCAGGTGCAGGAGGTCAACAAAGTGGAGGCAGCCAGAACCTCACGTTG
CCTGGCAGCCTCAGGGCTGTGGACATCCCGGGCCTCGAGGCTGCCACGCCTTATAGAGTCTCCATCTATGGGGTG
ATCCGGGGCTATAGAACACCAGTACTCTCTGCTGAGGCCTCCACAGCCAAAGAACCTGAAATTGGAAACTTAAAT
GTTTCTGACATAACTCCCGAGAGCTTCAATCTCTCCTGGATGGCTACCGATGGGATCTTCGAGACCTTTACCATT
GAAATTATTGATTCCAATAGGTTGCTGGAGACTGTGGAATATAATATCTCTGGTGCTGAACGAACTGCCCATATC
TCAGGGCTACCCCTAGTACTGATTTTATTGTCTACCTCTCTGGACTTGCTCCCAGCATCCGGACCAAAACCATC
AGTGCCACAGCCACGACAGAGGCCCTGCCCCCTCTGGAAAACCTAACCATTTCCGACATTAATCCCTACGGGTTT
ACAGTTTCTGGATGGCATCGGAGAATGCCTTTGACAGCTTTCTAGTAACGGTGGTGGATTCTGGGAAGCTGCTG
GACCCCCAGGAATTCACACTTTTCAGGAACCCAGAGGAAGCTGGAGCTTAGAGGCCTCATAACTGGCATTGGCTAT
GAGGTTATGGTCTCTGGCTTCACCCAAGGGCATCAAACCAAGCCCTTGAGGGCTGAGATTGTTACAGAAGCCGAA
CCGGAAGTTGACAACCTTCTGGTTTTAGATGCCACCCAGACGGTTTTCCGTCTGTCTCTGGACAGCTGATGAAGGG
GTCTTCGACAATTTTGTCTCAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAAATAACCCTACTTGCC
CCCGAACGTACCAGGGACATAACAGGTCTCAGAGAGGCTACTGAATACGAAATTGAACTCTATGGAATAAGCAAA
GGAAGGCGATCCCAGACAGTCAGTGCTATAGCAACAACAGCCATGGGCTCCCCAAAGGAAGTCATTTTCTCAGAC
ATCACTGAAAATTTCGGCTACTGTCTCAGCTGGAGGGCACCCACAGCCCAAGTGGAGAGCTTCCGGATTACCTATGTG
CCCATTCAGGAGGTACACCTCCATGGTAAGTGTGGACGGAACCAAGACTCAGACCAGGCTGGTGAAACTCATA
CCTGGCGTGGAGTACCTTGTCTCAGCATCATCGCCATGAAGGGCTTTGAGGAAAGTGAACCTGTCTCAGGGTCATT
ACCACAGCTCTGGATGGCCATCTGGCCTGGTGACAGCCAACATCACTGACTCAGAAGCCTTGCCAGGTGGCAG
CCAGCCATTGCCACTGTGGACAGTTATGTCTCTCTACACAGGCGAGAAAGTGGCAGAAATTACACGCACGGTG
TCCGGGAACACAGTGGAGTATGCTCTGACCGACCTCGAGCCTGCCACGGAATACACACTGAGAACTTTGCAGAG
AAAGGGCCCCAGAAGAGCTCAACCATCACTGCCAAGTTCACAACAGACCTCGATTCTCCAAGAGACTTGACTGCT
ACTGAGGTTTCAGTCGGAAACTGCCCTCCTTACCTGGCGACCCCCCGGGCATCAGTCACCGGTTACCTGCTGGTC
TATGAATCAGTGGATGGCACAGTCAAGGAAGTCATTGTGGGTCCAGATACCACCTCCTACAGCCTGGCAGACCTG
AGCCCATCCACCCACTACACAGCCAAGATCCAGGCACTCAATGGGCCCCCTGAGGAGCAATATGATCCAGACCATC
TTCACCACAATTGGACTCCTGTACCCCTTCCCCAAGGACTGCTCCCAAGCAATGCTGAATGGAGACACGACCTCT
GGCCTCTACACCATTTATCTGAATGGTGATAAGGCTGAGGCGTGGAAGTCTTCTGTGACATGACCTCTGATGGG
GGTGGATGGATTGTGTTCTGAGACGCAAAAACGGACGCGAGAAGTCTTACCAAAACTGGAAGGCATATGCTGCT
GGATTTGGGGACCGCAGAGAAGAATTCTGGCTTGGGCTGGACAACCTGAACAAAATCACAGCCCAGGGGCAGTAC
GAGCTCCGGGTGGACCTGCGGGACCATGGGGAGACAGCCTTTGCTGTCTATGACAAGTTTCAGCGTGGGAGATGCC
AAGACTCGCTACAAGCTGAAGGTGGAGGGGTACAGTGGGACAGCAGGTGACTCCATGGCCTACCACAATGGCAGA
TCCTTCTCCACCTTTGACAAGGACACAGATTTCAGCCATCACCAACTGTGCTCTGTCTTACAAAGGGGCTTTCTGG
TACAGGAACTGTCACCGTGTCAACCTGATGGGGAGATATGGGGACAATAACCACAGTCAGGGCGTTAACTGGTTT
CACTGGAAGGGCCACGAACACTCAATCCAGTTTGTCTGAGATGAAGCTGAGACCAAGCAACTTCAGAAATCTTGAA
GGCAGGCGCAAACGGGCATAAATTCCAGGGACCACTGGGTGAGAGAGGAATAAGGCCAGAGCGAGGAAAGGATT
TTACCAAGCATCAATACAACCAGCCCAACCATCGGTCCACACCTGGGCATTTGGTGAGAGTCAAAGCTGACCAT
GGATCCCTGGGGCCAACGGCAACAGCATGGGCCTCACCTCCTCTGTGATTTCTTTCTTTGCACCAAAAGACATCAG
TCTCCAACATGTTTTCTGTTTTGTTGTTTGATTTCAGCAAAAATCTCCAGTGACAACATCGCAATAGTTTTTACT

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FIGURE 2755C

TCTCTTAGGTGGCTCTGGGAATGGGAGAGGGGTAGGATGTACAGGGGTAGTTTGTTTTAGAACCCAGCCGTATTTT
ACATGAAGCTGTATAATTAATTGTCATTATTTTTGTTAGCAAAGATTAAATGTGTCATTGGAAGCCATCCCTTTT
TTTACATTTTATACAAACAGAAACCAGAAAAGCAATACTGTTTCCATTTTAAGGATATGATTAAATATTATTAATAT
AATAATGATGATGATGATGATGATGAAACTAAGGATTTTTCAAGAGATCTTTCTTTCCAAAACATTTCTGGACAGTA
CCTGATTGTATTTTTTTTTTTAAATAAAAGCACAAGTACTTTTG

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FIGURE 2756

TTCAGATGTATGTTTATGTTTCTGACCTTGCGCTACCCAGTGCAGGCTCCAAACAGGCATGCGAGGTGCCTTTG
GAAAGCCCCAGGGCACTGTGACCAGGGTTCACATTGGCCAAGTTATCATGTCCATCCACACCAAGCTGCAGAACA
AGGAGCATGTAATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCACCAGAAGATCCGCATCTCAAAGA
AGTGGGGCTTCACCAAGTTCAATGTTGATGAATTTGAAGACATGGTGGCTGAGAAGCAGCTCATCCCTGATGGCT
GTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCACTGT
GCTGCCCCCTCTTAATACTCACCAATAAATTCTACTTCCTGTCC

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FIGURE 2757

TCCCTTCAGCCGCCATCATGATTATCTACCAGGACCTCATCAGTCACAATGAGATGTTCTCCGACATCTAGAAGA
TCTGGGAGATTGTGGACGGGCTGTGCTGGGAGGTGGTGGGGAAAAATGGTCAGTAGGACAGAAGGTAACATTGATG
ACTCGCTCATTGGTGGAAATGTCTCCGCTGAAGGCCCCGAGGGTGAAGGTACCGAAAGCACAGTAATCACTGCTG
TCGATGTTGTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCCACAAGAAGTACATCAAAGATT
ACATGAAATCAATCAAAGGCAAACTTGAAGAACTGAGACCAGAAAGAGTAAAACCTTTTATGACAGGGGCTGCAG
AACAAATCAAGCACATCCTTGCTAATTTCAAAAACCTACCATTCTTTATTGGTGAAAACATGAATCCAGATGGCA
TGGTTGCTCTACTGGACTACGGTGAGGATGGTGTGACCCCATATATGATTTTCTTTAGGGATGGTTTAGAAACGG
AAAAATGTTAACAAATTTGGCAATTAGTTTGGATCTATTACCTGTCATCATAACTCGCTTCTAATTGTCATCCAC
ACAACACCAGGACCTAAGACAAATGGGACTAATATCATCTTGAGCTCTTCATTTATTTTTACCATAATTTATTCG
GAGTGGAGGCATTGTTTTTAAGAAAAACATGTCATGTAGGTTGTCTAAAAATAAAATGCATTTTAACTCATTGA
GAGAATACCTTTTCGTTTAAATGCATATTTAACTAAATTCATCCTGTTGTGTTCTGGAGAAGCTACAGCCTGGT
CATAAGCTACTACTAGAAAGAGTAAGACTCATCAATTAACCTTCTACAGTGGAAGCTACTTCTGGGACTGGAATAT
ACAAAAAAAATCAAAGGTTTTGATTGTGTGTTGCAATAAAGGGAAAGACCATGTTTCATAGCAGTGCCAACATCTG
AAGTGGAGCTTTACGCATTTTCATCACCTACAATGGAATTAGTTAACTGGAAGAGATTACCAAGAGAATAAAAAGA
GACGAATTCAGCTGGAAAAAAAAA

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FIGURE 2758

MVSRTEGNIDDSLIGGNVSAEGPEGEGTESTVITAVDVVMNHHLQETSFTKEAHKKYIKDYMKSIKGGLEELRPE
RVKPFMTGAAEQIKHILANFKNYHFFIGENMNPDMVALLDYGEDGVTPYMIFFRDGLETEKC

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FIGURE 2759A

AGGTTGAAGAACTTAACTCTGAAATTGAAAAGCTCAGTGCTGCCTTTTGCTAAAGCCAGAGAGGCCCTACAGAAAG
CACAGACCCAGGAATTTTCAGGGGTCTGAAGACTATGAGACTGCTCTATCAGGAAAGGAAGCCCTTTTCGGCTGCGC
TGCGCTCACAAAACCTCACCAAGAGTACAGAGAACCACAGACTGCGTAGAAGCATTAAAGAAGATCACCCAGGAGC
TGAGTGACTTGCAGCAGGAGAGGGAGAGACTGGAGAAGGACCTGGAGGAAGCCCATCGAGAGAAGAGCAAAGGAG
ACTGCACCATCCGTGATCTTAGAAATGAAGTTGAAAAATTACGCAATGAAGTGAATGAAAGAGAGAAAAGCAATGG
AAAATCGTTACAAGAGTCTTCTGAGTGAAAGCAATAAAAAATTGCACAATCAAGAGCAAGTGATCAAACATCTAA
CAGAAAGTACCAATCAGAAGGACGTGTTGCTTCAGAAATTCATGAAAAGATTTGGAAGTAATACAGCAGAACT
GCTATTTAATGGCTGCAGAGGATCTTGAGCTCAGGAGTGAAGGCTTAATAACAGAAAAGTGCTCTTCTCAACAGC
CACCAGGCAGCAAAACCATCTTCTCTAAGGAAAAGAAACAATCATCAGACTATGAAGAGCTGATTCAGGTCTTAA
AGAAAGAGCAGGACATCTATACCCATCTGGTCAAATCTCTGCAGGAATCAGACAGTATCAACAACCTGCAGGCTG
AGTTAAACAAGATTTTTGCCCCTGCGGAAGCAACTGGAGCAGGATGTGCTTTCATATCAGAATTTGCGGAAGACCT
TGGAGGAGCAGATCAGCGAAATTCGGAGGCGGGAAGAAGAATCATTTTCACTTTATAGTGATCAAACATCTTATC
TAAGTATTTGCCTTGAAGAAAACAATCGGTTTCAAGTGAACATTTTTCTCAAGAAGAACTTAAGAAAAAGGTCA
GTGACCTTATACAGCTAGTGAAGGAGCTGTATACAGACAACCAGCACCTGAAGAAAACCATTTTTGATCTCTCCT
GCATGGGTTTTCCAGGGAAATGGGTTTCCAGATAGACTTGCGTCTACAGAACAAACAGAGCTTCTGGCTAGCAAGG
AGGACGAGGACACGATCAAAATTGGGGAGGATGACGAGATTAATTTCTGAGTGACCAGCATTTGCAGCAGAGTA
ATGAGATTATGAAAGACCTTTCCAAAGGAGGCTGCAAAATGGATACTTAAGGCACACGGAGTCTAAGATTTTCAG
ATTGTGATGGGGCCCACGCACCTGGCTGCCTAGAAGAAGGTGCATTTCATAAACCTGCTTGCCCCCTTGTTCATG
AGAAGGCCACATTATTACTGGAATCCAGGCCAGACCTTCTGAAAGTGGTACGGGAACCTGCTTCTGGGACAACAT
TCTTGACAGAGCAGGAAGTTTCTGGAGAACACCTTGATGGTAAAACCTGAGAAGACACCTAAGCAAAAAGGTGAAC
TTGTACATTTTGTCCAAACCAACTCATTTTCCAAAGCCACATGATGAACTGAAGTTGTCTTGTGAGGCCAGCTAG
TAAAGGCAGGCGAAGTGCCCAAGGTAGGACTGAAAGATGCCTCAGTGACAGCTGTGGCCACGGAGGGCGACCTGC
TGAGATTCAAGCATGAAGCAACAAGAGAGGCTTGGGAAGAGAAACCGATCAACACTGCACTCAGCGCAGAGCATC
GGCCAGAGAACCTGCACGGGGTGCTGGGTGGCAGGCTGCCCTCCTTTCCCTCCCTGGTATTACCAACAGAGAGG
CTAAGAAGTCCCGCTTGCCAATCCTAATAAAACCATCCCGGTCAATTAGGAAATATGTATCGTCTCCCTGCCACCC
AGGAGGTGGTGACGCAGCTGCAGAGCCAGATCTTGAGCTGCAGGGGGAGCTGAAGGAGTTTAAAACCTTGTAATA
AGCAACTTCACCAAAAGTTAATTCTGGCTGAAGCAGTGATGGAGGGGAGGCCAACGCCCGACAAAACGTTGCTGA
ATGCTCAGCCCCCTGTGGGAGCAGCCTACCAGGACAGCCCAGGAGAGCAGAAAGGAATTAAAACCATCTTCTG
TCTGGAGAGACAAGGAAATGGACAGTGATCAGCAAAGAAGCTACGAGATTGACTCTGAGATTTGCCACCTGATG
ACCTTGCCAGCTTGCCATCATGCAAAGAAAATCCTGAAGATGTTCTGAGCCCCAAGTTAGTAGCTACTTACCTGA
GTTCCAAGAGTCAGCCTTCTGCTAAAGTCAGTGTGATGGGGACTGATCAGTCAGAGAGCATTAATACCTCAAATG
AGACAGAATACTTAAAACAGAAAATCCATGACTTGGAACTGAGCTGGAAGGCTACCAGAATTTTCATATTTTCAGC
TTCAAAGCACTCCCAGTGAGTGAGGCCATAATTACAGTTTTGTGTGGGACAGAAGGGGGCCAGGATGGCTTGA
GCAAGCCCAAGAATGGTTCTGATGGGGAAGAAATGACCTTTTCAAGTTTGACCAAGTGCGATACGTGAAACACG
TGAAAATCCTCGGTCCGCTGGCCCCAGAGATGATTGACAGCAGGGTGCTGGAGAACCTCAAACAGCAGCTGGAGG
AACAGGAATACAAGCTGCAGAAGGAGCAGAATTTGAACATGCAACTTTTTCAGTGAGATCCATAATCTGCAGAATA
AGTTCAGAGATCTCTACCTCCCAGATACGATTCAATTAGTTTCAGTCCCAAGCCAGGGAGCTCTCCCTTCAACGGC
AGCAGATTAAGGATGGCCATGGCATCTGTGTATCTCCCGTCAACACATGAACACCATGATTAAGGCATTTGAGG
AGTTGCTGCAGGCCAGTGATGTGGATTACTGTGTGGCCGAGGGTTTTCCAGGAACAGCTGAATCAATGTGCTGAGC
TGCTGGAGAAATTGGAAGAGCTATTTCTCAACGGAAAATCAGTTGGAGTGGAATGAACACCCAGAATGAAGTGA
TGGAGAGGATTGAGGAAGACAACCTTAACCTACCAACATCTTCTGCCTGAATCTCCTGAGCCTTCAGCCTCTCATG
CGCTCTCTGATTATGAAACATCTGAAAAGTCCTTCTTCTCACGAGACCAGAAGCAAGATAATGAGACAGAGAAGA
CTTCAGTTATGGTGAACAGTTTTTCTCAAGACTTACTAATGGAACACATACAGGAAAATTCGAACCTTTGAGAAAGC
GTTTAGAAGAATCTATTAAAACAAATGAGAAGCTACGGAAACAGTTGGAACGGCAAGGATCTGAATTTGTTCAAG
GTTCTACAAGCATTTTTTGCTTCTGGTTTCAGAGCTTCATAGTTCTCTAACATCAGAAATTCATTTCTTGAGGAAGC
AGAACCAGGCCCTCAATGCAATGCTCATTAAAGGATCCAGAGATAAACAGAAGGAGAATGACAAATTACGAGAGT
CCCTCTCCAGGAAGACCGTGAGCCTGGAGCACCTTCAGCGGGAGTATGCCAGCGTGAAGGAAGAAAATGAAAGGC
TGCAGAAAGAAGGCAGCGAGAAGGAGAGACACAACCAGCAGCTGATCCAGGAGGTCCGCTGCAGCGGCCAGGAGC

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FIGURE 2759B

TGAGCAGGGTGCAGGAGGAGGTGAAGTTGAGGCAGCAGCTGCTCTCACAGAATGACAAGCTATTGCAGTCTCTCC
GAGTGGAGCTGAAGGCGTATGAGAAGCTGGATGAAGAGCACAGGAGACTGAGAGAGGCGTCGGGAGAAGGCTGGA
AGGGGCAGGATCCTTTTCAGGGACCTGCACAGCCTCCTGATGGAGATCCAGGCTCTGCGCTTGCAACTAGAAAGGA
GCATCGAAACCAGCAGCACTCTGCAGAGCAGGCTCAAGGAACAGCTGGCAAGGGGGGCAGAGAAGGCACAGGAAG
GAGCCCTCACTCTGGCTGTCCAAGCCGTGTCCATCCCTGAGGTGCCCCTTCAGCCTGACAAACACGATGGTGACA
AATATCCCATGGAAAGTGATAATTCATTTGATCTGTTTGATTCTCCAGGCAGTGACACCAAATCAGTTTCAG
AGACTCCTCCACTCTCTGGGAATGACACGGACTCCCTCTCCTGCGACAGTGGCAGTTCGGCAACTAGCACTCCGT
GTGTGTCCCGCCTGGTCACTGGCCACCACCTGTGGGCCAGCAAGAATGGCCGCCATGTCTGGGCCTGATTGAGG
ACTATGAGGCCCTGCTCAAACAGATCAGCCAGGGACAGAGGCTCCTTGCTGAAATGGACATTCAAACCCAAGAGG
CTCCCAGCTCCACAAGTCAAGAGCTGGGAACAAAGGGTCCACACCCAGCACCCTGAGCAAGTTTGTGAGCAGTG
TGAGCACGGCCAAGCTGACCCTGGAAGAGGCCTACAGGCGGCTGAAGCTTCTCTGGAGAGTCTCACTCCCCGAGG
ATGGCCAGTGCCCCCTTCACTGTGAGCAGATTGGAGAAATGAAGGCAGAGGTCACCAAACCTACATAAAAAATTTGT
TTGAACAAGAAAAGAAGTTGCAAAACACCATGAAGCTTTTGCAGCTGAGCAAGCGCCAGGAAAAAGTCATCTTTG
ATCAATTGGTCGTAACCCACAAAATCCTTCGGAAGGCCAGAGGAAACCTGGAGCTTAGGCCTGGGGGAGCCCATC
CAGGAACATGCAGTCCCAGCAGACCAGGCTCCTGAGAAGAACTTTAGCCAATAAAGCTTGTGCTTCCCCCACC
AGCTCACGCTGTCTCTTTGTTCCAAGTGTGGTTCTATTTATTGAGGAAGAAAGAGCTGTCTGGCCAAAGGAAAT
CTATTTTTTCCCTTCATGTTTTCTCTCTGAAAGTTGGCTTGAGAGTTGTTGTCAGAAAGGTGCAGGTGCTCCACA
AACGGGTGGTAAAAAGGCCTCGAGCTCTTGATGTTGTATTTAGATCAGGGGCAGGCACCGGAGTTGAGGCTGT
GCGCCTTGGTGGGCTTCACGTCTTCCCCTGGATTGCTTAGTACTCAGCCAGTGCCACAGTTTGAAGATTCTCAT
TAAATGATTCAATTCATTTACCTTG

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FIGURE 2760

GGTGTGTGCGGAACATGGCGGAGCGCGGCAGGAAGCGGCCGTGCGGCCCGGGTGAACACGGCCAAAGGATTGAGT
GGCGAAAATGGAAGCAACAGAAGAAAGAGGAGAAAAAAATGGAAGGATCTCAAGCTGATGAAAAAACTGGAGC
GGCAGCGGGGCACAGGAGGAACAGGCAAAGCGCCTGGAAGAGGAGGAGGCAGCGGCAGAGAAGGAGGACCGCGGGC
GGCCCTACACACTGAGCGTAGCCCTGCCGGGCTCCATCCTGGACAATGCTCAGTCGCCGGAGCTTCGCACCTACT
TGGCCGGTCAGATTGCCAGAGCCTGTGCCATCTTCTGTGTGGATGAGATCGTGGTGTGTTGATGAGGAGGGCCAGG
ATGCCAAGACTGTGGAGGGGGAATTCACAGGAGTTGGGAAGAAGGGGCAGGCGTGCGTACAGCTGGCCCGGATCC
TGCAGTACCTGGAGTGTCCACAGTACCTGAGGAAGGCGTTCTTCCCCAAGCACCAGGATCTACAGTTTGCAGGGC
TCCTGAACCCCTGGACAGCCCCACCACATGCGTCAGGATGAGGAATCCGAGTTCCGAGAGGGCATCGTGGTGG
ATCGGCCCACCCGGCCAGGCCACGGCTCCTTTGTCAACTGTGGCATGAAAAAGGAGGTGAAGATTGACAAGAACC
TGGAGCCCGGGCTTCGGGTGACTGTGCGACTGAACCAGCAGCAGCACCAGACTGCAAGACCTACCATGGCAAAG
TGGTATCATCGCAGGACCCTCGCACCAAGCTGGTCTCTACTGGGGCTACACCGTCCGACTGGCTTCCTGCCTCA
GTGCTGTGTTTGCTGAGGCCCCCTTCCAAGATGGGTATGACCTGACCATCGGGACGTCAGAGCGCGGCTCAGATG
TGGCCTCTGCCCAGCTTCCCAACTTCAGGCATGCTCTTGTGGTGTTCGGGGGCCTCCAGGGTCTGGAAGCTGGAG
CGGATGCTGACCCCAACCTGGAGGTGGCTGAACCCAGTGTCTCTTTGACCTGTACGTCAATACCTGTCTTGCC
AGGGTAGCCGTACCATCCGCACGGAGGAAGCCATCCTCATCTCCCTGGCCGCCCTGCAGCCTGGCCTCATCCAGG
CGGGTGCCCGGCACACCTGAAAGTTCTAAGGGGCCGAGGACATCAGTGAAGCAGCAGTGAACCAGGGGCTCTGC
AGGTCACTTGGGACGGACGCCACCAGACTTGTCTCC

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FIGURE 2761

GGCACGAGGCTGGGTTCCGAGGCCCAAGCCCTTGGCAGTGTTTGTGAGTGGAAGGGAGGTCACGCTATCGTCCGC
GGCCCCAGCAGCCCTGTGCCCTCGTTGGATCCCGCGACGCGGCTCCTTTAAGAGCCTCGCGGGTCGCCCCGCCGCT
AGGTCGCTCCCCGGCCATGCGGGCGCTGCGGGCCGGCCTGACCCTGGCGTCGGGCGCGGGGCTGGGTGCGGTCGT
CGAGGGCTGGCGGCGGCGGGGAGGACGCGCGGGCGGCGCTGGGACTGCTGGGCCGGCTGCCCCGTGCTGCCCGT
GGCGGCGGCAGCCGAGTTGCCCCCTGTGCCCGGGGGACCCCGCGGCCCGGGCGAGTTGGCCAAGTACGGGCTGCC
GGGGCTGGCGCAGCTCAAGAGCCGCGAGTCGTACGTGCTGTGCTACGACCCGCGCACCCGCGGCGCGCTCTGGGT
GGTGGAGCAGCTGCGACCCGAGCGTCTCCGCGGCGACGGCGACCGGCGCGAGTGCAGCTTCCGCGAGGACGACTC
GGTGACGCGTACCACCGTGCCACCAACGCCGACTACCGCGGCAGTGGCTTCGACCGCGGTACCTGGCCGCCGC
CGCCAACCACCGCTGGAGCCAGAAGGCCATGGACGACACGTTCTACCTGAGCAAAGTCGCGCCCCAGGTGCCCCA
CCTCAACCAGAATGCCTGGAACAACCTGGAGAAATATAGCCGCGAGCTTGACCCGCGAGCTACCAAAACGTCTATGT
CTGCACAGGGCCACTCTTCCTGCCCAGGACAGAGGCTGATGGGAAATCCTACGTAAAGTACCAGGTCATCGGCAA
GAACCACGTGGCAGTGCCACACACTTCTTCAAGGTGCTGATCCTGGAGGCAGCAGGTGGGCAAATTGAGCTCCG
CACCTACGTGATGCCCAACGCACCTGTGGATGAGGCCATCCCACTGGAGCGCTTCCTGGTGCCCATCGAGAGCAT
TGAGCGGGCTTCGGGGCTGCTCTTTGTGCCAAACATCCTGGCGCGGGCAGGCAGCCTCAAGGCCATCACGGCGGG
CAGTAAGTGAGGGTGGAGCCCAGTGAGACTGTGGGTGTGTGCAGGCCGGGAGTATTAAAGGTGGTGATTTTGG
AAAAAAAA

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FIGURE 2762

MRALRAGLTLASGAGLGAVVEGWRRRRREDARAAAGLLGRLPVLPVAAAAELPPVPGGPRGPGELAKYGLPGLAQL
KSRESYVLCYDPRTRGALWVVEQLRPERLRGDGDRRECDFREDDSVHAYHRATNADYRGSGFDRGHLAAAAANHRW
SQKAMDDTFYLSKVAPQVPHLNQNAWNNLEKYSRSLTRSYQNVYVCTGPLFLPRTEADGKSIVKYQVIGKNHVAV
PTHFFKVLILEAAGGQIELRTYVMPNAPVDEAIPLERFLVPIESIERASGLLFVPNILARAGSLKAITAGSK

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FIGURE 2763

GGCACGAGGCCGGGCCGAGGCGATGGCGCCCTGGGCGCTCCTCAGCCCTGGGGTCCTGGTGCGGACCGGGCACAC
CGTGCTGACCTGGGGAATCACGCTGGTGCTCTTCCTGCACGATACCGAGCTGCGGCAATGGGAGGAGCAGGGGGA
GCTGCTCCTGCCCCTCACCTTCCTGCTCCTGGTGCTGGGCTCCCTGCTGCTCTACCTCGCTGTGTCACTCATGGA
CCCTGGCTACGTGAATGTGCAGCCCCAGCCTCAGGAGGAGCTCAAAGAGGAGCAGACAGCCATGGTTCCCTCCAGC
CATCCCTCTTCGGCGCTGCAGATACTGCCTGGTGCTGCAGCCCCCTGAGGGCTCGGGCACTGCCGTGAGTGCCGCCG
TTGCGTCCGCCGCTACGACCACCACTGCCCCCTGGATGGAGAACTGTGTGGGAGAGCGCAACCACCCACTCTTTGT
GGTCTACCTGGCGCTGCAGCTGGTGGTGCTTCTGTGGGGCCTGTACCTGGCATGGTCAGGCCTCCGGTTCTTCCA
GCCCTGGGGTCTGTGGTTGCGGTCCAGCGGGCTCCTGTTGCCACCTTCCTGCTGCTGTCCCTCTTCTCGTTGGT
GGCCAGCCTGCTCCTCGTCTCGCACCTCTACCTGGTGGCCAGCAACACCACCACCTGGGAATTCATCTCCTCACA
CCGCATCGCCTATCTCCGCCAGCGCCCCAGCAACCCCTTCGACCGAGGCCTGACCCGCAACCTGGCCCCACTTCTT
CTGTGGATGGCCCTCAGGGTCCTGGGAGACCCTCTGGGCTGAGGAGGAGGAAGAGGGCAGCAGCCCAGCTGTTTA
GGGTTGCTGGAGGCCGGGCTACCGTCTTGTGCCTGAAAACCACGGGGCCTGTCCCCAGCTGGGGTGAGCGCTCAG
AGGGCCTGGGGCCCTCACTCCTGCCCACGCCTCCCAGACCCAGAACGGAGCTTCAAGTCAGACAGATCCCTGCC
TTGGTGGGCAGTTCTGCCTTCCAAGGAAGAAGGGGAAGAAAAGGACCTGTGGGTGGCTCAGGCCCAAGCAGACCC
CGGGCTCCACCCCAGCCCCGCCAGGCTGCTGCCAGTGCACACTTTTACAAATTTAATATAAAGCAAGTCCAGTC
TTAAAAAGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2764

MAPWALLSPGVLVRTGHTVLTWGITLVLFHDTLRLQWEEQGELLPLTFLLLVLGSLLLYLAVSLMDPGYVNVQ
PQPQEELKEEQTAMVPPAIPLRRCRYCLVLQPLRARHCRECRRCVRRYDHHCPWMENCVGERNHPLFVVYLALQL
VVLLWGLYLAWSGLRFFQPWGLWLRSSGLLFATFLLLSLFSLVASLLLVSHLYLVASNTTTFEFISSHRIAYLRQ
RPSNPFDRGLTRNLAHFFCGWPSGSWETLWAEIEEEEGSSPAV

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FIGURE 2765

CATGTCGGCGCCGGCGGCCAAAGTCAGTAAAAAGGAGCTCAACTCCAACCACGACGGGGCCGACGAGACCTCAGA
AAAAAGAACAGCAAGAAGCGATTGAACACATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCCAG
TGAGGAGATTTTGAAGTAGAACAGAAATATAACAAACTCCGCCAACCATTTTTTTCAGAAGAGGTCAGAAATTGAT
CGCCAAAATCCCAAATTTTTTGGGTAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAAGA
TGAAGAGGCACTGCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAAATCAGGTTACAGAATAGA
TTTTTATTTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTTTCATCTGAATGAGAGTGGTGA
TCCATCTTCGAAGTCCACCGAAATCAAATGGAAATCTGGAAAGGATTTGACGAAACGTTTCGAGTCAAACGCAGAA
TAAAGCCAGCAGGAAGAGGCAGCATGAGGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCAGG
TGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACTTGGTTCCCGATAT
GGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGATGAAGAGGAGGAAGGATTAGAAGATATTGACGA
AGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGATGAAGGGGAGGAAGGAGAGGAGGATGAAGGAGA
AGATGACTAAATAGAACACTGATGGATTCCAACCTTCCTTTTTTTTAAATTTTCTCCAGTCCCTGGGAGCAAGTTG
CAGTCTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTCTTGTGCTCAGTCGCCCTGTTCTTGAGGTCTCTTTTCTCTAC
TCCATGGTTCTCAATTTATTTGGGGGGAAATACCTTGAGCAGAATACAATGGGAAAAGAGTCTCTACCCCTTTCT
GTTTCGAAGTTCATTTTTATCCCTTCCTGTCTGAACAAAACTGTATGGAATCAACACCACCGAGCTCTGTGGGAA
AAAAGAAAAACCTGCTCCCTTCGCTCTGCTGGAAGCTGGAGGGTGTAGGCCCTGTGTAGTAGTGCATAGAATT
CTAGCTTTTTTCTCCTTTCTCTGTATATTGGGCTCAGAGAGTACACTGTGTCTCTATGTGAATATGGACAGTTA
GCATTTACCAACATGTATCTGTCTACTTTCTCTGTTTTAAAAAAGAAAAAAAACCTAAAAAATGGGGTTATA
GAAGGTCAGCAAAGGGTGGGTTTGAGATGTTGGGTGGGTTAAGTGGGCATTTTGACAACATGGCTTCTCCTTTG
GCATGTTTAAATTGTGATATTTGACAGACATCCTTGCAGTTTAAAGATGACACTTTTAAAAATAAATTCTCTCCTAAT
GATGACTTGAGCCCTGCCACTCAATGGGAGAATCAGCAGAACCTGTAGGATCTTATTTGGAATTGACATTCTCTA
TTGTAATTTTGTTCCTGTTTATTTTTTAAATTTTCTTTTTGTTTCACTGGAAAGGAAAGATGATGCTCAGTTTTAA
ACGTTAAAAGTGTACAAGTTGCTTTGTTACAATAAACTAAATGTGTACACAAAGGATTTGATGCTTTTCTCTCA
GCATAGGTATGCTTACTATGACCTTCCAAGTTTGACTTGTATAACATCACTGTCAAACCTTTGTCACCCTAAGTTT
GTATTTTTTGTATACGCACTTTGAGGATGACCTCAGGGCTATGTGGATTGAGTAATGGGATTTGAATCAATGTAT
TAATATCTCCATAGCTGGGAAACGTGGGTTCAATTTGCCATTGGTTTCTGAAAGTATTCACATCATTTGGGATAC
CAGATAGCTCAATACTCTCTGAGTACATTGTGCCCTTGATTTTTATCTCCAAGTGGCAGTTTTTAAAATTGGCCT
TTTACCTGGATATAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTTATACAC
GGGACAGTTGCTGGCATGTCTTCATTGGCTATATAAAATGTGGCCAAGAAGATAGGCTCTCAGTAAGAAGTCTGA
TGGTGAGCAGTAACCTGTCCCTGCTTTCTGGTATAAAGCTCTCAAATGTGACCATGTGAATCTGGGTGGGATAATG
GACTCAGCTCTGTCTGCTCAATGCCATTGTGCAGAGAAGCACCTAATGCATAAGCTTTTTAATGCTGTAAAATA
TAGTCGCTGAAATTAAATGCCACTTTTTTTCAGAGGTGAATTAATGGACAGTCTGGTGAACCTTCAAAGCTTTTTGA
TGTATAAACTTGATAAATGGAACCTATCCATCAATAGGCAAAAGTGTAACAACCTATCTAGATGGATAGTATGT
AATTTCTGCACAGGTCTCTGTTTAGTAAATACATCACTGTATACCGATCAGGAATCTTGCTCCAATAAAGGAACA
TAAAGATTT

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FIGURE 2766

GGCGGCGTAGGGGCGGAGGTCGCGCCTGAGTGCGTCCGCACGAGAGGGCGGAACCGTCTCCATGGCAACCCGCGC
GCAGCCGGGGCCACTCAGCCAGGCGGGAAGCGCTGGTGTTCGGGCGCTGGCGACAGTCGGGGTTGCGAGCGGCCC
GGGGCCGGGGCGGCCAGGGCCGCTGCAGGACGAGACCCTGGGTGTGGCGTCCGTGCCCTCGCAGTGAGGGCCGT
CCAGGGCATCCGCTGGGAGACGAAAAGTTGCCAGACGGCCAGCATTGCCACTGCCAGTGCATCCGCCCAGGCCAG
GAATCATGTGGACGCCAGGTGCAGACGGAGGCCCCCGTGCCTGTCAGCGTGCAGCCCCCGTCCCAGTATGACAT
ACCCAGGCTCGCAGCCTTTCTTCGGAGAGTGAGGGCCATGGTCATCCGAGAGCTGAACAAGAATTGGCAGAGCCA
CGCGTTTGATGGCTTCGAGGTGAACTGGACCGAGCAGCAGCAGATGGTGTCTTGTCTGTATACCCTGGGCTACCC
GCCAGCCCAAGCGCAGGGTCTGCATGTGACCAGCATCTCCTGGAACCTCCACTGGCTCTGTGGTGGCCTGTGCCTA
CGGCCGGCTGGACCATGGGACTGGAGCACGCTTAAGTCCTTCGTGTGTGCCTGGAACCTGGACCGGCGAGACCT
GCGTCCCCAGCAGCCGTTCGGCCGTGGTGGAGGTCCCCAGCGCTGTCCTGTGTCTGGCCTTCCACCCACGCAGCC
CTCCACGTTCGAGGAGGGCTGTACAGTGGTGAGGTGTTGGTGTGGGACCTGAGCCGTCTTGAGGACCCGCTGCT
GTGGCGCACAGGCCTGACGGATGACACCCACACAGACCCTGTGTCCAGGTGGTGTGGCTGCCCCAGCCTGGGCA
CAGCCACCGCTTCCAGGTGCTGAGTGTGGCCACCGACGGGAAGGTGCTACTCTGGCAGGGCATCGGGGTAGGCCA
GCTGCAGCTCACAGAGGGCTTCGCCCTGGTCATGCAGCAGCTGCCACGGAGCACCAAGCTCAAGAAGCATCCCCG
CGGGGAGACCGAGGTGGGCGCCACGGCAGTGGCCTTCTCCAGCTTTGACCCTAGGCTGTTCAATTCTGGGCACGGA
AGGCGGCTTCCCGCTCAAGTGTTCCTGGCAGCTGGAGAGGCAGCCCTCACGCGGATGCCAGCTCCGTGCCCT
GCGGGCCCCAGCACAGTTTACCTTCTCCCCCACGGCGGTCCCATCTACTCTGTGAGCTGTTCCCCCTTCCACAG
GAATCTCTTCTGAGCGCTGGGACTGACGGGCATGTCCACCTGTACTCCATGCTGCAGGCCCTCCCTTGACTTC
GCTGCAGCTCTCCCTCAAGTATCTGTTTGCTGTGCGCTGGTCCCCAGTGCGGCCCTTGGTTTTTGCAGCTGCCTC
TGGGAAAGGTGACGTGCAGCTGTTTGATCTCCAGAAAAGCTCCCAGAAACCCACAGTTTTTGATCAAGCAAACCCA
GGATGAAAGCCCTGTCTACTGTCTGGAGTTCAACAGCCAGCAGACTCAGCTCTTGGCTGCGGGCGATGCCAGGG
CACAGTGAAGGTGTGGCAGCTGAGCACAGAGTTCACGGAACAAGGGCCCCGGGAAGCTGAGGACCTGGACTGCCT
GGCAGCAGAGGTGGCGGCCTGAGGGGTCCCGGGAGGCGGGTGCAAGCCTTCGCTGTGCCGAGCCTTGTGTTTCTG
ACGCAAGCCAAATGAAGAAAAGCAAAGCTT

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FIGURE 2767

ATGCTGCAGGAGTGGCTGGCGGCTGTGGGCGATGACTATGCTGCTGTGGTCTGGAGGCCTGAGGGCGAGCCCAGG
TTCTACCCAGATGAAGAGGGTCCCAAGCACTGGACCAAAGAAAGGCACCAGTTTCTGATGGAGCTGAAGCAGGAA
GCCCTCACCTTTGCCAGGAACCTGGGGGGCCGACTATATCCTGTTTGCAGACACAGACAACATTCTGACCAACAAT
CAGACTCTGCGGCTTCTCATGGGGCAGGGGCTTCCAGTGGTGGCCCCAATGCTGGACTCCCAGACCTACTACTCC
AACTTCTGGTGTGGGATCACCCCCCAGGGCTACTACCGCCGCACAGCCGAGTACTTCCCCACCAAGAACC GCCAG
CGCCGGGGCTGCTTCCGTGTCCCATGGTCCACTCCACCTTCCTTGCATCCCTGCGGGCTGAAGGGGCAGACCAG
CTTGCTTTCTACCCGCCACATCCCAACTACACTTGGCCTTTTCGACGACATCATCGTCTTCGCCTATGCCTGCCAG
GCTGCTGGGGTCTCCGTCCACGTGTGCAATGAGCACCGTTATGGGTACATGAATGTGCCGGTGAAATCCCACCAG
GGGCTGGAAGACGAGAGGGTCAACTTCATCCACCTGATCTTGGAAGCACTAGTGGACGGCCCCCGCATGCAGGCC
TCAGCTCATGTGACTCGGCCCTCTAAGAGGCCCAGCAAGATAGGGTTTGACGAGGTCTTTGTCATCAGCCTGGCT
CGCAGGCCTGACCGTCGGGAACGCATGCTCGCCTCGCTCTGGGAGATGGAGATCTCTGGGAGGGTGGTGGACGCT
GTGGATGCTGGATGGCTCAACAGCAGTGCCATCAGGAACCTCGGCGTAGACCTGCTCCCGGGCTACCAGGACCTT
TACTCGGGCCGCACTCTGACCAAGGGCGAGGTGGGCTGCTTCCTCAGCCATTACTCCATCTGGGAAGAGGTGGTT
GCCAGGGGCCTGGCCCGGGTCTTGGTGTGTTGAGGATGACGTGCGCTTTGAGAGCAACTTCAGGGGGCGGCTGGAG
CGGCTGATGGAGGATGTGGAGGCAGAGAACTGTCTTGGGACCTGATCTACCTTGGACGGAACAGGTGAACCTT
GAGAAGGAGACGGCCGTGGAGGGGCTGCCGGGCCTGGTGGTGGCTGGGTACTCCTACTGGACGCTGGCCTATGCC
CTGCGTCTGGCGGGTGCCCGCAAGCTGCTGGCCTCACAGCCTCTGCGCCGCATGCTGCCCGTGGACGAGTTCCTG
CCCATCATGTTTCGACCAGCACCCCAACGAGCAGTACAAGGCACACTTCTGGCCACGGGACCTGGTGGCCTTCTCC
GCCCAGCCCCCTGCTCGCTGCCCCCTACCCACTATGCCGGGGACGCCGAGTGGCTCAGTGACACGGAGACATCCTCT
CCATGGGATGATGACAGCGGCCGCTCATCAGCTGGAGCGGCTCCCAAAGACCCTGCGCAGCCCCCGCCTGGAC
CTGACTGGCAGCAGCGGGCACAGCCTCCAACCCAGCCCCGAGATGAGCTCT**TAG**

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FIGURE 2768

MLQEWLAAVGDDYAAVVWRPEGEPRFYDPDEEGPKHWTKERHQFLMELKQEALTFARNWGADYILFADTDNILTNN
QTLRLLMGQGLPVVAPMLDSQTYYSNFWCGITPQGYRRTAEYFPTKNRQRRGCFRVPMVHSTFLASLRAEGADQ
LAFYPPHPNYTWPFDDIIVFAYACQAAGVSVHVCNEHRYGYMNPVKSHQGLEDERNFIHLILEALVDGPRMQA
SAHVTRPSKRPSKIGFDEVFVISLARRPDRRERMLASLWEMEISGRVVDAGWLNSSAIRNLGVDLLPGYQDP
YSGRTLTKEVGCFLSHYSIWEEVVARGLARVLVFEDDVRFESNFRGRLERLMEDVEAEKLSWDLIYLGKQVNP
EKETAVEGLPGLVVAGYSYWTLAYALRLAGARKLLASQPLRRMLPVDEFPLPIMFDQHPNEQYKAHFWPRDLVAFS
AQPLLAAPTHYAGDAEWLSDTETSSPWDDDSGRLLISWSGSQKTLRSPRLDLTGSSGHSLLQPQRDEL

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FIGURE 2769

GCGAGCTCGGCTTCCTCAACATGGCTGCGCCCTTGTTCAGTGGAGGTGGAGTTCGGAGGTGGTGCGGAGCTCCTGT
TTGACGGTATTAAGAAACATCGAGTCACTTTGCCTGGACAGGAGGAACCCTGGGACATCCGGAACCTGCTCATCT
GGATCAAGAAGAATTTGCTAAAAGAGCGGCCAGAGTTGTTTCATCCAGGGAGACAGCGTGCGGCCAGGAATTCTGG
TGCTGATTAACGATGCCGACTGGGAGCTACTGGGTGAGCTGGACTACCAGCTTCAGGACCAGGACAGCGTCCTCT
TCATCTCCACTCTGCACGGCGGCTGAGGGGCCCTTCTCTGGGCCTGGGCACCCTTAGAGGGGAGAACGAAGCAATC
AGACATCCCCCTTGGGGCCCTGCTTCCAGGTCTCCCTGTCCCCCTTGCTGCCTTCTTCCCTGCTCTGTCCCCCTAAG
CTCCCTCCAGGCAGGGAAAAGAGGCCAGGTGCTAAAAATGAGCCTTTCTCAAGCACGTGAGCAGCGGAAGGCAGA
CAGGCGCCAGAGCCCAGCACTCCCTTTTCCAGCAGCTGTGGTGGGGGAGGGTTCCCTCCAGTTTGTCAAGAGTT
GAAGGAGGCTCTGTGGCCAGGTGACCTGGCTGCCTTCCACTCCTTGTACCTCAGTCTAAACATGGAGTGGCCGCT
GACAAGGCGCTCCAGCCCCAGAGCCAGCGTCTTCATGGGGAAAGATGAATGGACCTGAGTAGCTGAAGGAAGGCCC
CTCCCTACCCAAAGACTGGAGGCTTCTCAGCCTCAATTTCCCTGTCTGTACAGCTGAGGGCTCTGCCTGTCCCC
ACTGCTATCAGTATGGAACCCAGCTGGGGTCCCCTATTGAGTGCCGACTCCCCCACCAGCCAGCAGCTGCTCCT
CCAGCCACACCCCTCCTGCTCCCCCACCCTAGCCCTTGACCCTGGCTGGCCTGCCCCGCTCCACAGGCCACCA
GATGGGCTCCTGAGACCCTCCCCAGGCTGCTTACAGCTCATTCTGCTGGGGGTAGAGATGAGGGGAGGGAGTAAG
TTAAACCTTGGACTAGCAAGTAGAAGCCTGGGGGGATGCGTGTGCCTCAGTTTCCTCCTCCACAACGAATATAG
TGGCTGAAAACCTGGGGAGATACTTGATGGCGCGAATGTCCGTTTTCTCTCCCTTCCACCTCCTGCAGGAAGCAG
GACGGGGCAGGCAGCACCTGGTAGGCACAGTGCTTTGCCCTCCTCCCCTTCCCTTCTGGAAGTCTTGGGGCCTC
AGTGCTTGCAACAGCCGGCCTTGGGCAAATAAAAGACTAGGTTGTTTACT

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FIGURE 2770

MAAPLSVEVEFGGGAELLFDGIKKHRVTLPGQEEPWDIRNLLIWIKKNLLKERPELFIQGDSVRPGILVLINDAD
WELLGELDYQLDQDSVLFISTLHGG

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FIGURE 2771

CAGCAGCAGCAGCAGCTCCAGCAACAGCAGCAGCAGCTCCAGCAGTTACAGCAGCAGCAGCTCCAGCAGCAGCAA
TTGCAGCAGCAGCAGTTACTGCAGCTCCAGCAGCTGCTCCAGCAGTCCCCACCACAGGCCCCGTGCCCATGGCT
GTCAGCCGGGGGCTCCCCCGCAGCAGCCACAGCAGCCGCTTCTGAATCTCCAGGGCACCAACTCAGCCTCCCTC
CTCAACGGCTCCATGCTGCAGAGAGCTTTGCTTTTACAGCAGTTGCAAGGACTGGACCAGTTTGAATGCCACCA
GCCACGTATGAACTGCCGGTCTCACCATGCCCACAGCAACACTGGGTAACCTCCGAGGCTATGGCATGGCATCC
CCAGGCCTCGCAGCCCCCAGCCTCACACCCCCACAACACTGGCCACTCCAAATTTGCAACAGTTCTTTCCCCAGGCC
ACTCGCCAGTCTTTGCTGGGACCTCCTCCTGTTGGGGTCCCCATGAACCCTTCCAGTTCAACCTTTTCAGGACGG
AACCCCCAGAAACAGGCCCCGACCTCCTCCTTACCACCCCCAATCGAAAGGATTCTTCTTCTCAGACAATGCCT
GTGGAAGACAAGTCAGACCCCCCAGAGGGGTCTGAGGAAGCCGCAGAGCCCCGGATGGACACACCAGAAGACCAA
GATTTACCGCCCTGCCCAGAGGACATCGCCAAGGAAAAACGCACTCCAGCACCTGAGCCTGAGCCTTGTGAGGCG
TCCGAGCTGCCAGCAAAGAGATTGAGGAGCTCAGAAGAGCCCACAGAGAAGGAACCTCCAGGGCAGTTACAGGTG
AAGGCCCAGCCGCAGGCCCCGATGACAGTACCGAAACAGACACAGACACCAGACCTGCTGCCTGAGGCCCTGGAA
GCCCAAGTGCTGCCACGATTCCAGCCACGGGTCTGTCAGGTCCAGGCCCAGGTGCAGTCAAGACTCAGCCGCGG
ATACCATCCACAGACACCCAGGTGCAGCCAAAGCTGCAGAAGCAGGCGCAAACACAGACCTCTCCAGAGCACTTA
GTGCTGCAACAGAAGCAGGTGCAGCCACAGCTGCAGCAGGAGGCAGAGCCACAGAAGCAGGTGCAGCCACAGGTA
CAGCCACAGGCACATTACAGGGCCCAAGGCAGGTGCAGCTGCAGCAGGAGGCAGAGCCGCTGAAGCAGGTGCAG
CCACAGGTGCAGCCCCAGGCACATTACAGCCCCCAAGGCAGGTGCAGCTGCAGCTGCAGAAGCAGGTCCAGACA
CAGACATATCCACAGGTCCACACACAGGCACAGCCAAGCGTCCAGCCACAGGAGCATCCTCCAGCGCAGGTGTCA
GTACAGCCACCAGAGCAGACCCATGAGCAGCCTCACACCCAGCCGCAGGTGTCTGCTGCTCCAGAGCAAACA
CCAGTTGTGGTTTCATGCTCTGCGGGCTGGAGATGCCACCTGATGCAGTAGAAGCTGGTGGAGGCATGGAAAAGACC
TTGCCAGAGCCTGTGGGCACCCAAGTCAGCATGGAAGAGATTGAGAATGAGTCGGCCTGTGGCCTAGATGTGGGA
GAATGTGAAAACAGAGCGAGAGAGATGCCAGGGGTATGGGGCGCCGGGGGCTCCCTGAAGGTCACCATTTCTGCAG
AGCAGTGACAGCCGGGCCTTTAGCACTGTACCCCTGACACCTGTCCCCCGCCCCAGTGACTCCGTCTCCTCCACC
CCTGCGGCTACCAGCACTCCCTCTAAGCAGGCCCTCCAGTTCTTCTGCTACATCTGCAAGGCCAGCTGCTCCAGC
CAGCAGGAGTTCCAGGACCACATGTCTGGAGCCTCAGCACACAGCAGCGGCTAGGGGAGATCCAGCACATGAGCCAA
GCCTGCCTCCTGTCCCTGCTGCCCCGTGCCCCGGGACGTCTTGGAGACAGAGGATGAGGAGCCTCCACCAAGGCGC
TGGTGCAACACCTGCCAGCTCTACTACATGGGGGACCTGATCCAACACCGCAGGACACAGGACCACAAGATTGCC
AAACAATCCTTGCGACCTTCTGCACCGTTTGCAACCGCTACTTCAAAACCCCTCGCAAGTTTGTGGAGCACGTG
AAGTCCCAGGGGCATAAGGACAAAGCCAAGGAGCTGAAGTCGCTTGAGAAAGAAATTGCTGGCCAAGATGAGGAC
CACTTCATTACAGTGGACGCTGTGGGTTGCTTCGAGGGTGATGAAGAAGAGGAAGAGGATGATGAGGATGAAGAA
GAGATCGAGGTTGAGGAGGAACTCTGCAAGCAGGTGAGGTCCAGAGATATATCCAGAGAGGAGTGGAAGGGCTCG
GAGACCTACAGCCCCAATACTGCATATGGTGTGGACTTCTTGGTGCCCGTGATGGGCTATATCTGCCGCATCTGC
CACAAGTTCTATCACAGCAACTCAGGGGCACAGCTCTCCCACTGCAAGTCCCTGGGCCACTTTGAGAACCTGCAG
AAATACAAGGCGGCCAAGAACCCAGCCCCACCACCCGACCTGTGAGCCGCCGGTGCGCAATCAACGCCCGGAAC
GCTTTGACAGCCCTGTTACCTCCAGCGGCCGCCACCTCCAGCCCAACACCCAGGACAAAAACCCAGCAAG
GTGACGGCTCGACCTCCAGCCCCCACTACCTCGGCGCTCAACCCGCCTCAAAACCTGATAGAGGGGACCTCCCT
GTCCCTGGCCTGCCTGGGTCCAGATCTGCTAATGCTTTTTAGGAGTCTGCCTGGAAACTTTGACATGGTTTCATGT
TTTTACTCAAAATCCAATAAAACAAGGTAGTTTGGCTG

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FIGURE 2772

GGCACGAGGGGCGGGCGTTTCGAACTTGGGCGCCGGGCGACACGCCAGTCCCGAGAGCGCTGAGGGTTCCCTTAG
CGTCGCCCTCACCCCGGCCAACCCGCGGGGCGCCAGAGTCCTGGCCCTTTAAACGCCGCGCGTGCCTCGGCGTCT
TCGTTTCGCGCGCCCGCCCGCGGGCGCCGGGAGCGAACATGGACCCGGCTGCGCGGGTGGTGCGGGCGCTGTGG
CCTGGTGGGTGCGCCTTGGCCTGGAGGCTGGGAGGCCGCCCCAGCCGCTGCTACCCACGCAGAGCCGGGCTGGC
TTCGCGGGGGCGGGCGGGCGCCCGAGCCCCGTGGCTGCAGCTCGTAAGGGGAGCCCGCGGCTGCTGGGAGCTGCG
GCGCTGGCCCTGGGGGGAGCCCTGGGGCTGTACCACACGGCGCGGTGGCACCTGCGCGCCCAGGACCTCCACGCA
GAGCGCTCAGCCGCGCAGCTCTCCCTGTCCAGCCGCTGCAGCTGACCCTGTACCAGTACAAGACGTGTCCCTTC
TGCAGCAAGGTCCGAGCCTTCCTCGACTTCCATGCCCTGCCCTACCAGGTGGTGGAGGTGAACCCTGTGCGCAGG
GCTGAGATCAAGTTCTCCTCCTACAGAAAGGTGCCCATCCTGGTGGCCAGGAAGGAGAAAGCTCGCAACAATA
AATGACTCCTCTGTTCATCATCAGCGCCCTCAAGACCTACCTGGTGTGCGGGCAGCCCCCTGGAAGAGATCATCACC
TACTACCCAGCCATGAAGGCTGTGAACGAGCAGGGCAAGGAGGTGACCGAGTTTCGGCAATAAGTACTGGCTCATG
CTCAACGAGAAGGAGGGCCAGCAAGTGTATGGTGGGAAGGAGGCCAGGACGGAGGAGATGAAGTGGCGGCAGTGG
GCGGACGACTGGCTGGTGCACCTGATCTCCCCCAATGTGTACCGCACGCCCACCGAGGCTCTGGCGTCCTTTGAC
TACATTGTCCGCGAGGGCAAGTTCGGAGCCGTGGAGGGTGGCGTGGCCAAGTACATGGGTGCAGCGGCCATGTAC
CTCATCAGCAAGCGACTCAAGAGCAGGCACCGCCTCCAGGACAACGTGCGCGAGGACCTCTATGAGGCTGCTGAC
AAGTGGGTGGCTGCTGTGGGCAAGGACCGGCCCTTCATGGGGGGCCAGAAGCCGAATCTCGCTGATTGCGGGTG
TATGGCGTGCTGCGTGTGATGGAGGGGCTGGATGCATTTCGATGACCTGATGCAGCACACGCACATCCAGCCCTGG
TACCTGCGGGTGGAGAGGGCCATCACCGAGGCCTCCCCAGCGCACTTGAATGTCCCCGCGCAGAGCAGAGGGAAGG
CAGCGGAAGACGCCAGCTGCCAGGGCCTGGGGCCACTGGGCCAGCGCCTGGCGATACTGGTTGGGGGCAGGATCA
TTCTGCCCCCTTGTCCACGCACCCCCACCAGCCCTCTCGCTTCTAACACAGGGCACCTGCTGGGGCTCAGGGATGT
TAGGGACGAGTTCCAGCCCTGCCACTGCCCTGGGGCGACCCCTCCCTGTCCCTGCCTCCCTGCTCTGCCGCCCT
CTTCCTGGACCCTCAGTGGCTGTCCCATGGCTACATCCTGTGGGTGGGGGCCCTCGACAGGACAGCAGGACGGTT
TGTTTTTCAGTGGGAATCCCATCCCTGGGTTCCTTCCACTCTTCCCAAGCCTCCCGGGACTGGGACATGTT
TGCAATAAAGGAAAGGTTTGTGGCGCCTGTCATGGCAGGCATCTCATGGAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2773

MDPAARVVRLWPGGCALAWRLGGRPQPLLEPTQSRAGFAGAAGGPSPVAAARKGSPRLLGAAALALGGALGLYHT
ARWHLRAQDLHAERSAAQLSLSSRLQLTLYQYKTCPFCSKVRAFLDFHALPYQVVEVNPVRRAEIKFSSYRKVPI
LVAQEGESSQQLNDSSVIIISALKTYLVSGQPLEEIIITYYPAMKAVNEQGKEVTEFGNKYWLMLNEKEAQQVYGGK
EARTEEMKWRQWADDWLVLHLISPNVYRTPTEALASFDYIVREGKFGAVEGAVAKYMGAAAMYLI SKRLKSRHRLQ
DNVREDLYEAADKWVAAVGKDRPFMGGQKPNLADLAVYGVLVRVMEGLDAFDDLMQHTHIQPWYLRVERAITEASP
AH

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FIGURE 2774

CCCAGCCCTGGAGACAGCAGCCCCTAGACTACTGAGGGACAGCGACAGCATGAAGGCTCCGGGTCGGCTCGTGCT
CATCATCCTGTGCTCCGTGGTCTTCTCTGCCGTCTACATCCTCCTGTGCTGCTGGGCCGGCCTGCCCCCTCTGCCT
GGCCACCTGCCTGGACCACCACTTCCCCACAGGCTCCAGGCCCACTGTGCCGGGACCCCTGCACTTCAGTGGATA
TAGCAGTGTGCCAGATGGGAAGCCGCTGGTCCGCGAGCCCTGCCGCAGCTGTGCCGTGGTGTCCAGCTCCGGCCA
AATGCTGGGCTCAGGCCTGGGTGCTGAGATCGACAGTGCCGAGTGCCTGTTCCGCATGAACCAGGCGCCACCGT
GGGCTTTGAGGCGGATGTGGGCCAGCGCAGCACCCCTGCGTGTCTCTCACACACAAGCGTGCCGCTGCTGCTGCG
CAACTATTCACACTACTTCCAGAAGGCCCCGAGACACGCTCTACATGGTGTGGGGCCAGGGCAGGCACATGGACCG
GGTGCTCGGCGGCCGCACCTACCGCACGCTGCTGCAGCTCACCAGGATGTACCCCGGCCTGCAGGTGTACACCTT
CACGGAGCGCATGATGGCCTACTGCGACCAGATCTTCCAGGACGAGACGGGCAAGAACCGGAGGCAGTCGGGCTC
CTTCCTCAGCACCGGCTGGTTACCATGATCCTCGCGCTGGAGCTGTGTGAGGAGATCGTGGTCTATGGGATGGT
CAGCGACAGCTACTGCAGGGAGAAGAGCCACCCCTCAGTGCCTTACCCTACTTTGAGAAGGGCCGGCTAGATGA
GTGTCAGATGTACCTGGCACACGAGCAGGCGCCCCGAAGCGCCCACCGCTTCATCACTGAGAAGGCGGTCTTCTC
CCGCTGGGGCCAAGAAGAGGCCCATCGTGTTTCGCCCATCCGTCTTGAGGACTGAGTAGCTTCCGTCGTCTGCCA
GTCGCCATGCCGTTGCGAGGCCTCCGGGATGTCCCATCCCAAGCCATCACACTCCACAAAAACATTTAATTTATG
GATCCTGCCTCCTGCCACGTGCTGGGTGGACCTAAGGTTCTTTTCCACTCCCTGAGTAATTCACGGCATTGTTGGG
GCTCACCCACCTCCAGGTCTGTCAAGTGGCCTTTGTCCC

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FIGURE 2775

GCGCGGCATAACGACCCAGGTCGCGGCGCGGCGGGGCTTGAGCGCGTGGCCGGTGCCGCAGGAGCCGAGCATGGA
GTACCAGGATGCCGTGCGCATGCTCAATACCCTGCAGACCAATGCCGGCTACCTGGAGCAGGTGAAGCGCCAGCG
GGGTGACCCCTCAGACACAGTTGGAAGCCATGGAAGTGTACCTGGCACGGAGTGGGCTGCAGGTGGAGGACTTGGA
CCGGCTGAACATCATCCACGTCACTGGGACGAAGGGGAAGGGCTCCACCTGTGCCTTCACGGAATGTATCCTCCG
AAGCTATGGCCTGAAGACGGGATTCTTTAGCTCTCCCCACCTGGTGCAGGTTCCGGAGCGGATCCGCATCAATGG
GCAGCCCATCAGTCCTGAGCTCTTACCAAGTACTTCTGGCGCCTCTACCACCGGCTGGAGGAGACCAAGGATGG
CAGCTGTGTCTCCATGCCCCCTACTTCCGCTTCTTGACACTCATGGCCTTCACGTCTTCTCCAAGAGAAGGT
GGACCTGGCAGTGGTGGAGGTGGGCATTGGCGGGGCTTATGACTGCACCAACATCATCAGGAAGCCTGTGGTGTG
CGGAGTCTCCTCTCTTGGCATCGACCACACCAGCCTCCTGGGGGATACGGTGGAGAAGATCGCATGGCAGAAAGG
GGGCATCTTTAAGCAAGGTGTCCCTGCCTTCACTGTGCTCCAACCTGAAGGTCCCCTGGCAGTGCTGAGGGACCG
AGCCAGCAGATCTCATGTCTCTATACCTGTGTCCGATGCTGGAGGCCCTCGAGGAAGGGGGGCCCGGCTGAC
CCTGGGCTGGAGGGGGAGCACCAGCGGTCCAACGCCGCCCTTGGCCTTGACGTGGCCCACTGCTGGCTGCAGCG
GCAGGACCGCCATGGTGTGCTGGGGAGCCAAAGGCATCCAGGCCAGGGCTCCTGTGGCAGCTGCCCCTGGCACCTGT
GTTCCAGCCACATCCCACATGCGGCTCGGGCTTCGGAACACGGAGTGGCCGGGCGGACGCAGGTGCTGCGGCG
CGGGCCCCCTCACCTGGTACCTGGACGGTGCACACACCGCCAGCAGCGCGCAGGCCTGCGTGCCTGGTTCCGCCA
GGCGCTGCAGGGCCGCGAGAGGCCGAGCGGTGGCCCCGAGGTTTCGAGTCTTGCTCTTCAATGCTACCGGGGACCG
GGACCCGGCGGCCCTGCTGAAGCTGCTGCAGCCCTGCCAGTTTGACTATGCCGTCTTCTGCCCTAACCTGACAGA
GGTGTTCATCCACAGGCAACGCAGACCAACAGAACTTCACAGTGACACTGGACCAGGTCTGCTCCGCTGCCTGGA
ACACCAGCAGCACTGGAACCACCTGGACGAAGAGCAGGCCAGCCCGGACCTCTGGAGTGCCCCCAGCCCAGAGCC
CGGTGGGTCCGCATCCCTGCTTCTGGCGCCCCACCCACCCACACCTGCAGTGCCAGCTCCCTCGTCTTCAGCTG
CATTTACATGCCTTGCAATGGATCAGCCAAGGCCGAGACCCATCTTCCAGCCACCTAGTCCCCCAAAGGGCCT
CCTACCCACCCTGTGGCTCACAGTGGGGCCAGCATACTCCGTGAGGCTGCTGCCATCCATGTGCTAGTCACTGG
CAGCCTGCACCTGGTGGGTGGTGTCTGAAAGCTGCTGGAGCCGCACTGTCAGTAGCCAAGGCCCGGGTTGG
AGGTGGGAGCTTCCCACACCTGCCTGCGTTCTCCCCATGAACTTACATACTAGGTGCCTTTTGTTTTGGCTTTC
CTGGTTCTGTCTAGACTGGCCTAGGGGCCAGGGCTTTGGGATGGGAGGCCGGGAGAGGATGTCTTTTTTAAGGCT
CTGTGCCTTGGTCTCTCCTTCTTGGCTGAGATAGCAGAGGGGCTCCCCGGGTCTCTCACTGTTGCAGTGCC
TGGCCGTTACGCCTGTCTCCCCAACACCCCGCCTGCCTCCTGGCTCAGGCCAGCTTATTGTGTGCGCTGCCTG
GCCAGGCCCTGGGTCTTGCCATGTGCTGGGTGGTAGATTTCCTCCTCCAGTGCCTTCTGGGAAGGGAGAGGGCC
TCTGCCTGGGACACTGCGGGACAGAGGGTGGCTGGAGTGAATTAAAGCCTTTGTTTTT

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FIGURE 2776

MSRARSHLRAALFLAAASARGITTQVAARRGLSAWVPVQEPSMEYQDAVRMLNTLQTNAGYLEQVKRQRGDPQTQ
LEAMELYLARSGLQVEDLDRLNIIHVTGTKGKGSTCAFTECILRSYGLKTGFFRFGSGSASMGSPSVLSSSPSTS
GASTTGWRRRPRMAAVSPCPPTSAS

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FIGURE 2777

TCACCCGGATGGCGGCTGCGACGCGCGGCTGCCGGCCCTGGGGCTCGCTCCTCGGGCTGCTCGGGCTGGTCTCGG
CCGCGGCCCGCCGCCTGGGACCTGGCTTCCCTGCGCTGCACCTTGGGCGCCTTTTGCGAATGCGACTTCCGGCCCCG
ACTTGCCGGGTCTGGAGTGTGACCTGGCTCAGCACCTGGCCGGCCAGCATCTGGCCAAGGCGCTGGTGGTGAAGG
CGCTGAAGGCCCTTTGTGCGGGACCCAGCCCCCACCAGCCGCTGGTCTCTCCCTGCACGGCTGGACCGGCACCG
GCAAATCCTATGTGACGTCCCTGCTGGCGCACTACCTCTTCCAGGGCGGCCTCCGCAGCCCCCGCTGCACCACT
TTTCTCCCGTCCCTCCACTTCCCCCAGCCACATCGAGCGCTACAAGAAGGATCTGAAGAGCTGGGTCCAAG
GGAACCTCACTGCCTGTGGCGCTCCCTCTTCTCTTCGATGAGATGGACAAGATGCCCCAGGCCTGATGGAAG
TCCTGCGGCCTTTCTGGGCTCCTCCTGGGTGGTATACGGGACCAATTACCGCAAAGCCATCTTCATCTTCATCA
GGTGGGGCCCCGGCTTTGCAGTGGGCACAGTGGGGGGGCCACTTCTCAGAGGTTTCTAGCTCTACAGCCTTAGCCTGT
GCTCCCAGCAGAATCCAGTTCCCATGGGCTTAGCTGGGCTTTCCAGTGGCCTCCGCCACTCTCAGAGATGACA
TTGTCATTCCGCCTGGTTGATTTCCCTTTGGACATTCTCAGCAAATTCTGGGCTCAGTCTTTTTGATCGCCACTT
CTTTGTGGAAGCCCTGCCAGGTCAAGAAGTTTCCCTCTTTTGTGGTGAGGAGGACACAGGCCTGGGAAAAATAG
GAACAGAGTTCTTGTCTTTAGTCCCAGCTCTCAGAATCCTCGCTGTGTTTCTCAGGCAGCATGGCTCCGCCTC
TCTGAGCCTCTGTCTCTGCTTCTGAACAGCGGGGCCAATAATGATGCCCCGATGCCTTCTGGAAGTTCAGTGAG
GGAAAGTCAGTTGAGGGACACAAAAGTGTTTTGTAAACTATAAAGTACGTGGCATGTGTAGGTGAATTACAGGGG
CCATGGATGTGGACACCATGGAGGGGGAAGTGGAGCGTTTTTCTAGTGGAGTTGGCTCCTCCCCGCACTGAGCCATG
TTCTATGTGAGGTGGCAGCGGGGAAGCGAGGGTCCAATCCTGCCCTGCGCTAGTCTCATCTGAGTCTCAGCCT
GGGTCCCCCATGGTTTTTAGCAACACGGGTGGCAAGCAGATCAACCAGGTGGCATTGGAGGCGTGGCGCAGCCGGC
GGGACCGCGAGGAGATCCTCCTGCAGGAGCTGGAGCCGGTCTATCTCCCGCGCGGTGCTGGACAACCCGCACCGTG
AGTCTGGCTCAGCAGCCCCCTCCCGGGCAGCTTACCCACACCCAGGGGCCAGGCTCTCCCGGGGTCTCATGCT
TTGCCCACTGACCCGGCAGTTCTGAGCCTGGCTTTGGCACTCCAGCTTTGTGACTTTGGGTGAGCCTTACAGCC
CCTGAGTCCTACACCCAGAAGGCGGCTGAGGGAAGTGGAGGCCAGCATTTTTCCTCCTGCCCTGGGGGTTTGGGG
CCGGCTTCTCCCTCTTGTGAAGCACAAAGTCCCTTCCCACCTACCCTTCTGAGATGGCTTCTCAAACCTCGG
GCATCATGGAAGAGCGCCTCCTAGACGCAGTGGTGCCCTTCTCCCGCTCCAGCGGCACCACGTCCGGCACTGCG
TGCTCAACGAGCTGGCCAGCTGGGCCTGGAGCCAAGGGATGAGGTTGTCCAGGCTGTGCTGGACAGCACCACT
TCTTCCCTGAAGACGAGCAGCTCTTCTCCTCCAACGGCTGCAAGACCGTGGCCTCCCGAATCGCCTTCTTCTCT
GACTCTCTGAGTGGTGTCTCGGCCCCCTGATGGCCAGGCCATGCAGGAAAGGCCAGGGGCCTCTGTACAGGA
ACCCAGAGCACCAAGTGAGATGAACGGAGTGTGCGCTAGGCCACGGGACAGATGGCCAGGAAGGGCCCTGGCCTC
TAAACTGGCTCGAGAGCATCTTGGCCCCGGCCACCTTCCCAGGGAAACCCCTGGTCACCCCAGAACCTCACTGA
GCCTTGACCTCCCCCTGCAGCCTGAGCCTTCTTACTGTGAATTATAACTCAGGGACTGTGGCTCGTGGCGGTGCT
CCCTCCTCAGTCTGCCACCCTTGCCCTTGCCCTTGGTTCGGGCACCATACTCCTCCCTCCACCCACACCC
TGTGTCCATATCAAGCCAGGTGGAGCCTTCTCAGTTTCCAGAAATGGAGGGACTCAAGCTGCCACTTGGGCCTGG
TTTTAGATGTTTTTAATTTGTAAAAGAAAACAAGTATAATAAAGTCAAGTGTGGGACCAG

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FIGURE 2778A

GCGCCAGCGGCGTCCGCCTGAGCAGCGCGGGCAACAGCGGCGGCGTTCGGCCGGATCGGGCCGCGACACCTCCTGG
CCATGGGGGACGTGCTGTCCACGCACCTGGACGACGCCCCGGCGCCAGCACATCGCAGAAAAAACCGGGAAGATCC
TGACGGAGTTCCTCCAGTTCTATGAAGACCAGTATGGCGTGGCTCTCTTCAACAGCATGCGCCATGAGATTGAGG
GCACGGGGCTGCCGACGGCCCAGCTGCTCTGGCGCAAGGTGCCACTGGACGAGCGCATCGTCTTCTCGGGGAACC
TCTTCCAGCACCAGGAGGACAGCAAGAAGTGGAGAAACCGCTTCAGCCTCGTGCCCCACAACACTACGGGCTGGTGC
TCTACGAAAACAAAGCGGCCTATGAGCGGCAGGTCCCACCACGAGCCGTCATCAACAGTGCAGGCTACAAAATCC
TCACGTCCGTGGACCAATACCTGGAGCTCATTGGCAACTCCTTACCAGGGACCACGGCAAAGTCGGGCAGTGCCC
CCATCCTCAAGTGCCCCACACAGTTCCTCGCTCATCCTCTGGCATCCTTATGCGCGTCACTACTACTTCTGCATGA
TGACAGAAGCCGAGCAGGACAAGTGGCAGGCTGTGCTGCAGGACTGCATCCGGCACTGCAACAATGGAATCCCTG
AGGACTCCAAGGTAGAGGGCCCTGCGTTCACAGATGCCATCCGCATGTACCGACAGTCCAAGGAGCTGTACGGCA
CCTGGGAGATGCTGTGTGGGAACGAGGTGCAGATCCTGAGCAACCTGGTGATGGAGGAGCTGGGCCCTGAGCTGA
AGGCAGAGCTCGGCCCCGCGCTGAAGGGGAAACCGCAGGAGCGGCAGCGGCAGTGGATCCAGATCTCGGACGCCG
TGTACCACATGGTGTACGAGCAGGCCAAGGCGCGCTTCGAGGAGGTGCTGTCCAAGGTGCAGCAGGTGCAGCCGG
CCATGCAGGCCGTCATCCGAACCTGACATGGACCAAATTATCACCTCCAAGGAGCACCTTGCCAGCAAGATCCGAG
CCTTCATCCTCCCCAAGGCAGAGGTGTGCGTGCAGAACCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCC
TGATGGTCCCCACCAGCCAGGGCTTCACTGAGGTGCGAGATGTCTTCTTCAAGGAGGTACCGGACATGAACCTGA
ACGTCATCAACGAGGGCGGCATTGACAAGCTGGGCGAGTACATGGAGAAGCTGTCCCGGTGGCGTACCACCCCC
TGAAGATGCAGAGCTGCTATGAGAAGATGGAGTCGCTGCGACTGGACGGGCTGCAGCAGCGATTGATGTGTCCA
GCACGTCCGTGTTCAAGCAGCGAGCCCAGATCCACATGCGGGAGCAAATGGACAATGCCGTGTATACGTTTCGAGA
CCCTCCTGCACCAGGAGCTGGGGAAGGGGCCACCAGGAGGAGCTGTGCAAGTCCATCCAGCGGGTCTTGAGC
GGGTGCTGAAGAAATACGACTACGACAGCAGCTCTGTGCGGAAGAGGTTCTTCCGGGAGGCGCTGCTGCAGATCA
GCATCCCCTTCCTGCTCAAGAAGCTGGCCCCCTACCTGCAAGTCGGAGCTGCCCCGTTCCAGGAGCTGATCTTCG
AGGACTTTGCCAGGTTTCATCCTGGTGGAAAACACGTACGAGGAGGTGGTGTGCTGCAGACCGTCATGAAGGACATCC
TGCAGGCTGTGAAGGAGGCCGCGGTGCAGAGGAAGCACAACCTCTACCGGACAGCATGGTCATGCACAACAGCG
ACCCCAACCTGCACCTGCTGGCCGAGGGCGCCCCCATCGACTGGGGCGAGGAGTACAGCAACAGCGGCGGGGGCG
GCAGCCCCAGCCCCAGCACCCCGGAGTCAGCCACCCTCTCGGAAAAGCGACGGCGCGCCAAGCAGGTGGTCTCTG
TGGTCCAGGATGAGGAGGTGGGGCTGCCCTTTGAGGCTAGCCCTGAGTCACCACCACCTGCGTCCCCGGACGGTG
TCACTGAGATCCGAGGCCTGCTGGCCCCAAGGTCTGCGGCCTGAGAGCCCCCACCAGCCGGCCCCCTGCTCAACG
GGGCCCCCGCTGGGGAGAGTCCCCAGCCTAAGGCCGCCCCGAGGCCTCCTCGCCGCTGCTCACCCTCCAGC
ATCTCCTGCCGTGGAAGGCTGTGGACCTTGGGCCCCCAAGCCCAGCGACCAGGAGACTGGAGAGCAGGTGTCCA
GCCCCAGCAGCCACCCCGCCCTCCACACCACCACCGAGGACAGTGCAGGGGTGCAGACTGAGTTCTAGGCCAGTG
GGTCCCTGACTGCTGCACATGGCACAGGCCGTTCCCTTCCGGACCCAGGCAGGCTCAGCTCTGGGGAGGGCACCC
TGGTCTGTGCCCTTGTGGGTGGAGGCGGGGCAGGGCTGTGTGGCACCGCCAGGGAGCGGGGCCACCTGAGTCACTT
TATTGGGTTTCAGTCAACACTTTCTTGCTCCCTGTTTTCTCTCTGTGGGATGATCTCAGATGCAGGGGCTGGTTT
TGGGGTTTTCTGCTTGTGCCAAGGGCTGGACACTGCTGGGGGGCTGGAAGCCCCCTCCCTTCTGCTCCTTCTGT
GGCTCCATCCCCCTCATGGGTGCTGCCATCCTTCTGGAGAGAGGGAGGTGAAAGCTGGTGTGAGCCCAGTGGGT
TCCCGCCCACTACCCAGGAGCTGGCTGGGCCAGGACCGGGAGAGGGAGCACTGCTGCCCTCCTGGCCCTGCTCC
TTCCGCAGTTAGGGGTGGACCGAGCCTCGCTTTCCCCACTGTTCTGGAGGGAAGGGGAAGGAGGGGGTCTTCAGG
CTGGAGCCAGGCTGGGGGTGCTGGGTGGAGAGATGAGATTTAGGGGGTGCCTCATGGGGTGGGCAGGCCTGGGGT
GAAATGAGAAAGGCCCAAGACGTGCAGGTCTGCGGAGGGGAAGTGTCTGAGTGAAGGAGGGGACCCCCATCCTG
GGGGATGCTGGGAGTGAGTGAGTGAGATGGCTGAGTGAGGGTTATGGGGAGCCTGAGGTTTTATGGGCCTGTGTA
TCCCCCTTCTCCCGCCCCAGCCTGCCTCCCTCCTGCCCGCCTGGCCACAGGTCTCCCTCTGGTCCCTGTCCCTC
TGGTGGTTGGGGATGGAGCGGCAGCAAGGGGTGTAATGGGGCTGGGTCTGTCTTCTACAGGCCACCCCGAGGTG
CTCAGTGGTTGCCCTGGGGAGCCGGACGGGGCTCCTGAGGGGTACAGGTTGGGTGGGGCCCTCCCTGAGGGTCTGGG
GTCAGGCTTTGGCCTCTGCTGCCTCTCAGTCACCAAGTCACCTCCCTCTGAAAATCCAGTCCCTTCTTTGGATGT
CCTTGTGAGTCACTCTGGGCCTGGCTGTGCTCCCTCCTCAGCTTCTTGTTCCTGGGACAAGGGTCAAGCCAGGAT
GGGCCAGGCCTGGGATCCCCACCCAGGACCCCGAGCCCCCTCCCTGCTGCTTTGCGGGGGGCAGGGCAGA
AATGGACTCCTTTTGGGTCCCCGAGGTGGGGTCCCCCTCCAGCCCTGCATCCTCCGTGCCCTAGACCTGCTCCCC

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FIGURE 2778B

AGAGGAGGGGCCTTGACCCACAGGACGTGTGGTGGCGCCTGGCACTCAGGGACCCCCAGCTGCCGCAGCCCTGGT
CTCTGGCGCATCTCTTCCCTCTTGTCCCGAAGATCTGCGCCTCTAGTGCCTTTTGAGGGGTTCCCATCATCCCTC
CCTGATATTGTATTGAAAATATTATGCACACTGTTTCATGCTTCTACTAATCAATAAACGCTTTATTT

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FIGURE 2779

MGDVLSTHLDDARRQHIAEKTGKILTEFLQFYEDQYGVAFNSMRHEIEGTGLPQAQLLWRKVPLDERIVFSGNL
FQHQEDSKKWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAP
ILKCPTQFPFLILWHPYARHYFMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGT
WEMLCGNEVQILSNLVMEEELGPELKAELGPRLKGKPKQERQRQWIQISDAVYHMYEQAKARFEEVLSKVQQVQPA
MQAVIRTDMDQIITSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVRDVFFKEVTDMLN
VINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRLDGLQQRFVSSVTSVFKQRAQIHMREQMDNAVYTFET
LLHQELGKGPTKEELCKSIQRLERVLKKYDYDSSSVRKRFREALLQISIPFLLKKLAPTCKSELPRFQELIFE
DFARFILVENTYEEVVLQTVMKDILQAVKEAAVQRKHNLYRDSMVMHNSDPNLHLLAEGAPIDWGEEYSNSGGG
SPSPSTPESATLSEKRRRAKQVSVVQDEEVGLPFEASPESPPPASPDGVTEIRGLLAQGLRPESPPPAGPLLNG
APAGESPQPKAAPASSPPASPLQHLLPGKAVDLGPPKPSDQETGEQVSSPSSHPALHTTTEDSAGVQTEF

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FIGURE 2780

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTCCTTCGGTCGTCCCGAATCCGGGTTTCATCCGACACC
AGCCGCCTCCACCATGCCGCCGAAGTTCGACCCCAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGTTGGTGATGACAT
TGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTGAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCTTCTGCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATTGTCAACATTGCTCGACAGATGCGGCACCGATCCTT
AGCCAGAGAACTCTCTGGAACCATTAAAGAGATCCTGGGGACTGCCCAGTCAGTGGGCTGTAATGTTGATGGCCG
CCATCCTCATGACATCATCGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCCAGTTAAGCACAAAGGAAAAC
ATTTCAATAAAGGATCATTGACAACTGGTGA

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FIGURE 2781

MPPKFDPNEIKVVYLRCTGGEVGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVP
SASALI IKALKEPPRDRKKQKNIKHSGNITFDEIVNIARQMRHRSLARELSGTIKEILGTAQSVGCNVDGRHPHD
IIDDINSGAVECPAS

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FIGURE 2782

AACCACCATTTTGCAAGGACCATGAGGCCACTGTGCGTGACATGCTGGTGGCTCGGACTGCTGGCTGCCATGGGA
GCTGTTGCAGGCCAGGAGGACGGTTTTTGAGGGCACTGAGGAGGGCTCGCCAAGAGAGTTTACCTTAAACAGG
TACAAGCGGGCGGGCGAGTCCCAGGACAAGTGCACCTACACCTTCATTGTGCCCCAGCAGCGGGTCACGGGTGCC
ATCTGCGTCAACTCCAAGGAGCCTGAGGTGCTTCTGGAGAACCGAGTGCATAAGCAGGAGCTAGAGCTGCTCAAC
AATGAGCTGCTCAAGCAGAAGCGGCAGATCGAGACACTGCAGCAGCTGGTGGAGGTGGACGGCGGCATTGTGAGC
GAGGTGAAGCTGCTGCGCAAGGAGAGCCGCAACATGAACTCGCGGGTCACGCAGCTCTACATGCAGCTCCTGCAC
GAGATCATCCGCAAGCGGGACAACGCGTTGGAGCTCTCCCAGCTGGAGAACAGGATCCTGAACCAGACAGCCGAC
ATGCTGCAGCTGGCCAGCAAGTACAAGGACCTGGAGCACAAGTACCAGCACCTGGCCACACTGGCCCACAACCAA
TCAGAGATCATCGCGCAGCTTGAGGAGCACTGCCAGAGGGTGGCCTCGGCCAGGCCCCGTCCCCAGCCACCCCCC
GCTGCCCCGCCCCGGGTCTACCAACCACCCACCTACAACCGCATCATCAACCAGATCTCTACCAACGAGATCCAG
AGTGACCAGAACCTGAAGGTGCTGCCACCCCCTCTGCCCACTATGCCCACTCTCACCAGCCTCCCATCTTCCACC
GACAAGCCGTCGGGCCCATGGAGAGACTGCCTGCAGGCCCTGGAGGATGGCCACGACACCAGCTCCATCTACCTG
GTGAAGCCGGAGAACACCAACCGCCTCATGCAGGTGTGGTGCGACCAGAGACACGACCCCGGGGGCTGGACCGTC
ATCCAGAGACGCCTGGATGGCTCTGTAACTTCTTCAGGAAGTGGGAGACGTACAAGCAAGGGTTTGGGAACATT
GATGGCGAATACTGGCTGGGCCTGGAGAACATTTACTGGCTGACGAACCAAGGCAACTACAAACTCCTGGTGACC
ATGGAGGACTGGTCCGGCCGCAAAGTCTTTGCAGAATACGCCAGTTTCCGCCTGGAACCTGAGAGCGAGTATTAT
AAGCTGCGGCTGGGGCGCTACCATGGCAATGCGGGTGACTCCTTTACATGGCACAACGGCAAGCAGTTCACCACC
CTGGACAGAGATCATGATGTCTACACAGGAACTGTGCCCACTACCAGAAGGGAGGCTGGTGGTATAACGCCTGT
GCCCCACTCCAACCTCAACGGGGTCTGGTACCGCGGGGGCCATTACCGGAGCCGCTACCAGGACGGAGTCTACTGG
GCTGAGTTCCGAGGAGGCTCTTACTCACTCAAGAAAGTGGTGATGATGATCCGACCGAACCCCAACACCTTCCAC
TAAGCCAGCTCCCCCTCC

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FIGURE 2783

MRPLCVTCWWLGLLAAMGAVAGQEDGFEGTEEGSPREFIYLNRYKRAGESQDKCTYTFIVPQQRVITGAICVNSKE
PEVLLENRVHKQELELLNNELLKQKRQIETLQQQVEVDGGIVSEVKLLRKESRNMNSRVITQLYMQLLHEIIRKRD
NALELSQLENRILNQADMLQLASKYKDLEHKYQHLATLAHNQSEIIAQLEEHQCRVPSARPVPQPPPAAPPRVY
QPPTYNRIINQISTNEIQSDQNLKVLPPPLPTMPTLTSLPSSTDKPSGPWRDCLQALEDGHDTSSIYLVKPENTN
RLMQVWCDQRHDPGGWTVIQRRLDGSVNFFRNWETKQGFQGNIDGEYWLGLENIYWLITNQGNKLLVTMEDWGR
KVFAEYASFRLEPESEYYKLRLGRYHGNAGDSFTWHNGKQFTTLDRDHDVYTGNAHYQKGGWWYNACAHSNLNG
VWYRGGHYRSRYQDGVYWAEFRGGSYSLLKKVMMIRPNPNTFH

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FIGURE 2784A

CAGGATATAATTGATACAGCATGTGAAGTATTGGCCGACCCTTCTCTTCCGGAACCTGTTCTGGGGAACAGAGCCA
ACTTCTGGCCTTGGGATCATTCTGGACAGTGTGTGTGGAATGTTTCCCCACCTTCTCTCCCCACTCCTGCAACTG
CTCCGAGCCCTGGTATCAGGGAAGTCCACAGCCAAAAAGGTGTATAGCTTCTTGGATAAGATGTCTTTCTACAAT
GAACTTTATAAACACAAGCCTCATGATGTGATCTCCCATGAAGATGGAACCTCTTGGCGGAGACAAACACCCAAA
CTCCTTTATCCCCCTTGGGGGTCAAACCAACCTTCGCATACCTCAAGGCACTGTGGGCCAAGTAATGTTGGATGAT
AGGGCATACCTGGTACGCTGGGAATACTCCTATAGCAGCTGGACCCTCTTTACCTGCGAGATTGAAATGTTGCTT
CATGTTGTTTCAACTGCAGATGTGATTCAGCACTGCCAGCGAGTCAAACCCATCATTGATCTCGTCCATAAGGTC
ATCAGTACAGACCTGTGATAGCAGACTGTCTCCTGCCCATCACATCTCGCATCTACATGCTGCTGCAGCGGTTA
ACGACAGTGATCTCCCCACCTGTGGATGTCAATTGCTTCTTGTGTCAACTGCTTAAGTGTGTTTGGCTGCCCGCAAT
CCAGCAAAGGTCTGGACTGATCTTCGTACACAGGTTTTTTTACCATTGTGGCCCATCCTGTCTCCAGCCTGAGT
CAGATGATTAGTGCAGGAAGGGATGAATGCTGGAGGGTACGGAAACCTCTTGATGAACAGTGAACAGCCTCAGGGC
GAGTATGGGGTTACTATTGCCTTTCTGCGCTTGATCACCACCCTTGTCAAGGGGCAACTTGGTAGTACCCAGAGC
CAAGGACTTGTACCCTGTGTAATGTTTGTGCTGAAGGAGATGCTTCCCAGCTACCATAAGTGGCGCTACAACCTCT
CATGGAGTGAGGGAACAGATTGGTTGCCTGATCTTGGAGCTGATTTCATGCGATACTGAACCTGTGCCACGAGACA
GACCTGCACAGCAGTCATACTCCAGCCTGCAGTTTCTCTGCATCTGCAGCCTGGCATAACACAGAAGCAGGACAG
ACAGTTATCAATATCATGGGCATTGGCGTGGACACCATTGACATGGTGATGGCTGCTCAGCCTCGAAGTGATGGG
GCAGAGGGCCAGGGGCAGGGCCAGCTGCTGATCAAGACAGTGAAGTGGCATTCTCCGTCACCAACAATGTTATT
CGGCTGAAACCTCCTTCTAATGTGGTGTCCCCCTGGAACAGGCTCTCTCACAACATGGTGCTCATGGAAACAAC
CTCATTGCTGTTCTAGCCAAATACATCTACCACAAACATGACCCTGCTTTGCCACGTCTTGCCATTGAGCTGCTG
AAACGTCTGGCCACGGTGGCCCCAATGTGAGTGTATGCTTGTCTGGGCAATGATGCGGCTGCCATTGCTGATGCC
TTCCTGACCCGATTGCAGAGCAAAATTGAGGACATGCGCATCAAAGTCATGATTCTAGAGTTCCCTCACTGTTGCA
GTAGAGACCCAGCCAGGCCTCATCGAAGTGTCTTCTGAACCTGGAAGTTAAGGATGGCAGTGATGGCTCAAAGGAA
TTCAGCCTTGGGATGTGGAGCTGTCTCCATGCAGTGCTGGAGCTGATTGATTCCCAACAGCAAGATCGATACTGG
TGCCACCCCTGCTGCATCGTGCCGCCATTGCCTTTTTTGCATGCTCTGTGGCAGGATCGGAGGGACAGTGCCATG
CTGGTCTCCGAACCAAAACCAAGTTTTGGGAAAATTTAACCAGTCCGCTGTTTGGAAACCTTTCTCCTCCCTCT
GAAACATCAGAGCCCAGCATCCTGGAAACCTGTGCCCTAATCATGAAGATAATTTGCTTGGAGATATACTATGTA
GTAAAGGGTTCATTAGACCAGTCATTAAAGGATACACTGAAGAAATTTTCATCGAGAAACGCTTTGCCTACTGG
TCAGGGTATGTCAAGTCATTGGCAGTTCACGTGGCCGAAACAGAAGGCAGCAGCTGCACCTCCTTGTTAGAGTAC
CAGATGCTGGTGTCCGCCTGGAGGATGCTTCTCATCATTGCCACCACTCATGCAGATATAATGCACCTGACTGAC
TCTGTGGTGCCTCGCCAGCTCTTTCTTGACGTGCTTGATGGAACCAAGCATTACTCCTAGTTCCAGCCTCAGTG
AACTGCCTTCGCCTTGGCTCCATGAAGTGCACCTGCTGCTTATCCTCCTCCGGCAGTGGAAGAGAGAGTTAGGT
TCTGTGGATGAAATCCTTGGACCCTTGACGGAGATCCTGGAGGGAGTGTGCAGGCGGACCAGCAACTCATGGAG
AAGACCAAGGCCAAGGTGTTCTCAGCATTTCATCACAGTGTGCAAATGAAGGAGATGAAAGTAAGTGACATCCCC
CAGTACTCCCAGCTGGTGCTGAATGTCTGTGAGACCTCCAAGAGGAAGTGATTGCACTCTTCGACCAGACCCGC
CACAGTCTGGCATTAGGCAGTGCCACAGAGGACAAGGACAGCATGGAGACTGACGACTGTTCTCGGTCCCCGGCAC
AGGGACCAGCGTGATGGGGTGTGTGTCCTGGGCCTGCACCTGGCCAAGGAGCTGTGTGAGGTAGACGAGGATGGT
GACTCCTGGCTGCAGGTAACCCGCAGGCTCCCCATCCTACCCACCCTCCTCACCCTCTAGAGGTGAGCCTTCGC
ATGAAGCAGAACTGCATTTCACTGAGGCCACATTGCATCTGCTCCTCACCCTGGCTCGCACTCAGCAGGGAGCC
ACAGCAGTGGCTGGAGCTGGCATCACCCAGAGCATTGTTTGGCCCTTCTGAGTGTGTACCAGCTGAGCACCAAC
GGCACAGCACAGACACCTAGTGCCTCTCGGAAGTCCCTGGATGCCCCCTCTTGGCCAGGAGTCTACCGCCTGTCC
ATGTCCCTGATGGAGCAGCTGCTCAAACTCTGCGCTACAACCTTCTGCTGAGGCCCCCTGGACTTCGTGGGTGTC
CACCAGGAGCGGACCTTACAGTGCCTCAACGCAGTGAGGACAGTGCAGAGTCTGGCCTGCCTGGAGGAGGCGGAC
CACACCGTGGGTTTTATTCTGCAGCTCTCTAACTTCATGAAGGAGTGGCACTTCCACCTGCCTCAGCTCATGCGT
GATATCCAGGTCAACCTGGGTTACTTGTGCCAGGCATGTACCTCTCTCCTGCACAGTCGAAAGATGCTGCAGCAT
TACTTACAGAACAAAAATGGGGATGGCCTCCCCCTCAGCTGTTGCCAGCGAGTCCAGAGGCCACCGTCTGCTGCT
TCTGCTGCCCCCTCCTCCTCAAAGCAGCCGCTGCTGACACAGAGGCATCAGAGCAGCAGGCCTTGACACAGTC
CAGTATGGCCTTCTCAAGATCCTCAGCAAGACGCTGGCAGCCCTGCGCCACTTACCCCAAGATGTCTGCCAGATT
CTGCTGGATCAGTCCCTGGACCTTGCTGAATACAACCTTCTGTTGCCCTGAGCTTTACCCTCCACCTTTGAC

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FIGURE 2784B

TCCGAAGTGGCCCCCTCCTTCGGGACCCCTTCTGGCCACAGTGAATGTGGCCCTCAACATGCTTGGAGAGCTGGAC
AAGAAAAAGGAGCCCCTCACCCAGGCAGTGGGGCTCAGCACACAGGCAGAAGGGACCAGGACGTTAAAGTCCCTC
CTGATGTTTACCATGGAAAAGTCTTCTACCTGCTCATCTCTCAGGCGATGCGGTACCTTAGGGACCCGGCTGTG
CACCCCCGGGACAAACAGCGGATGAAGCAGGAGCTCAGCTCTGAGTTGAGCACGCTGCTGTCCAGCCTCTCGCGC
TACTTCCGCCGGGGAGCCCCCAGCTCCCCTGCCACTGGTGTCTCCCTCGCCGCAGGGCAAGTCCACCTCTCTC
TCCAAAGCCAGCCCTGAGAGTCAGGAGCCTCTGATCCAGTTGGTGCAGGCGTTTGTCCGGCATATGCAAAGATAG
GGCAGTGCTGTTCTGCCCACCTACCCCTCTCCACCAGCCTACACTGCACCCTGGCTGGCAGGGGTGCTGCTGGCT
GCTAGGGCCTATACAATGGAGGGCACCTCCTGTCACCCCCCTCCCGGAGTAGCCACGACTCCAGCCACCACCCAC
TGACGTTATTTTTATACTAGATGAAGAGGTCAACAGCAGGCATGGGGAGCCGAGTCTTCTGTGCTCAGGTCCTCA
CGCTGCAGACGCCCCCTAGAGGAACTTTCCTTCCTTTCCAGCATTCCCCACAGCACTGCCGGCCAGGGGAGAGGC
GGCAGCCCAGCAGAGGGCTCTATGCACGGGTTTCAAACCTGTTTTCCACACTCTGTCTTTGCAGTTTTGGTAATT
CTGTGGTCTATTTATACAGATATTAAAATCTTGTTTATAG

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FIGURE 2785

MASGGGVRASGRAKMAAAAGGPCVRSSRELWTILLGRSALRELSQIEAELNKHWRRLLEGLSYYKPPSPSSAEKV
KANKDVASPLKELGLRISKFLGLDEEQSVQLLQCYLQEDYRGTRDSVKTVLQDERQSQALILKIADY YEEERTCI
LRCVLHLLTYFQDERHPYRVEYADCVDKLEKELVSKYRQQFEELYKTEAPTWETHGNLMTERQVSRWFVQCLREQ
SMLLEIIFLYYAYFEMAPSDLLVLTKMFKEQGFSGRQTNRHVLDETMDFVDRIGYFSALILVEGMDIESLHKCA
LDDRRELHQFAQDGLICQDMDCLMLTFGDIPHHAPVLLAWALLRHTLNPEETSSVVRKIGGTAIQLNVFYQLTRL
LQSLASGGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQQDIIDTACEVLADPSPLELFWGTEPTSGGLGIILDSV
CGMFPHLLSPLLQLLRALVSGKSTAKKVYSFLDKMSFYNELYKHKPHDVISHEGDTLWRRQTPKLLYPLGGQTNL
RIPQGTVGQVMLDDRAYLVRWEYSYSSWTLFTCEIEMLLHVSTADVIQHCQRVKPIIDLHVHVISTDLSIADCL
LPITSRIYMLLQRLTTVISPPVDVIASCVNCLTVLAARNPAKVWTDLRHTGFLPFVAHPVSSLSQMISAEGMNAG
GYGNLLMNSEQPQGEYGVTTIAFLRLITTLVKGQLGSTQSQGLVPCVMFVLKEMLP SYHKWRYNSHGVREQIGCLI
LELIHAILNLCHETDLHSSHTPSLQFLCICSLAYTEAGQTVINIMGIGVDTIDMVMAAQPRSDGAEGQGQGLLI
KTVKLAFSVTNNVIRLKPPSNVVSPLQALSQHGAGNNLI AVLAKYIYHKHDPALPRLAIQLLKRLATVAPMSV
YACLGNDAAAIRDAFLTRLQSKIEDMRIKVMILEFLTVAVETQPGLIELFLNLEVKGSDGSGSKEFSLGMWSC LHA
VLELIDSQQQDRYWC PPLLHRAAIAFLHALWQDRRDSAMLVLRTPKPFWENLTSPLFGT LSPSETSEPSILETC
ALIMKIIICLEIYYVVGSLDQSLKDTLKKFSIEKRFAYWSGYVKS LAVHVAETEGSSCTSLLEYQMLVSAWRMLL
IIATTHADIMHLTDSVRRQLFLDVLDTGKALLLV PASVNCRLGSMKCTLLLLILLRQWKSILSRELGSVDEILG
PLTEILEGVLQADQQLMEKTKAKVFSAFITVLQMKEMKVSDIPQYSQVLVNCETLQEEVIALFDQTRHSLALGS
ATEDKDSMETDDCSRSRHRDQRDGVCVLGLHLAKELCEVDEDGDSWLQVTRRLPILPTLLTTLEVSLRMKQNLHF
TEATLHLLLTARTQQGATAVAGAGITQSI CLPLLSVYQLSTNGTAQTPSASRKS LDAPS WPGVYRLSMSLMEQL
LKTLRYNFLPEALDFVGVHQERTLQCLNAVRTVQSLACLEEADHTVGFILQLSNFMKEWHFHLPQLMRDIQVNLG
YLCQACTSL LHSRKM LQH YLQNKNGDGLPSAVAQVRQRP PSAASAAPSSSKQPAADTEASEQQALHTVQYGLLKI
LSKTLAALRHFTPDVCQILLDQSLDLAEYNFLFALSFTTPTFDSEVAPSGTLLATVNVALNMLGELDKKKEPLT
QAVGLSTQAEGRTRLKSLLMFTMENC FYLLISQAMRYLRDPAVHPRDKQRMKQELSSELSTLLSSLSRYFRRGAP
SSPATGVLPSPQ GKSTSLSKASPESQEPLIQLVQAFVRHMQR

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FIGURE 2786

AATTTGGCCAGGCTGAGAAGACTGAGCTTGATGCCCACTTTGAAAACCTTCTGGCCCGGGCAGACAGCACCAAGA
ACTGGACAGAGAAGATCTTGAGGCAGACAGAGGTGCTGCTGCAGCCCAACCCAGTGCCCGAGTGGAGGAGTTCC
TGTATGAGAAGCTGGACAGGAAGGTCCCCCTCAAGGGTCACCAACGGGGAGCTGCTGGCTCAGTACATGGCAGACG
CGGCCAGTGAGCTGGGGCCGACCACCCCTATGGGAAGACACTGATCAAGGTGGCAGAAGCTGAAAAGCAACTGG
GAGCCGCGGAGAGGGGATTTTATCCACACGGCCTCCATCAGCTTCCTCACACCCTTGCGCAACTTCCTGGAGGGGG
ACTGGAAGACCATCTCGAAGGAGAGGGCGGCTCCTCCAAAACCGGGCTCTGGACTTGGATGCCTGCAAAGCGAGGC
TGAAGAAGGCCAAGGCTGCAGAAGCCAAAGCCACGTGTGAGGGAGATACGGTGCCTGACTTTCAGGAGACTAGAC
CTCGTAATTACATTCTCTCGGCCAGCGCCTCCGCGCTCTGGAATGATGAAGTGGACAAGGCCGAGCAGGAGCTCC
GCGTGGCCCAGACAGAGTTTGACCGGCAAGCAGAAGTGACCCGTCTCTTGCTGGAGGGAATCAGTAGCACTCACG
TGAACCACCTGCGCTGCCTCCACGAGTTCGTCAAGTCTCAGACAACCTACTACGCACAGTGCTACCGCCACATGC
TGGACTTGCAGAAGCAGCTGGGCAGCTCCAGGGTGCCATATTTCCCGGCACCTTCGTGGGCACCACAGAGCCCG
CCTCCCCACCCCTGAGCAGCACCTCACCCACCACTGCTGCGGCCACTATGCCTGTGGTGCCCTCTGTGGCCAGCC
TGGCCCTCCGGGGGAGGCCTCGCTCTGCCTGGAAGAGGTGGCCCCCCTGCCAGTGGGACCCGCAAAGCTCGGG
TGCTCTATGACTACGAGGCAGCCGACAGCAGTGAGCTGGCCCTGCTGGCTGATGAGCTCATCACTGTCTACAGCC
TGCTTGGCATGGACCCTGACTGGCTCATTGGCGAGAGAGGCAACAAGAAGGGCAAGGTCCCTGTCACCTACTTGG
AACTGCTCAGCTAGGCAGGTGCCCCCATCCCCCGCATTTCTGGCCTAGGCAGGAGAGGATGGGCGCAGCCCTGC
CACTTAACCTGTTTGTGTTGGTGACACAGTTGTTTCAAGTGGGGAGAATTACCCCCATTCTGTCCCTGCCCTAGTC
ACCTAGCTGTGAGGGTGCTGAGGCTGAATGGCTCCACCCCTCCCCAGCCCTGCTTCTGACCTGTGGCTCTGGA
GCCCCCTGCCCTGCCTGCATCCCCGAGCACCCACCCCTCCAGGCTCCACTAAGGAGGGAGGGGCTGTCTGCAGCA
GCTGCACTCAGCACCTAGGCCAGGGTGGGGCCGCCGAGATGGGCTCAGGAAGCCCCAGGTGCACTCAGCGAGAG
CCCTGCCTTTCAGTTGCCAAAAGCTGCATCAGGGGAATGCGGCAAGGCACACAGGGCTCTGGCAGCCCTGGGGA
CTGGGCGCTGCCCTGGGAGGGGAGAGCCTGGCCAGGGCTGGTGTGGGCCCGGAGCAGCATCTTCCGGTGCTAT
CCTCCCCCTCCACCCCTCACAGCTCAAGCCAAGTCCAGCGGCCG

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FIGURE 2787

ATGCGCCCCGCGCGCCCCGCACTGACATGGCCGTCGCCCCGGTTCCGCGCGTCCGCCGCGCGCCGGCCGTTAATAG
GCTTGCTCCCTGAGCGCCCCGCACCGACATGGCGGCCGTCTTCGCTGTGGTGACTTTAACTCTCGGTTTTTCGGTT
ATAGCCGGCCGGCGCTCACTTGTCTTCAGGAAGCTCGGAGCCCTTTGGTGGAGCCGGGGAGAGGAAGGGTGGGTGC
AAGAGTGAAAGGCGAGAGGGGACTGCAAGCATCCGGGTGCGCTCCTGGCCGGAGCAAGATGGCTGAGGGCGAGCG
GCAGCCGCCGCCAGATTCTTCAGAGGAGGCCCCCTCCAGCCACTCAGAACTTCATCATTCCAAAAAAGGAGATCCA
CACAGTTCAGACATGGGCAAATGGAAGCGTTCTCAGGCATACGCTGACTACATCGGATTCATCCTTACCCTCAA
CGAAGGTGTGAAGGGGAAGAAGCTGACCTTCGAGTACAGAGTCTCCGAGATGTGGAATGAGGTTTCATGAGGAAAA
GGAGCAGGCTGCAAAGCAGAGTGTGTCTGCGATGAATGCATACCATTACCCCGCGCCGGGCACTGTGCACCTTC
GGAGGCCATTGAGAACTAGTCGCTCTTCTCAACACGCTGGACAGGTGGATTGATGAGACTCCTCCAGTGGACCA
GCCCTCTCGTTTTGGGAATAAGGCATACAGGACCTGGTATGCCAACTTGATGAGGAAGCAGAAAACTTGGTGGC
CACAGTGGTCCCTACCCATCTGGCAGCTGCTGTGCCTGAGGTGGCTGTTTACCTAAAGGAGTCAGTGGGGAACCTC
CACGCGCATTGACTACGGCACAGGGCATGAGGCAGCCTTCGCTGCTTTCTCTGCTGTCTCTGCAAGATTGGGGT
GCTCCGGGTGGATGACCAAATAGCTATTGTCTTCAAGGTGTTCAATCGGTACCTTGAGGTTATGCGGAAACTCCA
GAAAACATACAGGATGGAGCCAGCCGGCAGCCAGGGAGTGTGGGGTCTGGATGACTTCCAGTTTTCTGCCCTTCAT
CTGGGGCAGTTCGCAGCTGATAGACCACCCATACCTGGAGCCAGACACTTTGTGGATGAGAAGGCCGTGAATGA
GAACCACAAGGACTACATGTTCTGGAGTGTATCCTGTTTTATTACCGAGATGAAGACTGGCCCATTTGCAGAGCA
CTCCAACCAGCTGTGGAACATCAGCGCCGTCCCTTCCTGGTCCAAAGTGAACCAGGGTCTCATCCGCATGTATAA
GGCCGAGTGCCTGGAGAAGTTCCTGTGATCCAGCACTTCAAGTTCGGGAGCCTGCTGCCCCATCCATCCTGTAC
GTCGGGCTAGGAGGGGCCAAGCCGAAGAGCCACCCAGGCCACAGTTCCTGTGCCTGCCTTCCCCACCCAGCAGT
GGCCCCTCCCCATCCCTCCCTCTGTTCTGTCCTCGTTTGGATGAGAGGCTGTTTACTGGGGTGGGGTGGCGAGATGG
GCTTGAGGGGGGCTCAGAGCATAAGGCTTCAGGGCCCAAGTTGGGAGAAGTGACCAAAGTGTAGCCAGTTTTCTGA
GTTCCCGTGTGCTAGACTGGCCAGAAGAGAGGGTCTGGGGCCTGGTCACTCGGCCACTCTCTCCTGTTTCTGGCC
TCTTCTCCCTTCACTCCCGTCCAGTCTGGTTTTTGAGAGCAGGGGCTGTTCTGCAGCACCGCAGGGAAGGGAGGAG
AGATACCTGCTGCTTCCATTGCTTTTTCCCTTCCTGGAGTCGATGCCTTTCTAAGGGTTGGAGCTGCTCCTTGCAG
GGGCGGGTCAGTTTTCCAGGCCATGCCGGGGTGGCCATCTATGGTAGGGCTGGAAGCTGAGGCTGGCCGCCAGCT
GTGGGCTGGGGTGGGGTGGGTGGGGTGGGTGGAGAGGCCCTTAGCTGTCCTGGCTGGTGGCCCCCTCCAGGCT
CCTTTTACCCCTGCCCCCTGGGCCTGAGGCCCCCTGTGTCCAAGCCTCCCCCTGGCTCTTCAGTTCTCTAGCCCT
TGGCTCTGCTGGGTTTTCTGACTGTAGCCACATCTCTCCCGCTCCCTAAGGGTAACCTAGCCAATGGAAGCTGCC
CTTTGGGTAGGTGCTGGGCTCCTGGGAGGGGCCAGATGATGGGGTGAGGCATGTCTTTCCAGAACTTTCCCTGGC
AGGGAGGGGATGGCAGAACTCAGGGAGGGGCTTGGGGCCATTGTATCTGGAGAGCCTGGATTCTCTTGGCAG
TCTTAGGCCCCGCCACTTCTGCTACCTTTGCGCTGCTGTGAGCCTCACCTGGGCCCCCTGGGCCCTGCTTCTCTG
CTCCCCTGGGTGATGGGTGGGCCAGAAAGGTGGCAGTCCACACCTTGTCTCTCCACCTCCCTGAACTGTCCATT
GCTTTTATAGGGTGAGGTAAGAGACAGCCTCCCAAGCCCAGGCTTTGGCACTCAGAAATGGGCCCAGTGGGGGCTG
GGCAGGCCCCATTGAGGGCCACCGCCGAGGTTTTCTCCTAGGGCTGTTCTGGGCCTGGCTCTTACAGGCTCGTCCC
CCAGGCCTGCCCTTCTCCACTGCCCCCTCCTGTGTCTGGGTCCACACACCCTTCAGGAAGGGGGAGCACTGAGAA
GCACAGCACAGGGGCTCAGCCTGGGATCCGGTGATGGTCTGGGCAGAGGCTGGGTGAGGAGTCCCAAAGGTCAGT
GACAGTTTCTCAGAAAGAGGGCCAGCGTCCACCTCTCTCCAGGGCCAGACAGCCCTTCTGGCTCCCCCATCCCC
CTATGGGCTCCCAGCCCCCTGCACCCTCATTGCTGTTCAGATTAAAGCCTCTGTTTTGCACCTGT

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FIGURE 2788

MSSKLLPAGAHLSGSSEPLVEPGRGRVGARVKGERGLQASGSAPGRSKMAEGERQPPPDSSSEEAPPATQNFII
PKKEIHTVPDMGKWKRSQAYADYIGFILTLNEGKKGKLTFEYRVSEMWNEVHEEKEQAAKQSVSCDECIPLPRA
GHCAPSEAIEKLVALNLTLDRWIDETPPVDQPSRFGNKAYRTWYAKLDEEAENLVATVVP THLAAVPEVAVYLK
ESVGNSTRIDYGTGHEAAFAAFLCCLCKIGVLRVDDQIAIVFKVFNRYLEV MRKLQKTYRMEPAGSQGVWGLDDF
QFLPFIWGSSQLIDHPYLEPRHFVDEKAVNENHKDYMFLCILFITEMKTGPFAEHSNQLWNI SAVPSWSKVNQG
LIRMYKAECLEKFPVIQHFKEGSLLP IHPVTSG

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FIGURE 2789

ATGGAGTGCGCCCTGGACGCCCAGAGCCTGATCAGCATCTCCCTGCGCAAGATCCACAGCTCCCGAACCCAGCGC
GGCGGCATCAAGCTGCACAAGAACCTCCTGCGCGCCCGCTTCGAGGACTTCTGCCCCGGACTCGTCCCCGGACGCG
TCCAACATCTCAAAC TTGATCTCCATCTTTGGCTCCGGCTTCTCGGGGCTGGTGAGCCGACAGCCGGACTCCTCG
GAGCAGCCGCCGCCGCTCAACGGGCAGCTGTGCGCCAAGCAGGCGCTCGCCAGCCTCGGCGCCTGGACTCGAGCC
ATTGTCGCCTTCTAG

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FIGURE 2790A

ACAGCACAGACAGATTGACCTATTGGGGTGTTCGCGAGTGTGAGAGGGAAGCGCCGCGGCTGTATTTCTAGAC
CTGCCCTTCGCCTGGTTCTGTGGCGCCTTGTGACCCCGGGCCCCCTGCCGCTGCAAGTCGGAAATTGCGCTGTGCT
CCTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCAACCTGGCTGGCAAG**ATGA**AGCTCTCCCTGGTGGCC
GCGATGCTGCTGCTGCTCAGCGCGGCGCGGGCCGAGGAGGAGGACAAGAAGGAGGACGTGGGCACGGTGGTCGGC
ATCGACCTGGGGACCACCTACTCCTGCGTCGGCGTGTTC AAGAACGGCCGCTGGAGATCATCGCCAACGATCAG
GGCAACCGCATCACGCCGTCCTATGTGCGCTTCACTCCTGAAGGGGAACGTCTGATTGGCGATGCCGCCAAGAAC
CAGCTCACCTCCAACCCCGAGAACACGGTCTTTGACGCCAAGCGGCTCATCGGCCGCACGTGGAATGACCCGTCT
GTGCAGCAGGACATCAAGTTCTTGCCGTTCAAGGTGGTTGAAAAGAAAATAAACCATAACATTCAAGTTGATATT
GGAGGTGGGCAAACAAAGACATTTGCTCCTGAAGAAATTTCTGCCATGGTTCTCACTAAAATGAAAGAAACCGCT
GAGGCTTATTTGGGAAAGAAGGTTACCCATGCAGTTGTTACTGTACCAGCCTATTTTAATGATGCCCAACGCCAA
GCAACCAAAGACGCTGGAACATTTGCTGGCCTAAATGTTATGAGGATCATCAACGAGCCTACGGCAGCTGCTATT
GCTTATGGCCTGGATAAGAGGGAGGGGGAGAAGAACATCCTGGTGTGTTGACCTGGGTGGCGGAACCTTCGATGTG
TCTCTTCTCACCATTGACAATGGTGTCTTCGAAGTTGTGGCCACTAATGGAGATACTCATCTGGGTGGAGAAGAC
TTTGACCAGCGTGTTCATGGAACACTTCATCAAACTGTACAAAAAGAAGACGGGCAAAGATGTCAGGAAAAGACAAT
AGAGCTGTGCAGAACTCCGGCGCGAGGTAGAAAAGGCCAAACGGGCCCTGTCTTCTCAGCATCAAGCAAGAATT
GAAATTGAGTCCTTCTATGAAGGAGAAGACTTTTCTGAGACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATG
GATCTGTTCCGGTCTACTATGAAGCCCGTCCAGAAAGTGTGGAAGATTCTGATTTGAAGAAGTCTGATATTGAT
GAAATTGTTCTTGTGGTGGCTCGACTCGAATTCCAAAGATTGAGCAACTGGTTAAAGAGTTCTTCAATGGCAAG
GAACCATCCCGTGGCATAAACCAGATGAAGCTGTAGCGTATGGTGTGCTGTCCAGGCTGGTGTGCTCTCTGGT
GATCAAGATACAGGTGACCTGGTACTGCTTGATGTATGTCCCTTACACTTGGTATTGAAACTGTGGGAGGTGTC
ATGACCAAACCTGATTCCAAGGAACACAGTGGTGCCTACCAAGAAGTCTCAGATCTTTTCTACAGCTTCTGATAAT
CAACCAACTGTTACAATCAAGGTCTATGAAGGTGAAAGACCCCTGACAAAAGACAATCATCTTCTGGGTACATTT
GATCTGACTGGAATTCCTCCTGCTCCTCGTGGGGTCCACAGATTGAAGTCACCTTTGAGATAGATGTGAATGGT
ATTCTTCGAGTGACAGCTGAAGACAAGGGTACAGGGAACAAAAATAAGATCACAAATCACCATGACCAGAATCGC
CTGACACCTGAAGAAATCGAAAGGATGGTTAATGATGCTGAGAAGTTTGCTGAGGAAGACAAAAGCTCAAGGAG
CGCATTGATACTAGAAATGAGTTGGAAAGCTATGCCTATTCTCTAAAGAATCAGATTGGAGATAAAGAAAAGCTG
GGAGGTAAACTTTCTCTGAAGATAAGGAGACCATGGAAAAAGCTGTAGAAGAAAAGATTGAATGGCTGGAAAGC
CACCAAGATGCTGACATTGAAGACTTCAAAGCTAAGAAGAAGGAAGTGAAGAAATTTGTTCAACCAATTATCAGC
AAACTCTATGGAAGTGCAGGCCCTCCCCAACTGGTGAAGAGGATACAGCAGAAAAAGATGAGTTG**TAGAC**ACTG
ATCTGCTAGTGCTGTAATATTGTAATACTGGACTCAGGAACCTTTGTTAGGAAAAAATTGAAAGAACTTAAGTC
TCGAATGTAATTGGAATCTTCACCTCAGAGTGGAGTTGAAACTGCTATAGCCTAAGCGGCTGTTTACTGCTTTTC
ATTAGCAGTTGCTCACATGTCTTTGGGTGGGGGGGAGAAGAAGAATTGGCCATCTTAAAAAGCAGGTAAAAAACC
TGGGTTAGGGTGTGTGTTACCTTCAAATGTTCTATTTAACTGGGTCAATGTGTCATCTGGTGTAGGAAGTTT
TTTCTACCATAAGTGACACCAATAAATGTTTGTTATTTACACTGGTCTAATGTTTGTGAGAAGCTTCTAATTAGA
TCAATTACTTATTTTAGGAAATTTAAGACTAGATACTCGTGTGTGGGGTGAGGGGAGGGAGTATTTGGTATGTTG
GGATAAGGAAACACTTCTATTTAATGCTTCCAGGGATTTTTTTTTTTTTTTTTTAAACCTCCTGGGCCCAAGTGA
TCCTTCCACCTCAGTCTCCCAGCTAATTGAGACCACAGGCTTGTTACCACCATGCTCGGCTTTTGCATTAATCTA
AGAAAAGGGGAGAGAAGTTAATCCACATCTTTACTCAGGCAAGGGGCATTTACAGTGCCCAAGAGTGGGGTTTT
CTTGAACATACTTGGTTTCCTATTTCCCTTATCTTTCTAAACTGCCTTTCTGGTGGCTTTTTTTAAATATTATT
ACTAATGATGCTTTTATAGCTGCTTGGATTCTCTGAGAAATGATGGGGAGTGAGTGATCACTGGTATTAACTTTA
TACACTTGGATTTCAATTTGTAACCTTTAGGATGTAAAGGTATATTGTGAACCTTAGCTGTGTGAGAATCTCCATCC
CTGAAATTTCTCATTAGTGGTACTGGGGTGGGATCTTGGATGGTGACATTGAAACTACACTAAATCCCCTCACTA
TGAATGGGTGTTTAAAGGCAATGGTTTGTGTCAAACCTGGTTTAGGATTACTTAGATTGTGTTTCTGAAGAAAAG
AGTCCAGGTAAATGGTATGATCAATAAAGGACAGGCTGGTGCTAACATAAAATCCAATATTGTAATCCTAGCACT
TTGGGAGGCCAAGGCGGGTGGATCACAAGGTCAAGAGATAGAGACCATCTTTGCCAACATGGTGAAACTCCATCT
CTACTGAAAATACAAAAATTAGCTGGGCGTGGTAGTGCAAGCTGAAGGCTGAGGCAGGAGAATCACTCGAACCCG
GGAGGCAGAGGTTGCAGTGAGCCGAGATCACACCCTGTACTCCAGCCCGGCACTCCAGCCTGGCGACAAGAGTG
AGACTCCACCTCAAAAAAAAAAAAAAGAATCCAATACTGCCCAAGGATAGGTATTTTATAGATGGGCAACTGGCT

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FIGURE 2790B

GAAAGGTTAATTCTCTAGGGCTAGTAGAACTGGATCCCAACACCAAACCTCTTAATTAGACCTAGGCCTCAGCTGC
ACTGCCCAGAAAAGCATTGTTGGGCAGACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATACAGCCATTAAAGA
TGACCTACAGTGCTGTGTACCCTGGGGCAATAGGGTTAAATGGTAGTTAGCAACTAGGGCTAGTCTTCCCTTACC
TCAAAGGCTCTCACTACCGTGGACCACCTAGTCTGTAACTCTTTCTGAGGAGCTGTTACTGAATATTAAAAAGAT
AGACTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2791

MKLSLVAAMLLLLSAARAEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERL
IGDAAKNQLTSNPENTVFDKRLIGRTWN DPSVQQDIKFLPFKVVEKTKPYIQVDIGGGQTKTFAPEEISAMVL
TKMKETA EAYLGKKVTHAVVTPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVFDL
GGGTFDVSLTIDNGVFEVVATNGDTHLGGEDFDQRVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALS
SQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVLVGGSTRIPKIQQLV
KEFFNGKEPSRGINPDEAVAYGA AVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQI
FSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKIT
ITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSDKETMEKAVEE
KIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

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FIGURE 2792

CCTAAGTCGCCGCAGAACTGCCACGTGGGGATGAGATTGCTGGGCTGGTAGCGGCGGCTGCTGCGGGGAGGTCC
CGCCCACGTGAAGCCAGCCTAACTGAGCTCTGGACTTTGGGGACAGCTGTCAGTGGCCTAGGCCGCAGGACACCAA
TGAAGCAACTGCCAGTCTTGGAACCTGGAGACAAGCCCAGGAAAGCAACATGGTACACCTTGACTGTCCCTGGAG
ACAGCCCCCTGTGCTCGAGTTGGCCACAGCTGTTTCATATTTACCCCCAGTTGGTAATGCCAAGAGAGGGAAGGTCT
TCATTGTTGGGGGAGCAAATCCAAACAGAAGCTTCTCAGACGTGCACACCATGGATCTGGGAAAACACCACTGGG
ACTTAGATACCTGCAAGGGCCTCTTGCCCCGGTATGAACATGCTAGCTTCATTCCCTCCTGCACACCTGACCGTA
TTTGGGTATTTGGAGGTGCCAACCAATCAGGAAATCGAAATTGTCTACAAGTCCTGAATCCTGAAACCAGGACGT
GGACCACGCCAGAAGTGACCAGCCCCCACCATCCCCAAGAACATTCCACACATCATCGGCAGCCATTGGAAACC
AGCTATATGTCTTTGGGGGTGGAGAGAGAGGTGCCAGCCGTGCAGGACACGAAGCTGCATGTGTTTGACGCAA
ACACTCTGACCTGGTTCACAGCCAGAGACACTTGGAATCCTCCATCTCCCCGGCATGGTCATGTGATGGTGGCAG
CAGGGACAAAGCTCTTCATCCACGGAGGCTTGGCGGGGGACAGATTCTATGATGACCTCCACTGCATTGATATAA
GTGACATGAAATGGCAGAAGCTAAATCCCACTGGGGCTGCTCCAGCAGGCTGTGCTGCCCCACTCAGCTGTGGCCA
TGGGAAAACATGTGTACATCTTTGGTGGAATGACTCCTGCAGGAGCACTGGACACAATGTACCAGTATCACACAG
AAGAGCAGCATTGGACCTTGCTTAAATTTGATACTCTTCTACCCCCTGGACGATTGGACCATTCCATGTGTATCA
TTCCATGGCCAGTGACGTGTGCTTCTGAGAAAAGAAGATTCCAACCTCTCTCACTCTGAACCATGAAGCTGAGAAAG
AGGATTCAGTTGACAAAGTAATGAGCCACAGTGGTGACTCACATGAGGAAAGCCAGACTGCTACACTGCTCTGTT
TGGTGTGTTGGTGGGATGAATACAGAAGGGGAAATCTATGACGATTGTATTGTGACTGTAGTGGACTAATAAAACC
CACATTTTTATTAAAAA

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FIGURE 2793

MKQLPVLEPGDKPRKATWYTLTVPGDSPCARVGHSCSYLPPVGNARGKVFIVGGANPNRSFSDVHTMDLGKHQW
DLDTCKGLLPRIEYHASFIPCTPDRIWVFGGANQSGNRNCLQVLNPETRTWTTPEVTSPPPSPRTFHTSSAAIGN
QLYVFGGGERGAQPVQDTKLHVFDANTLTWSQPETLGNPPSPRHGHVMVAAGTKLFIHGGLAGDRFYDDLHCIDI
SDMKWQKLNPTGAAPAGCAAHSAMGKHVYIFGGMTPAGALDTMYQYHTEEQHWTLCLKFDTLPPGRLDHSMCI
IPWPVTCASEKEDSNLTLNHEAEKEDSVDKVMSHSGDSHEESQTATLLCLVFGGMNTEGEIYDDCIVTVVD

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FIGURE 2794

CTTCCTCTTTCCCTCGGAGCGGGCGGGCGGCGTTGGCGGCTTGTGCAGCAATGGCCAAGATCAAGGCTCGAGATCT
TCGCGGGAAGAAGAAGGAGGAGCTGCTGAAACAGCTGGACGACCTGAAGGTGGAGCTGTCCCAGCTGCGCGTCGC
CAAAGTGACAGGCGGTGCGGCCTCCAAGCTCTCTAAGATCCGAGTCGTCCGAAATCCATTGCCCGTGTTCAC
AGTTATTAACCAGACTCAGAAAGAAAACCTCAGGAAATTCTACAAGGGCAAGAAGTACAAGCCCCCTGGACCTGCG
GCCTAAGAAGACACGTGCCATGCGCCGCCGGCTCAACAAGCACGAGGAGAACCTGAAGACCAAGAAGCAGCAGCG
GAAGGAGCGGCTGTACCCGCTGCGGAAGTACGCGGTCAAGGCCTGAGGGGCGCATTGTCAATAAAGCACAGCTGG
CTGAG

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FIGURE 2795

MAKIKARDLRGKKKEELLKQLDDLKVELSQLRVAKVTGGAASKLSKIRVVRKSIARVLTVINQTQKENLRKFYKG
KKYKPLDLRPKKTRAMRRRLNKHEENLTKKQQRKERLYPLRKYAVKA

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FIGURE 2796

GCCGTGTCGCCACC**ATGG**CTCCGCACCGCCCCGCGCCCGCGCTGCTTTGCGCGCTGTCCCTGGCGCTGTGCGCGC
TGTCGCTGCCCCGTCCGCGCGGCCACTGCGTCGCGGGGGGCGTCCCAGGCGGGGGCGCCCCAGGGGCGGGTGCCCCG
AGGCGCGGGCCCAACAGCATGGTGGTGGAAACACCCCGAGTTCCTCAAGGCAGGGAAGGAGCCTGGCCTGCAGATCT
GGCGTGTGGAGAAGTTCGATCTGGTGCCCGTGCCACCAACCTTTATGGAGACTTCTTCACGGGCGACGCCTACG
TCATCCTGAAGACAGTGCAGCTGAGGAACGGAAATCTGCAGTATGACCTCCACTACTGGCTGGGCAATGAGTGCA
GCCAGGATGAGAGCGGGGCGGCCGCCATCTTTACCGTGCAGCTGGATGACTACCTGAACGGCCGGGCCGTGCAGC
ACCGTGAGGTCCAGGGCTTCGAGTCGGCCACCTTCCTAGGCTACTTCAAGTCTGGCCTGAAGTACAAGAAAGGAG
GTGTGGCATCAGGATTCAAGCACGTGGTACCCAACGAGGTGGTGGTGCAGAGACTCTTCAGGTCAAAGGGCGGC
GTGTGGTCCGTGCCACCGAGGTACCTGTGTCTGGGAGAGCTTCAACAATGGCGACTGCTTCATCCTGGACCTGG
GCAACAACATCCACCAGTGGTGTGGTTCCAACAGCAATCGGTATGAAAGACTGAAGGCCACACAGGTGTCCAAGG
GCATCCGGGACAACGAGCGGAGTGGCCGGGCCCCGAGTGCACGTGTCTGAGGAGGGCACTGAGCCCGAGGCGATGC
TCCAGGTGCTGGGCCCAAGCCGGCTCTGCCTGCAGGTACCGAGGACACCGCCAAGGAGGATGCGGCCAACCGCA
AGCTGGCCAAGCTCTACAAGGTCTCCAATGGTGCAGGGACCATGTCCGTCTCCCTCGTGGCTGATGAGAACCCT
TCGCCCAGGGGGCCCTGAAGTCAGAGGACTGCTTCATCCTGGACCACGGCAAAGATGGGAAAATCTTTGTCTGGA
AAGGCAAGCAGGCAAACACGGAGGAGAGGAAGGCTGCCCTCAAACAGCCTCTGACTTCATCACCAAGATGGACT
ACCCCAAGCAGACTCAGGTCTCGGTCTCTCCTGAGGGCGGTGAGACCCCACTGTTCAAGCAGTTCTTCAAGAACT
GGCGGGACCCAGACCAGACAGATGGCCTGGGCTTGTCCTACCTTTCCAGCCATATCGCCAACGTGGAGCGGGTGC
CCTTCGACGCCGCCACCCTGCACACCTCCACTGCCATGGCCGCCAGCACGGCATGGATGACGATGGCACAGGCC
AGAAACAGATCTGGAGAATCGAAGGTTCCAACAAGGTGCCCGTGGACCCTGCCACATATGGACAGTTCTATGGAG
GCGACAGCTACATCATTCTGTACAACCTACCGCCATGGTGGCCGCCAGGGGCGAGATAATCTATAACTGGCAGGGTG
CCCAGTCTACCCAGGATGAGGTGCTGTCATCTGCCATCCTGACTGCTCAGCTGGATGAGGAGCTGGGAGGTACCC
CTGTCCAGAGCCGTGTGGTCCAAGGCAAGGAGCCCCGCCACCTCATGAGCCTGTTTGGTGGGAAGCCCATGATCA
TCTACAAGGGCGGCACCTCCCGCGAGGGCGGGCAGACAGCCCCTGCCAGCACCCGCTCTTCCAGGTCCGCGCCA
ACAGCGCTGGAGCCACCCGGGCTGTTGAGGTATTGCCTAAGGCTGGTGCAGTGAAGTCCAACGATGCCTTTGTTT
TGAAAACCCCCCTCAGCCGCTACCTGTGGGTGGGTACAGGAGCCAGCGAGGCAGAGAAGACGGGGGCCAGGAGC
TGCTCAGGGTGCTGCGGGCCCAACCTGTGCAGGTGGCAGAAGGCAGCGAGCCAGATGGCTTCTGGGAGGCCCTGG
GCGGGAAGGCTGCCTACCGCACATCCCCACGGCTGAAGGACAAGAAGATGGATGCCCATCCTCCTCGCCTCTTTG
CCTGCTCCAACAAGATTGGACGTTTTTGTGATCGAAGAGGTTCTGGTGAGCTCATGCAGGAAGACCTGGCAACGG
ATGACGTCTGCTTCTGGACACCTGGGACCAGGTCTTTGTCTGGGTTGGAAAGGATTCTCAAGAAGAAGAAAAGA
CAGAAGCCTTGACTTCTGCTAAGCGGTACATCGAGACGGACCCAGCCAATCGGGATCGGCGGACGCCCATCACCG
TGGTGAAGCAAGGCTTTGAGCCTCCCTCCTTTGTGGGCTGGTTCCTTGGCTGGGATGATGATTACTGGTCTGTGG
ACCCCTTGACAGGGCCATGGCTGAGCTGGCTGCC**TGAG**GAGGGGCGAGGGCCACCCATGTACCCGTCAGTGCC
TTTTGGAACTGTCCTTCCCTCAAAGAGGCCTTAGAGCGAGCAGAGCAGCTCTGCTATGAGTGTGTGTGTGTGT
GTGTTGTTCTTTTTTTTTTTTTTACAGTATCCAAAAATAGCCCTGCAAAAATTCAGAGTCCTTGCAAAATTGTC
TAAATGTCAGTGTGGGAAATTAAATCCAATAAAAAACATTTGAAGTGTG

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FIGURE 2797

MAPHRPAPALLCALSLALCALSLPVRAATASRGASQAGAPQGRVPEARPNMVEHPEFLKAGKEPGLQIWRVEK
FDLVPVPTNLYGDFFTGDAYVILKTVQLRNGNLQYDLHYWLGNECSQDESGAAAIFTVQLDDYLNGRAVQHREVQ
GFESATFLGYFKSGLKYYKKGGVASGFKHVVPNEVVVQRLFQVKGRRVVRATEVPVSWESFNNGDCFILD LGNNIH
QWCGSNSNRYERLKATQVSKGIRDNERSGRARVHVSEEGTEPEAMLQVLGPKPALPAGTEDTAKEDAANRKLAKL
YKVSNGAGTMSVSLVADENPFAQGALKSEDCFILDHGKDGKIFVWKGKQANTEERKAALKTASDFITKMDYPKQT
QVSVLPEGGETPLFKQFFKNWRDPDQTDGLGLSYLSSHIANVERVPFDAATLHTSTAMAAQHGMDDDDGTGQKQIW
RIEGSNKVPVDPATYGQFYGGDSYIILYNRYRHGGRQGQIIYNWQGAQSTQDEVAASAILTAQLDEELGGTPVQSR
VVQGKEPAHLMSLFGGKPMIYKGGTSREGGQTAPASTRLFQVRANSAGATRAVEVLPAKAGALNSNDAFVLKTPS
AAYLWVGTGASEAEKTGAQELLRVLRAQPVQVAEGSEPDGFWREALGGKAAYRTSPRLKDKKMDAHPPLRFACSNK
IGRFVIEEVPGELMQEDLATDDVMLLDTWDQVFVWVGKDSQEEKTEALTSAKRYIETDPANRDRRTPITVVKQG
FEPPSFVGWFLGWDDDYWSVDPLDRAMAEELAA

GTITAGTATTATTTTGAAGAACCAGCCACCTGGCCATGCTGTACACAGCCTTGCTGCTGAGTGCTGGGGATAAAGGAAC
AAATAAAACCCAGTCCAGGCTTCTGTGTGCCAGCCCTGTGCCGGGTCCCAGTGGGTAACAGCATGTCCAATCCC
CTCAGTGTCCACTAGAGGCTTCCTTTGGGGCTGCTGGGGACATCTTGTTTCTAGTTGAGAATTCAGATTTATGT
CCAAAGACAAGAACTCCCTGAGGGGCAGATTACAACATGGACTGGGCCATTACAATCAACAAGGACACAAAGCTA
ACACAGCCATCGTTATACACCAGACATGTGCTAAGGACTTGATTTCCCCATTGTTTAATCATCACCAACTCCATT
ATCACCCCCATTTACAGATGTGGAAACTGAGGCTGAGAAGAGTAAGGGACTTGTTCCAAGGGCACAGAGCAAGTC
AGGGCTACGGTGATGTTTCAGGCCCAGACCTGTTTGCCTCTGGAGCCCAGGGTTAACACACCCCAGTGCTGCTG
TGAAAGGGCTCTGGACAGCTCAGGCTGGCCGGCCAATTTCGGGGATAACCGAACAGAGGTATGGAACAGAAAGGGG
CGTTGAGGATGTTGCTGIGTGTGTGTCGGTGGGGGGAGTGACAAGGCTTCAGCAATGGTACTCATTCTCTCCAACC
AGCTCCCAGTGCTGCTGTCTCTGATCCACCCTCCGCTCTGCCTGCCATGGACTAATTGTTCTGAAATCCCATGG
ATCAAGTCACTCCTCAGCTGAGGACCTGTCCATGGCTCCCTGGTACCCAGAGGATAGAAACCCAGCATTCAAAC
CTCTCTAACCAGCTCCCCACCTCAACCCTCACACTCCTGCTCACTAGCCCCCAGGCGCAGTGGGCTCTTCCAGCG
GCCAAGCCTGTGCCTACGGTGCCTTCTTGCCTGGAATGCCCAACTCCCCCTTCTCAGCCTTCTTTGACTCTCAAG
TAAGGAAAAGCACTCTTTGTCTCCCTGAGCCCCCTTGGCACTTATCACAGAGCACTCTGGGCGTTAACTTCCACTG
TCTCCGTCTTGGATTAGAGTGGATCTCAGAGGGCCCGGTGGTGTCTGCTTCACCTCCCTCTCCACTGCAGCAGCT
TAGCAAGGACTGGCCGGGTAAACTAAAAAATGCAAAGAGCTGAGAGAATCCTGGGAAAGTGCACATTTCCAGGA
CTGCCCCAATGACAAGCCCCGTACCAAGGCACAGCATCAGGATACCCTGATGTGGAAGAACCAAAAATTGCACCCT
CATGGCTTATCAGGATGGTCCCTTGTGTCTGTCCCTTTCAGGGTCTGATAATGAAATCTGGGCAAGTCACCCTC
CTGCTTTAAACTTCCAATGGTTCCAGAGGTCTAGCATAAAAATCCAACTCAAGGGCCACATAACCTAGGTGC
TGCTGGCCCCCAGGCCCTCCTCTTGCCACGCCCCCTCCCTGGCCAGCCTCCCTCACTTCTTTAGTTTCTCTCA
GGACTCCCCCTCACTAAAGCCTTACCCAGGTGCGCTCTCTGCCTAGGGGGCTCCTCCATTCCCTGCTCACTCAGC
CACCTCCCTCTCCCTCTTCAGGTCTCACTTTTTAGGGGAGGCTTCCCTGATCTGTCCAGATAAGACCTCACCCT
CCCACCCAATCCCAAACGCTCCCATAACCTGATCGTTTCCCTTCACAGCAAGAATTAATCTTCAGTGTAAATAATG
ATCTACTGAAGACCTATGAGGAATGGGAAAGTCTTGTTTTTTGCTGATTCTTCAACACCCAGCTCAGAGCCTAAA
TATCTCTCAAATGAATGAATATATGAATGAATGAATGAATGAATGAATGAATGAATGAACCTATATACATAAATC
AAGACAAGAAGGTGGGCAGAATCCTAGGGAACACTGAGGCAGGAAAAGCAGGGCCCTGGGCCAGGCGTCATGGCT
CACACCTGTAATCCCAGCACTTTTGGGAGGCCAAGGCAGGCAGATCACTTGAGGTGAGGACTTTGAGACCAGCCTG
GCCAACATGGTAAAACCCCTGTCTCTACTAAAAACACAAACATTAGCCGGGTATGGTGGCACATGCCTGTAGTCCC
AGCTACTCAAGAGGCTGAGGCAGGAGAATCACTTGTAACCTGGGAGGAGGAGGTTGCAGTGAGCTGAGATCGTGCC
ACTGCACTCCAGCCTGGGCACCAAGCAAGACTCCGTCTAAAAAAAAAAAAAAAAAGAAAAAGAAAGAAAGAAAGAA
AAAGAAAACCAGGGCCCTAACTAAAAAAGACAGGAGGAAAAACAGGGCCCTAACTAAAAAGAGAGGAGGGGCCCT
AACTGAAAAAACAGGGCCCTAACTAAAAAAGTCAGGAGGAAAAACAGGGCCCTAACTAAAAAGAGAAGAGGAAA
TAAACCAGACAGTGCAGCCTCCCAGAAGCAAAAGGAGGGAGTTTCTGGAAGTGCCTAGAGACTGGCACATGGAG
TCCTGAGGAAAGAGCACTGGATTGGACATCGAGGAGTCACTGGGGCCTCCCTGATTGAACCAAGGTTCCGTGGA
GGTGGGCACAGGGCTGGTACATTGCAGGGGGCAGAGGAGTAAAGAGGGATGAATAAGCAAAGCTCTCAGGCGACG
GTTGCTCAGCTGGGTCTATGCCAGCCTGGCCCTGCAGGGTCTGCGGAAGACAGGGGCCCTGTGTCTATAGTCACCA
AAAGCATCAACAGAGCATAACATTCTTTTTGTTGACAGATTACATTGAGGCAACTTGGCTTTTGGAGTTATCAGG
GCTCAGTCTCAAAGGCAGATGCATCAGAGCCAAGACCCGGCCCTCAAGTCTCTCTATTAGGGCAGCACTAGGGCT
ACCTCTTTGTGACGAGAACCTTTGGATAGCCGCTGATGGGGTGAGTCAGCTTTCTGGGCCCGGCAGACCTTTTGG
GAATCCCTGGCTTTTGGGGCACAACATCCTGGGGACCACCAAAAAGCCCTTTCACCTGAGCTTTGGGAAAGAGGA
ACAGCTCCGGCTGTGGGTGGCTCATGTACCATCTGGAAGCCAGCTGGGGCCACAGCAGACGCGTAAGTCTGTAT
TCATTATCCCTTCTCCTTTTGGCAGAAAAGGGATGGCGTGGGTTGGAGGGGTGTTTTCTGGGTTCTTGCACA
ATTGCTCATTAGAAATTCATTCTGTTTGGGTGTTGGAAGCTGGGCGATTCCCCCTAGTAGTGATCCTTCTGTCT
TCCTGGTACACAAAGCCCTTTGGCATCTACAAGCTCGTTGGGTCCACACAGCAGCTTTGTTAGGTGGGTAGGGGG
AGACCAAGGCACCCATCCTACAGGTGGAGAAAACCGAGGCTGAAGCTGGGAGGTGAGCCAGTCTCCTGGCTTCCAG
CCCAGGACTCTGCACTCCTCCCCCACCTCCCCACCTACTTCAGCAGGTACCTGTGAATCTGATAGTCAGGTGG
GCCCCACCCTGCCAGCTGGCCCCACGCGGCATGACTCATCCGCTTCCCCATGACTCACACACCTCAGGTGCTCCT
CCTCTGGTCAACAAGTCCAGAGACTTGGCAAATGGACCCCCATTTTTCTCACCTCTCCAAAGCCTCTGGGAAGAA

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FIGURE 2798B

TTCCTGCACCTCCTCTTTATGGGGACTCTGCTCTTCTACAGAATAGCAACCAAGGCCTTGAGAGGGAAAGCAACT
CTCCTAAAGTCACATAGCAAGCAACCAGCACAGCCAGGGTGGGAGCCAGGCATCCGGGCACCGAGCCCAGTCCCG
GCCTCCTCCCTACAAGATCACTCTCGCCTGACCTCCCTCTCAAGGACAGGAAAGGAGCAGAGACGCACTCTGAGC
CTTATTAGGAAGACCTCAGGGACTCCCCTGAATCCACTGTGGCTACAGCGGCTGCTTCCACCACTGAAGTCCCC
TCCAGGCTTCCCTGGGCAGCCAGGGCGGGGTTTAAGAGGACGACAGGTGTCTGTATTGCTCTACCTACCTAACAA
GGCTGTGCAGGGTGAAGAGTGCTGCTCCGTGGGAAGGCGCTGGGACCAAGGCCGAAGCACTGGACAAAGAGAGCT
ATGAGCACTACCTGTAAACAAAGGGCACAGAATGTCAGCCTCAGGGGGAGTTCAAGGTCATCTGGTCAAATCCCC
ATTTGATGTTTCAACCCCTTTCTCCCTCCACCAGGGGTCACACAATCAGTACTTGACACATCCAGCAACACC
GCACTCACTACCTGCCAAGGCTGCAAGACCTGCTGCTGGAGGGTTTGGCTGCGTAAAAGAATTGTCCTAAGGATG
CACTAAAATCTCTCTCTTTATGCCTTGTAACCTGCTGGTATTAGCTCTGCCTCCTTTTGGGTCAGCCAGAACAG
GTCTGTCCCCCTCTTTCCTGATGGCTCTTTGGAGATTTGAAGACAGTGATCCTGGGCCCCCTCAAGTCTTCTACAA
ATTGTGCACCCCTTTCTCCAGCTCTTCTGAGACCAGGGTTTCCGGTTCGCTCACCTGTTCCTGATCTGCT
CCAGATGAAACCTGTCCCTACTGACAGCACAAAGACCCAGAATTAGACAATCAGTCAAGCTCTATCCAGGACAGGG
CAAGCAGGACTCTCACCTCCTTCATTAGAGATATCATGCTTCTATTAATTGAGCCTAAAATCCCATTTCATTTA
AGGCAGCCCTATTGCATGGCTGAATTCAGTTTACAGTCAACTTCAGAGCTGTACGTTAGTACTCTGAAGTTATAT
AAACTGGGCCCTCACTTAACTGTGTAACCTTGAGCAAGC

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FIGURE 2799

AGGATGGCAATGCCAGTGGAAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAATGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATGAA
TATTATCCCTAATACCTGCCACCCCACTCTTAATC

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FIGURE 2800

GTTTGCCGCCAGAACACAGGTGTCGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAA
CATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCAT
CGACAAAAGACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACATTGCAT
GCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAGCTGGAAGATGGCCCTAAATTCTTGA
AGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCAC
CTTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGG
CTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATGA

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FIGURE 2801

GCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTTCGGGCAAGTCCACCACT
ACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAG
ATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATA
ATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
GTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTTGTGCCAAATTCCTGAAGTCTGGTG
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTC
GCTTTGCTGTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTC

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FIGURE 2802

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTTGTGCCAATTT
CTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGGAACCACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGCCCAACTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAAGGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC
TTTGGGTCGCTTTGCTGTTGCTGATATGAGACAGACAGTTGCGGTGGG

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FIGURE 2803

CTTTTTCGCAACGGGTTTGGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGTTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTAAACAAA
ATGGATTCCACTGAGACCATCCAGGCCAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACATGGCTCACA
TTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATC

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FIGURE 2804

CTAAAAGCCAAAATGGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCCGGGCAAGTCC
ACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCT
GCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATC
ACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGA
GACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTTGGT
GAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAA
CAACTAATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAACTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAATGTGG

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FIGURE 2805

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCSSIDKRTIEKFEKETAEMGKGSFKYGWVLDKLKAERERGITIDI
SLWKFETSKYYYVTITDAPGHRDFIKNMITGTSQADCAVPIVAAGVGEFEAGISKNGQTREHALLAYTLGVKQLIV
GVNKMDSTEPYPYSQKRYEEIVKLVLVVFLLAEWRLVFSNPVWWSPLLQSTLQOK

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FIGURE 2806

ATGGCCCCAACAAAGCAAATGTCGGGGAGCTTCTTGCCATGCTGGACTCCCCCATGCTGGGTGTGCGGGACGACGTG
ACAGCTGTCTTTAAAGAGAACTCAATTCTGACCCTGGCCCTATGCTTGTAACACCTTGGTGGATTATTACCTG
GAAACCAGCTCTCAGCCGGCATTGCACATCTGACCACCTTGCAAGAGCCACATGACAAGCACCTCTTGACAGG
ATTAACGAATATGTGGGCAAAGCCGCCACTCGTTTATCCATCCTCTCGTTACTGGGTCAATGTCATAAGACTGCAG
CCATCTTGGAAGCATAAGCTCTCTCAAGCACCTCTTTTGCCTTCTTTACTAAAATGTCTCAAGATGGACACTGAC
GTCGTTGTCCTCACAACAGGCGTCTTGGTGTGATAACCATGCTACCAATGATTCCACAGTCTGGGAAACAGCAT
CTTCTTGATTTCTTTGACATTTTTGGCCGTCTGTCATCATGGTGCCTGAAGAAACCAGGCCACGTGGCGGAAGTC
TATCTCGTCCATCTCCATGCCAGTGTGTACGCACTCTTTCATCGCCTTTATGGAATGTACCTTGCAACTTCGTC
TCCTTTTTGCGTTCTCATTACAGTATGAAAGAAAACCTGGAGACTTTTGAAGAAGTGGTCAAGCCAATGATGGAG
CATGTGCGAATTCATCCGGAATTAGTGACTGGATCCAAGGACCATGAACTGGACCTCGAAGGTGGAAGAGATTA
GAAACTCATGATGTTGTGATCGAGTGTGCCAAAATCTCTTGATCCACAGAAGCCTCATATGAAGATGGCTAT
TCTGTGCTCACCAAATCTCAGCCCGCTTTCCTCATCGTTCAGCCGATGTCAACCACCAGCCCTTATGCTGACACA
CAGAATAGCTATGGGTGTGCTACTTCTACCCCTTACTCCACGTCTCGGCTGATGTTGTTAAATATGCCAGGGCAG
CTACCTCAGACTCTGAGTTCCCCATCGACACGGCTGATAACTGAACCACCACAAGCTACTCTTTGGAGCCCATCT
ATGGTTTGTGGTATGACCACTCCTCCAACCTCTCCTGGAATGTCCACCTGATCTGTACACCCCTTACAGTAAA
GTCTTTGGTACAACCTGCAGGTGGAAGGAACTCCTCTGGGAACCCAGCAACCTCTCCTCCTCCAGCCCCACTC
TGTCATTTCGGATGACTACGTGCACATTTCACTCCCCCAGGCCACAGTCACACCCCCAGGAAGGAAGAGAGAATG
GATTCTGCAAGACCATGTCTACACAGACAACACCCTCTTCTGAATGACAGAGGATCAGAAGAGCCACCTGGCAGC
AAAGGTTCTGTCACTCTAAGTGATCTTCCAGGGTTTTTAGGTGATCTGGCCTCTGAAGAAGATAGTATTGAAAAA
GATAAAGAAGAAGCTGCAATATCTAGAGAACCTTCTGAGATCACACAGCAGAGGCAGAGCCTGTGGTTCCTCGA
GGAGGCTTTGACTCTCCCTTTTACCAGACAGTCTCCAGGTTCTCAGCGGAAGACCCACTCGGCAGCCTCCAGT
TCTCAGGGCGCCAGCGTGAACCTGAGCCTTACACTCCTCCTGGACAAGCTTGGGCCTGACACACCAAAGCAA
GCCTTTACTCCCATAGACCTGCCCTGCGGCAGTGTGATGAAAGCCCTGCGGGAGACAGGGAATGCCAGACTTCT
TTGGAGACCAGTATCTTCACTCCAGTCTTGTAAATTCACCTCCGACGAGAGTGGGCTTTGGAAGCGGGCAG
CCTCCCCCGTATGATCATCTTTTTGAGGTGGCATTGCCAAAGACAGCCCATCATTTTGTATCAGGAAGACTGAG
GAGCTGTTAAAGAAAGCAAAAGGAAACACAGAGGAAGATGGTGTGCCCTCTACCTCCCCAATGGAAGTGTCTGGAC
AGACTGATACAGCAGGGAGCAGACGCGCACAGCAAGGAGCTGAACAAGTTGCCTTTACCCAGCAAGTCTGTCTGAC
TGGACCCACTTTGGAGGCTCTCCTCCTCAGATGAGATCCGCACCCTCCGAGACCAGTTGCTTTTACTGCACAAC
CAGTTACTCTATGAGCGTTTTAAGAGGCAGCAGCATGCCCTCCGGAACAGGCGGCTCCTCCGCAAGGTGATCAA
GCAGCAGCTCTGGAGGAACATAATGCTGCCATGAAAGATCAGTTGAAGTTACAAGAGAAGGACATCCAGATGTGG
AAGGTTAGTCTGCAGAAAGAACAAGCTAGATACAATCAGCTCCAGGAGCAGCGTGACACTATGGTAACCAAGCTC
CACAGCCAGATCAGACAGCTGCAGCATGACCGAGAGGAATTCTACAACCAGAGCCAGGAATTACAGACGAAGCTG
GAGGACTGCAGGAACATGATTGCGGAGCTGCGGATAGAAGTGAAGAAGGCCAACAACAAGGTGTGTCACTGAG
CTGCTGCTCAGTCAGGTTTCCCAAAGCTCTCAAAAGTGAAGTGGTCCAGCAGCAGATGGAGTTCTTGAACAGG
CAGCTGTTGGTTCTTGGGAGGTCAACGAGCTCTATTGGAACAACCTGCAGAACAAGCACTCAGATACCACAAAG
GAAGTAGAAATGATGAAAGCCGCCTATCGGAAAAGCTAGAAAAAAACAGAAGCCATGTTCTCCAGCAGACTCAG
AGGCTTGATACCTCCCAAAACGGATTTTGGAACTGGAATCTCACCTGGCCAAGAAAGACCACCTTCTTTTGGAA
CAGAAGAAATATCTAGAGGATGTCAAACCTCCAGGCAAGAGGACAGCTGCAGGCCGCAGAGAGCAGGTATGAGGCT
CAGAAAAGGATAACCCAGGTGTTTGAATTGGAGATCTTAGATTTATATGGCAGGTTGGAGAAAGATGGCCTCCTG
AAAAAACTTGAAGAAGAAAAAGCAGAAGCAGCTGAAGCAGCAGAAGAAAGGCTTGACTGTTGTAATGACGGGTGC
TCAGATTCCATGGTAGGGCACAAATGAAGAGGCATCTGGCCACAACGGTGAGACCAAGACCCCCAGGCCAGCAGC
GCCCCGGGGCAGTAGTGGAAGCAGAGGTGGTGGAGGCAGCAGCAGCAGCAGCAGCAGCTTCTACCCAGAGAAA
CCCCACACCAGAGGGCAGGCCATTACAGCAGTCGGTGGGAGACGACTATGGGAGAAGCGTCTGCCAGCATCCCC
ACCACTGTGGGCTCACTTCCAGTTCAAAAAGCTTCTGGGTATGAAGGCTCGAGAGTTATTTCTGTAATAAGAGC
GAGAGCCAGTGTGATGAGGACGGCATGACCAGTAGCCTTCTGAGAGCCTAAAGACAGAAGTGGGCAAAGACTTG
GGTGTGGAAGCCAAGATTCCCCTGAACCTAGATGGCCTCACCCGTCTCCCCGACCCCGACAGTGTGGACAG
CTACATATCATGGACTACAATGAGACTCATCATGAACACAGCTAA

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FIGURE 2807

MAQQANVGELLAMLDSFMLGVRDDVTAVFKENLNSDRGPMLVNTLVDDYLETSSQPALHIITTLQEPHDKHLLDR
INEYVGKAATRLSILSLLGHVIRLQPSWKHKLSQAPLLPSLLKCLKMDTDVVVLTTGVLVLITMLPMPQSGKQH
LLDFFDIFGRLSSWCLKKPGHVAEVYLVHLHASVYALFHRLYGMYP CNFVSFLRSHYSMKENLET FEEVVKPMME
HVRIHP ELVTGSKDHELDPRRWKRLETHDVVIECAKISLDPTEASYEDGYSVSHQISARFP HRSADVTTSPYADT
QNSYGCATSTPYSTSRMLLNMPGQLPQTLSSPSTRLITEPPQATLWSPSMVCGMTTPTSPGNVPPDL SHPYSK
VFGTTAGGKGTPLGTPATSPPPAPLCHSDDYVHISLPQATVTTPRKEERMDSARPCLHRQHHLNDRGSEEP PGS
KGSVTLSDLP GFLGDLASEEDSIEKDKEEAAISRELSEITTAEAEPVVPRGGFDS PFYRDSLPGSQRKTHSAASS
SQGASVNPEPLHSSLDKLGPDTPKQAF TPIDLPCGSADESPAGDRECQTSLET SIFTSPCKIPPPTRVGF GSGQ
PPPYDHLFEVALPKTAHHFVIRKTEELLKKAKGNTEEDGVPSTSPMEVLDRLIQQGADAH SKELNKLPLPSKSVD
WTHFGGSPPSDEIRTLRDQLLLLHNQLLYERFKRQQHALRNRLLRKVIKAAALEEHNAAMKDQLKLQEKDIQMW
KVS LQKEQARYNQ LQEQRDTMVTKLHSQIRQLQHDREEFY NQSQELQTKLEDCRNMIAELRIELKKANNKVCHTE
LLLSQVSQKLSNSESVQQQMEFLNRQLLV LGEVNELYLEQLQNKHSDTTKEVEMMKAAYRKELEKNRSHVLQQTQ
RLDTSQKRILELESHLAKKDHL LLEQKKYLEDVKLQARGQLQAAESRYEAQKRITQVFELEILDLYGRLEKDG LL
KKLEEEKAEAAEAAEERLDCCNDGCSDSMVGHNEEASGHNGETKTTPRPSSARGSSGSRGGGSSSSSELSTPEK
PPHQ RAGPFSSRWETTMGEASASIPTTVGSLPSSKSFLGMKARELFRNKSESQCDE DGMTSSLSESLKTEL GKDL
GVEAKIPLNLDGPHPSPTPD SVGQLHIMDYNETHHEHS

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FIGURE 2808

GCTCCGGTTGCCTCCGACCTCGGCGCTGGGCGGGCGCGCCGGGCCTGGGGAAGGGGCGGGCGCGGGGACCCGATG
CGCGGGAGCGGAGGCCGAGATGGCTTCGGCGGGAGGCGAAGACTGCGAGAGCCCCGCGCCGGAGGCCGACCGTCC
GCACCAGCGGCCCTTCCTGATAGGGGTGAGCGGCGGCCTGCCAGCGGGAAGTCGACCGTGTGTGAGAAGATCAT
GGAGTTGCTGGGACAGAACGAGGTGGAACAGCGGCAGCGGAAGGTGGTCATCCTGAGCCAGGACAGGTTCTACAA
GGTCCTGACGGCAGAGCAGAAGGCCAAGGCCTTGAAAGGACAGTACAATTTTGACCATCCAGATGCCTTTGATAA
TGATTTGATGCACAGGACTCTGAAGAACATCGTGGAGGGCAAAACGGTGGAGGTGCCGACCTATGATTTTGTGAC
ACACTCAAGGTTACCAGAGACCACGGTGGTCTACCCTGCGGACGTGGTTCTGTTTGAGGGCATCTTGGTGTCTA
CAGCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTCGTGGACACCGACTCCGACGTCAGGCTGTCTCGAAG
AGTTCTCCGGGACGTGCGCCGAGGGAGGGACCTGGAGCAGATTCTGACGCAGTACACCACCTTCGTGAAGCCGGC
CTTCGAGGAGTTCTGCCTGCCGACAAAGAAGTATGCCGATGTGATCATCCGCGAGGAGTGGACAATATGGTTGC
CATCAACCTGATCGTGCAGCACATCCAGGACATTCTGAATGGTGACATCTGCAAATGGCACCGAGGAGGGTCCAA
TGGGCGGAGCTACAAGCGGACCTTTTCTGAGCCAGGGGACCACCCTGGGATGCTGACCTCTGGCAAACGGTCACA
TTTGAGAGTCCAGCAGCAGACCCCACTGAGGGGCTGCCGAGCCTCAGGGCAGGTCTCCCGCCCGGCATGTGTGTTT
AGGGACTGAGCCTGGGGACGCCCACCCACACCCACTGCTTCCTCTCGGCGCACCCCAAGGGAGTGTAGCAGCGA
GGCCTTCCTCACTCAGGAGTGGAACCTCAGATGTGTCACTCAGACTCAACTTGCTGGGACACTGACAGGCGTTCC
TGAGGTTTTTCAGCCACTTAGGCTCGTTGCGGTTTAAAGATCCCTCTAGGTCAGTGAAGAAATGCCACAGAATGTGC
AGGAAGCCTGGGAGGCTTCTGTGAGGAATGTGAGGCACATTATTGGGGAAATTGAGGAGACAGCCTAGACACTGG
CTGGCCTGATGTTTTGTTGACAGTGAACCCACAGTGGGAGAGAGTTTTTTCCAGTCTGATCTGGTTCTTACACAC
TCACACACATAACTCAAAAGTTTTGTGAACAAGTACTTTCTTTTTTACATGTTACATGTCTCATGTTTTCTGT
TTTCTGTTTTATAACACAAGGCTGGTTGTGGCTACAAACCTAATTTTCATGACCCAGTGGTTTGCAGTCCAGCGT
GGCTTACACGGATATGGGGAGCCACTGAGGGATGTTTTCCCCCTTGCTTGTGCCTTAAAGGCAGAGAAGCGAGG
CGGATGCCCTGGAAGCACCCAGCATCACACCCAGGCTTGTGCGGGGCCAGGCTGGGAGCCCATGCAGTAGGGCAG
AAGGCAGCGGAGGCCAGGTCTGTCCCGCTGGAGAACAGCGTCCACGCAGTCCTGCCTGGGGTCAGGCCCTCACT
GACCCTCAGGGGAGCCCCCAAGGTGCTGTCTGTCTAGACAGGCTGTCCACCCCAAGGTGGCTAGTGGCCATATG
CAGGGAATGGTGCTTCTGGCTGTGGCACGCACTGGATCACCCAGGTCCAGCAGACATGGCCGCCCAAAGTCAGC
AAGCCTCCTTTGTGCTATGTGGAGCTCACAGCCTCACATGTGAACACCCGTGTCTGGGTTGCCTGGGGTGATCCT
CCCTCCTGCGTGGTGGCTGTCTCTGGAAAGCATCCCTTGCCGCTGCCATGGGCAGCCCCAGCCCCCGTCCGTCCA
GGCTCACCCACAGTAGTGATGCAGACGTGACGTGGGGGAAGGGGGCTGAGCCCTGTGGCTGGGTTCTGACAACCTG
TAACGGTTTTGTGCGAGCTTAGGCCCTTTGGAGGGAGAATCAATAAATAACAAACACCAACTAC

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FIGURE 2809A

TGAACAGGGAGAGGCCATGAAACAGTTTGACCTGAACTATGGAAGTGCCATCATTGAAAATTGCGGGTCCAGCCC
CGGGGAGGAGAGTGAGGTGGGTTCTATGGTGGGCGAAGGCTTCATCGAAGTCCTGACCAAGAAGCAGCGCCGCCT
GCTGGAGGAAGAGAGAAGAAAGAAGGAGCAGGCCGTGCAGGTGCCTGTCAAAGGTCGAGGCCTTTCTCTCCGTAT
TCCTCTCGATTTGCAAAAAAGCAGAACAACTTATGTCTGGAGCAAGGTGACGTGACCGTGCCTGGCAGCAGCCT
GGGCACTGAGATCTGGGAGAGCAGCAGCCAGGCTCTCCCTGTGCAGGCCCCAGCCAACGACTCCTGGAGGAAAGC
TGTCAGTGCCTTCAGCAGCACCGAGACTGGCTCTGCGGAGCAGGGTTTTAAGAGCAGCCAGGGAGATAGTGCGCT
TGACTTGAGTGCCGAGTCTCGGGAGTCGTCTGCGACCTCCTCGCAGCGCAGCTCCCCATATGGGACTCTGAAGCC
AGAGGAGATGAGCGGGCCCGGCTGGCGGAACCCAAGGCCGACAGCCACAAGGAGCAGGCTCCAAAGCCATCTGA
GCAGAAGGATTGAGAACAAGGCTCTGGACAGAGCAAGGAGCACAGACCAGGACCCATCGGCAACGAGCGTTCTCT
GAAAAACAGAAAGGGCTCGGAGGGGGCCGAGCGGCTGCAAGGGGCTGTCGTCCCGCTGTAAACGGGGTGGAGAT
TCACGTGGACTCCGTGCTGCCTGTGCCACCCATTGAATTTGGAGTCAGTCCAAAAGACTCCGATTTTCAGCTTGCC
ACCTGGTTCTGCCTCTGGTCTACTGGGAGTCCAGTTGTTAAACTTCAGGATGCCTTGCCAGTAATGCAGGGTT
AACACAGAGTATCCCCATCCTGCGGCGGGACCATCACATCCAGAGGGCCATCGGTCTCTCCCAATGTCTTCCC
CACCGCCGACCTTACTCTGAAGATGGAGTCTGCGCGCAAGGCTTGGGAAAACCTCCCCAGTTTGCCGGAGCAGAG
CTCTCCAGGCGGCGCTGGCTCAGGCATCCAGCCTCCATCCTCTGTGGGTGCCTCCAGCGGGGTCAACTACAGCTC
CTTCGGTGGAGTGTCCATGCCACCCATGCCTGTGGCCTCTGTAGCACCTTCTGCTTCTATGCCAGGCAGCCACCT
CCGCCCCCTGTACCTGGATGGCCATGTGTTTGCAAGTCAGCCCCGGCTGGTTCTCAAACGATACCTCAGCAGCA
GAGTTACCAACAGGCCCGCGCTGCCAGCAGATCCCGATCTCCCTTCACACATCTCTGCAGGCACAAGCTCAGCT
TGGACTGAGGGGTGGGCTTCTGTGTCCCAGTCCCAGGAGATCTTCAGCTCCTTGCAGCCCTTCAGATCTCAGGT
GTACATGCACCCAGCCTGTCACCGCCAGCACCATGATCCTCTCTGGGGGCACAGCCTTGAAGCCTCCATACTC
GGCGTTCCAGGCATGCAGCCCTTGGAGATGGTGAAGCCGCAGTCTGGCTCACCTACCAGCCCATGAGCGGGAA
CCAAGCCCTGGTCTACGAGGGCCAGCTCAGCCAGGCTGCTGGCCTGGGTGCCTCCAGATGTTGGACTCCAGCT
CCCACAGCTGACCATGCCACTGCCTCGGTACGGCTCCGGGCAGCAGCCACTGATCCTGCCCCAGTCTATTTCAGCT
GCCACCTGGGCAGAGCCTCTCCGTTGGGGCCCCCGAAGGATTCTCCGCCCGGTCCAGCCGCCAGTCTCTGAA
CACCAGCAGAGAGCCCTCTCAGATGGAGATGAAAGGCTTCCACTTTGCCGACAGTAAACAGAATGTCCCTTCAGG
AGGCCCCGTGCCATCGCCACAGACCTACAGGCCTAGCTCTGCTAGCCCCAGTGGGAAGCCCTCTGGATCAGCAGT
TAACATGGGCTCTGTGCAGGGACACTACGTGCAACAGGCAAAACAACGAGTGGATGAGAAACCCAGCCTGGGAGC
CGTGAAGCTGCAGGAGGCCCCCTCGGCTGCCTCCAGATGAAGCGAACCAGGAGCGATCAAGCCTCGGGCTGTCAA
AGTGGAGGAGAGTAAGGCCTGACAGTGCCTGGCTGCCACCTCGCTCTCCCTACTGAGGACGGTGCCGCCATGCG
GCCTCGACACAGCCGACACTCGGGAGCCTCACCAGATCCACCGTCCAAATGCGTGCCCGAGCTGAGAGACCTCC
CTCCTCTCCACTCCCGAAAGCTCCGTTGTCAACCAGCTTGACCCGTGGATATATGGCATTGACCCGCTTGCTTT
GATACGAAACAAAAAGCAGACGACTCCTTCATCCCATCTGCTCCTACCGTGACTGTGGAGTGACGCCTCCTGTG
CAGTGCAGATTTGCCCTCCCTGCCTCCTCCCTGTCTGCCGCGCAGCCAGGGCGCCTTCTCAGCAGTGCTTCCGG
CCCAGCCGCCCATCCCTAGGCACAGTGATTTGGCAGCAGGGTCATTTTACTTTGAGGCTTTTTGTTTTAAATGT
AGCCAAGGTTTTTACAAAGGGGAAAGGAAAAGAAAACAAAACGCAAGCTCCATGTGTATAGCTGAACTTTTATA
TGTTTCTTGCCAGCCCCCTCCGCTCCCTTCCATCTCTAGCCTCTGCTCTGTTTAGTTTGATACGTCAGTGCAGTAC
CTTAAGAGGTGACTCTTAAGAATGCATCCCCCTCCTGATTCTCAGCTGGTTACCCCTTGAGGTTATTTGCAAAAA
GAAAAGGAGGTTCTTGAGGGCACCGATTGCGAGCATTCGGTGCCTGGCTCCCCGCTGGGAAGCGATGGGGTGC
TCAGAGCAGCAGGCAGGTTGGGGGAGGGGGGGGTCA**TAGT**TGGGTTCCAGCTCCTGGCTTGATGAGCCCAGGGC
GCTTACAGGCAGCCCATGAAGTTGATGACAGTTTTAGCATGAGAATCACACAGGGTCCCTGTCTTGCGCTCCTCT
AAAGCCAGTGAGTGTGCTGGGCACCAGAGACAAATCATGGAGATGGCTGCTGGTGGCTCCCAGGTTGGCCAGAT
GGGGTGAGCTGACATAACACAGGCCCATCCCAGGCCCGTGGGCTCTGCTTCTGGGGCTCCATAACCTGCCCTGC
AGGGGTGCTGTGTTTTTACACATTTCTTTCCCTGAAGCCTTCTGTAACTGTCAATTTCTTCTCCTCTCTTCC
GGAGCCTGCTGCTTTCTCTGGACCTGTCTCCACCTCCCACACAGCTCATCGTGAACACCACTTGGTGATGGAGGG
AGTGGACCCGTGTGTGGTCCCCAAGTGAGGCCACTGGGAGTTTGTCTTTTCTCCTTTGCTTCACTCCCAGCAG
CAGACCCAGGTTGTGAGGACAGGAGGGCCTGAGCTAAGCAGTAGGCATCAGTCTCGTTTGTCTTCAGACGGCGGG
GGCAGGTCCAGGGTGAGGCTGGGTGGAGGGCTGACCAAGGTCCAAAGGGCCTGCGCAGCCTCCGGGAGGGCAGCT
TCTCCAGCCAGAGGCTTGTGTGAGCCATCGTGTGCTGGGCTTGTTTTTAAGTAAGAAACAAGGAAATCACTCCAG

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FIGURE 2809B

ATTCTGTCATTCCAAGGAAAGGGAAGGGGACAGTTCAGGTTTCTCAGCTGTTCTTAGGGGTCACTGAGCGTCTAC
CTCCTCCTCCAGAGGAGGCTGGCTCAGAACACCTAGAGGAGGGGGCCGGGGATGCACCCCCACCAGAGGCTGCC
TTCAGCGTCTCACGGGTGCAGGACAGCGCTCAGGCTTGGGCTCTAAGCTCTGTGTCTAGTGTAGAACATGGGGAA
GGAGCATCTTAGGAACTGCTGAAGTAACTTCTTACTGCTCTCACAATTCTAAGGAAGCGGGAGAACGGCCTCCTA
CCAACAGCGCCCACCCAGAGCTGCCTGGGAAAGGGCAGTTTTACTGAAAGGTGCTTTACTGTTACCTGCATCT
TTCAGCAGCTCCCCCTCCTGCCCTCACCTGGTCTTTTCCCTCTTTATCCCAAGCCTTTATGCTTGAGTCCCTTCCC
CAGGGGCTGCCCACCCGACAGTTCCAGGCATTCCCTACCTGAGCTTCTTGTCTGCTTTTCCCTTCTCCCACTGCAA
GCGGCTGCTTGTGGGGCCTGGGATGAGCCCTCTCTGTCCCCACCGGCCCTCCTTGCCAAGCCATTCCCTGGGTGAG
TTCAGGCCTGCGGGAGCCACACATTCATCTCCACCTGGACACTTGAGCCGCATGGCCAGACCCCTCCCACCTGAT
GCGGTGGTGCCTGTGATTTGTCAAAGAAAGCCTTCTGGATGCTGTTAAGATGTACCCTTCAGGTGAACCTGGTA
TCAGACCCACAGTACTTGCTGTTTGAGAAAAAATAAAAAACAAAAAGGTCACCTGTTCTCCAGCCCTTTTCTCTTA
CCTGGTATTTCTTCCCTTCTCCTCCCCACCCCAATAAAAAACAAAAACACTAGAAATTTATTTATATGTAT
TGATGTTGTAGGTCTAGGTGAAAAAAGAAAGTAAATGTTTCACTGCTCTATTTATATATAATGTCTGAATTAA
TTCTGTGCAGGAAAGGCCAGGAAATTGCATGTGAAGTTCCGTGCAGTCACCACCTGTGTGTGACCTGAGCTGCAG
TCTCTTCGCTGAGATGCAGGTTTTAAATGAGACTTGGGGGGCTGAGGGCAGGCCTCAGGCCTCCAGCGCCCCAA
CCCCCTCCTTGGTCTAATGAAATGCAGTTCTTAGTGCAGAGATGTTTTAAGGTGCAATATATCTCTTCTTTCCCG
TGGTTTTAGAGCCAAGCTCAAGGTAGTAGGACGTAGGGTCTTATTTTGTCTTCAAACCCCCATCCTCAGAGCGCA
GATACATGCAGAGGCTTCTGCCAGGATACCACGGGGCCTTAGTGGGAACAGGTGGAGACCAGCACTTCCCTTTCC
TGCTGCTGAGGTAGGGATTGGGGGCTCAGAACCCACTCACTTTTGCTGTAAAGTTGCCCTCCTGACGCTGGCA
GCTCTGCCCTTGGTCACTGGGGATGCGGCTCGTTGCTCAGCCACCAGTGGCCTTGCGGTATTGTCCACCATCCACT
AGAGTGGGATGAAGTCCAGAGTGTGGGTATACATCTCAGATGCCATCTACCCACTGGGGACTTCAATGCCAGCT
GCATTTGGTTTTGGTTTTCTTAACTGTTGGCTTCTCCCCACAGCGTTTTTTGTTTTTTTTTAAACATTCAATTTGT
TTTCAAACCTTGAATTCATAGACACTCTGGCTCTAGGTTCCCTAAGGGGGAAAAACAAAAGATGACTTTATTTTAC
ATTCAAGAAAATCAGTTCAGTTCCAAAGCTGTGGTCTTCCAGCCACTTCTAGGGACACTGGGGAACCTTGTTAA
ACGTTGACATCAGTGCTCTCCAGCCGTGCTGTACCCCTCCTATCTTCTGGAICTGCCCTTCGCGATGGTCAGTGAC
AGCTTCTGGAAGCTGAGCACACACAGGTGCACAGCCATGCTGTGGTCTGGCCTGCTACGGCAGCATGGCAGCTCT
GGTGGAGCCTTCTCCCTTGCCATTTGGTTCCCCCTGTGCCAAGTAGCTGCAGGCTGCCCCCTCAAATCTTCAATTTGT
CCCTTTTCACTTCTCTGCAGAACAGCCTGGGTAGAGGGTCTGCTGGAAATGGCCTTTGAAGACCAAGGATACCA
GGATGTGTGCACTCTGTGCTGTTCTGTGATGAATGGGAAACGTAGGCTTCCAGAAAGCCAGCTCTCTTCTGAAAT
GTGACGGACCTAAGCAGGAAGTCATCCAGGACAGGAGTGGCTCAGTGTTGGGGATGGACGCTGTCGCCAGCCAT
GCTCCACCAGGGCCACCAATGTGTAGTTGGCTGGTGGTCTTCGGGCATGTGAGACCTGCTCTTCACTGTTTCCAC
CCCCTTGGTGGCCTCCAGGATGGTAGTGGCACCCCTCAGAGCCCCATCTTCAGCATGTTCTGAAGCCTCAGAGTG
GAAATTCCTGCTAAGGCTCTGTGTGGACGCCTTCTCCCGTGATCTAAAGGGGACACTGTACTCAAGCTTTTGAC
CTCATGCCTTGTGTAGTAAAAAAGGATTTGGGGGTTTTGTTTGGTTCCCTGAGAGGGTTGTGTTTTGTTTTGTTT
CCTTTTGTATGTTTTGGCCTTCTCTCTTGTCTTCCATGTAGACCAGATATTTGAAAGGGCAGACGATGGCT
AGAGGTGTAATGTGCAGCTTGTGTTATACGGTATTTTGGGAACTTACCTTGATGGGAAATCGAATCGTGATTTC
ACCAGGCCGGTGCTGGCACACTCACCCCTCGCCCTTCCCTCCGGTTCAGTACCTATTGTTTCTCTTTCAAATAT
GTGATTGTACTAGCTCTTCCATATGAAAGAATCTCCTTATTTAAATAAAAAAGTTTTAAAGAT

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FIGURE 2810

MKQFDLNYGSAIIENCGSSPGEESEVGSMVGEGFIEVLTKKQRRLLEEERRKKEQAVQVPVKGRGLSSRIPPRFA
KKQNNLCLEQGDVTVPGSSLGTEIWESSQALPVQAPANDSWRKAVTAFSSTETGSAEQGFKSSQGDSGVDLSAE
SRESSATSSQRSSPYGTLKPEEMSGPGLAEPKADSHKEQAPKPSEQKDSEQGSGQSKEHRPGPIGNERSLKNRKG
SEGAERLQGAVVPPVNGVEIHVDSVLPVPPIEFGVSPKDSDFS LPPGSASGPTGSPVVKLQDALASNAGLTQSIP
ILRRDHHIQRAIGLSPMSFPTADLTLKME SARKAWENSPSLPEQSSPGGAGSGIQPPSSVGASSGVNYSSF GGVS
MPPMPVASVAPSASMPGSHLPPLYLDGHVFASQPRLVPQTIPQQQSYQQAAAAQQIPISLHTSLQAQAQLGLRGG
LPVVSQSQEIFSSLQPF RSQVYMHPSLSP PSTMILSGGTALKPPYSAFPGMQPLEMVKPQSGSPYQPM SGNQALVY
EGQLSQAAGLGASQMLDSQLPQLTMPLPRYGSQQPLILPQSIQLPPGQSLSVGAPRRIPPPGSQPPVLNTSREP
SQMEMKGFHFADSKQNVPSGGPVPSPTYRPSASP SGKPSGSAVNMGSVQGHYVQQAQQRVDEKPSLGAVKLQE
APSAASQMKRTGAIKPRAVKVEESKA

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FIGURE 2811

CTCACCTCCCGGAGGCTCTGCTGGTGCAGGCCCGCATTTGGAGGGCTCGATTGGCTGCCCCGGCTGGCACTGACGT
CCCCTTGGAGCTGGGTGGCAGAGGAGATAAACAGCCATGTGCAACTCTCCACACTATATTTAACAGCTGCGGCGG
AGAAGGCAGGGAGGCAGCCACGGTGGCGGCTCTGGGGGCAGCTCTTGCTTTGCGGGGAGAAGGCCCTTGGAGCCGG
GCTGGCATCGGCCCTTCTCGGGGTGAGCGAGGTCACCATGCCAGCTTCCCAGAGCCGGGGCCCGTGCCCCGGGACCGC
AACAACTCCTCAACCGGGCTGAGTTCCCTGTCCCTGAACCAGCCCCCAAGGGGGGCCCCGGAGCCCCGCAGCTCG
GGCAGAAAGGCCTCGGGCCCATCAGCACAGCCCCACCTGCTGGTGACGGGGCCAGAGAGCGACGCCAGTCACAG
CAGCTGCCAGAGGAGGACTGC**ATG**CAGCTGAACCCCTCCTTCAAGGGCATCGCCTTCAACTCCCTGCTGGCCATC
GATATCTGTATGTCCAAGCGGCTGGGGGTGTGCGCTGGCCGGGCGGCGTCTGGGCCAGTGCCCCGCTCCATGGTC
AAGCTCATCGGCATCACGGGCCACGGCATCCCCGGATCGGAGGCACCATCCTCTGCCTGGTGAAGAGCAGCACA
CTGGCCGGCCAGGAGGTGCTCATGAATCTGCTCCTGGCCCTGCTCCTGGACATCATGACGGTGGCCGGCGTGCAG
AAGCTCATCAAGCGGCGCGGCCCGTACGAGACGAGCCCCAGCCTCCTGGACTACCTACCATGGACATCTACGCC
TTCCCGGCCGGGCACGCCAGCCGCGCCGCCATGGTGTCCAAGTTCTTCTCAGCCACCTGGTGTGGCGGTGCC
CTGCGTGTGCTGCTGGTGTCTGGGCCCTCTGCGTGGGCGTGTCCCGCGTGATGATCGGCCGCCACCACGTCACG
GACGTCCTCTCCGGCTTTGTATCGGCTACCTCCAGTTCCGTCTGGTGGAGCTGGTCTGGATGCCCTCCAGCACC
TGCCAGATGCTCATCTCTGCCTGG**TGA**AGCGCCCCGCCGGCCACACAAGCCTCTGGGGGCAGGGCTGGCCCTAGA
GAAGGGGCAGGGGGTGGCGAGGTGGCGGGCGTGGGTGGAACAGAGCGGCCAGGAGTCAGAGCGGCCACCCCCACC
TCATCTTCCCCCTCCTGGCTGGAGGCTGGCGAAGCCAGGCCACCCCTCCCGGAGACAAGCGTGTTTGGCAGTGCCA
GGCCTCTTGCCCCCTTTGCTTGACTCCAAGTCTCCTCTCTAGGCAGCCAGGACCCACCCATGGGGACAGCCCTAT
TTAGCTTCTGCTCTGGGAACAGCAAAAATCAGGATGGTGGGAGGGGCGGAGTCTTGCTTTGCTCTTTCATCATCA
TGACTGTTGAGTTCTTGCTGTGCCCATCACGCCACAGCACGACGCCTGCCAAAATGCCCCAACCTACTGCCTG
ATGCAGGTGCCATTGCCATTAGCGGTATCGACAGCTTAGGGCAGCACTTTCCAACGGGTGCCCATGGGACACCA
GCCTGCGAGATGCTTTTGGGGGAAAGGGGTTTTGTGGTTCAATAACTTTCGGAAGTGCTGCACACTCTGTCCCCA
AGTTGGACATTACAAAGGCCGTTATTGCCGTAAAGGCTCTGACAAGCCCTATAGAAAAGCTTCTTGCTAAACCT
TCTTTAAGCCATGTTTTCTAAACTTATTTGACCACAGAACCCTTTTCTTGGGGAACAGCTATTAACCCCCAAGGA
ATTATTGGTTCCCTCAAGTGCGTTTTGGGAGCTGCTGCCAGAGAGCTAAAGGGCCTGGGGTGTGAGCTGACTCTCC
TCTGGGGAGGCCGGGTGCACACGCCACAGCCGAGGAAAGTGCTGGCCACCGCCCGTGGGCATCGATGAGGCTTT
GGCCCCAGGGGCCGACTCCGTGTGACCTAATAGGTCGTTTCCAAGTCACCCGTTTTGGATGTGCATTTTCATGT
GACAATACAGATGACATGCAAATGG

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FIGURE 2812

MQLNPSFKGIAFNSSLAIDICMSKRLGVCAGRAASWASARSMVKLIGITGHGIPWIGGTILCLVKSSTLAGQEV
MNLALLALLDIMTVAGVQKLIKRRGPYETSPSLLDYLTMDIYAFPAGHASRAAMVSKFFLSHLVLAVPLRVLLVL
WALCVGLSRVMIGRHHVTDVLSGFVIGYLQFRLVELVWMPSSCQMLISAW

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FIGURE 2813

GGCCAAGGGATTGCTGCAGCCCTCATCCACCTTCCAAGCACTGGAAACAAACATTGGAGACCAAGGTCTCCAGAA
GCTTCCACTGACTGCTGTTGGCTGCACCAGGCAACAGGGTCTGGCTCTGTCACCCAGGCTGGAGTGCAATGGTAT
GATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAT
TACAGGTCCAGCTGGGAGCTCCCCGACCTCCAGGAGGGCAAGATCCAAGCCATCAGCGACTCGGATGGGGTGAAC
TACCCCTGGTACGGCAACACCACAGAGACCTGCACCATCGTGGGCCCCACCAAGAGGGACTCCAAGTTCATCATC
AGCATGAATGACAACTTTTACCCAGCGTCACATGGGCGGTGCCCGTCAGCGAGAGCAACGTGGCCAAGCTCACC
AATATCTACCGGGACCAGAGCTTCACCACCTGGCTGGTGGCCACCAACACCTCCACCAACGACATGATCATCCTG
CAGACGCTGCACTGGCGCATGCAGCTCAGCATCGAGGTGAACCCCAACCGGCCCTGGGCCAGCGCGCCCGGCTG
CGGGAGCCCATCGCCCAGGACCAGCCCCAAATCCTGAGCAAGAATGAGCCCATCCCGCCCAGCGCCCTGGTCAAG
CCCAATGCCAACGATGCCCAGGTCTCATGTGGCGGCCCAAGTACGGGCAGCCGCTGGTGGTGATCCCGCCCAAG
CACCGGTGACAGCCAGGACCACCCGCTAGGTTAGACTCACAAATAATA

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FIGURE 2814

MNDNFYPSVTWAVPVSESNVAKLTNIYRDQSFTTWLVATNTSTNDMIILQTLHWRMQLSIEVNPNRPLGQRARLR
EPIAQDQPKILSKNEPIPPSALVKPNANDAQVLMWRPKYGQPLVVIPPKHR

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FIGURE 2815A

GCTTCAGGTCAAATTAGGGCTTTGGGTCAAATCAGGGCTACCTGGTCTGGGAGAGGCACACTTCTAACTGCTGAT
GCCACCTCAAAGGGTCTCCAGAAGCTTCCACTGACTGCTGTTGGCTGCACCAGGCAGTGAGTATCAGTACATTT
AATCATCACAAAAACCGGGCAGGCAGATGTTGGCGGATTGTCTGTGGGCTGCTGAAGAGCTGGTAGAGCTCAGCG
CGTCTGTGACTGGACCACAGTGCAGTAGCTGGGGCTGACAGTGGACCCTGGGCTGCTGCACCCGCTGCAACCCC
CAGGTGGAGGGATCCACGCAGCCTGGTGACGATTTGGCCCTGGCCCTGAGCCATGCCCCGCTGACGCAGTGCTG
TCTGCCAGCCTGGGAGGCTCCTCACCTGTCTTTGCCTGAGCCAGGGCCTGGGAGTTTCAGGACTGGGAAAGGAAA
GAAAACCCCAAGGCTGGGGTCAGGAAGAGGAGGGCTATTTTGTCTGCTCAGTCCTGCTCCCCCAAACCAGACCTTC
AGCTCTTTGCAAACGAAAGAGGGGGCAAGGCCAAAGCGGGGTTCTTATGCAAGTTTGCTTCTGCCCCTGAAAAA
CCAAAAAACGGAACCTTTTCCAAGCAAGTGTAAGCACTGTGTGAGGACAGAGTGGGCGTTTCTTCTGAAATA
GGAGACTAGGCCCCCAGTGGGCAAAGAGACCCTGACCCGCTTCTCCATCTGTGCGGGGAATGAATGAGCAGGCT
CACCTGTTGTCTATCCTGCCTGCTGCTGTGGGGCCCCCTAGATCTTAGGAATTGCTGGGTACTTCCGGACAGTG
AGGTTGTCTGAGCTGCCTGCAGGTTCCCTGAGTCTGGGTACTCAGGGGCTGGGCAGGAGATGCCCATTAAGCAGG
TGTTACTCTAATGAGTGAGCTTTTCAATGAGATGAACAGGAAAATTAGCAAAATCATGTTCTTAATCATTCCTCC
TGCGGCGGCCCCAATTTTGCTAACTGTTAACATTATATGATGCATAAGTAGGGGAATGCATTTTTTAAATTTATGG
TAAAGCCTATGTAACATTTTATAAAATTGACCATTTTATTTTATTATTAATTTTTTTTTTTTTTAAAGACAGGGTCT
GGCTCTGTCACCCAGGCTGGAGTGCAATGGTATGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGA
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGCCTGTGTTGGAACATCCTTCTTCTTAAGGCTGAAGA
ACATTCCATTGTCCAGCTGGGAGCTCCCCGACCTCCAGGAGGGCAAGATCCAAGCCATCAGCGACTCGGATGGGG
TGAACCTACCCCTGGTACGGCAACACCACAGAGACCTGCACCATCGTGGGCCCCACCAAGAGGGACTCCAAGTTCA
TCATCAGCATGAATGACAACTTTTACCCAGCGTCACATGGGCCGTGCCGTGAGCGAGAGCAACGTGGCCAAGC
TCACCAATATCTACCGGGACCAGAGCTTACCACCTGGCTGGTGGCCACCAACACCTCCACCAACGACATGATCA
TCCTGCAGACGCTGCACTGGCGCATGCAGCTCAGCATCGAGGTGAACCCCAACCGGCCCCCTGGGCCAGCGCGCCC
GGCTGCGGGAGCCCATCGCCAGGACCAGCCCAAAATCCTGAGCAAGAATGAGCCCATCCCGCCAGCGCCCTGG
TCAAGCCCAATGCCAACGATGCCAGGTCCTCATGTGGCGGCCAAGTACGGGCAGCCGCTGGTGGTGATCCCGC
CCAAGCACCGGTGACAGCCAGGACCACCGCTAGGTTAGACTCACAAATAATAATACCGCTGAAAACAAAACCTCA
GACTCACTCTTCAGTCATTTCAGCAAGATACAACCATTTACCTCTCCAGCGGGCGGATCTCACTGTGCTGATGC
CCCCGGGAAGGCCTCCCCGGCTCTCGGCACCTGCTTCCCTTCAGGGAGAGGGGAGATCTAAGCAGGACAGACAGA
CCCCACGTGCGCCCTCAGGGTGACCTCTGGTCTCCTTGCCCTCTCCTTTTCTCAGTTTCAGTCGCTCACTTGTA
CAGATTCCCTGAAACACTGCTTTTTCCGTTTTTAAAAAACTCCTCTTTTGGGGGCTCAGGGGCAGGAGGAGGG
GGAGCTGATTAGGAGGGAAGCTCCAGCCCCGATCAAAGAGACAGATCCACACTGCTGCCGATTTGTGGCGCTGG
CCGGCCTTCCCCCAGGTCCCTCCGCCCTCTGTCTATGCGGCCTTATGTAGACTTGCTTTGCCAACTTTTGCCCTT
AAGCTGAATTGAAAGGAAGAAAACCAATCGGAGAAAGAAAGCAGGATCTCTTTTCTACCGGACTTTTCTCTTCT
GCCAGAGGTGGAGGGAGGGTTGGGGTCGCGCGCAGAGTCTCTTGAGCCCTTCTTCCCGGTTGTCTTGGGAGAAG
GGTGAGGATGGGCATTTAGACCCGAAACCAGCTGCTCACTCTTTCTTTTGGCAGAAATAAAACCACAGGTAGAT
TCTGCCTGAACAGCCCTTCTCTCCCTCCACCCCAAGGTCGTATCCCTGCACCTGCGGAGAGGGGCTGTGAGCTC
TGGCGGGGGGTGGCTCCACCAGTCGCCTGGCCTCTTCTCCCTCTCTTCCCAGCAGCCTTAACCTTCCCTTGGGCG
GCTCTAGGAGGAGAGAGGCAGGCTCCTGTGAGCCCAGGGAATTTTACCCTCTCAGTCCTCAGGACCCACCCCCA
GTTGAGTCCCTGGCCCTTCTCCAGGTGTGTGGCTTTTTTCTTCTCCATCCACACTGGTCCCAAATGCCTGGGGG
CCGGCCACCTGGACCGCCGACACACAGCCTCAATGTTAGTCTCAAAGGTAAGGAAGGCATTACGTCCCTTCTTG
CAGGGCATTTTAAGACTTGAATCGGGTGGGCCCCGGCCCCCTGTGGCTGGCTGGCCCCCTGGTGTACTGTAAAGGG
CCAAGACAGGGCTCGTTCTCAGGGGCGCCCCCTCCAGGCCCTCAGGGCAGCGGGACGGTGCAGTCAGGCTCTGGG
TGCCACAGTGATGGAGGTGGAAGGCACCAAGCTCTAGGGAAGTCTTGGGAGGCAGTCGGCCGAGCCCCCTGCTTC
CTGTCTCTCAAATAAGTGAATCCAGGCCAAGGGCTGGGAGGGCTGGGTGGGCTTATCGTCGAGAGGGTTCAAGACC
ACTCTGGAGGCTGGGCTGGCACAGTGGAGAGCAACAGGTGAGGACAGACGTCTGGAAGCCCATCCCTGGGACCTG
CCCTCCCTCGGTCCCAGGTCACTGGAGCTCAGGGCTTACTTAGTCTGACCCATTGTGCCAGGGTTCTGAGCAG
TGTCGGCCTTGTGGCCACTTGACAGGGGCTATTAGGGGACATCCCGCTGAAGCCACGCTCCTTCCAGCTTGCCAAA
CCCACAGCTACCCGCCGGGACCCACACTCAGCCTAATAATTATCAAGCACAGAAAACCGTCCATTTAGAAAAAT
AATCCATTTCTGCTGCAGATGAGCCACTTGTAAGAGTCTCCGTGACAGCGTGGGACGGTGTGGGAACCAAAGTCC

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FIGURE 2815B

CTGCCCTGCTCCTTTGTCCACGGGCTATTGCGTTTATTCAAGGGGTGCTTAATGACCGTTTAGCCACTGCCGTCG
GTCTCCGGGGCCAGCTCGTGCCAGGAGGCTGTCTGGGACACACTGGGCTGGAGCTGCCGGCTGGCACGGTGCTC
AGGGGGCCCCCTGATGGGGGCCAGGACCTCCCCGCAGAACTGCAGGTTCTCTTGAGGATGGAGGCCGTGCCAC
CCCGAAAGGCAGTAGCCTTAGGGGAACAGTGGGTCCCAGCTGCATGTCTGAGGATGGGTGGGGACAGGGCTGGGA
CTCAGCTTTTCATTCACTGGAGACTTCTCCACTCAGGTCTTTGTTGCACTAAAGCAGGGACAGGACCCTGGGGGTT
CAGGAAGCGGGTCTCAGGCCGCTGGTTTATTCTGGAGGTGGGGCTGGAGACCAGAATGGAAAGGGGCTTCCTGA
GCTGCTAGGGGGTGAAGGACCCCCGAACCCGCATTTCTTGAGTGAGAGCAAACACTCGAGGCAGGAGCCAGCACC
CCTCCCCTGCATGCCCCGGCCCCCAGCCCCACCTTGCCCCCTGACCCACCTTCACCCGTGCCCCCTTCTTTCTGCC
TTCCTCACCGAAGAAGGGCTAGGAACACCCTGGAGAGGCTGCAGGTCCGGCCACGGACGCTCAGCTGAGCCCCG
TCTGCTCCTTCAGCCTCCTTGCTCATGTTGGAGCACAGGCCCCAGGCTTCCTGCCAGGGCCCCGATTCTTCTTAT
GTCTCCAGCCCCGCCCTGGCGTGGACATCCACTCACTCCTTCCAGCAATAAGAACCGTCCTTGGTCGTGGAGAG
TACTGTGAAACAAACCAATGCACTTACCAGGAGGCACAAGACTCTTGAAGAAGATGTACAATGAACCTTTTTTTT
TTTACAAAAACAAAAAGCAAATATTCATAAAGAGAAATAAAATGTAATTTTAAAGT

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FIGURE 2816

MNDNFYPSVTWAVPVSESNVAKLTNIYRDQSFTTWLVATNTSTNDMIILQTLHWRMQLSIEVNPNRPLGQRARLR
EPIAQDQPKILSKNEPIPPSALVKPNANDAQVLMWRPKYGQPLVVIPPKHR

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FIGURE 2817A

AGGGGAGGAAGTTTGCTGTCGAGCGGCCTGGGTTCCTGGGCAAGGCCGTGGGAGGCAGCGTTGGCTGCTTCGAC
ACACTGAGGGCGGCGCGATGGGAGACGAGATGGATGCCATGATTCCCGAGCGGGAGATGAAGGATTTTCAGTTTA
GAGCGCTAAAGAAGGTGAGAATCTTTGACTCCCCCTGAGGAATTGCCAAGGAACGCTCGAGTCTGCTTGCTGTGT
CCAACAAAATATGGTCTGGTCTTCGCTGGTGGAGCCAGTGGCTTGCAAGATTTTTCTACTAAAAATCTTCTTATTC
AAAAATAAACCCGGAGATGATCCCAACAAAATAGTTGATAAAGTCCAAGGCTTGCTAGTTCCCTATGAAATTCCCAA
TCCATCACCTGGCCTTGAGCTGTGATAACCTCACACTCTCTGCGTGCATGATGTCCAGTGAATATGGTTCCATTA
TTGCTTTTTTTTGATGTTTCGCACATTCTCAAATGAGGCTAAACAGCAAAAACGCCCATTTCCTATCATAAGCTTT
TGAAAGATGCAGGAGGCATGGTGATTGATATGAAGTGGAACCCCACTGTCCCCTCCATGGTGGCAGTTTGTCTGG
CTGATGGTAGTATTGCTGTCTGCAAGTCACGGAAACAGTGAAAGTATGTGCAACTCTTCCTTCCACGGTAGCAG
TAACCTCTGTGTGCTGGAGCCCCAAAGGAAAGCAGCTGGCAGTGGGAAAACAGAATGGAAGTGTGGTCCAGTATC
TTCCTACTTTGTCAGGAAAAAAAAGTCATTCTTGTCTCCGTTTTATGAGTCAGATCATCTGTGAGAGTTCTGG
ATGTGCTGTGGATTGGTACCTACGTCTTCGCCATAGTGTATGCTGCTGCAGATGGGACCCTGGAAACGTCTCCAG
ATGTGGTGATGGCTCTACTACCGAAAAAAGAAGAAAAGCACCCAGAGATATTTGTGAAGTTTATGGAGCCCTGTT
ATGGCAGCTGCACGGAGAGACAGCATCATTACTACCTCAGTTACATTGAGGAATGGGATTTAGTGTGGCAGCAT
CTGCGGCTTCAACAGAAGTTAGTATCCTTGCTCGACAAAGTGATCAGATTAATTGGGAATCTTGGCTACTGGAGG
ATTCTAGTCGAGCTGAATTGCCTGTGACAGACAAGAGTGATGACTCCTTGCCCATGGGAGTTGTCTGAGACTATA
CAAACCAAGTGGAATCACCATCAGTGATGAAAAGACTCTTCTCCTGCTCCAGTTCTCATGTTACTTTCAACAG
ATGGTGTGCTTTGTCCATTTTATATGATTAATCAAAATCCTGGGGTTAAGTCTCTCATCAAAACACCAGAGCGAC
TTTCATTAGAAGGAGAGCGACAGCCCAAGTCACCAGGAAGTACTCCCACTACCCCAACCTCCTCTCAAGCCCCAC
AGAAACTGGATGCTTCTGCAGCTGCAGCCCCCTGCCTCTCTGCCACCTTCATCACCTGCTGCTCCCATGGCACTT
TTTCTTTGCTTCTGCTGGTGGAGCCCCCACTGTGTTCTCCTTTGGTTCTTCATCTTTGAAGTCATCTGCTACGG
TCACTGGGGAGCCCCCTTCATATTCCAGTGGCTCCGACAGCTCCAAAGCAGCCCCAGGCCCTGGCCCATCAACCT
TCTCTTTTGTTCCTCTTCTAAAGCCTCCCTAGCCCCCACCCCTGCAGCGTCTCCTGTGGCTCCATCAGCTGCTT
CATTCTCCTTTGGATCATCTGGTTTTAAGCCTACCCTGGAAAGCACACCAGTGCCAAGTGTGTCTGCTCCAAATA
TAGCAATGAAGCCCTCCTTCCCACCTCAACCTCTGCTGTCAAAGTCAACCTTAGTGAAAAGTTTACTGCTGCAG
CTACCTCTACTCCTGTTAGTAGCTCCCAGAGCGCACCCCCGATGTGCGCATTCCTTCTGCTCCAAAGCCAGCTG
CTTCTGGACCACTCAGCCACCCCAACCTCTCTCAGCACCACTAGTTCCGTGCCATTGAAGTCCTCAGTCTTGC
CCTCACCATCAGGACGATCTGCTCAGGGCAGTTCAAGCCAGTGCCCTCAATGGTACAGAAATCACCCAGGATAA
CCCCCTCAGCGGCAAGGCCAGGCTCTCCCCAGGCAAGTCACCTCAGCCTGCTGTTGCAGAAAAGCAGGGACATC
AGTGGAAGATTTCAGATCCTGTAATGGCTGGAATTGGGGAGGAGATTGCACACTTTCAGAAGGAGTTGGAAGAGT
TAAAAGCCCGAAGTTCCAAAGCCTGTTTCCAAGTGGGCACCTCTGAGGAGATGAAGATGCTGCGAACAGAATCAG
ATGACTTGCATACCTTTCTTTTGAGATTAAAGAGACCACAGAGTCGCTTCATGGAGATATAAGTAGCCTGAAAA
CAACTTTACTTGAGGGCTTTGCTGGTGTGAGGAAGCCAGAGAACAAAATGAAAGAAATCGTGACTCTGGTTATC
TGCATTTGCTTTATAAAAGACCACTGGATCCCAAGAGTGAAGCTCAGCTTCAGGAAATTCGGCGCCTTCATCAGT
ATGTGAAATTTGCTGTCCAAGATGTGAATGATGTTCTAGACTTGGAGTGGGATCAGCATCTGGAACAAAAGAAAA
AACAAAGGCACCTGCTTGTGCCAGAGCGAGAGACACTGTTTAAACACCCTAGCCAACAATCGGGAAATCATCAACC
AACAGAGGAAGAGGCTGAATCACCTGGTGGATAGTCTTCAGCAGCTCCGCTTTTACAAAACAGACTTCCCTGTGGA
GCCTGTCTCGGCTGTTTCTTCCCAGAGCAGCATTCACAGTTTTGACAGTGACCTGGAAAGCCTGTGCAATGCTT
TGTTGAAAACCACCATAGAATCTCACACCAAATCCTTGCCCAAAGTACCAGCCAAACTGTCCCCCATGAAACAGG
CACAACTGAGAACTTCTTGCCCAAGAGGAAGACCCCACTGAGATCCACTGCTCCAGCCAGCCTGTCTCGAT
CAGCCTTTCTGTCTCAGAGATATTATGAAGACTTGGATGAAGTCAGCTCAACGTCATCTGTCTCCAGTCTCTGG
AGAGTGAAGATGCACGGACGTCTGTAAAGATGACGAGGCAGTGGTTTCAGGCCCCCTGGGCACGCCCCCGTGGTTT
GCACTCCTTCCATCCAGCCCAGTCTCTTGCCCCATGCAGCACCTTTTGCTAAATCTCACCTGGTTTATGGTTCTT
CACCTGGTGTGATGGGAACCTCAGTGGCTACATCTGCTAGCAAAATTATTCCTCAAGGGGCCGATAGCACAAATGC
TTGCCACGAAAACCGTGAAACATGGTGCACCTAGTCTTCCACCCCATCTCAGCCCCGAGGCAGCTGCCGAG
CAGCACTCAGGCGGCAGATGGCCAGTCAGGCACCAGCTGTAAACACTTTGACTGAATCAACGTTGAAGAATGTCC
CTCAAGTGGTAAATGTGCAGGAATTGAAGAATAACCCTGCAACCCCTTCTACAGCCATGGGTTCTTCAGTGCCCT
ACTCCACAGCCAAAACACCTACCCAGTGTGACCCAGTGGCTGCTAACCAAGCCAAGCAGGGGTCTCTAATAA

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FIGURE 2817B

ATTCCCTTAAGCCATCTGGGCCTACACCAGCATCCGGTCAGTTATCATCTGGTGACAAAGCTTCAGGGACAGCCA
AGATAGAAACAGCTGTGACTTCAACCCCATCTGCTTCTGGGCAGTTTCAGCAAGCCTTTCTCATTTTCTCCATCAG
GGACTGGCTTTAATTTTGGGATAATCACACCAACACCGTCTTCTAATTTCACTGCTGCACAAGGGGCAACACCCT
CCACTAAAGAGTCAAGCCAGCCGGACGCATTCTCATCTGGTGGGGGAAGCAAACCTTCTTATGAGGCCATTCTCTG
AAAGCTCACCTCCCTCAGGAATCACATCCGCATCAAACACCACCCAGGAGAACCTGCCGCATCTAGCAGCAGAC
CTGTGGCACCTTCTGGAAGTCTCTTTCCACCACCTCTAGTAAGCTGGAACCCACCGTCCAAGCTGGGAGAGC
TTCTGTTTCCAAGTTCTTTGGCTGGAGAGACTCTGGGAAGTTTTTTCAGGACTGCGGGTTGGCCAAGCAGATGATT
CTACAAAACCAACCAATAAGGCTTCATCCACAAGCCTAACTAGTACCCAGCCAACCAAGACGTCAGGCGTGCCCT
CAGGGTTTAATTTTACTGCCCCCCCCGCTGTTAGGGAAGCACACGGAGCCCCCTGTGACATCCTCTGCAACCACCA
CCTCAGTAGCACCACCAGCAGCCACCAGCACTTCTCAACTGCCGTTTTTGGCAGTCTGCCAGTCACCAGTGCAG
GATCCTCTGGGGTCATCAGTTTTTGGTGGGACATCTCTAAGTGTGGCAAGACTAGTTTTTTCATTGGAAGCCAAC
AGACCAATAGCACAGTGGCCCCATCTGCCCCACCACCAACTACAGCTGCCACTCCCCTTCCAACATCATTCCCCA
CATTGTCAATTTGGTAGCCTCCTGAGTTCAGCAACTACCCCCCTCCCTGCCTATGTCCGCTGGCAGAAACACAGAAG
AGGCCACTTCATCAGCTTTGCCTGAGAAGCCAGGTGACAGTGAAGTCTCAGCATCAGCAGCCTCACTTCTAGAGG
AGCAACAGTCAGCCCAGCTTCCCCAGGCTCCTCCGCAAACCTTCTGACTCTGTTAAAAAAGAACCTGTTCTTGCCC
AGCCTGCAGTCAGCAACTCTGGCACTGCAGCATCTAGTACTAGTCTTGTAGCACTTTCTGCAGAGGCTACCCCCAG
CCACCACGGGGGTCCCTGATGCCAGGACGGAGGCAGTACCACCTGCTTCTCCTTTTTCTGTGCCCTGGGCAGACTG
CTGTACAGCAGCTGCTATCTCAAGTGCAGGCCCTGTGGCCGTCGAAACATCAAGTACCCCCATAGCCTCCAGCA
CCACGTCCATTGTTGCTCCCGGCCCATCTGCAGAGGCAGCAGCAATTTGGTACCGTCACTTCTGGCTCATCCGTCT
TTGCTCAGCCTCCTGCTGCCAGTTCTAGCTCAGCTTTCAACCAGCTCACCAACAACACAGCCACTGCCCCCTCTG
CCACGCCCCGTGTTTGGGCAAGTGGCAGCCAGCACCCGCACCAAGTCTGTTTGGGCAGCAGACTGGTAGCAGCCA
GCACAGCAGCTGCCACACCACAGGTGAGCAGCTCAGGGTTTAGCAGCCAGCTTTTGGTACCACAGCCCCAGGGG
TCTTTGGACAGACAACCTTCGGGCAGGCCTCAGTCTTTGGGCAGTCGGCGAGCAGTGTGCAAGTGTCTTTTCT
TCAGTCAGCCTGGGTTTCAAGTCCGCTGCCTTCCGTCAGCCTGCTTCTCCTCCACTCCCACATCCACCAGTGAA
GTGTCTTTGGTGCCGCTCAAGTACCAGTAGCTCCAGTTCCTTCTCATTGAGCAGTCTTCTCCCAACACAGGAG
GGGGGCTGTTTGGCCAAAGCAACGCTCCTGCTTTTGGGCAGAGTCTGGCTTTGGACAGGGAGGCTCTGTCTTTG
GTGGTACCTCAGCTGCCACCACAACAGCAGCAACCTCTGGGTTTCAAGTCTTTGGCCAGCAATCATCTCTTCCA
GTAATACTGGTTCTGTGTTTGGTCAAGCAGCCAGTACTGGTGAATAGTCTTTGGCCAGCAATCATCTCTTCCA
GTGGTAGCGTGTTTGGGTCTGGAAACACTGGAAGAGGGGGAGGTTTCTTCAAGTGGCCTTGGAGGAAAACCCAGTC
AGGATGCAGCCAACAAAACCCATTTCAGCTCGGCCAGTGGGGGCTTTGGATCCACAGCTACCTCAAATACCTCTA
ACCTATTTGGAAACAGTGGGGCCAAGACATTTGGTGGATTGCCAGCTCGTCGTTTGGAGAGCAGAAACCCACTG
GCACTTTTCAGCTCTGGAGGAGGAAGTGTGGCATCCCAAGGCTTTGGGTTTTCTCTCCAAACAAAACAGGTGGCT
TCGGTGCTGCTCCAGTGTTTGGCAGCCCTCCTACTTTTGGGGGATCCCCGGGTTTGGAGGGGTGCCAGCATTCCG
GTTTCAGCCCCAGCCTTTACAAGCCCTCTGGGCTCGACGGGAGGCAAGTGTTCGGAGAGGGGACTGCAGCTGCCA
GCGCAGGAGGATTGCGGTTTGGGAGCAGCAGCAACACCACATCCTTCGGCACGCTCGCGAGTCAGAATGCCCCCA
CTTTTCGGATCACTGTCCCAACAGACTTCTGGTTTTTGGGACCCAGAGTAGCGGATTCTCTGGTTTTTGGATCAGGCA
CAGGAGGTCTGTCCAGGGTTTTTGGTGGCTGGCGAAGCTGAGGGCGTGTGAGCAGGCCTTTTCGATCCCTGGGACCA
ACCGCATCCTCAGCTTCTTCCCCGAGAAATGCTGGAGCAGGCTGTTTCAGACCGACGTTGCCATCAAAACACATAC
ACCCAGAAAGAAACAACAGAAACCAAACTCACAAAGGCGCATGATTACTTGTATTTATTTTCATGTTGGGTTTTTC
CCTCCCACTATTAAACAGTCTGTTTCCGTAC

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FIGURE 2818

GCCGGAGCCCCGACCAGGCGCCTGTGCCTCCTCCTCGTCCCTCGCCGCGTCCGCGAAGCCTGGAGCCGGCGGGAG
CCCCGCGCTCGCCATGTCTGGGCGAGCTCAGCAACAGGTTCCAAGGAGGGAAGGCGTTTCGGCTTGCTCAAAGCCCCG
GCAGGAGAGGAGGCTGGCCGAGATCAACCGGGAGTTTCTGTGTGACCAGAAGTACAGTGATGAAGAGAACCTTCC
AGAAAAGCTCACAGCCTTCAAAGAGAAGTACATGGAGTTTGACCTGAACAATGAAGGCGAGATTGACCTGATGTC
TTTAAAGAGGATGATGGAGAAGCTTGGTGTCCCCAAGACCCACCTGGAGATGAAGAAGATGATCTCAGAGGTGAC
AGGAGGGGTCAGTGACACTATATCCTACCGAGACTTTGTGAACATGATGCTGGGGAAACGGTCGGCTGTCTCAA
GTTAGTCATGATGTTTGAAGGAAAAGCCAACGAGAGCAGCCCCAAGCCAGTTGGCCCCCTCCAGAGAGAGACAT
TGCTAGCCTGCCCTGAGGACCCCGCCTGGACTCCCCAGCCTTCCCACCCCATACCTCCCTCCCGATCTTGCTGCC
CTTCTTGACACACTGTGATCTCTCTCTCTCATTTGTTTGGTCATTGAGGGTTTGTGTTGTTTTCATCAATGT
CTTTGTAAAGCACAAATTATCTGCCTTAAAGGGGCTCTGGGTCTGGGGAATCCTGAGCCTTGGGTCCCTCCCTCT
CTTCTTCCCTCCTTCCCCGCTCCCTGTGCAGAAGGGCTGACATCAAACCAAAACTAGAGGGGGCAGGGCCAGGG
CAGGGAGGCTTCCAGCCTGTGTTCCCTCACTTGGAGGAACCAGCACTCTCCATCCTTTCAGAAAAGTCTCCAAGC
CAAGTTCAGGCTCACTGACCTGGCTCTGACGAGGACCCAGGCCACTCTGAGAAGACCTTGGAGTAGGGACAAGG
CTGCAGGGCCTCTTTCGGGTTTTCCTTGGACAGTGCCATGGCTCCAGTGCTCTGGTGTACCCAGGACACAGCCAC
TCGGGGCCCCGCTGCCCCAGCTGATCCCCACTCATTCCACACCTCTTCTCATCCTCAGTGATGTGAAGGTGGGAA
GGAAAGGAGCTTGGCATTGGGAGCCCTTCAAAGAAGGTACCAGAAGGAACCCTCCAGTCCTGCTCTCTGGCCACAC
CTGTGCAGGCAGCTGAGAGGCAGCGTGCAGCCCTACTGTCCCTTACTGGGGCAGCAGAGGGCTTCGGAGGCAGAA
GTGAGGCCTGGGGTTTTGGGGGAAAGGTCAGCTCAGTGCTGTTCCACCTTTTAGGGAGGTTACTGAGGGGACCAG
GATGGGAGAATGAGGAGTAAAATGCTCACGGCAAAGTCAGCAGCACTGGTAAGCCAAGACTGAGAAATACAAGGT
TGCTTGCTGACCCCAATCTGCTTGAAACCTGACTCTGCTTCTCTCATTTGTCTTCTTACCCTACTCACATAATT
CACTCATTGACTCACTCATTACCCAGATATTTATTGACCTGCTATTATAAGCTTTACATCCTCCCATGTTGTCT
GGCATGTGCAGTATACACGGTCTAACTCATCTCTCCCCAGATCTCTCAGAACCTTGAGCTTGGGAATTGAAGTGG
GGTCACCTGTGTCTTTCTTATGGACTCGCAGGATTTTAGAACCTAATGCACCCCTGGAGGGTAGCTGGGCCAGA
CTTCTCATTTACAGGTGAGGAGACTGGTGCCCCACAGGGATTAAGTGCTTGCCCAAGGTGAGGCTTATCTCCA
GAGGGAGGTGCCCTGGACTGGGGCCCAGATGTTGAGGACCCTGCCTACACCTCATTTCAGTGTTGGGCTGCCTT
AGTTAGTTATGAGAACAGGGAAGGGCTGGGAAGAGACAGCCTCCAAGGTCAACACTTGAGAGGGTTTTACTTGC
TCTGAAGACCCTGGTCCAGGATTCGCCCTCTCCCATGCCTTCAAGTCAGCATCAGGCTTAGGGCAAAGACCAGGC
CTCTGAAGCTGCCTCTTGTAATTCATGCAGGAAGATGTCAAAGTCAGCCCCATCTTGGCTGATCAGGGTGTTTCA
CCTTAACCCACCTGTGTTCTGAAGTCTCTTACCTTACCTGCTCAGGACTGAGACAGTTATTCACTGAACATATT
TATTAAGCACTTGCTGTAGGCCAACAGTTAAGAATCCAATAATGAAATGGACAGATTATGGAACCTTAGAGTCCA
ATAGGAAAGTGAGACCCAGACAATGACAATGAGATAAATGTTAGGAAGGGGGAGGTATGGGGTGACTTCCCTGCA
GTCTGGGGGCCTAGATGGGCCCAAGACTGGGTGAGAGTCTTGGCAGAGCCTTTGCAACACCTTAAGTGGACAGG
ACTGGGAGGTCTTGGTGGTTGGAGCCAACGTGGGTTCCTTGCCTCCTTAGTCACCTCTGATAGCAGATTGAGG
GAGGAAAACAGGTAAGGCATGAGGAAAATGGCCAGGTTGGGTAAACCCACTGGTTTCAACCAAGTTCAGGAATGAGG
TTATTTGGCCATGACTGGCTGATCTTGAGCTCAAGGATCTGCTTCAAATGCACACAGGCCTAGTTGAAGTTTAAA
CCCCAGCAAAACATTCCCTCCCTGTAAATGGAAAATCCTACTTCTACCCCCACCCTGCCCTGTTTTTTGTTTTTTT
TTTCCCCAAGATCATTAGATGTCTTCAACCTCCTCACTGCCTCTCCTCTCTGGGACAGGCTGGGACCTTTGAGG
AAGATAAAGCCTTCCCTTCACTACCCATCATATTCACTGTCCCTGTTCCCTCACTCAGAGAGGAAGGCAGAACCAGT
CAGGCTTATTTTCAAGTTCACAGTTCTACAAGACTGCAGGAATTCTCCTTAAGGGAGGAGAGCAAGCAGGTG
TGGCCCCAGCTTCTGGAATGGCAGAAGAGAGGGTTTTCTCATTGAATGGGGGTGGGGGCTCGTGTGTCTGGGA
AACCCCATCAGTCCCTTCACTTCTTGAGACTCACTCCTGGGAGGAGAGGGTCTCAAGAGTTGTCCCTGGAAGGA
GGGCGGGGGCAGTCTGCATCTATTTCAAGTTGTGGCTCTTGGTTCTAGGACTCTTACTTCTCTGGCTAAGGGCTC
AGCTTCTTGGGACTTCAACCATCTTCTTCTGAAAGACCAATCTAATGTAACCAAGTAACGTGAGGACTGCCAAG
TATGGCTTTGTCCCTATGACTCAGAGGAGGGTTTTGTGGGCAAATTCAGGTGGATGAAGTATGTGTGTGCGTGTG
CATGGGAGTGTGCGTGGACTGGGATATCATCTCTACAGCCTGCAAATAAACCAAGACAACTT

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FIGURE 2819A

ATGGGGCAGCAGCCTGGAAAAGTACTTGGGGACCAAAGAAGGCCAAGCTTGCCTGCCCTGCATTTTATCAAAGGA
GCAGGGAAGAAGGAATCATCGAGGCATGGGGGTCCACACTGCAATGTTTTTGTTGGAACAAGCCCTTCAGCGGCCA
GTAGCATCTGACTTTGAGCCTCAGGGTCTGAGTGAAGCCGCTCGTTGGAAGTCCAAGGAAAACCTTCTCGCTGGA
CCCAGTGAAAATGACCCCAACCTTTTCGTTGCACTGTATGATTTTGTGGCCAGTGGAGATAACACTCTAAGCATA
ACTAAAGGTGAAAAGCTCCGGGTCTTAGGCTATAATCACAATGGGGAATGGTGTGAAGCCCAAACCAAAAATGGC
CAAGGCTGGGTCCCAAGCAACTACATCACGCCAGTCAACAGTCTGGAGAAACACTCCTGGTACCATGGGCCTGTG
TCCCCGAATGCCGCTGAGTATCTGCTGAGCAGCGGGATCAATGGCAGCTTCTTGGTGCCTGAGAGTGAGAGCAGT
CCTGGCCAGAGGTCCATCTCGCTGAGATACGAAGGGAGGGTGTACCATACAGGATCAACACTGCTTCTGATGGC
AAGCTCTACGTCTCCTCCGAGAGCCGCTTCAACACCCTGGCCGAGTTGGTTCATCATCATTCAACGGTGGCCGAC
GGGCTCATCACACGCTCCATTATCCAGCCCCAAAGCGCAACAAGCCCACTGTCTATGGTGTGTCCCCAACTAC
GACAAGTGGGAGATGGAACGCACGGACATCACCATGAAGCACAAGCTGGGCGGGGGCCAGTACGGGGAGGTGTAC
GAGGGCGTGTGGAAGAAATACAGCCTGACGGTGGCCGTGAAGACCTTGAAGGAGGACACCATGGAGGTGGAAGAG
TTCTTGAAAGAAGCTGCAGTCATGAAAGAGATCAAACACCCTAACCTGGTGCAGCTCCTTGGGGTCTGCACCCGG
GAGCCCCCGTTCTATATCATCACTGAGTTCATGACCTACGGGAACCTCCTGGACTACCTGAGGGAGTGCAACCGG
CAGGAGGTGAACGCCGTGGTGTCTGTACATGGCCACTCAGATCTCGTCAGCCATGGAGTACCTGGAGAAGAAA
AAGTTCATCCACAGAGATCTTGCTGCCCCGAACTGCCTGGTAGGGGAGAACCCTTGGTGAAGGTAGCTGATTTT
GGCCTGAGCAGGTGTATGACAGGGGACACCTACACAGCCCATGCTGGAGCCAAGTTCCTCATCAAATGGACTGCA
CCCGAGAGCCTGGCCTACAACAAGTTCTCCATCAAGTCCGACGTCTGGGCATTGGAGTATTGCTTTGGGAAATT
GCTACCTATGGCATGTCCCTTACCCGGGAATTGACCTGTCCCAGGTGTATGAGCTGCTAGAGAAGGACTACCGC
ATGGAGCGCCAGAAAGGCTGCCAGAGAAGGTCTATGAACTCATGCGAGCATGTTGGCAGTGGAAATCCCTCTGAC
CGGCCCTCCTTTGCTGAAATCCACCAAGCCTTTGAAACAATGTTCCAGGAATCCAGTATCTCAGACGAAGTGGA
AAGGAGCTGGGGAACAAGGCGTCCGTGGGGCTGTGAGTACCTTGCTGCAGGCCCCAGAGCTGCCACCAAGACG
AGGACCTCCAGGAGAGCTGCAGAGCACAGAGACACCCTGACGTGCCTGAGATGCCTCACTCCAAGGGCCAGGGA
GAGAGCGATCCTCTGGACCATGAGCCTGCCGTGTCTCCATTGCTCCCTCGAAAAGAGCGAGGTCCCCCGGAGGGC
GGCCTGAATGAAGATGAGCGCCTTCTCCCCAAAGACAAAAGACCAACTTGTTAGCGCCTTGATCAAGAAGAAG
AAGAAGACAGCCCCAACCCCTCCCCAACGCAGCAGCTCCTTCCGGGAGATGGACGGCCAGCCGGAGCGCAGAGGG
GCCGCGGAGGAAGAGGGCCGAGACATCAGCAACGGGGCACTGGCTTTACCCCCCTTGACACAGCTGACCCAGCC
AAGTCCCCAAAGCCAGCAATGGGGCTGGGGTCCCCAATGGAGCCCTCCGGGAGTCCGGGGGCTCAGGCTTCCGG
TCTCCCCACCTGTGGAAGAAGTCCAGCACGCTGACCAGCAGCCGCCTAGCCACCGGCGAGGAGGAGGGCGGTGGC
AGCTCCAGCAAGCGCTTCTGCGCTCTTGCTCCGCTCCTGCGTTCCCCATGGGGCCAAGGACACGGAGTGGAGG
TCAGTCACGCTGCCTCGGGACTTGCACTCCACGGGAAGACAGTTTGACTCGTCCACATTTGGAGGGCACAAAAGT
GAGAAGCCGGCTCTGCCTCGGAAGAGGGCAGGGGAGAACAGGTCTGACCAGGTGACCCGAGGCACAGTAACGCCT
CCCCCAGGCTGGTGAAAAGAATGAGGAAGCTGCTGATGAGGTCTTCAAAGACATCATGGAGTCCAGCCCCGGGC
TCCAGCCCCGCCAACCTGACTCCAAAACCCCTCCGGCGGCAGGTACCCGTGGCCCCCTGCCTCGGGCCTCCCCAC
AAGGAAGAAGCTGGAAAGGGCAGTGCCTTAGGGACCCCTGCTGCAGCTGAGCCAGTGACCCCCACCAGCAAAGCA
GGCTCAGGTGCACCAGGGGGCACAGCAAGGGCCCCGCGAGGAGTCCAGAGTGAGGAGGCACAAGCACTCCTCT
GAGTCGCCAGGGAGGGACAAGGGGAAATTGTCCAGGCTCAAACCTGCCCCGCGCCCCCACCAGCAGCCTCTGCA
GGGAAGGCTGGAGGAAAGCCCTCGCAGAGCCCCGAGCCAGGAGGCGGGGAGGCAGTCTGGGGCGAAAGACA
AAAGCCACGAGTCTGGTTGATGCTGTGAACAGTGACGCTGCCAAGCCCAGCCAGCCGGGAGAGGGCCTCAAAAAG
CCCGTGTCTCCGGCCACTCCAAAGCCACAGTCCGCCAAGCCGTCGGGGACCCCCATCAGCCAGCCCCCGTTCCC
TCCAGTTGCCATCAGCATCCTCGGCCCTGGCAGGGGACCAGCCGTCTTCCACCGCCTTCATCCCTCTCATATCA
ACCCGAGTGTCTCTTCGGAAAACCCGCCAGCCTCCAGAGCGGATCGCCAGCGGCGCCATACCAAGGGCGTGGTC
CTGGACAGCACCGAGGCGCTGTGCCTCGCCATCTCTAGGAACCTCGAGCAGATGGCCAGCCACAGCGCAGTGCTG
GAGGCCGGCAAAAACCTCTACACGTTCTGCGTGAGCTATGTGGATTCCATCCAGCAAATGAGGAACAAGTTTGGC
TTCCGAGAGGCCATCAACAAACTGGAGAATAATCTCCGGGAGCTTCAGATCTGCCCGGCGACAGCAGGCAGTGGT
CCAGCGGCCACTCAGGACTTCAGCAAGCTCCTCAGTTCCGTGAAGGAAATCAGTGACATAGTGAGAGGTAGCAG
CAGTCAGGGGTGAGGTGTCAGGCCCCGTCGGAGCTGCCTGCAGCACATGCGGGCTCGCCCATACCCGTGACAGTGG
CTGACAAGGGACTAGTGAGTCAGCACCTTGGCCCAGGAGCTCTGCGCCAGGCAGAGCTGAGGGCCCTGTGGAGTC

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FIGURE 2819B

CAGCTCTACTACCTACGTTTGCACCGCCTGCCCTCCCGCACCTTCCTCCTCCCCGCTCCGTCTCTGTCTCCTCGAAT
TTTATCTGTGGAGTTCCTGCTCCGTGGACTGCAGTCGGCATGCCAGGACCCGCCAGCCCCGCTCCCACCTAGTGC
CCCAGACTGAGCTCTCCAGGCCAGGTGGGAACGGCTGATGTGGACTGTCTTTTTTCATTTTTTCTCTCTGGAGCC
CCTCCTCCCCCGGCTGGGCCTCCTTCTTCCACTTCTCCAAGAATGGAAGCCTGAAGTGAAGCCTGAGGCCTTGTGTGTCAGG
CCCTCTGCCTGCACTCCCTGGCCTTGCCCGTCTGTGTGCTGAAGACATGTTTCAAGAACCGCATTTTCGGGAAGGGC
ATGCACGGGCATGCACACGGCTGGTCACTCTGCCCTCTGCTGCTGCCCGGGGTGGGGTGCCTCGCCATTTCTCTC
ACGTGCAGGACAGCTCTTGATTTGGGTGGAAAACAGGGTGCTAAAGCCAACAGCCTTTGGGTCTTGGGCAGGTG
GGAGCTGAAAAGGATCGAGGCATGGGGCATGTCTTTCCATCTGTCCACATCCCCAGAGCCCAGCTCTTGCTCTC
TTGTGACGTGCACTGTGAATCCTGGCAAGAAAGCTTGAGTCTCAAGGGTGGCAGGTCACTGTCACTGCCGACATC
CCTCCCCCAGCAGAATGGAGGCAGGGGACAAGGGAGGCAGTGGCTAGTGGGGTGAACAGCTGGTGCCAAATAGCC
CCAGACTGGGCCCAGGCAGGTCTGCAAGGGCCCAGAGTGAACCGTCTTTTACACATCTGGGTGCCCTGAAAGGG
CCCTTCCCCCTCCCCCACTCCTCTAAGACAAAGTAGATTCTTACAAGGCCCTTTTCTTTTGAACAAGACAGCCTTC
ACTTTTCTGAGTTCTTGAAGCATTTTCAAAGCCCTGCCTCTGTGTAGCCGCCCTGAGAGAGAATAGAGCTGCCACT
GGGCACCTGCGCACAGGTGGGAGGAAAGGGCCTGGCCAGTCTTGGTCTGGCTGCACTCTTGAAGTGGGCGAATG
TCTTATTTAATTACCGTGAGTGACATAGCCTCATGTTCTGTGGGGGTCTCAGGGAGGGTTAGGAAAACACAAA
CGGAGCCCCTGAAAGCCTCACGTATTTACAGAGCACGCCTGCCATCTTCTCCCCGAGGCTGCCCCAGGCCGGAG
CCCAGATACGGGGGCTGTGACTCTGGGCAGGGACCCGGGGTCTCCTGGACCTTGACAGAGCAGCTAACTCCGAGA
GCAGTGGGCAGGTGGCCGCCCTGAGGCTTACGCCGGGAGAAGCCACCTTCCCACCCCTTCATACCGCCTCGTG
CCAGCAGCCTCGCACAGGCCCTAGCTTTACGCTCATCACCTAAACTTGTACTTTATTTTTCTGATAGAAATGGTT
TCCTCTGGATCGTTTTATGCGGTTCTTACAGCACATCACCTCTTTGCCCCCGACGGCTGTGACGCAGCCGGAGGG
AGGCACTAGTACCGACAGCGGCCTTGAAGACAGAGCAAAGCGCCACCCAGGTCCCCGACTGCCTGTCTCCAT
GAGGTACTGGTCCCTTCTTTTGTAAAGTGAATGTGCCACTATATTTTACACGTATCTCTTGGTATGCATCTTTT
ATAGACGCTCTTTTCTAAGTGGCGTGTGCATAGCGTCTGCCCTGCCCCCTCGGGGGCCTGTGGTGGCTCCCCCT
CTGCTTCTCGGGGTCCAGTGCATTTTGTCTGTATATGATTCTCTGTGGTTTTTTTTGAATCCAAATCTGTCTCT
CTGTAGTATTTTTTAAATAAATCAGTGTTTACATTAG

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FIGURE 2820

GGCACGAGGAGATGGCGATGGAGATGAGGCTTCCAGTGGCTCGCAAGCCTCTTAGCGAGAGACTGGGCCGCGACA
CTAAGAAACATCTAGTGGTGCCGGGGGATACAATCACTACGGACACAGGATTTCATGCGGGGCCATGGAACGTATA
TGGGAGAAGAGAAGCTCATTGCATCTGTTGCTGGCTCTGTGGAGAGAGTAAACAAGTTGATCTGTGTGAAAGCTT
TGAAAACCAGATACATTGGTGAAGTAGGAGACATCGTAGTGGGACGAATCACAGAGGTTCAACAGAAGAGGTGGA
AGGTGGAGACCAACTCCAGGCTGGATTTCGGTCTTGCTGCTCTCGTCCATGAACCTTCCTGGAGGAGAGCTGAGGA
GAAGATCTGCAGAAGATGAGCTTGCAATGAGAGGTTTCTTACAGGAAGGGGACCTTATCAGTGCTGAGGTCCAGG
CAGTGTTCTCTGACGGAGCTGTCTCTTTGCACACGAGGAGCCTGAAATATGGAAGAACTAGGTCAGGGGGTTTTGG
TCCAGGTTTCCCCCTCCCTGGTGAAACGGCAGAAGACCCACTTTTCATGATTTGCCATGTGGTGCCTCAGTGATTTC
TCGGTAACAACGGCTTCATCTGGATTTACCCAACACCTGAGCACAAAGAAGAGGAAGCAGGGGGCTTCATTGCAA
ACCTGGAGCCTGTCTCTCTTGCTGATCGAGAGGTGATATCCCGGCTTCGGAAGTGCATCATCTCGCTGGTAACCTC
AGAGGATGATGCTGTATGATACCAGCATCCTGTACTGCTATGAAGCATCCCTTCCACATCAGATCAAAGACATCT
TAAAGCCAGAAATAATGGAGGAGATTGTGATGGAACACGCCAGAGGCTTTTGGAACAGGAGGGATAAGAGGTG
CTCCAGAAGCACGGGACTGTGGACCTTGACAGGAGTGAAGACTGTGATGTGTGGTCCCCATATGTGGCTCAGCAAA
GACTCGAGAGATCATCCCTTTGTCTGCATTGACGGCCCTGTGACGGCCTCCAGCCCACAGGCCTGCTTTCTCCTG
TCCTAACACCAAGCCTGGGTGGCAGATGAACAGTGCTTCCTTGGGTTGCCAGCTGAGTCCCGGTATTAGGGAATA
GTTTCAGCTCTTTTCAAAGTGCACAGTGTTACAGTCGAATGGGCTCCCATCCTGGAATAATATGGAGAATCCTTTG
TCTTCCACTCACTGTCATTACAAAGGCACAGTGCCCCATGAAATTGCCCAATAGAAAACATGGCATCCCTGACC
TCCAAATGGTCTGTTTTGGCCTCCATTCTATATCCTTTAAATGACTGAGAATGCAGCTGGTAAAGTTGGAAGAA
TAAAGTTAACCAAGCAGGCCAGGCACGGTGGCTCACGCCCTATAATCCCAGCACTTAGGGAGGCCAAGGCGGGCAG
ATCACCTGAGGTCAATAGTTTCGAGACCAGCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATACAAAAAA
TTAGCCAGGTGTGGTGGTGTGCACCTGTAGTCCAGCTATTTGGGAGGCTGAGGTGGGAGAATCACTTGAACCTG
GGAGGCGGAGGTTGCAGTGAGCTGAAATCGCGTACCACACTCCAGCCTGGGTGACAGAGCGAGACTGTGTTTCAA
AGAAAAAAAAAAAAACAAGCAGCCTTTTGCTTGGTTGGAATCTGATTTTCTGTTGCGTGTTCTTGTAGCCATAGAT
GTGATTATGTCCACACCGGGCTGCCTTAATCTGTCTGCTTGGAGAGTGAAGTGTGTAAGATGCTGAATTATTATG
ATAATACAGTGAATGTTCTGGGTCCATGTACTCAGATAAACATGAAGAAAATAAGCAAAGAAAAATGGAGACTGG
GAAAGCAAAGCTGTTTTTCATCCTATAATTGAAGTAGTGTGGAGCATTAACTTGTGGATGATTCAGAGTTAAAAGA
TAAAAAGACGCCAGAGTTCTCGCTGAAGAATGTGAGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2821

MAMEMRLPVARKPLSERLGRDTKKHLVVPGDTITTTDTGFMRGHGTYMGEKLIASVAGSVERVKNLICVKALKTR
YIGEVGDIVVGRITEVQQKRWKVETNSRLDSVLLLSSMNLPGGELRRRSAEDELAMRGFLQEGDLISAEVQAVFS
DGAVSLHTRSLKYGKLGQGVLVQVSPSLVKRQKTHFHDLP CGASVILGNNGFIWIYPTPEHKEEEAGGF IANLEP
VSLADREVISRLRNCIISLVTQRMMLYDTSILYCYEASLPHQIKDILKPEIMEEIVMETRQRLLEQEG

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FIGURE 2822

GGCACGAGGCTTATAACCTGGGATGGGCACCCCTGCCAGTCTTGCTCTGCCGCCTGCCACCGCTGCCCCGAGCCCCG
ACGCT**ATGT**CCAGCAAAGGCTCCGTGGTTCTGGCCTACAGTGGCGGCCTGGACACCTCGTGATCCTCGTGTGGC
TGAAGGAACAAGGCTATGACGTCAATTGCCTATCTGGCCAACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGA
AGAAGGCACTGAAGCTTGGGGCCAAAAAGGTGTTTATTGAGGATGTCAGCAGGGAGTTTGTGGAGGAGTTCATCT
GGCCGGCCATCCAGTCCAGCGCACTGTATGAGGACCGCTACCTCCTGGGCACCTCTCTTGCCAGGCCCTGCATCG
CCCGCAAACAAGTGGAATCGCCAGCGGGAGGGGGCCAAAGTATGTGTCCACGGCGCCACAGGAAAGGGGAACG
ATCAGGTCCGGTTTGAGCTCAGCTGCTACTCACTGGCCCCCAGATAAAGGTCATTGCTCCCTGGAGGATGCCTG
AATTCTACAACCGGTTCAAGGGCCGCAATGACCTGATGGAGTACGCAAAGCAACACGGGATTCCCATCCCGGTCA
CTCCCAAGAACCCGTGGAGCATGGATGAGAACCTCATGCACATCAGCTACGAGGCTGGAATCCTGGAGAACCCCA
AGAACCAAGCGCCTCCAGGTCTCTACACGAAGACCCAGGACCCAGCCAAAGCCCCCAACACCCCTGACATTCTCG
AGATCGAGTTCAAAAAAGGGGTCCCTGTGAAGGTGACCAACGTCAAGGATGGCACCACCCACCAGACCTCCTTGG
AGCTCTTCATGTACCTGAACGAAGTCGCGGGCAAGCATGGCGTGGGCCGTATTGACATCGTGAGAACCGCTTCA
TTGGAATGAAGTCCCGAGGTATCTACGAGACCCAGCAGGCACCATCCTTTACCACGCTCATTTAGACATCGAGG
CCTTCACCATGGACCGGGAAGTGCACAAAATCAAACAAGGCCTGGGCTTGAAATTTGCTGAGCTGGTGTATACCG
GTTTCTGGCACAGCCCTGAGTGTGAATTTGTCCGCCACTGCATCGCCAAGTCCCAGGAGCGAGTGGAAGGGAAAAG
TGCAGGTGTCCGTCTCAAGGGCCAGGTGTACATCCTCGGCCGGGAGTCCCCACTGTCTCTCTACAATGAGGAGC
TGGTGAGCATGAACGTGCAGGGTGATTATGAGCCAACATGATGCCACCGGGTTCATCAACATCAATTCCCTCAGGC
TGAAGGAATATCATCGTCTCCAGAGCAAGGTCACTGCCAAAT**TACA**CCCGTGTACAATGAGGAGCTGGGGCCTCCT
CAATTTGCAGATCCCCAAGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTGACTTGTTCTCCCCGGCTGG
CAGCGTAGTGGGGCTGCCAGGCCCCAGCTTTGTTCCCTGGTCCCCCTGAAGCCTGCAAACGTTGTCATCGAAGGG
AAGGGTGGGGGGCAGCTGCGGTGGGGAGCTATAAAAATGACAATTAAAAGAGACACTAGTCTTTTATTTCTAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 2823

MSSKGSVVLAYSGGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSREFVEEFIWP
AIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATGKGNDQVRFELSCYSLAPQIKVIAPWRMPEF
YNRFKGRNDLMEYAKQHGIPIPVTPKNPWSMDENLMHISYEAGILENPKNQAPPGLYTKTQDPAKAPNTPDILEI
EFKKGVFPVKVTNVKDGTTHTSLELFMYLNEVAGKHGVGRIDIVENRFIGMKSRGIYETPAGTILYHAHLDIEAF
TMDREVRKIKQGLGLKFAELVYTGFWHSPECFVRHCIAKSQERVEGKVQVSVLKGQVYILGRESPLSLYNEELV
SMNVQGDYEPDATGFININSLRLKEYHRLQSKVTAK

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FIGURE 2824

AAAAATCGAGGCGGGGCTGAGAGGCTGCGGCGGCTGACTAGGTTTTTCGGACCGCGGCGCGGCGGGGAAGAGAGAC
TGGGCGGGGAGGGCCAGGCCGTGGGAGAGACGCGGGAAAAGTGCGGGTGCGCAGAGGCACTTGACCACCCCGCCCTA
GGCCGACCCGGCGGACGCGGCGTCTGGTGTGCGGGCGCTGGGGCGGGTCCCAGGTCTCCCCGCTGCGCTGCTTGA
GGCTCAGCCATGGCCCAGCAGAGAGCCCTGCCCCAGAGCAAGGAGACGCTGCTGCAGTCTACAACAAGCGGCTG
AAGGACGACATTAAGTCCATCATGGACAACCTTACCGAGATCATCAAGACCGCCAAGATTGAGGACGAGACGCGAG
GTGTACGGGGCCACTCAGGGTGAACAGGACAATTACGAGATGCATGTGCGAGCCGCCAACATCGTCCGAGCCGGC
GAGTCCCTGATGAAGCTGGTGTCCGACCTCAAGCAGTTCTCTGATCCTCAATGACTTCCCTCCGTGAACGAGGCC
ATTGACCAGCGCAACCAGCAGCTGCGCACACTGCAGGAGGAGTGCAGCCGGAAGCTCATCACGCTGCGAGACGAG
ATCTCCATTGACCTCTACGAGCTGGAGGAGGAGTATTACTCGTCCAGCTCAAGCCTTTGCGAAGCTAATGACCTG
CCTCTGTGCGAAGCTTACGGGAGGCTGGACCTCGACACAGACTCTGCTGATGGCCTCTCGGCCCTCTGCTGGCG
TCCCCGGAGCCCAGTGCTGGCCCCCTACAGGTGGCAGCCCCCTGCCACTCCCATGCTGGTGGCCCTGGCCCCACT
GAGCACGCCTGAGCCTCCGGGGCCACGCTTCGTTCTCAGGAACAAAACCTGAGGCAGCCCTTTGGATGCCCTCAC
AGCCTTGCTTCTCTCAGCCTAGGTTCCCATTTGGGGACTTCAGGACCCAGAGCCACTAGGACTTCCTTGGGAAG
CCCGTTAGCCCAGGGTGGGTCCCACCAGGACAGTAGGGAAACAGTTGTTTCCCTAGCCATTTCCGAATAGCCCAT
CATTCCGAGTCATCATCTCTGTTTGCTGCCTTCCTGGCCAGCCAGGTGGAAGAAAGTTTCCAAGCTAGGTCTGGC
CCGTTGGGGATCTCAGCAGTGGGGCAGGAGGGTGCCTGATTTGCGGGAGTCCTGACCCGAGCCTGTTGTCAGAGT
TGGGAGGGGCTCTGAGCAGTGTGGGCAGGCCGGGTCTCCCATCCCGAGGCCAGCGTTCCTGTGCAGAGCCCCAT
CCACTGGTTCTTGCCCTGAGCCACATATGTCTGTGCCATGGGCTGAGTGCCACGACAGGCCCGTGTGACAGCTGC
TGCCACGCATGTGGAAGCTAGGTGGGACTCATTCTTAATTCTGCCGTTGTAATGAGACTTGATTAAACACCCG
CACTTTTTTGC

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FIGURE 2825

GGAGAAGGGAGGCGCCTGGCTGTATCCCCGCAGGCCCTCTTCCGAGAGCCTTCCTCCTCGGGCAGTGCGTTCTG
GGGCTGTGCTGCTCCTGTTACCTTCTGAAACCTTCGACCGTTTGAGCTGGAGGGGCCCTGAGAAATCAGAGTCTA
CGTATCATTCTACTTAGGGGGAACTTAGGCTGGAGACAGGGAGGCCTTCCACTCTGCCCCATTAGCTTAGAAAAT
CAAGATTCAGTCCAGCAGATGCAGAGTCCATGTCCATCTTGTGCCTTCTCCTGGACAAACCTTTCCTTCCTGGTG
GTGGATTTAAAATACTCCTTTCTGCCCATTGGCCATGCTGGGAGCCACAGCTATCCAGAGCCAGCATGACCTGGG
GCTTGGTTTTCCCTGCCCTGGGCTCAGTGGCACTGCTGAGCTGCAGCAGTCCTAGAGTTTTCCAGGGGGTTCTGAG
GGAATCTTTGGTCCCCAGTACTCATTAACCTCAGCAGACATGAGGCAGCATTTCTCCACACTAGGGTGGCTGAGA
GGGGTCTGGGGTGTTTCAGACCCTTCTGGGCATCTCCTTCCACAGCTGTTTCAGTTTGTGGTCTCTTTGAGGCA
GCCACCGTCCCTGAGGGGCCCTGCACAGAGCAGCTGTGGGCCTGTAATTCAGCCTGCCTGCCTTGCCTTGGGGCA
GGGAGAGAGGGAACCTGCTCACGGCCCTGCAGCAGAGCAGGGCGCAAACCCAGGACATCTGTGCCAGGCTTCCCA
TGCCCTCCCCAACAGTCCCTCAGCTTCACCCAGCGGGGCTTCCAGGCCAGCCTGTGTCCCTCCCGCAGGCCTC
CTGTCCACACCAGCGCCCCCTGGGGGGCCTCACACAGCCCCCTGGCTTTCCTCTCTGCCTGCTCCTGTCTCTCCCT
GGGGTTTCTGGTGGTGGAAAAGCTCAAGCCTTTGCGAAGCTAATGACCTGCCTCTGTGCGAAGCTTACGGGAGGC
TGGACCTCGACACAGACTCTGCTGATGGCCTCTCGGCCCTCTGCTGGCGTCCCCGGAGCCCAGTGCTGGCCCCC
TACAGGTGGCAGCCCCCTGCCACTCCCATGCTGGTGGCCCTGGCCCCACTGAGCACGCCTGAGCCTCCGGGGCCA
CGCTTCGTTCTCAGGAACAAAACCTGAGGCAGCCCTTGGATGCCCTCACAGCCTTGCTTCTCTCAGCC

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FIGURE 2826

TTTCCTTTCTCTCTCCTCCCGCCGCCCAAG**ATG**CCGAAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCC
CCAGCTGTCGTGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGC
ATTGGACAGGACATCCAGCCCAAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGG
CAGAGAGCCATCCTCTATAAGCGGCTGAAAGTGCCCTCCTGCGATTAAACCAGTTCACCCAGGCCCTGGACCGCCAA
ACAGCTACTCAGCTGCTTAAGCTGGCCCAACAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTG
GCCCCGGGCCGAGAAGAAGGCTGCTGGCAAAGGGGACGTCCCAACGAAGAGACCACCTGTCCTTCGAGCAGGAGTT
AACACCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTGCACACGACGTGGATCCCATCGAG
CTGGTTGTCTTCTTGCCTGCCCTGTGTCGTAAAATGGGGGTCCCTTACTGCATTATCAAGGGAAAGGCAAGACTG
GGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTTG
GCTAAGCTGGTGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCCTGGGGTGGCAAT
GTCCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTG
GGT**TAA**ATGTACACTGTTGAGTTTTCTGTACATAAAAATAATTGAAATAATACAAATTTTCCTTC

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FIGURE 2827

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAKYRPETKQEKQRLARA EKAAGKGDVPTKRPPVLRAGVNTVTTLVENK
KAQLVVIAHDVDPIELVVFLPALCRKMGPYCI IKGKARLGRLVHRKTCTTVAFTQVNSEDKGALAKLVEAIRTN
YNDRYDEIRRHWG GNVLGPKSVARIAKLEKAKAKELATKLG

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FIGURE 2828

GGAGCCGCAGCCGACGCGGAGCGAGGCCGCGCCGGGCACTTCCTGTGGAGGCCGCAGCGGGGTGCGGGCGCCGA
CGGGCGAGAGCCAGCGAGCGAGCGAGCGAGCCGAGCCGAGCCTCCCGCCGTCGCC**ATG**GGCCAGAACGACCTGAT
GGGCACGGCCGAGGACTTCGCCGACCAGTTCCCTCCGTGTACAAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTG
TCTGATCAGCACCTTCCTGGAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGCGACTACATCGACAC
CACCTGGAACTGCGGGCTACCTGCTGGCCTCGTCCTTCGTCCTTCCTCAACTTGCTGGGACAGCTGACTGGCTGCGT
CCTGGTGTGAGCAGGAACCTTCGTGCAGTACGCCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGC
CTACAGCATTTTATGGGACTTGAAGTTTTTGTATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGC
AGAATCCCGTTCTGAAGGGAAGAGCATGTTTGGCGGCGTCCCCACCATGCGTGAGAGCTCCCCCAAACAGTACAT
GCAGCTCGGAGGCAGGGTCTTGCTGGTTCTGATGTTTCATGACCCTCCTTCACTTTGACGCCAGCTTCTTTTCTAT
TGTCCAGAACATCGTGGGCACAGCTCTGATGATTTTGTAGTGCCATTGGTTTTTAAACCAAGCTGGCTGCTTTGAC
TCTTGTGTGTGGCTCTTTGCCATCAACGTATATTTCAACGCCCTTCTGGACCATTCCAGTCTACAAGCCCATGCA
TGACTTCCTGAAATACGACTTCTTCCAGACCATGTGCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGGCC
TGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGG**TAA**CAGTCACAGATCCCTACCTGCCTGGCTAAGACCCG
TGGCCGTCAAGGACTGGTTCGGGGTGGATTCAACAAAACCTGCCAGCTTTTATGTATCCTCTTCCCTTCCCCCTCC
TTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGA
GCCACAGTCTGGCGTCTGACCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGG
AGTGAACAGCCCCGCTTGGCTGTGGCATCTCAGTCTATTTTTGAGTTTTTTTGTGGGGGTACAGGAGGGGGCCTT
CAAGCTGTACTGTGAGCAGACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTT
TAGCGGAAACTACTAAATTATTTGGGTGGTTCAGCCAAACCTCAAAACAGTTAATCTCCCTGGTTTAAATCAC
ACCAGTGGCTTTGATGTTGTTTCTGCCCCGATTGTATTTTATAGGAATAGTGAAAACATTTAGGGACACCCAAA
GAATGATGCAGTATTAAAGGGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTGAGAAAATCAGCTTGGA
TTGGTGCCAAGTGTTTTATTGGGTAACACCCTGGGAGTTTTAGTAGCTTGAGGCAAGGTGGAGGGGCAAGAAGTC
CTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGG
GTAGCCCCAGCAGCAGCACCCCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGCAAGCCGCAGCCGCTGT
GGGCAGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTT
TCTGAGCAAGGTCTCGAAAAGCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTCCCAGCTGCACTCGCCCTGTG
GACAGCCCCGACACACCACCTTTCCTGAGGCTGTGCTCACTCAGATTGTCCGTTTGCTATGCCGAATGCAGCCAA
AATTCCTTTTTTACAATTTGTGATGCCTTACCGATTTGATCTTAATCCTGTATTTAAAGTTTTCTAACACTGCCTT
ATACTGTGTTTTCTCTTTTTGGGGGAGCTTAACGTCTTGTGCTCCCTGTGCTGTCACCATAGTAAATGCCACAA
GGGTAGTCGAACACCTCTCTGGCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGTCTCCAGGGCTGCTGC
GGCCAGCCCCGAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTTCT
GCTCATAAGTGCTTTTTGGAAGTCACCTACCTTTTTTAACACAGCCGAACCTAGTCCCAACGCGTTTGCAAATATTCC
CCTGGTAGCCTACTTCCTTACCCCCGAATATTGGTAAGATCGAGCAATGGCTTCAGGACATGGGTCTCTCTCTCC
TGTGATCATTCAAGTGCTCACTGCATGAAGACTGGCTTGTCTCAGTGTTCACCTCACCAGGGCTGTCTCTTGG
TCCACACCTCGCTCCCTGTAGTGCCGTATGACAGCCCCCATCAAATGACCTTGGCCAAAGTCACGGTTTCTCTGT
GGTCAAGGTTGGTTGGCTGATTGGTGGAAAGTAGGGTGGACAAAGGAGGCCACGTGAGCAGTCAGCACCAGTTC
TGCACCAGCAGCGCCTCCGTCTAGTGGGTGTTCTGTTTCTCCTGGCCCTGGGTGGGCTAGGGCCTGATTCCGGG
AAGATGCCTTTGCAGGGAGGGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAAACAATTTCTAAGATTTTT
TTGCTTTATGTGGGAAACAGATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAAAACGTTT
TGATTTTTGGAAACACATCAAAATAAATAATGGCGTTTGTGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 2829

MGQNDLMGTAEDFADQFLRVTKQYLPHVRLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFVFLNLL
GQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRNLALGGLLLLLLAESRSEGKSMFAGVPTMRE
SSPKQYMLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALMILVAIGFKTKLAALTIVVWLFAINVYFNAFWTI
PVYKPMHDFLKYDFFQTMSVIGLLLLVVALGPGGVSMDEKKKEW

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FIGURE 2830

ACCCAGCCATGCCCCCCTCAGTCGCTGGGCCAGCCTGCCCGGCCCCAGCATGCGGGAGGCAGCCTTCATGTAC
AGCACAGCAGTGGCCATCTTCCTGGTCATCCTGGTGGCCGCACTGCAGGGCTCGGCTCCCCGTGAGAGCCCCCTC
CCCTATCACATCCCCCTGGACCCGGAGGGGTCCCTGGAGCTCTCATGGAATGTCAGCTACACCCAGGAGGCCATC
CATTTCCAGCTCCTGGTGCAGGAGCTCAAGGCTGGCGTCTGTTTGGGATGTCCGACCGTGGCGAGCTTGAGAAC
GCAGATCTCGTGGTGCCTCTGGACCGATGGGGACACTGCCTATTTTTCGGGACGCCTGGAGTGACCAGAAGGGGCAG
ATCCACCTGGATCCCCAGCAGGACTACCAGCTGCTGCAGGTGCAGAGGACCCAGAAGGCCTGACCCTGCTTTTC
AAGAGGCCCTTTGGCACCTGCGACCCCAAGGATTACCTCATTTAGGACGGCACTGTCCACTTGGTCTACGGGATC
CTGGAGGAGCCGTTCCGGTCACTGGAGGCCATCAACGGCTCGGGCCTGCAGATGGGGCTGCAGAGGGTGCAGCTC
CTGAAGCCCAATATCCCCGAACCGGAGTTGCCCTCAGACGCGTGCACCATGGAGGTCCAAGCTCCCAATATCCAG
ATCCCCAGCCAGGAGACCACGTACTGGTGCTACATTAAGGAGCTTCCAAAGGGCTTCTCTCGGCACCACATTATC
AAGTACGAGCCCATCGTCACCAAGGGCAATGAGGCCCTTGTCACCACATGGAAGTCTTCCAGTGCGCCCCCGAG
ATGGACAGCGTCCCCCACTTACGCGGGCCCTGCGACTCCAAGATGAAACCCGACCGCCTCAACTACTGCCGCCAC
GTGCTGGCCGCTGGGCCCTGGGTGCCAAGGCATTTTACTACCCAGAGGAAGCCGGCCTTGCTTTCGGGGGTCCA
GGGTCTCCAGATATCTCCGCCTGGAAGTTCACTACCACAACCCACTGGTGATAGAAGGACGAAACGACTCCTCA
GGCATCCGCTTGTACTACACAGCCAAGCTGCGGCGCTTCAACGCGGGGATCATGGAGCTGGGACTGGTGTACACG
CCAGTGATGGCCATTCCACCACGGGAGACCGCCTTCATCCTCACTGGCTACTGCACGGACAAGTGACCCAGCTG
GCACTGCCTCCCTCCGGGATCCACATCTTCGCCTCTCAGCTCCACACACACCTGACTGGGAGAAAGGTGGTCACA
GTGCTGGTCCGGGACGGCCGGGAGTGGGAGATCGTGAACCAGGACAATCACTACAGCCCTCACTTCCAGGAGATC
CGCATGTTGAAGAAGTTCGTGTGCGTCCATCCGGGAGATGTGCTCATCACCTCCTGCACGTACAACACGGAAGAC
CGGGAGCTGGCCACAGTGGGGGGCTTCGGGATCCTGGAGGAGATGTGTGTCAACTACGTGCACTACTACCCCCAG
ACGCAGCTGGAGCTCTGCAAGAGCGCTGTGGACGCCGGCTTCTCAGAGAAGTACTTCCACCTCATCAACAGGTTT
AACAACGAGGATGTCTGCACCTGCCCTCAGGCGTCCGTGTCTCAGCAGTTCACCTCTGTTCCCTGGAACCTCTTC
AACC GCGACGTACTGAAGGCCCTGTACAGCTTCGCGCCCATCTCCATGCACCTGCAACAAGTCTCAGCCGTCCGC
TTCCAGGGTGAATGGAACCTGCAGCCCCTGCCCAAGGTCATCTCCACACTGGAAGAGCCCACCCACAGTGCCCC
ACCAGCCAGGGCCGAAGCCCTGCTGGCCCCACCGTTGTGAGCATTGGTGGGGGCAAAGGCTGAGGGGGGACCTAC
TCCTCCCCCTCCTCCATGCTGTTCCTGTGGGCTCACACCGGCACCTGTGCACTTACTCTGCGACGATCCCCATGG
AACAGCCCTGCACGCCCAGGATGAAGGGGCCAGACCACGCCCTGCCTGAGACCACGGTCCAATCCAGCCTTCTT
CCCCAGGGTCCCCTGATGGCTGAGAGGGTGTGGGTGCCCTGTTGACCTACCCTGGACCGAGTGGACCACGACC
TCGTCCATTTAAACCCGGCTGACTCAGTGCAGGGACAGCCTGCACAGTGGTCCAGGGTCCAGCCCTCCGCCAGCC
CTGTTCCGCCCTCACTGGGTGTGGCCTGGCTTCTGGGACAGGCACCATGCTGGGCCGGGGTGTGGAATCACCGGGA
ACGCCCCCGCCCCCGCCCCGCTGCTCCCGGTGTGCAGCGGGTGCGGGTGCCGCTTAAACATTTCCCTGCTGAGTG
GCTCGTGTTCACAGTGGGCGGCTTCCCTGCGACGGAGGCAGGACCAGGCATTTAGCTAGTTAGAGACTCGCCTG
GGAAATTGCTCCATTCTGAGTAAACAGATATTTTCGCCCACCTAAAGGGGAAGCCCTGACAACAACATATACCAA
AAGACGAGGCGGCAAAGATCCAGCGGGGCTTCTGGGCGCCGGTTCCACGTGGGGTGGGAATTATTAGCACCAGCTT
GCTTCTCTGCCGGTGGGGCCAGCGCTGAACAGACCGGGGTGGAGTCAGGGCTGTGCTTTCCGCGTGGTTCTGCCA
CTTAGGGAGTGTGCCTTGGGCGGGCCATTTACATTCTGACCCTCACTTTTCTCATCTGTAAAACAGGCTGAT
GCCGTGCGGGCTAATGAGCCAATAAGCTCACACTTGGGCTGGCACCCACTGGAGGTGGG

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FIGURE 2831

MREAAFMYSTAVAIIFLVILVAALQGSAPRESPLPYHIPLDPEGSLELSWNVSYTQEAIHFQLLVRRLKAGVLFGM
SDRGELENADLVVLWTDGDTAYFADAWSDQKGQIHLDPQQDYQLLQVQRTPEGLTLLFKRPFGTCDPKDYLIEDG
TVHLVYGILEEPFRSLEAINGSLQMGLQRVQLLKPNIPPELPSDACTMEVQAPNIQIPSQETTYWCYIKELPK
GFSRHHIIKYEPIVTKGNEALVHHMEVFQCAPEMDSVPHFSGPCDSKMKPDRLNYCRHVLAAWALGAKAFYYPEE
AGLAFGGPGSSRYLRLEVHYHNPLVIEGRNDSSGIRLYYTAKLRRFNAGIMELGLVYTPVMAIPPRETAFILTGY
CTDKCTQLALPPSGIHIFASQLHHTLTGRKVVTVLVRDGREWEIVNQDNHYSHPHQEIRMLKKVVSVHPGDVLIT
SCTYNTEDRELATVGGFGILEEMCVNYVHYYPQTQLELCKSAVDAGFLQKYFHLINRFNNEDVCTCPQASVSQQF
TSVPWNSFNRDVLKALYSFAPISMHCNKSSAVRFQGEWNLQPLPKVISTLEEPTPQCPTSQGRSPAGPTVVSIGG
GKG

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FIGURE 2832A

GATTTCTCCACCCAGGTGAACTCCTCCCTCACCTCCCCGACGGGGCGAGGCTCCATGGCTGCCCCCTCGCTGCAC
CCGTCCCTGGGGCCTGGCATCGGGCTCCCCGGGACAGCTGCATTCTCCCATCAGCACCCCTGAGCTCCCCCATCAAC
GGCATGGGCCCCGCTTTCTCGGTCATCAGCTCCCCCATGGGCCCCCACTCCATGTCGGTGCCACCACACCCACC
CTGGGCTTCAGCACTGGCAGCCCCCAGCTCAGCTCACCTATGAACCCCGTCAGCAGCAGCGAGGACATCAAGCCC
CCCCCTGGGCCTCAATGGCGTCCTCAAGGTCCCCGCCACCCCTCAGGAAACATGGCTTCTTTCACCAAGCACATC
TGCGCCATCTGCGGGGACCGCTCCTCAGGCAAGCACTATGGAGTGTACAGCTGCGAGGGGTGCAAGGGCTTCTTC
AAGCGGACGGTGCACAAGGACCTGACCTACACCTGCCGCGACAACAAGGACTGCCTGATTGACAAGCGGCAGCGG
AACCAGTGCAGTACTGCCGCTACCAGAAGTGCCTGGCCATGGGCATGAAGCGGGAAGCCGTGCAGGAGGAGCGG
CAGCGTGGCAAGGACCGGAACGAGAATGAGGTGGAGTCGACCAGCAGCGCCAACGAGGACATGCCGGTGGAGAGG
ATCCTGGAGGCTGAGCTGGCCGTGGAGCCCAAGACCGAGACCTACGTGGAGGCAAACATGGGGCTGAACCCAGC
TCGCCGAACGACCCTGTACCAACATTTGCCAAGCAGCCGACAAACAGCTTTTACCCTGGTGGAGTGGGCCAAG
CGGATCCACACTTCTCAGAGCTGCCCCCTGGACGACCAGGTATCCTGCTGCGGGCAGGCTGGAATGAGCTGCTC
ATCGCCTCCTTCTCCACCGCTCCATCGCCGTGAAGGACGGGATCCTCCTGGCCACCGGGCTGCACGTCCACCGG
AACAGCGCCACAGCGCAGGGGTGGGCGCCATCTTTGACAGGGTGTGACGGAGCTTGTGTCCAAGATGCGGGAC
ATGCAGATGGACAAGACGGAGCTGGGCTGCCTGCGCGCCATCGTCTCTTTAACCTGACTCCAAGGGGCTCTCG
AACCCGGCCGAGGTGGAGGCGCTGAGGGAGAAGGTCTATGCGTCTTTGGAGGCCTACTGCAAGCACAAGTACCCA
GAGCAGCCGGGAAGGTTGCTAAGCTCTTGCTCCGCTGCCGGCTCTGCGCTCCATCGGGCTCAAATGCCTGGAA
CATCTCTTCTTCTTCAAGCTCATCGGGGACACACCCATTGACACCTTCTTATGGAGATGCTGGAGGCGCCGCAC
CAAAAGACTTAGGCCTGCGGGCCCATCCTTTGTGCCACCCGTTCTGGCCACCCCTGCCTGGACGCCAGCTGTTCT
TCTCAGCCTGAGCCCTGTCCCTGCCCTTCTCTGCTGGCCTGTTTGGACTTTGGGGCACAGCCTGTACTGCTCT
GCCTAAGAGATGTGTTGTACCCCTCCTTATTTCTGTTACTACTTGTCTGTGGCCAGGGCAGTGGCTTTCCTGAG
GCAGCAGCCTTCGTGGCAAGAACTAGCGTGAGCCAGCCAGGCGCCTCCCCACCGGGCTCTCAGGACACCCCTGCC
ACACCCACGCGGGCTTGGGCGACTACAGGGTCTTCGGGCCCCAGCCCTGGAGCTGCAGGAGTTGGGAACGGGGCT
TTTGTTCGGTTGCTGTTTATCGATGCTGGTTTTCAGAATTCCTGTGTGGCCCTCCTGTCTGGAGTGACATCTTC
ATCTGCTCTGAATACTGGTGCCAGCCAGCCCGTGACAGCTTCCCCCTAATCAGGAGGGGACAGCTGGGGGCGCA
AGCTGGTGTGTATCAGCAAAGACCTCAGCCGCTCGGGGATGAGAGGGGACTCGTGGGGCAAGCAAGCTGCCCT
GTGCTCTGAGTGAGGGGGAAGGTAGCCCCCTTTTCCAAAGATAACTCACAGTTTTGCCCTCGAGCCAATGAGAAC
ATGAGCTGCCCTCTGTGCAAGGTTTCGGGGCCACCTCCAGGCTGCAGGGGCGGGTCACTACCCCCCTGTTTCT
CTCTGCCTTGGTGTCTGTGTTTTCAGACTCCCGACTCCCGTTTCAGACCAGAGTGCCCCGGCCCCCTCCCCAGCCTG
AGTCTTCTCCTTGCTCTGCGGGGTGGGCTGAGGCTTGTCTTGTTCCTGCAGGGCTGGCCCTGGCTCGGGCAGG
GTGGGGCATCACACCTCACTGGCCTTGCTGGAGGCACAGGGCTCTGCGGACCTGCAGCCATCTGTGAGGCCCGC
GGGGATGGGAGGGGAGGAGGTGGCCTGTTGGTTTCCCTCAGAGGGGCGAGGTGGCCTGGAGAGAGAGGGGCTCA
GGAATGGGAGCCTCGTGGGTGGGGCAGATGCTCCGCGGCCTGGAGTGGCTCTGCCGGGGCATTTGGTGGGACCCC
TGCTCAGGCCTTCTCTCTGGCTGCCAGTTGTGTCTAAAAGACTCTTGGAATCTGAGAACC CGGAGTCGCAGCGCC
CTCGGGCCTGGGCCACACGCAGGCCCTGGTGGGACCACCCAGCCTGGTATTGTCCACGGACAGCGTTGTTACCC
AGAGCCTTACTTGGGAGCCTCACTGAACGCCTGCTCTGGTTGAAGGTGGGGTGGGGGCGGGGCTTGGGGCCTCCC
TGGCTCAGCCCAGTGCGGCCTGGCGCTCCTCCCGCAGGCTCTGCCCCCGGGCTCCGGTGGTGCGGGGCCCTCTCA
GGTTGAACTCGCCTCTTTTGCAGTGAAGGCCCTCCCTTTGGCCTGAGTACTTTTCCCGTTACGCCTCAGTCCC
GTGGACCCAGCCTTTGTGAGTGGCAGGTGCCTGAACAGAGGTGGATGGGGGGGATACCGGAGGGGGTCTTGTCT
TCCCAGCCGCAGTCTAGGAATGATGCGGGGGGTGGACGCCTTCTCCATAGTCTTTCCCCACCTGGAGCAGGGG
TTCTCAGTGGTGAGGGGAGCTGCCTACAGGTTGACCGGGAGGCAGTGGCTTGGAGAGGCAGCTTTCAGCCTT
GGTGGGGAAGAAAGTGTCCATTCTTTGCCTTCTTGAGTCTCCAGCCAGAGCTGAGCTTAGGCACCCGAGTGGAG
CCTGCAGCTGAGTCTGTGCCCAGACAGGCTGTGAGAGATTCCAGAAGCCTCTCCTCCCCGCGGCCCTCCACCCC
TGCCCTTTCAGCGTTGTGGATCCCTAGAGGTGGCCCCCTGCCGATCCACCGTCTGAGGCAGAGTGTGAGCCTC
ATACCTGTACCAGTCCCCGGCCAGCTGGGCCCCCTCCAGGCACTGCCAGGAAGCCCCAGCTGCCCTTGGCGGGT
GTGGTGAATAATGGCAGGAGGTGCAGTACTCTTGGGGCCCCAGCGGTGGGAGTGCAAAAGACCCAACGCCAACA
CCTGGTGCCTTCTGCAGCCAGCGCCACCCATCCGTGCCCGGACCCTTGGGAATGCCGCGGGCTCCAGAGGAAAA
AGCCAGGGACGGGGCCTCCGTTGCGGGGGGTGGCTGCTTCTTGGGAACCTTGTGCTTTCCGGCGCTGGCTGGC

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FIGURE 2832B

TGGCTGGCTGGCTGTAAAGCACTGAAGCCCCCGGCCGCCAACCCCTGAAAGCAGAACCTGGCCTCCCTGGCCAC
AGCAGCCTTACCCACCGCTCTACGTGTCCCGGGCACTTCCCGCAGCCTTCCCGTCCCTTTCTCATCGGCCTTGTA
GTTGTACAGTGCTGTTGGTTTGAAGAGGTGATGTGTGGGGAGTGC GGCTCATCACTGAGTAGAGAGGTAGAATTT
CTATTTAACCAGACCTGTAGTAGTATTACCAATCCAGTTCAATTAAGGTGATTTTTTGTAAATTATTATTTTGTG
GTGGGACAATCTTTAATTTTCTAAAGATAGCACTAACATCAGCTCATTAGCCACCTGTGCCTGTCCCGCCTTGG
CCCGGCTGGATGAAGCGGCTTCCCGCAGGGCCCCCACTTCCAGTGGCTGCTTCTGGGGACCCAGGGCACCCC
GGCACCTTCAGGCACGCTCCTCAGCTGGTCACCTCCCGGCTTTGCCGTTTCTAGATGGGGCTCCTGAGGCTCAGGAG
TGAAGATGCCACAGAGCCGGGCTCCCTAGGCTGCGTCGGGCATGCTTGGAAGCTGGCCTGCCAGGACCTTCCAC
CCTGGGGCCTGTGTGAGCCGCGGCCCTCCGCACCCTGGAAGCACACGGCCTCTGGGAAGGACAGCCCTGACCTT
CGGTTTTCCGAGCACGGTGTTTTCCCAAGAATTCTGGGCTGGCGGCCTGGTGGCAGTGCTGGAGATGACCCCGAGC
CCCTCCCGTGGGGCACCCAGGAGGGCCCTGCCGGAATGTGCAGCCTGTGGGTAGTCGGCTGGTGTCCCTGTGCT
GGAGCTGGGGTGCGTGATCTGGTGCTCGTCCACGCAGGTGTGTGGTGTAAACATGTATGTGCTGTACAGAGAGAC
GCGTGTGGAGAGAGCCGCACACCAGCGCCACCCAGGAAAGGCGGAGCGGTTACCAGTGTTTTGTGTTTTATTTTAA
ATCAAGACGTTTCCCTGTTTTCTATAAAATTTGCTTCGTGTAAGCAAGTACATAAGGACCCCTCCTTTGGTGAAA
TCCGGGTTTGAATGAATATCTCAAGGCAGGAGATGCATCTATTTTAAGATGCTTTGGAGCAGACAGCTTTAGCCG
TTCCCAATCCTTAGCAATGCCTTAGCTGGGACGCATAGCTAATACTTTAGAGAGGATGACAGATCCATAAAGAGA
GTAAAGATAAGAGAAAATGTCTAAAGCATCTGGAAAGGTAAAAAATAATCTATTTTTGTACAAATGTAATTT
TATCCCTCATGTATACTTGGATATGGCGGGGGGAGGGCTGGGACTGTTTCGTTTCTGCTTCTAGAGATTGAGGTG
AAAGCTTCGTCCGAGAAACGCCAGGACAGACGATGGCAGAGGAGAGGGCTCCTGTGACGGCGGCGAGGCTTGGGA
GGAAACCGCCGCAATGGGGGTGTCTTCCCTCGGGGCAGGAGGGTGGGCCTGAGGCTTCAAGGGTTTTCTTCCCT
TTCGAGTAATTTTTAAAGCCTTGCTCTGTTGTGTCCTGTTGCCGGCTCTGGCCTTCCTGTGACTGACTGTGAAGT
GGCTTCTCCGTACGATTGTCTCTGAAACATCGTGGCCTCAGGTGCCAGGGTTTGATGGACAGTAGCATTAGAATT
GTGGAAGGAACACGCAAAGGGAGAAGTGTGAGAGGAGAAACAAAATATGAGCGTTTTAAATACATCGCCATTC
AG

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FIGURE 2833

CTGATGGAATAACAAAGACAACAGGCTTTTGCGCCACGCGGCGATCTTCCAAAGGCCCGGATGTGCTTACAGAG
TCACCAAAGACGCGCAGCTCAGCGCACCCACCATGCTCCAGCCCCCAGCTCGCCCCGACCCATCCTGTTTCGTGA
ATAGGTCTCAGGGGTTGGGGGAGGGACTGCCAGATTTGGACACTATATTTTTTTCTAAATTCAACTTGAAGATGT
GTATTTCCCTTGACCTTCAAAAAATGTTCCAAGGTAAGCCTCGTAAAGGTCATCCCACCATCACCAAAGCCTCCG
TTTTTAACAACCTCCAACACGATCCATTTAGAGGCCAAATGTCATTCTGCAGGTGCCTTCCCGATGGATTAAAGG
TGCTTATGTTTTTGTGAGTTTTAAGTAAATATTTGTATTGTATTGTTATAAATGTTAAGTGTGCCTGGCTTTCAA
TCATGCACGGAAACCCAGTCTCAGTCCCACGGACAGAATGGGCGAGGCATGGATTCTGGGTTCAGTACCGTTCT
GATTAGAAATAGGAAGTCTCCCCACCCCGCCCTGGCCAAGAACGTGCAATAAATTGGAAGTTTGCCCCGGGGCA
GCAAGAATTTATGCTGCCATTGAAAAGCAGGTACAGTGCCCTTTTTCAGACAGTTTTTGATTGCTCTAGACTT
TTTTTTTTTTAATAGGGAAAAAATTTGATAATTTCTTTTTTCTACATGCACTTAAGACTAAAACACAGGTTTG
GATTAATTTTATTTGCTTCCTTTTTCCGCTTTTTCTTCCCGCAGAGCCTGATGGGAGAATGTCCAGGGCAGGGAAA
CCACATTTTTTGTAGGTGATAACTCAATGAAAATTGGTGCTTATTTTTTACACTTCTCTCTTGTGGCTCTCTGT
GGTGCTATCTATCTGTTTTAAGGTCTCCTTGAAGGCGCACTGGGGACCCCTGGCCATGCCTCGTTCTCCCTGCTTT
CTTTATCCTGTTATTGCCTCCACAGTCTGTTGCCAAGGACTCTAAGATCAATGCACGTCACTTTCCCTTTCCACTG
GGCAGGATAGCCAAGCACACTCCCTCCTGCGCTCTCCCGCCCCGGTGCGTCCACTCCCAGGGGCTGTTATGAGGA
CTGGGTTGTGCCTACTTGATTTGAAAACACACACAAGCAATAAAAAAGCCTCTTCCTGCATTGTCTGTGGTGTGAC
CATAGCAGATTATATTTGGTTCCTGAATGTTTGTGGTGCTAATTTCTGTGTTTGTTCGAAGCCGTTTCAGTCATGC
CATGCGCTGCCTCGGTAGATGGAGTAATGTACAATGAACTCCATGAGTCTCTCCAGGGCTGCCTGCAGCACGTCT
TTTCCAAGTAGCCTATTTGGATTCCCATCTCAAATGTCTCGGATGCGAGCGTCAGCGGCTCCAGAGCTCGGGGCG
GGTGAGGTCCCTTTGGGGAACCTTTCTGGCCATCGAGGTGCGGGGGCTGCCGTCTGTGGGCAGGAGGACCCG
AGGGGCAGCCAGGAAAAGGCGATCTCTTCACTGTGAAAAGTTGCCCGGGTGCGAGCGCCTTTTCCTTCTACCATGGG
AAATGCAGGCTGGGCCCCTTGGGGTGAGCCTGCGGGGCTCTGGTGCTGTCCCCGACCCCCACCACCAGAAATGC
AGTTCCAGCTTAGGAAGCCACAAACAAGCCACCCAGGAGGAACAAAACACCGCCAGCGTGGATTTTCCAAATTT
CCTGGAAAGTAAGTCTCGCTCTTGCCAAAGAAAAGTCTGGCTTGGAGAGTCTCTGGAGCCCAGGATGCCAGCATG
TGCCAATGACTGTACCTTCATCTCTTCAAAGAAAAGCCATAGCCGAGGACTGTCCCGCGACCCCGTGGACTG
CGTCTAGGTGATGTGATTCTGTTTTCAATTTCTCATCCCATCCAATTTGTCCTTTTCTCCTGTCAATTTCTTCCTC
TGTGGTCCCTTCAAAGTTGTTATAATTTGTACTGAATTTCAAATGTGTCCCGTTCTCCCCAGACCACTCTAGCC
ACAGTATATTGCAATAAAATTAATTTCTTATATTTGCAGAAATTTCTTTGGTGTAATTTTATTTTTCTCTCAAT
ATATATAATTGGACAAACGCTGGCAAAAAGAAAAAATGGTAAGCAAAAAACCCAAGATAAAGTTTCGAGGACAT
CAGGCCTTTTGAAATACAATGTCAAATGACACATTGTACGGTTTCAAAAAATCCGCTAGACATGTCATAAGTTTT
AACTGTAATGCCAGGAAAGGATATCTTAAAAATATTCTAAACTTGTGTAACAAAGGAATAATTAAGTGAATAGT
TTTTCAATAAATCGAGTTGGGTGTTTCCACCGT

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FIGURE 2834

CAGGGAGTTGAGAACTGTGGCACAAAGGCGAGAGCTGGTTTCCTCTGCCCTGTTAGAGCTGGGGGACTCTTCAGA
GTCAAAGGCCAGAGAGC**ATGG**AGCTGAGTGGAGCCACCATGGCCCGGGGGCTCGCTGTCTGCTAGTCTTGTTCC
TGCATATCAAGAACCTGCCTGCCCAGGCTGCGGACACATGTCCAGAGGTGAAGGTGGTGGGCCTGGAGGGCTCTG
ACAAGCTCACCATTCTCCGAGGCTGCCCAGGGCTGCCCAGGGGCCCCAGGGCCAAAGGGAGAGGCAGGTGTCATTG
GAGAGAGAGGAGAACGCGGTCTCCCTGGAGCCCCCTGGAAAGGCAGGACCAGTGGGGCCCAAAGGAGACCGAGGAG
AGAAGGGGATGCGTGGAGAGAAAGGAGACGCTGGGCAGTCTCAGTCGTGTGCGACAGGCCCACGCAACTGCAAGG
ACCTGCTAGACCGGGGTATTTCTGAGCGGCTGGCACACCATCTACCTGCCCGACTGCCGGCCCCCTGACTGTGC
TCTGTGACATGGACACGGACGGAGGGGGCTGGACCGTTTTCCAGCGGAGGATGGATGGCTCTGTGGACTTCTATC
GGGACTGGGGCCGCATACAAGCAGGGCTTCGGCAGTCAGCTGGGGGAGTTCTGGCTGGGGGAACGACAACATCCACG
CCCTGACTGCCCAGGGAAGCAGCGAGCTCCGTGTAGACCTGGTGGACTTTGAGGGCAACCACCAGTTTGCTAAGT
ACAAATCATTCAAGGTGGCTGACGAGGCAGAGAAGTACAAGCTGGTACTGGGAGCCTTTGTGCGGGGCAGTGCGG
GTAATTCTCTAACGGGCCACAACAACAATTCTTCTCCACCAAAGACCAAGACAATGATGTGAGTTCTTCGAATT
GTGCTGAGAAGTTCCAGGGAGCCTGGTGGTACGCCGACTGTCATGCTTCAAACCTCAATGGTCTCTACCTCATGG
GACCCCATGAGAGCTATGCCAATGGTATCAACTGGAGTGCGGCGAAGGGGTACAAATATAGCTACAAGGTGTCAG
AGATGAAGGTGCGGCCCGCCT**TAG**ACGGGCCAGGACCCCTCCACATGCACCTGCTAGTGGGGAGGCCACACCCACA
AGCGCTGCGTGTGGAAGTCACCCCATTTCCCCAGCCAGACACACTCCCATGACGCCCACAGCTGCCCCTTTGCC
CCCAGCTCAGTCAAGCCGCCACATGCCCACACCTCACCAGAGGGAGAATTATGTTTCTAAATATGTTTACTTTG
GGACAGAAAAAAAAA

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FIGURE 2835

MELSGATMARGLAVLLVLFHLIKNLPAQAADTCPEVKVVGLEGSDKLTILRGCPGLPGAPGPKGEAGVIGERGER
GLPGAPGKAGPVGPKGDRGEKGMERGEKGDAGQSQSCATGPRNCKDLLDRGYFLSGWHTIYLPDCRPLTVLCDMDT
DGGGWTVFQRRMDGSVDFYRDWAAYKQGFQSQLGEFWLGNDNIHALTAQGSSELRVLDLVDFEGNHQFAKYKSFKV
ADEAEKYKLVLGAFVGGSSAGNSLTGHNNNFFSTKDQDNDVSSNCAEKFQGAWWYADCHASNLNGLYLMGPHESEY
ANGINWSAAKGYKYSYKVSEMKVRPA

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FIGURE 2836

GCGCGGGGGAGCCATTAGGAGGCGAGGAGAGAGGAGGGGCGCAGCTCCCGCCCAGCCCAGCCCTGCCAGCCCTGC
CCGGAGGCAGACGCGCCGGAACCGGGACGCGATAAAATATGCAGAGCGGAGGCTTCGCGCAGCAGAGCCCCGCGCGC
CGCCCGCTCCGGGTGCTGAATCCAGGCGTGGGGACACGAGCCAGGCGCCGCGCCGGAGCCAGCGGAGCCGGGGC
CAGAGCCGGAGCGCGTCCGCGTCCACGCAGCCGCGCGCCGCGCCAGCAGCCAGGGCCCTGC**ATG**CCAGGTCGTTGG
AGGTGGCAGCGAGACATGCACCCGGCCCCGGAAGCTCCTCAGCCTCCTCTTCCTCATCCTGATGGGCACTGAACTC
ACTCAAAATAAAAGAGAAAACAAAGCAGAGAAGATGGGAGGGCCAGAGAGCGAGAGGAAGACCACAGGAGAGAAG
ACACTGAACGAGCTTCCCTTGTTTTGCCTGGAAGCCACGCTGGCTCCCTGGCTCTGCCCAGGATGTGCAGTCCA
AATCCCAATCCAGCAGTGGGGTTATGTCGTCCCGCTTACCCTCAGAGCCCTTCTCCTGGTGCTGCCAGACGATC
AGCCAGTCCCTCCTGGAGAGGTTCTGCATGGCCTCTAGGAGAGAAGTTTTCTTGGCCCCAGGAAGGCCTGGTGGA
GGGTGGTGGTTGTGCACTGTTGCTGGACAGATGCATTTCATTCATGTGCACACACACACACACATGCACACACA
GGGGAGCAGATACCTGCAGAGAAGAGCCAACCAGGTCCTGAT**TAG**TGGCAAGCTGCCCCACAAAGGGCTATGCCT
GTGTCTTATTGAGACACCTTGCAAAGAGATGGCTGATTCTGGGTGGTCCTGGACATGGCCGCACCCAAGGGCCC
TCCAAGCCTTAATGGCACCTGAAGCCTCCATGCCAGGCCAAAAGATGCTTTTCTCCCTAAAAAAAAAAAAAA
AAAAA

3077/6881
FIGURE 2837

MPGRWRWQDMHPARKLLSLLFLILMGTELTQNKRENKAEKMGGPESERKTTGEKTLNELPLFCLEAHAGSLALP
RMCSPNPNPAVGLCRPAYPQSPSPGAAQTISQSLLERFCMASRREVFLAPGRPGGGWWLCTVAGQMHSFMCTHTH
THAHTGEQIPAESQPGPD

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FIGURE 2838

TGGTTACTGAGATGGTGAAAACCAGGGGAGACCTGGGGGACATCACAAAGCTTGGTTCCTACCAGGTTTATGGAGC
CGTACATCTTTGGGAGCCGCCTGGACCACGACATCATCGACCTGGAACAGACAGCCACGCACCTCCAGCTGGCCT
TGAAC TTCACCGCCCACATGGCCTACCGCAAGGGCATCATCTTGTTTATAAGCCGCAACCGGCAGTTCTCGTACC
TGATTGAGAACATGGCCCGTGACTGTGGCGAGTACGCCCACACTCGCTACTTCAGGGGCGGCATGCTGACCAACG
CGCGCCTCCTCTTTGGCCCCACGGTCCGCCTGCCGGACCTCATCATCTTCCTGCACACGCTCAACAACATCTTTG
AGCCACACGTGGCCGTGAGAGACGCAGCCAAGATGAACATCCCCACAGTGGGCATCGTGGACACCAACTGCAACC
CCTGCCTCATCACCTACCCTGTACCCGGCAATGACGACTCTCCGCTGGCTGTGCACCTCTACTGCAGGCTCTTCC
AGACGGCCATCACCCGGGCCAAGGAGAAGCGGCAGCAGGTTGAGGCTCTCTATCGCCTGCAGGGCCAGAAGGAGC
CCGGGGACCAGGGGCCAGCCCACCCTCCTGGGGCTGACATGAGCCATTCCCTGTGATGTTCACTCTCCTCCCAA
GCAAACCACAGCCAGCTGGGTTGGTGGGACAGCCAGGCCAGATGACCTGATTCCAGCAAAAATAAACTCAGATT
TGGGCAAAATG

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FIGURE 2839

CTGGTCCAGGCACAGCCTTGCCACAGTCCAGAGAAGGCCACCTCTAATGGGGCCTGCAGGCATTGTGGCCACAGG
AGGAAAGGGCCGGGGGGCCCCCTCTCCCCACTCCTGGGGCAGCTCCCTTGCCCTTCCCCAGCCTCAGGCACTCTCA
TCATCTCCGTTGGCCTCTTCTGGGGGCTCTTGGGGTTCATCTCCAGGGTGGAAAACCTTGAGGGCCCCCTCCTGGC
AGAGTCAAGGATGGGGTCAGCGAGACCCCATCCCCTCAGCCCTCAACCTTTGTTTCACCCAGAGCCCCCTCTGAAT
CCTGGGAGCTGGCTCTTTCCACTCCCCGAGGGGGCCCTCAGGCCCACCCTGGCTGTCCCAGCATGGGCCCCCGCGG
CTTCTGCGCTGCACCCTTCCCGTCCCTCCCTGCTCCTCATGGTCACTAGTGCCTGCTTATCCACTGGGTCATCCC
CTCGGCCAGGGCCCCCTCCTGCCCTGGAAGCCCAGCAAGCGCCCACTCGTAGCTCCTCAGCGGGTCCCTCGCCGGCC
TGTGCCAGGTGCAGGGGCCAGTGGGAGGACAACAGGAGCCACGCAGGCCATCAGCGCAAGAGCAAACGCACATGG
CAACGTTGGTCCGCTCAGCCACTGGTTCTGTGGTGGAACGGTGGATGTCTGCACTGTGACATCAGCTGAGTACGA
GAACTGCCGGTTGCGGCTTATAAACAAGATGATGCCCTTGCGGTAGGCCATGTGGGCGGTGAAGTTCAAGGCCAG
CTGGAGGTGCGTGGCTGTCTGTTCCAGGTCGATGATGTCGTG

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FIGURE 2840

MAPAASALHPSRPSLLLLMVTSA~~CL~~STGSSPREG~~PL~~LPWKPSKRPLVAPQ~~RV~~LAGLCQ~~VQ~~GFVGGQQE~~PRR~~PSAQE
QTHMATL~~V~~RSATGSV~~VER~~WMSAL

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FIGURE 2841

GGGAAGCGACGAGTCCGGGACGCCCAGCGCGGGCCCCGGAGCAGGGGGAAGGGAAGTGC GGCTCGGTTCGGCGCGGG
TGGAGGGGGGCGTGAGGCCGCCCTACGGTGCCGTCGAGGGACGGCGCTACGGCTCCACGCTAGGCCAAACGCCT
CCGGCGGGCCGCGCCCCGAGAGCCCCCTTACCTGCAGGGCGACCCCAGCCGGCGACGCGTGAACCACGCCCTCAGCC
GCCTTGCCAGCGCCCCCAGCCGCGCGCCCCAGCACCATGCGGCCGCCCTGCGCACGGAGCCCCGAGGGACAGGGG
CACCCGCGAGGCCCGGGCCCTAGCACCGCCGGCCGGCCCCGAGGTCCGGGACGCCGGCGCCGCCGCGGAGAGGGCA
CCGGGCCGACGCCTCCCCCAGGGTCAGCTGCGGGCTCCCAGGCCTAGGCGCCCATGACCCCTACGCCAACAGCC
GCCTGGACACCGCCGCCGCCACTGCGACCTAGCGCCGCCGCCGCCGGGGCCCAATGCCGGTCATGCCCATTCGCG
GGCGGGTGCGCTCCTTCCACGGCCCCGCACACCACCTGCCTGCATGCGGCCTGCGGGCCCGTGCGCGCTCCACCC
TGGCCCGCACCAAGTACAACAACCTTCGACGTGTACATCAAGACGCGCTGGCTGTACGGCTTCATCCGCTTCCTAC
TCTACTTTAGCTGCAGCCTGTTCACTGCGGCGCTCTGGGGTGCGCTGGCCGCCCTCTTCTGCCTACAGTACCTGG
GCGTTGCGCTCCTGCTGCGCTTCCAGCGCAAGCTGTCGGTGCTGCTGCTGCTGCTGGGCGCCGGCGCGTGACT
TCCGCTGGTGAACGAGCTGCTCGTCTATGGCATCCACGTCACCATGCTGCTGGTCGGGGGCTGGGCTGGTGCT
TCATGGTCTTCGTGGACATGTGAGGGCCGTGGGTGCGAGCTTGATGTATCGTCCCGCCTGTGGCTGTGTTCTCT
CCATGGGTGGGGTCGGCCAGCGCCTTCCCTTCGCCCATCCCCAGGCAGTCGCTGCTGCCCGGCGCCACGGAGA
GAAAAGAAAGGGCTGAGACTTCTGTGATGGGGGCGCGGACACCACCCCTAGGCTGGCTTCCTGGACCCACCCTCC
CCGTATGCACTCTCAGGGGCGAGCGCCACCTGCCGGTGCTCCTGCTCACATGTCTTCGGGTGCTACTGCGGGGT
GGGCCCCCTCGTTCCGCTCTCTGTGGGCTCTCTCCAGGACCACAGCTGCCAGGGACTTTAGACATCACCCCTGGG
AGGCCCCCTGGACACAGAGGGCTGTGTGCCCAGGAGCAATTCCGGAGGGGGCCCTCCTGGCTGCACAGCCCTTC
TGCGTGCCCTGGCCCCAGCCCCAGCCAACGGGACACGGAAGGCTCCCTCGCTGACACACCACACTGCCACAAAG
CTGCTTACTCTGCCCTGGGCGCCTGAGGCCTGGCACTGCCCGCGGACCACCCTGTGTGTGTCATCCTGAGGGGC
TGTGTGGGTCTTGAGTCCCCAGCCAGCCTTCAGGGTCCCCTTGGAATTGTGTAGATGCAGTCTAGCGGGGGGCCGG
AGAAGGGCTCAGGTGGGAGGGGCTCAGCAGGCTCCAGCTCAGGGGCTGGCCTGGGGGGAACCTTGGGAGCCAG
GGGCTGACTCCAGCAACACTGGCCTGTCTGCCTGTTCTGGGAGGGCTGTGAGGATGTCTTGCAATGCTCTGGAT
TTCTGCGGAGGCACCTCCATTCTTTCTGGCTTTTTTTCGGGGGAGGGCTTTGGGCCTCTTTCTTTGAGGGAAC
ACCGTCAAAGAAAGCCTGGGAGATCGAGGCTTCAGTGAGCCAGGATGGAACGCGTGTCCCAAGTGTCCGGAGCA
GGCGGCAGAGGCCTCAGTGCGGCAAACACAGCCCCAGAGCCTGTGTGGCACCAGCAGCATCTTAGAGCCCCAGGT
ATATGCTGAGATCTTATCTCACGCTGTCTCCAGTGCTTGGGGGGCCCAAATGATGGCACAGGGGCAGGTGGGCT
GGAGGGGCGCAGATGCCTGTGTTTCAAGGAGGGTGGCCACCATGGGCCGAGGTCTCACCCAGGACCCCTTGCTCTG
CTCCTCAGCCTTGCACTACGGCAGCACTATGGTGGACTGCCCATGGCCGTGTGACTTTGGGGGCAAGTGGGAGG
GCGCCCTGAATAATGATTGCAAGGACAACAGGCAGAGGCTACCCTAGAGCAGGACACAGGGTGTGGTACTGACAA
CCCTAGTGTCACCTCAAATCCATGTCCCCACACTCTGGGCATGGGTGGGACTTGTGACCCTACCCTGTGAGGCGG
ACCAGTGGCCAGGAGCCATGAGGACAGTTGTGTGCCACTGGAAGAGAACTTTTTGAAAAACCTAAATCAGGT
AGAGAAAGCAAAAAATCTCTGGCCGTAAACCGTGCTCTCTAATTTATCGGCAGCTTCTGTGGATGACCTCTGATG
AGCCCGGGCTGCGTCCACGCCCTGGGCAGGTAGGCGGGAGCTTCCCTGCGTGGGCCTCATTTCTTGCTGCAGAGA
ATCTTTTGCACTAAGTCATGCTGTTTCTCAAAGAAAGCTTTGTTTTTTGTTAACGTATTACTCAGAGTCACCCAA
GCCTCTTGGCTGAGGGTGAAGGTGGGACGGGAGGCGGGAGGGGGCTGGTGGTGCCGCTCGTGCGGTGTCAACGCT
GCAGGGAGTTGTGGCACCTTGGTGCCCTCTGAGCACCTGGCCGCCTGCTGTCCCCGGTGCTGTGAAATTCGTCA
TGCCATGACCCACCTGCATTAAACCTATTTTTTTTAAATGTG

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FIGURE 2842

MLWISAEAPPFLSGFFCGGGLWASFFEGTPSKKAWIEASVSQDGNACPKCPEQAAEASVRQTQPQSLCGTSSIL
EPQVYAEILSHAVLQCLGGPNDGTGAGGLEGRRLCSGRVATMGRGLTQDPLLCSSALQSRQHYGGGLPMAV

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FIGURE 2843

CTGGGCTGGTGCTTCATGGTCTTCGTGGACATGTGAGGGCCGTGGGTGCGAGCTTGATGTATCGTCCCGGCCTGT
GGCTGTGTTCTCTCCATGGGTGGGGTCGGCCAGCGCCTTCCCTTCGCCCATCCCCAGGCAGTCGCTGCTGCCCG
GCGCCACGGAGAGAAAAGAAAGGGCTGAGACTTCTGTGATGGGGGCGCGGACACCACCCTAGGCTGGCTTCCT
GGACCCACCCTCCCCGTATGCACTCTCAGGGGCAGCGCCACCTGCCGGTGGCTCCTGCTCACATGTCTTCGGGT
CGTACTGCGGGGTGGGCCCTCCGTTCCGCCTCTCTGTGGGCCTCTCTCCAGGACCACAGCTGCCAGGGACTTTAG

ACATCACCCCTGGGAGGCCCTTGGACACAGAGGGCTGTGTGCCCAGGAGCAATTCCGGAGGGGGGCCCTCCTGGCT
GCACAGCCCCTTCTGCGTGCCCTGGCCCCAGCCCCAGGTATATGCTGAGATCTTATCTCACGCTGTCCTCCAGTG
TCTGGGGGGCCCAAATGATGGCACAGGGGCAGGTGGGCTGGAGGGGCGCAGATGCCTGTGTTTCAGGGAGGGTGGC
CACCATGGGCCGAGGTCTCAGCCAGGACCCCTTGCTCTGCTCCTCAGCCTTGCACTCACGGCAGCACTATGGTGG
ACTGCCCATGGCCGTGTGACTTTGGGGGCAAGTGGGAGG

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FIGURE 2844

MGGVGQRLPFAHPPGSRCCPAPTERKERAETSVMGARTPPLGWLPGPTLPVCTLRGSAHLPVAPAHMSSGRTAGW
ALRSASLWASLQDHSCQGL

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FIGURE 2845

CTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGAACGGGGCC
ACTGCGGGGTCTGGCGTGCAGCCGGCCCAGTAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAA
GCCGATGGCTGGAGGATGGGCAGAGGGGACTCGCGCCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGC
TTGCGGCTGTGGCCCGCTGGTGGGCTGAGCCACAAGCCCCCGATGGCCCAGGAGCAGATGGGAGGACCCCGAGG
CCAGACGCACACTGTCCGAGCCCTCTGCTCAGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAG
CCCACAAGCTGCATCAGGCTCTCTGGGAGAGGAGGGGCCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGG
CCACAGGGAGCCGGAATCGGGGCCTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCG
TTGCTGTTTTTTTATAAACACACTCTTGGAAGTGGCTGGGGAGCTGTGGTCACTCACAGGGCGGGCAGGTGACCA
GGCGGTGGAGGCGACGCTGTGTCTTCCCAGCTGCCCTGCCTAGAGGCCCAGGGTGCAGGCACCGCCACCCACCC
GTGTTCCCTATCCAGGAGTGGACCCACATCACCT

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FIGURE 2846

CGCGGGGGAGAAGCGGGAGCGGGAGCGGGAGCGAGCTGGCGGCGCCGTCGGGCGCCGGGCCGGGCCATGGAGCTG
TGGCCGTGTCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGGCCGAGTTCTACGCC
AAGGTCGCCCTGTACTGCGCGCTGTGCTTCACGGTGTCCGCCGTGGCCTCGCTCGTCTGCCTGCTGCGCCACGGC
GGCCGGACGGTGGAGAACATGAGCATCATCGGCTGGTTTCGTGCGAAGCTTCAAGTACTTTTACGGGCTCCGCTTC
GAGGTGCGGGACCCGCGCAGGCTGCAGGAGGCCCCGTCCCTGTGTCTCATCGTCTCCAACCACCAGAGCATCCTGGAC
ATGATGGGCCTCATGGAGGTCCTTCCGGAGCGCTGCGTGCAGATCGCCAAGCGGGAGCTGCTCTTCCTGGGGCCC
GTGGGCCTCATCATGTACCTCGGGGGCGTCTTCTTCATCAACCGGCAGCGCTCTAGCACTGCCATGACAGTGATG
GCCGACCTGGGCGAGCGCATGGTCAGGGAGAACCTCAAAGTGTGGATCTATCCCAGGGGTACTCGCAACGACAAT
GGGGACCTGCTGCCTTTTAAGAAGGGCGCCTTCTACCTGGCAGTCCAGGCACAGGTGCCCATCGTCCCCGTGGTG
TACTCTTCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTTCTTCACTTCAGGAACAGTCACAGTGCAGGTGCTG
GAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCTGCGCTCGTGGACACCTGCCACCGGGGCCATGAGG
ACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGAACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCAG
TAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAAGCCGATGGCTGGAGGATGGGCAGAGGGGAC
TCCTCCCGGCTTCCAAATACCACTCTGTCCGGCTCCCCCAGCTCTCACTCAGCCCGGGAAGCAGGAAGCCCCCTC
TGTA CTGGCCTCAGACACAGGCCCCTGGTGTCCCCTGCAGGGGGCTCAGCTGGACCCTCCCCGGGCTCGAGGGC
AGGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGCTTGCGGCTGTGGCCCCGCTGGTGGG
CTGAGCCACAAGGCCCCCGATGGCCAGGAGCAGATGGGAGGACCCGAGGCCAGACGCACACTGTCCGAGCCCT
CTGCTCAGCCGCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAGCCCACAAGCTGCATCAGGCTCTCT
GGGAGAGGAGGGGCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGGCCACAGGGAGCCGGGAATCGGGGC
CTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCGTTGCTGTTTTTTTATAAACACACT
CTTGGAAGTGG

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FIGURE 2847A

GGGGAGAACACTTCTTTGTCTGGGATTCCAACCAGCTCTGTCCTTAGCTTGTCTCTGCCTAGCAGTGTGCCCCAA
AGTAATTTTCCACAAGGTTCTGGTGCTTCCGAAATGGTTTCTAATCAGCCTGCTAATTTGCTGGTTCAACCACCA
TCCCAGCCAGTTCCAGAGAACTTGGTTCCAGAAAGTCAAAAGGATCGTAAGGCAGGAAGTGCTCTTCCCGGATTT
GCTAATAGCCCTGCTGGAAGCACAAAGTGTGGTGTAGTTCCACCTGCACACGGCACCCCTGGTGCCTGATGGTAAT
AAGGCAAACCATTCCAGTCATCAGGAAGACACTTACGGAGCCCTAGACTTTACCTTAAGCAGGACTTTGGAAAAT
CCTGTAAACGTGTACAACCCGTCCCATTCTGACAGCCTCGCTTCTCAGCAAAGTGTTGCCAGTCATCCCAGACAA
TCTGGGCCCTGGGGCGCCTAACCTTGACCGTTTTTATCAGCAGGTCACGAAAGATGCCAGGGCCAGCCTGGCCTC
GAAAGAGCCCAGCAGGAGCTGGTGCCACCCCAGCAACAGGCTTCTCCCCACAACCTACCCAAAGCCATGTTTTCG
GAGCTGTCAAATCCAGAAAGTCTGCCCCGACAGGGACAGGCCCAGAACTCAGCACAGTCACCAGCAAGTCTGGTT
CTGGTCGACGCGGGTCAGCAGCTGCCCCCTCGGCCCTCTCAGTCCTCTAGCGTGTCTCTGGTGTCCAGTGGCTCC
GGCCAGGCAGCTGTGCCGTGAGAGCAGCCGTGGCCACAGCCAGTGCCTGCACTTGCCCCCGGGCCACC GCCTCAG
GACCTGGCCGCCTACTACTACTACCGGCCTTTGTACGATGCCTACCAGCCTCAGTACTCTTTGCCGTACCCACCG
GAGCCTGGCGCAGCCTCCCTCTATTACCAGGATGTCTACAGCCTCTATGAGCCTCGATACAGGCCCTATGATGGT
GCTGCGTCTGCTTACGCCCAGAACTACCGCTATCCCAGGCCGAGCGGGCCAGCTCCCAGCCAGCCACTCCTCG
GAACGGCCACCTCCCAGGCAAGGATATCCTGAAGGATACTATAGTTCCAAAAGTGGATGGAGCAGTCAGAGCGAT
TACTATGCAAGCTATTACTCCAGCCAGTACGATTATGGAGATCCAGGTCCTGGGATCGTTACCCTACAGTGCT
AGAGTCAGGGACCCCCGCACCTATGACCGGAGGTATTGGTGTGATGCAGAGTATGACGCATACAGGAGAGAGCAC
TCTGCCCTTCGGGGACAGGCCCGAGAAACGTGACAACAACTGGAGGTACGATCCTCGCTTACGGGGAGTTTTGAC
GATGACCCCGATCCGCACAGAGACCCCTTATGGGGAAGAGGTGGACCGGCGCAGCGTCCACAGCGAGCACTCGGCA
CGGAGCCTGCACAGCGCACACAGCCTGGCCAGCCGCGCAGCAGCCTCAGCTCCCACTCGCACCAGAGTCAGATT
TACAGAAGCCACAATGTGGCTGCCGGTTCTACGAGGCCCGCTTCCCTCAGGCTCCTTTACGGCGATTTTTGCC
TACGGCACCTACCGCAGCAATTTTACGAGTGGCCCCGGCTTCCCAGAGTATGGCTACCCCTGCCGACACCGTCTGG
CCTGCCATGGAGCAAGTTTCATCAAGACCAACTTCTCCTGAAAAATTTTTCAGTGCCTCATGTCTGTGCCAGGTTT
GGCCCTGGCGGTGAGCTTATCAAAGTGATTCCCAATCTGCCTTCAGAAGGACAGCCGGCCTTGGTGGAGGTCCAC
AGCATGGAGGCCTTGCTGCAGCACACGTCTGAGCAGGAGGAGATGCGGGCGTTCCCGGGACCCCTGGCCAAAGAC
GACACCCATAAGGTGGATGTCAATTAATTTTGACAGAACAAAGCTATGAAATGTTTGCAGAATGAAAACCTTAATT
GACAAAGAGTCTGCAAGTCTTCTTTGGAATTTTATTGTTCTCTTATGCAGACAAAATGGGACCGTGGTAGGGACC
GACATTGCGGAGCTTCTGTTACGAGACCACAGAACAGTGTGGCTTCTGGGAAGTCGCCCAATGAAGCAAACCTG
ATTGATTTACGAATGAGGCAGTGGAGCAGGTGGAAGAGGAGGAGTCTGGTGAAGGCCAGCTCTCTTTCTCACT
GGTGGTCCGGCGGTGCGGCCAGCTCGCTCGAGAGAGAGACCGAGAGGTTGAGGAGCTGTTGCTGTATGGCCGT
AAGAAGGATGCTTTGGAGTCTGCAATGAAGAATGGCCTGTGGGGTCACGCTCTGCTACTTGCAAGTAAGATGGAC
AGCCGGACACACGCCCCAGTCATGACCAGGTTTGCTAACAGCCTCCCAATCAACGACCCCTCTGCAGACAGTCTAC
CAGCTCATGTCCGGACGGATGCCTGCCCGCTCCACGTGCTGTGGAGACGAGAAATGGGGAGATTGGAGGCCGCAC
CTCGCCATGGTCTTGTCCAACCTTGAACAACAACATGGACGTCGAGTCCAGGACGATGGCTACCATGGGCGACACT
CTGGCTTCAAGGGGCCTCTTGGATGCGGCCCCACTTCTGCTACCTCATGGCCCAGGCGGGGATTTGGTGTTTACACG
AAGAAAACTACAAAGCTTGTCTTAATCGGATCCAATCACAGTTTGCCATTCTTAAAGTTTCGCAACCAACGAAGCA
ATCCAGAGGACGGAAGCCTATGAGTACGCCCAGTCCCTGGGTGCCGAGACCTGCCCCCTGCCTAGTTTCCAGGTG
TTTAAGTTCATCTACTCCTGCCGCTGGCGGAAATGGGGCTGGCCACGCAAGCCTTCCACTACTGTGAGGCCATC
GCGAAGAGCATCCTGACGCAGCCGCACCTGTATTCCCCGGTGTGATCAGCCAGCTTGTGCAGATGGCTTCCCAG
TTACGACTCTTCGATCCCCAGCTGAAAGAGAAGCCAGAAGAGGAGTCCCTGGCCGCACCCACGTGGCTGGTTTAC
CTGCAGCAGGTGGAGCGGCAGATTAAGGAGGGGGCTGGAGTATGGCATCAGGATGGAGCCCTCCCGCAGCAGTGT
CCTGGCACTCCGAGTTCCGAGATGGAGCAGTTGGACAGGCCAGGACTCAGTCAGCCAGGAGCCCTGGGGATCGCC
AACCTCTGCTGGCGGTGCCTGCACCGAGCCCTGAGCACTCGAGCCGAGCGTGC GGCTGCTGCCCTCAGCTCCG
CAGACGCTCCCTGACGGCCATTGGCCAGTCTGCCAGAGTGC CGATGTTCCAGTGCCACTGCCCCCGGGGCC
CTGGAGCCGGTCTTGGCTGTGTGACCCAGGGCCTGCACTTGGCTTCTGGAGCCCTCCGGGCCTGGCCTCCCA
CCTGGTGTGCCACCTCTGCAGGAAAGGAGACACTTGCTCCAGGAAGCCAGGAGCCAGACCCAGGGATAGTGCCG
CAGGAGGCGCCTGTTGGAACTCACTTTCCGAGCTAAGCGAAGAAAATTTTGATGGAAAATTTGCTAATCTGACC
CCCTCGAGGACGGTGCCAGACTCGGAGGCCCCCCCCAGGGTGGGATCGTGCCGACTCGGGTCCCACGCAGCCACCT

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FIGURE 2847B

CTGTCTCTCTCACCCGCTCCCGAAACAAAGAGACCCGGACAGGCAGCCAAGAAAGAAACGAAGGAACCTAAGAAG
GGTGAATCCTGGTTCTTTTCGTTGGCTACCTGGAAAGAAAAAGACAGAAGCTTATTTGCCAGATGACAAGAACAAA
TCGATTGTTTGGGATGAAAAGAAAAACCAGTGGGTGAATTTAAATGAGCCAGAAGAGGAGAAGAAAGCCCCGCCC
CCACCTCCAACCTCGATGCCCAAGACTGTGCAAGCTGCCCCGCCTGCCCTCCCAGGGCCTCCTGGAGCCCCCGTG
AACATGTACTCTAGAAGAGCAGCAGGAACCAGAGCTCGCTACGTTGACGTCTTGAACCCAAGCGGGACCCAGCGG
AGCGAGCCGGCTCTCGCTCCTGCGGACTTTGTCGCTCCACTCGCGCCACTCCCAATTCCTTCTAACTTGTTCTGTG
CCAACCCAGTGAGACCCAGGGACGTTGCGGACGGAATGATGGCCTCCTCGCTCTCTCATCCCCAGATGCAGAA
GAACCACAGCTTCAGACGGGACTGGCAGGGAAGGGCCTGCAGCAGCTAGGGGCCTGGCCAATCCAGAGCCTGCC
CCAGAGCCCAAGGTTTTAAGCTCTGCAGCGTCACTCCCTGGCTCTGAACTCCCTCCTCCAGGCCTGAGGGTTCC
CAGGGAGGAGAGCTTTTCGCGCTGTAGTTCAATGAGTTCATTATCACGTGAAGTGAGCCAGCATTTTAATCAGGCT
CCTGGCGACCTCCCTGCTGCAGGGGGCCCTCCCAGCGGGGCCATGCCCTTCTACAACCCCTGCTCAGCTGGCACAG
GCCTGCGCCACCTCCGGGAGCTCAAGGCTAGGGAGGATTGGCCAGAGGAAGCACCTGGTGCTGAACTAGGCTTGC
CCTGCTGTGAACTTGCACTTGAGGCCCTGACGCTGCTGTTCTCCCCGAAGAACCCGACCGACCTCCGCGATCTCC
GTCCCGCCCCCAGGGAGACACAGCAGTGACTCAGAGCTGGTCGCACACTGTGCCTCCCTCCTCACCGCCCATCGT
AATGAATTATTTTGAATAATTAATTCACCATCCTTTTCAGATTCTGGATGGAAAGACTGAATCTTTGACTCAGAAT
TGTTTGCCGAAAAGAATGATGTGACTTTCTTAGTCATTTAGGATGATTTAAGGATATAGTATTCCTGGTCATTTA
AGAATGTTTCATTTCATTGAAGCCGGAGCTGTCTCTGCCACAGGAGAGCCACATGGTCGGTAGTAACCAGGGCCTCT
CCAAGCCCAGCTGTGAGTCACTGCCCAGTGAGTCCGCGCTTCCTTTAAGGTGCTGGGAGCAAAGAGAGGGTGAC
TGAGGCAGACCCCAACCCCTGCTCTGCACCATCTGGGCCCTCGCCGTGTTTGAACCTGGCTGAATGAGTGGAGGG
CGCTGTGTTCTCAATCAGCGCCTCCGAGGAGCCGTGGGGTTCCTTCGGCATTAGTTCACGGTTTTTTGAGAGAGGC
CTTAGTTACTGCAGTGAATTTCTTTCTGTGCAAAGACGCTTCAGCCTCACTTTACTTTCTGTGGCCTGATGA
GGACCATGGGTGATTTTGTGTACCCAAAGCGCTGGGGACTGCCACCGTGTGGCCAGTCACTGGGAAGGAGCCC
CAGAGAGCCGGCTGTCTGACATGATGGCTCAGGGTGGTCATCCAGGTTGAAACTGACCGTGTGATGTTTGATTT
GGGCTTCATTTCTGTGTAGGAGCACGGTTAGACTCACTGTTAAGGAAGCTGGATGCACTTCTCTAAAAGGCTGC
ACTTTCGTGAGCACTTTTCTGTGGTACAATCCACATGACCCACTTCTCCCCCTGGGGGACGTTGGTTCAGAGGTT
GGTAGCACTTGGGGAGAGTATCTTAACACAGTTTCTTGACAGCAGCTCTGGAACCTAGTATTTCTGCCCCGAGTT
TTGCCACACTGAGACTTTGAGTAGCTCCTGGTGGACTCAACCCGTGTTCAACTCAGAGACGGGCCTCCTCTCACTG
ATGCAAAGCTTTAAGGCTTCTCTGACTGTTCTGAAACTCTTCGTATTCTTGTCAAGTCTAAAGAGACTGAAGAAA
AGATTTAAATACTAATAAAAAATCAGTAGATAATTTCTGTAGGTTCTGCTGGAGGAATACAAACTGTTTGGTGTTT
TAAATTTAAGTGTAGAAATTGTAGAATGTGGAATTAGCACAGATCCTTCTGGCTTTCTGTTTCACTTGATCATT
TAGCCCAGACCACCCAGGATGTTTTCCAAAATGTTCCACAGGCGTGTCCCGCTGGATCCATTTGTCTTGTCACT
TGGAGAAAGGCCAGTCCCTGTGACGGGGCAGCCCTCTCTGTCCCTCGGTCACTCGTGTGAATCCTGGGACCTCT
TCCGGTCGGCTCTGCCCCTGTTCTGGGGTCGACTGCCACGACTTTTGATTCAAGAAGCTTCTCCAGGCGGGAG
CGGCTATTTTCTCAATGAGAATTGTTACATTGCAAATTGTTGAATAAAATATTTTTCGCTCCTTCAA

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FIGURE 2848

METLCAPQVCPPLNSTTEAVHMLPHAGAPPLDTVYPAPEKRPSARTQGPVKCESPATTTLWAQSELPDFGGNVLL
APAAPALYVCAKPQPPVVQPPEEAMSGQQSRNPSSAAPVQSRGGIGASENLENPPKMGEELQSQASSGYASLL
SSPPTESLQNPVLIQPDHSYNLAQPINFSVLSNSHEKNQSWREALVGDRPAVSSWALGGDSGENTSLSGIPT
SSVLSLSLPSSVAQSNFPQSGGASEMVSQNPANLLVQPPSQVPENLVPESSQKDRKAGSALPGFANSPAGSTSVV
LVPPAHGTLVPDGNKANHSSHQEDTYGALDFTLSRTLENFVNVPNSHSDSLASQQSVASHPRQSGPGAPNLDLF
YQQVTKDAQGQPLERAAQELVPPQQQASPPQLPKAMFSELSNPESLPAQQAQNSAQSPASLVLDAGQQLPFR
PPQSSSVSLVSSSGQAAPVSEQPWPQFVPALAPGPPQDLAAYYYRPLYDAYQFQYSLPYPPPEGAASLYYQD
VYSLYEPYRYPYDGAASAYAQNYRYPEPERPSSRASHSSERPPPRQGYPEGYYSSKSGWSSQSDYYASYSSQYD
YGDPGHWDYHYSARVRDPRTYDRRYWCDAEYDAYRREHSFAFGDRPEKRDNNWRYDPRFTGSFDDDDPDHRDPYG
EEVDRRSVHSEHSARSLHSAHSLASRRSSLSHSHQSQIYRSHNVAAGSYEAPLPPGSFHFHGFAYGTYSNFS
PGFPEYGYPADTVWPAMEQVSSRPTSPEKFSVPHVCARFGPGGQLIKVIPNLPSSEGQFALVEVHSMEALLQHTSE
QEEMRAFPGLAKDDTHKVDVINFAQNKAMKCLQENNLIDKESASLLWNFIVLLCRQNGTVVGTDAEALLRDHR
TVWLP GKSPNEANLIDFTNEAVEQVEEESGGAQLSFLTGGPAAAASSLERETERFRELLLYGRKKDALESAMKN
GLWGHALLLASKMDSRTHARVMTRFANSLPINDPLQTVYQLMSGRMPAASTCCGDEKWGDWRPHLAMVLSNLNNN
MDVESRTMATMGDTLASRGLLDAAHFCYLMAQAGFGVYTKKTKLVLIGSNHSLPFLKFATNEAIQRTEAYEYAO
SLGAETCPLPSFQVFKFIYSCRLAEMGLATQAFHYCEAIAKSILTQPHLYSPVLISQLVQMASQLRLFDPLKEK
PEEESLAAPTWLVLHQQVERQIKEGAGVWHQD GALPQQCPGTPSSEMEQLDRPGLSQPGALGIANPLAVPAPSP
EHSSPSVRLLP SAPQTL PDGPLASPARVPMFVPLPPGLEPGPGCVTPGPALGFLEPSGPGGLPPGVPLQERRH
LLQEARS PDPGI VPEAPVGNLSLSELSEENFDGKFANLTPSRTVPDSEAPPGWDRADSGPTQPPLSLSPAPETKR
PGQAAKKETKEPKKGESWFFRWLP GKKKTEAYLPDDKNKSIVWDEKKNQWVNLNEPEEEKKAPPPPTSMPTVQ
AAPPALPGPPGAPVNMYSRRAAGTRARYVDVLNPSGTQRSEPALAPAD FVAPLAPLP IPSNL FVPTDAEEPQLP
DGTGREGPAAARGLANPEPAPEPKVLSSAASLP GSELPSSRPEGSQGGEAPGDLPAAGGPPSGAMPFYNPAQLAQ
ACATSGSSRLGRIGQRKHLVLN

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FIGURE 2849

AGACGCAAGATGGCGGCTGTGGTGCTGGCGGCGACGCGTTGCTGCGGGGCTCGGGTTCTTGGGGCTGTTTCGCGG
CTGAGGTTTGGACCTCCTGCGTACAGACGGTTTAGTAGTGGTGGTGCCTATCCCAACATCCCCCTCTCTTCTCCC
TTACCTGGAGTACCCAAGCCTGTTTTTGCTACAGTTGATGGACAGGAAAAGTTTGAAACCAAAGTAACCACATTG
GATAATGGGCTTCGCGTGGCATCTCAGAATAAGTTTGGACAGTTTTGTACAGTAGGAATTCTTATCAATTCAGGA
TCGAGATATGAAGCGAAATACCTTAGTGGAATTGCTCACTTTTTGGAAAAATTGGCATTTCGTCTACTGCTCGA
TTTGACAGCAAAGATGAAATTCTGCTTACGTTGAAAAAGCATGGGGGTATCTGTGACTGCCAGACATCAAGAGAC
ACCACCATGTATGCTGTGTCTGCTGATAGCAAAGGCTTGGACACGGTGGTTGCCTTACTGGCTGATGTGGTTCTG
CAGCCCCGGCTAACAGATGAAGAAGTCGAGATGACGCGGATGGCGGTCCAGTTTGAGCTGGAGGACCTGAACCTG
CGGCCTGACCCAGAGCCACTTCTCACCAGATGATTTCATGAAGCGGCTTACAGGGAGAACACAGTTGGCCTCCAC
CGTTTCTGCCCCACAGAAAACGTAGCAAAGATCAACCGAGAGGTGCTGCATTCTACCTGAGGAACACTACTACT
CCCGACCGCATGGTGTCTGGCCGGCGTGGGCGTGGAGCACGAGCATCTGGTGGACTGTGCCCCGAAGTACCTCCTG
GGGGTCCAGCCGGCTGGGGGAGCGCAGAGGCCGTGGATATTGACAGATCTGTGGCCCAGTACACTGGGGGGATT
GCCAAGCTAGAAAGAGACATGTCCAATGTGAGCCTGGGCCCCGACCCCCATCCCCGAGCTCACGCACATCATGGTT
GGACTGGAGAGCTGCTCCTTCTGGAGGAGGACTTCATCCCCCTTGCAGTGTTGAACATGATGATGGGCGGAGGT
GGCTCCTTCTCGGCTGGTGGGCCCCGCAAGGGCATGTTCTCCAGGCTCTACCTCAACGTGCTCAACAGGCACCAC
TGGATGTATAACGCGACCTCCTACCACCACAGCTACGAGGACACTGGCCTCCTTTGCATCCATGCCAGCGCCGAC
CCAAGACAGGTTTCGAGAAATGGTAGAAATCATCACAAAGGAGTTTATTTTAATGGGCGGAACCGTGGACACGGTG
GAGCTGGAACGAGCCAAGACGCAGCTGACATCAATGCTCATGATGAACCTGGAATCCAGGCCTGTGATCTTCGAG
GATGTGGGGAGGCAGGTGCTGGCCACTCGCTCCAGAAAGCTGCCGCACGAGCTGTGCACGCTCATCCGCAACGTG
AAGCCGGAAGATGTGAAGAGAGTCGCTTCTAAGATGCTCCGAGGGAAGCCGGCAGTGGCCGCCCTGGGTGACCTG
ACTGACCTGCCCACGTATGAGCACATCCAGACCGCCCTGTCGAGTAAGGACGGGCGCCTGCCCAGGACGTACCGG
CTCTTCCGGTAGAACCGCTCCCCGGCCTGACAGACCCAGGGAGCTGCAGCTGGAGCCCCGTCCCGTGCGTGTAG
TTTGGACACGAATTTAGTCTAAAAAGCTGTCTGGTTGTATAAACGGTGCAAACAATGTCGCCACAGCACCCACGC
GGTTTGCACTTTTTTGGAACTCAATGTGCCGATCAGTGGAGTCAGTATCGAGCCTGACCACCGCAAGCCAGGAAG
CAGGTGAAGTGCCAGCGCTGGAGTGCAGCGTGCCACGAGGAGGGCGGTGCGTGCTTCCCTCCTCGGGCTGTGGG
CACATGGGGCCCCGCAGGTTCTTGGAGGAGCCCTGAGCTGGGAGGCAGCAAAGGCTGACCTATCAAAGCCTCCC
GGAGGCCACCGTGCTGGGTACCAGGACTCACCTCTGACAAGCAGGAGAAGGTAAGGGCCCCGTCAGCTCCAAGGA
GCGCGCTCCACGCGCTGCACACAGCTTCCCTGGTAATAAAGAGCTGGCATCTTTCTT

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FIGURE 2850

MAAVVLAATRLLRGSGSWGCSRLRFGPPAYRRFSSGGAYPNIPLSSPLPGVPKPVFATVDGQEKFETKVTTLDNG
LRVASQNKFGQFCTVGILINSGSRYEAKYLSGIAHFLEKLAFSSTARFDSKDEILLTLEKHGGICDCQTSRDSTM
YAVSADSKGLDTVVALADVVLQFRLTDEEVEMTRMAVQFELEDNLNRPDPEPLLTMIHEAAAYRENTVGLHRFC
PTENVAKINREVLHSYLRNYYTPDRMVLAVGVGEHEHLVDCARKYLLGVQPAWGSAAEVDIDRSVAQYTGGIAKL
ERDMSNVSLGPTPIPELTHIMVGLESCSFLEEDFIPFAVLNMMMGGGGSFSAGGPGKGMFSRLYLNVLNRHHWY
NATSYHHSYEDTGLLCIHASADPRQVREMVEIITKEFILMGGTVDTVELERAKTQLTSMMLMNLESRPVIFEDVG
RQVLATRSRKLPHLCTLRNVKPEDVKRVASKMLRGKPAVAALGDLTDLPITYEHIQTALSSKDGRLPRTYRLFR

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FIGURE 2851

GGCGGCCGAGCGGCGGGCGACGGGGGCGGGCGACGGGGGCGGGCGACGCGGGCCGCGGCACGGGCGGAGCCGGGG
CCATGGAGCCCGCCGCTGCCGGGCTAGGCAGGTCGTGCCCCGCCGGGCGGCGGCGATGTCGGGCTACCAGCGCCG
CCCGGGCGCCACCCCGCTGTCCCCGAGCCCCGAGCCTCGCCATTCCCCGACGCTCCAGCGTTCTATGAGCGCCGGTC
TTGTCTCCCCCAGCTAAATTGTGAGCGCCCCCATGGCAGGGACCTGGACTCCCCCTTCTTCGGCATTTCGGCCGGC
CTTTATGTGCTATGTGCCCAGCCCGGTGCTGGCTTCCGTGGGAGACACAGATTTTGGCTATGGAAAGGGGAAATG
TTCTAAGCAGAGCCCGTCAGGAGCCACGGGACACATTTTGGAGATGACAGATTTGAAGATCTGGAAGAGGCAAA
TCCATTCTCTTTTAGAGAGTTTCTGAAGACCAAGAACCTCGGCCTCTCGAAAGAGGATCCGGCCAGCAGAATTTA
TGCAAAGGAAGCCTCGAGGCATTCCCTGGGACTTGACCACAACCTCCCCACCCTCCCAAACCGGCGGGTATGGCCT
GGAGTATCAGCAGCCATTTTTCGAGGATCCGACAGGGGCTGGTGACCTCCTGGATGAGGAGGAGGATGAGGACAC
CGGATGGAGTGGGGCCTACCTGCCGTCCGCCATCGAGCAGACTCACCCCGAGAGGGTCCCTGCCGGCACGTCGCC
CTGCAGCACATACTTTTCTTTTCTCCACCCCGTCGGAGCTGGCAGGGCCTGAGTCTCTGCCCTCGTGGGCGTT
GAGTGACACTGATTCTCGCGTGTCTCCGGCTCTCCGGCAGGGAGTCTTAGCGCAGACTTTGCGGTTTCATGGAGA
GTCTCTGGGAGACAGGCACCTGCGGACGCTGCAGATAAGTTACGACGCACTGAAAGATGAAAATTCTAAGCTGAG
AAGAAAGCTGAATGAGGTTTCAGAGCTTCTCTGAAGCTCAAACAGAAATGGTGAGGACGCTTGAGCGGAAGTTAGA
AGCAAAAATGATCAAGGAGGAAAGCGACTACCACGACCTGGAGTCGGTGGTTTCAGCAGGTGGAGCAGAACCTGGA
GCTGATGACCAAACGGGCTGTAAAGGCAGAAAACCACGTCGTGAAACTAAAACAGGAAATCAGTTTGCTCCAGGC
GCAGGTCTCCAACCTCCAGCGAGAGAATGAAGCCCTGCGGTGCGGCCAGGGTGCCAGCCTGACCGTGGTGAAGCA
GAACGCCGACGTGGCCCTGCAGAACCTCCGGGTGGTCATGAACAGTGACAGGCTTCCATCAAGCAACTGGTTTC
CGGAGCTGAGACACTGAATCTTGTTGCCGAAATCCTTAAATCTATAGACAGAATTTCTGAAGTTAAAGACGAGGA
GGAAGACTCTTGAGGACCCCTGGGTGTTCTCAGCATGAAGCTCCGTGTATACCTGAGGTCACCACCGCTCGATC
TAAATGTGCAGTTGTGTCTTAAATATGCAGTCTTACCCAGAGTAAAGTGTTGATCGCAAGAGTCCAGTGTCTGT
GCCCTCAGCCAGTTCTTGGCCACCACAATGGGAGCAGCCCTGGCCGAGTTGTCTCTGTGGTTTTCTATGCAGCCCT
TCTTGCGGAAATTCCTGCGATCTTATAGATTCTAATGAGCTCTTGGAAGACATTGTCATAAAAGCCAGTGATTTT
AAGAAAAAGAGTGTTTCTGGAATCAATGTTTTCCAGTCCCATCCAGAACATCAGTTGTAAGATAAGTACAATTG
GTTGTCTTGATTTTCATAAGTAGAACAAACACTAAATGTGCCTCTGAGATGGCCACCCCGGGCAGGGACCTGTGC
CTTCCGCCGATGCTCAGGGCTCCCTCTGGCTCCCGGGTCACTCTTGTTGGCCCCAGTGGGTGGTCCCTGCAGTCAT
GGCCTGAGTGCGCAGGGGCCACCGCGTGGCTGCTGCTGTCTCTCCGGGACCCACGGGGACCAAGGTCACACGT
TCCGTGCTGTGAAGCTGTCCAGATGTGCCTCTTTGGCTGGGGGTTCTGGTGGACGTTTCAAGTGGCATTCTTTGTAC
AATGCAGGTTAGAATTCAGGAATTTCAAGTATGTGCCGGGTCTGTGAGTCCCAGTTGCCTTTCTGACGGCCCC
CCTCAGAGGGACGGCGATGAGCACTAAATGCTTTTTTGAATATTTTCTATAGATTTTTTTTAAACTTTTTTTT
CCTCCTGTTCCAATTGATAGCTTCTTATTTAATAAATTCTGTAGTTACCGC

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FIGURE 2852

CTGTGTAGGGCATGGACACAGGGAGCTCATGGCAGGGCTGACACAGGGTGTGGTGGGCACAGGGACAGGAGGCAC
GGGAGGCTTCCCGGGATGTCTGGGAAGTGTTCCAGGCCAAGGCTGGGGAGGCTGGCCCAGGGCAGGTGACGGACA
GAGGCCTGGACTGGGGTAGCACCCATGAGAGGGGAGAAGTCCGGGGCAGTCGGCGGGTGCCGAGGGAGCATCCCG
AGGGCCCCGTCTTCGGACGAGGAGTGCTTCTTTGACCTGTTGACCAAGTTCCAGAGCAGCCGCATGGACGACCAG
CGTTGTCCCTTGGACGATGGCCAGGCCGGGGCTGCCGAGGCCACGGCCGCCCCACCCTGGAGGACAGGATCGCC
CAGCCCTCGATGACGGCCTCGCCCCAGACCGAGGAATTCTTCGACCTCATCGCCAGCTCCCAGAGCCGCCGGCTG
GACGACCAGCGGGCCAGCGTGGGCAGCCTGCCGGGGCTGCGAATCACCCACAGCAATGCAGGGCACCTCCGAGGC
CACGGCGAGCCCCAGGAGCCGGGGGACGACTTCTTCAACATGCTCATCAAGTACCAGTCTCCAGGATCGATGAC
CAGCGCTGCCACCACCTGACGTACTGCCCCGGGGCCCTACCATGCCGGACGAGGACTTCTTCAGCCTCATTAG
AGGGTGCAGGCTAAGCGCATGGACGAGCAGCGGGTGGACCTCGCCGGGGGCCCGGAGCAGGGGGCAGGCGGCCCG
CCCGAGCCCCAGCAGCAGTGCCAGCCTGGTGCAGCTAAGGCCCTGTGCCACCGCCAGGCCCCACCCTGCCCCCA
CTCTGGACGCCGGTCTCACAGTCACAGCCACGTCTCTCCCGAGGCCATTGCCGAGGACAGGCACTGGGCATGCAG
CCCCACGGCCTCCCCGACCCAGGGCGACAGGCTCAGGCCAAGCTGCCCGTGGTGGGAGGGCGTGCTTCCATCCCG
GGCTGGCCCCC**ATG**GCCCTCAGCTTCTCTCCCTTCTGCCCCTGCCGCAGGCCGGACGGGGCCTTCGGCATGTCGGC
CCCGACCTGGTGCTGTGTCAGACTCCCGCATCTCTCCCCAAGCCCTTCCCGTTCTGCCCTGCCCTGCCAAATGTG
AAACCCTGCTGTCTCCCCCACCTCCCCAAAGGTGTCTCTGAGCCGCCTCTTGGGGCCACCAAGGACAGGGCCAT
GTTCTGTCCCCCAGAGCTGGTCTTGGGATGGCCGTGTGACAGGCATGCTCCACCCCTCCAGCTTCGTCTGGGG
CAGGGCTCCCTCCAAGCCTGTCTCCCCACTCCCCGGCCAGAGGTCAGCAACCACAGAAGGCCCCCAGACCACGC
ATGGCAGACCAGGCTGCAGTGGCAGCCCTGAGGTGCCCCCGCCGAGTCCAGGGCCCTGCAGGGGCCTCGACAG
GAGCCGGGCCTATCTCTAAAGCAGAGGGAATGGCTGGGCATGAACTTCGACATTCCAAAACCCCAAGCCAGGAAA
AAGGGCAGGGCCTGGTCCTAGGGATGCTTACTGGCAGCAAGAGCAGTGCCAGTCAGGGTGGGAGGTAGCACCAG
GCTCTGTGACCCTCACCCAAGTGGGGGGGTGGTCAGTGGAAGCTGGGGAGGCTTCACTCAGCTCAACCCTGCAGA
CCCCCATATGAGAACCCCCCTCTCTCCACCAGCTGGGGGAGATGACATCACTGCTCTCTCCATGGGGAGGGGGC
TCACAGGGCACCAAGTTCGGGATCCTAGGACTGGCAGGACCTGCTGGAGCCTGAGATGGGCCCCAGGGGCC**TGAG**
GTTGCCTCCTCCTGTCCAGACCCAGCCTTGGCACCTCCCAAGACTGCCAAGGGCCCTACCATGGCCCCACAGCCC
CCAGGGCTGGCAGTTCCATCTAGGAGGGTGCTCTAGGCCCCACTCTCAGGCTAGGATGGAGAGGCAGATCTGGG
CCTGGTGAGGTGACCTGCTTCTGGAGGGGCAGGGCCGCACCCGAGAGCAGGGACAGGTGCCCGAACACAGGGTCT
CCAGGACGTAGCGCCCCCCCCGCATACTTGAATGTATGTGCGTATTTATTGCTCACGTCTGTGCCATGTTGTCAAT
GGGTCTTTCCAACCCAAGAGGTACATTTGTTTTCTGTTTTCTGAAAAATAAAGTCGGCCAAGTGAG

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FIGURE 2853

MALSFLPSAPAAGRTGPSACRPRPGAVRLPHPLPQALPVLPCPAKCETLLSPPPSPKVSLSRLLGPPRTGPCSVF
PELVLGWPCDRHAPPLQLRPGAGLPPLSPHSPARGQQPQKAPQTTHGRPGCSGSPEVPPAESQGPAGASTGAGP
ISKAEGMAGHEL RHSKTPSQEKQGLVLGMLTGSKSSAQSGWEVAPGSVTLTQVGGWSVEAGEASLSSTLQTPHM
RTPLLPPAGGDDITALSMGRGLTGHQVRDPRTGRTCWSLRWAPGA

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FIGURE 2854

CTCGTGGACACCTGCCACCGGGCCATGAGGACCACCTTCCTCCACATCTCCAAGACCCCCAGGAGAACGGGGCC
ACTGCGGGGTCTGGCGTGCAGCCGGCCCAGTAGCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAA
GCCGATGGCTGGAGGATGGGCAGAGGGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGC
TTGCGGCTGTGGCCCGCTGGTGGGCTGAGCCACAAGGCCCCGATGGCCCAGGAGCAGATGGGAGGACCCCGAGG
CCAGACGCACACTGTCCGAGCCCTCTGCTCAGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAG
CCCACAAGCTGCATCAGGCTCTCTGGGAGAGGAGGGGCCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGG
CCACAGGGAGCCGGAATCGGGCCTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCG
TTGCTGTTTTTTTATAAACACACTCTTGGAAGTGGCTGGGGAGCTGTGGTCACTCACAGGGCGGGCAGGTGACCA
GGGCGGTGGAGGCGACGCTGTGTCTTCCCAGCTGCCCTGCCTAGAGGCCAGGGTGCAGGCACCGCCACCCACCC
GTGTTCCCTATCCAGGAGTGGACCCACATCACCT

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FIGURE 2855

CGCGGGGGAGAAGCGGGAGCGGGAGCGGGAGCGAGCTGGCGGGCGCCGTCGGGGCGCCGGGCCGGGGCC**ATC**GAGCTG
TGGCCGTGCTGGCCGCGGCGCTGCTGTTGCTGCTGCTGCTGGTGCAGCTGAGCCGCGCGGGCCGAGTTCTACGCC
AAGGTCGCCCTGTACTGCGCGCTGTGCTTCACGGTGTCGCGCCGTGGCCTCGCTCGTCTGCCTGCTGCGCCACGGC
GGCCGGACGGTGGAGAACATGAGCATCATCGGCTGGTTTCGTGCGAAGCTTCAAGTACTTTTACGGGCTCCGCTTC
GAGGTGCGGGACCCGCGCAGGCTGCAGGAGGCCCCGTCCCTGTGTATCGTCTCCAACCACCAGAGCATCCTGGAC
ATGATGGGCCTCATGGAGGTCCTTCCGGAGCGCTGCGTGCAGATCGCCAAGCGGGAGCTGCTCTTCCTGGGGCCC
GTGGGCCTCATCATGTACCTCGGGGGCGTCTTCTTCATCAACCGGCAGCGCTCTAGCACTGCCATGACAGTGATG
GCCGACCTGGGCGAGCGCATGGTCAGGGAGAACCTCAAAGTGTGGATCTATCCCGAGGGTACTCGCAACGACAAT
GGGGACCTGCTGCCTTTTAAAGAAGGGCGCCTTCTACCTGGCAGTCCAGGCACAGGTGCCCATCGTCCCCGTGGTG
TACTCTTCCTTCTCCTCCTTCTACAACACCAAGAAGAAGTTCTTCACCTCAGGAACAGTCACAGTGCAGGTGCTG
GAAGCCATCCCCACCAGCGGCCTCACTGCGGCGGACGTCCCTGCGCTCGTGGACACCTGCCACCGGGGCCATGAGG
ACCACCTTCCTCCACATCTCCAAGACCCCCCAGGAGAACGGGGCCACTGCGGGGTCTGGCGTGCAGCCGGCCCCAG
TAGCCCCAGACCACGGCAGGGCATGACCTGGGGAGGGCAGGTGGAAGCCGATGGCTGGAGGATGGGCAGAGGGGAC
TCCTCCCGGCTTCCAAATACCACTCTGTCCGGCTCCCCCAGCTCTCACTCAGCCCGGGAAGCAGGAAGCCCCCTTC
TGTCAGTGGCCTCAGACACAGGCCCCCTGGTGTCCCCTGCAGGGGGCTCAGCTGGACCCTCCCCGGGCTCGAGGGC
AGGGACTCGCGCCACGGCACCTCTGGGAGCTGGGATGATAAAGATGAGGCTTGCGGCTGTGGCCCCGCTGGTGGG
CTGAGCCACAAGGCCCCCGATGGCCAGGAGCAGATGGGAGGACCCCGAGGCCAGACGCACACTGTCCGAGCCCT
CTGCTCAGCCGCCTGGGACCCACCAGGGTGCAGCTGGGCTCCAGGGTCCAGCCCACAAGCTGCATCAGGCTCTCT
GGGAGAGGAGGGGCTGGAGGGCCAGGAGTCCCAGACTCACGCACCCTGGGCCACAGGGAGCCGGGAATCGGGGC
CTGCTGCTCCTGCTGGCCTGGAAGACTCTGTGGGGTCAGCACTGTACTCCGTTGCTGTTTTTTTATAAACACACT
CTTGGAAGTGG

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FIGURE 2856

MELWPCLAAALLLLLLLVQLSRAAEFYAKVALYCALCFTVSAVASLVCLLRHGGRTVENMSIIGWFVRSFKYFYG
LRFEVRDPRRLQEARPCVIVSNHQSILDMMGLMEVLPERCVQIAKRELLFLGPPVGLIMYLGGVFFINRQRSSTAM
TVMADLGERMVRENKLVWIYPEGTRNDNGDLLPFKKGAFYLAVQAQVPVPVYSSFSFYNTKKKFFTSGTVTV
QVLEAIPTSGLTAADVPALVDTCHRAMRTTFLHISKTPQENGATAGSGVQPAQ

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FIGURE 2857

GGCGCCTGGCGCACCTGGTGCTCTTCTGCCCCCTTCTCCAAGCGCCTGCAGGGCCGGCTCCCAGGCCTCAGGGTCC
GCTGCATCTTCCTGGCCTGGCTGGGCGTCTTTGCAGGCAGCTGGCTGGTGTACGTGCACTACTCGTCCTACTCGG
AGCGCTGTGCGGGCCATGTCTGCCAGGTGGTCATTTGTGACCAGTACCGCAAGGGGATCATCTCGGGCTCCGTCT
GCCAGGACCTGTGTGAGCTGCAT**ATGG**TGGAGTGAGGACCTGCCTCTCGGTGGCCCCGGGCCAGCAGGTGTACA
GCGGGCTCTGGCGGGACAAGGATGTAACCATCAAGTGTGGCATTGAGGAGACCCTCGACTCCAAGGCCCGGTCCG
ATGCGGCCCCCGGGCGGAGCTGGTACTGTTTGACAAGCCACCCGGGGCACCTCCATCAAGGAATTCCGGGAGA
TGACCCTCAGCTTCCTCAAGGCGAACCTGGGAGACCTGCCTTCCCTGCCGGCGCTGGTTGGCCAGGTCCCTGCTCA
TGGCTGACTTCAACAAGGACAACCGGGTGTCCCTGGCGGAAGCCAAGTCCGTGTGGGCCCTGCTGCAGCGTAACG
AGTTCCTGCTGCTGCTGTCCCTGCAGGAGAAGGAGCACGCCTCCAGACTGCTGGGCTACTGTGGGGACCTCTACC
TCACCGAGGGCGTGCCGCATGGCGCCTGGCACGCGGCCGCCCTTCCACCCCTGTTGCGCCCACTGCTGCCGCCTG
CCCTGCAGGGTGCTCTCCAGCAGTGGCTGGGGCCTGCGTGGCCTTGGCGGGCCAAGATCGCCATCGGCCTGCTGG
AGTTCGTGGAGGAGCTCTTCCACGGCTCTTACGGGACTTTCTACATGTGTGAGACCACACTGGCCAACGTGGGCT
ACACAGCCACCTACGACTTCAAGATGGCCGACCTGCAGCAGGTGGCACCCGAGGCCACCGTGCGCCGCTTCCTGC
AGGGCCGCGCTGCGAGCACAGCACCGACTGCACCTACGGGCGCGACTGCAGGGCCCCGTGTGACAGGCTCATGA
GGCAGTGCAAGGGCGACCTCATCCAGCCCAACCTGGCCAAGGTGTGCGCACTGCTACGGGGCTACCTGCTGCCTG
GCGCGCCCGCCGACCTCCGCGAGGAGCTGGGCACACAGCTGCGCACCTGTACCACGCTGAGCGGGCTGGCCAGCC
AGGTGGAGGGCCATCACTCGCTGGTGCTCAGCCACCTCAAGACTCTGCTCTGGAAGAAGATCTCCAACACCAAGT
ACTCT**TGA**TGGGGCAGTGAGGGGCCTGGCCACCCTTCCCTGGAGCTGGCCAGGTGCCAGGGTCCAACCCTCCCTCA
AGGAATCCTGTGAGAAGATGTGAAATGCAACTGTGTGCAAAATCACTCCCCTACCGTCAGGGCTCTGGATTCCA
GCACCACAGACATGAGACCCAGCTCGGAGCAAAGGCGGACATGGACATCCCGGCAGGAGAGTCTCCAAGGGGG
TTTGTTACTCTGAAGAACGTAATGTCAATAAACAGCTTTTATGTAATGCCCAGGGCTG

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FIGURE 2858

MVEWRTCLSVAPGQQVYSGLWRDKDVTIKCGIEETLDSKARSDAAPRRELVLFDKPTRGTSIKEFREMTLSFLKA
NLGDLPSLPALVGQVLLMADFNKDNRVSLAEAKSVWALLQRNEFLLLLSLQEKEHASRLGCGDLYLTEGVPHG
AWHAAALPPLLRLPPALQGALQQWLGPAPWRKIAIGLLEFVEELFHGSYGTFYMCETTLANVGYTATYDFK
MADLQQVAPEATVRRFLQGRRCEHSTDCTYGRDCRAPCDRLMRQCKGDLIQPNLAKVCALLRGYLLPGAPADLRE
ELGTQLRTCTTSLGLASQVEAHHSVLVSHLKTLLWKKISNTKYS

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FIGURE 2859

CTCTGCGTGCGCCGGAGGCTGCCGTGGCGGGTGGGCCGCGCTGACTTCTCCTCCCGGCCAGTTCTCGAGCGCCTCA
CCGGGCCTCGCCCTGCAGCCTCGCTCTCGCTGGCGCTGCGCGGCCTAGGGGACTGGGCTGCTGGCCTCCGGGTGC
GGGGTGGGGGCGAGGCTCCGACCTGGGGCGTCCCTGGCCGCGCGAGCCGCGGGATGGGGGCCCCGGGCCGCGGAGGAG
GCGCCGCTGGTGTGTCCCTTGGTGGAGAGGGCGCTGCCGGCCCTGCGCGGTTTCCAGCCAGGAAGCTTCGGGAAG
CCTGGACGTCTGCTCACTGGAGATGACACGTGCGTGGGGTGTGGCATTCTTGTTATTTAACACGGGAAGGAGGT
GACTTCGCCTGTGATGGACTTCCAGTGTGAGCACTGGCCAGAGTGACCAGGCTGACCAGCACCAGCCCTGATCCA
GATGCAGAGGCCAGGATGTGGGCCAGCCCTGTGCCAGGAGGCTGGCTGGAATAAAGGTACAGATAGAGGCCTCA
CCCCCTCTGGGACCACTGGCACTCAGGGTGTTCGAGCCTCAGAGCCCACCTGCCCCCAGGGCCACAGCTGCATC
TCCTGCCCTGCTGTCATTACAGGGATGGGCAGGCTGGCATGGGGGCGAGCCGCTGCCCTGCCTGGGTGTTGCTGT
GTATTCCTGCCGGCCAGGGGCCACTGCCAGGACCACGCCTCCCTTTTCATATCCCGATTCTTAAGTTCTGCTATT
GTGGTATTCTGGTGGAGAAAAAGAACCGCGTGGCTGTTTTTGAAGTGCCTGGAACCTAAGACCCTGAATTCCTT
TCCCCCAGGGGAAAATCTATATGGAAAACATTTATTTTAAAATACAGGATGAAGTGAATTAAGATTTAAA
TGCACATTTCTTTAAGGATAATATTTCTGTGTTGGCAAAATTTGAGAGTAAATTGGTCTTGAATGGAATGGATTG
TCTTGACTCACACATTGCGGAGCAGAGCCCGCCCTGAAGAAAGGTGTTGCTGTGGTGGGATCTTCCCACGAGGGT
CCTTGCTGTTCTCCTAGGGGATGTTGCTGGGTGCCCTGGGCTACTGGGAGAGCGTACGGGGCTGGAGAAGAT
GGCCATTCCTGGGCTGTTTCCTAGGGAATGAGTTGTACATCTCATGGCTGGATTTTGTAAATCAGTTTTTAAAA
TACCGCATATATCTGTTTTCTTACTGG

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FIGURE 2860

GGCACGAGGCCGAGCCCTGCCAACCATGGTGAAC TTGGGTCTGTCCCGGGTGGACGACGCCGTGGCTGCCAAGCA
CCCGGGACTCGGGGAGTATGCCGCA TGCCAGTCACACGCCTTCATGAAGGGCGTTTTACCTTCGTACAGGCAC
CGGCATGGCCTTTGGCTTG CAGATGTTCA TTCAGAGGAAGTTTCCATACCCTTTGCAGTGGAGCCTCCTAGTGGC
CGTGGTTGCAGGCTCTGTGGTCAGCTACGGGGTGACGAGAGTGGAGTCGGAGAAATGCAACAACCTCTGGCTCTT
CCTGGAGACCGGGCAGCTCCCCAAAGACAGGAGCACAGATCAGAGAAGCTAGGAGAGCTCCAGCAGGGGCACAGA
GGATTGGGGGCAGGAGGAGTCTGGAACACAGCCTTCATGCCCCCTGACCCAGCCCGACCCTCCCCACACCCTAG
GGTACCCCAAGTCGTATCCTCTGTCCGCATGTGTGGCCAGGCCTGACAAACACCTGCAGATGGCTGCTGCCCCAAC
CTGGGACCTGCCCAGGAGGTTGGAGCAGAAAGGGCTCTCCCTGGGGTGGTGTCTCTCTAGGGTATTGGGATG
CATGTTCTGCACTGCCAGCAGAGAGGGTGTGTCTGGGGGCCACCACCTATGGGACACGGGGTCGAAGGGGCCTGT
ACACTCTGTCATTTCTTTCTAGCCCCTGCATCTCCAACAAGTCCAAGGTGACAGCTGGTGCTAGGGGCGTGGGG
TTAATAAATGGCTTATCCTTCTCTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2861

MVNLGLSRVDDAVAAKHPGLGEYAAQSHAFMKGVFTFVTGTGMAFGLQMF IQRKFPYPLQWSLLVAVVAGSVVS
YGVTRVESEKCNNLWLFLETGQLPKDRSTDQRS

3103/6881
FIGURE 2862

GGGGACTCCGGGAGGAGGAAC**ATG**GCCCGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGC
GTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCG
TGCGCGGCTACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTCGGGCGACATGCAGAAGCAAGGCT
GCGACTGTGAGTGCTCGGGCGGCGGGCGCATCTCCCACCAGAGTCAGGACAAGAAGATTACGTGTACGGCTATT
CCATGGCCTATGGTCCTGCCCAGCACGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGAGGTCA
CCTGGGCTAACGACGGCTACTGAGCACTCCCAGCCCGGGGCCTGCTGCCTCCAGCAGCCACTTCAGAGCCCCGCC
TTTGCTGCACTCCTCTTGAGGGCTGGCCCTGCCTGCTCCTGCGGCAGCCTCTGGTGACGTGCTGTCCACCAGG
CCTTGAGACAGGCTAGCCTGGCCACAGAATTAAACGTGTTGCCACACCTGCCGGCTTCT**TAAAA**AAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 2863

MAVADLALIPDVIDSDGVFKYVLIRVHSAPRSGLRRLQRARRSCAATSGLSTMRTSTTKCRATCRSKAATVSVWA
AGASPTRVRTRRFTCTAIPWPMVLPSTPFQLRKSKPSTPTTRSPGLTTATEHSQPGACCLQQPLQSPAFACTPLA
GLALPAPAAASGDVLSTRPWRQASLATELNVLEHLPAS

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FIGURE 2864

CC'GGACGGACGCTCGTCTTCGCCCCGCCATGGCCGAGAGCGACTGGGACACGGTGACGGTGCTGCGCAAGAAGGGC
CCTACGGCCGCCCAGGCCAAATCCAAGCAGGCTATCTTAGCGGCACAGAGACGAGGAGAAGATGTGGAGACTTCC
AAGAAATGGGCTGCTGGCCAGAACAAACAACATTCTATTACCAAGAACACGGCCAAGCTGGACCGGGAGACAGAG
GAGCTGCACCATGACAGGGTGACCCTGGAGGTGGGCAAGGTGATCCAGCAAGGTCGGCAGAGCAAGGGGCTTACG
CAGAAGGACCTGGCCACGAAAATCAATGAGAAGCCACAGGTGATCGCGGACTATGAGAGCGGACGGGCCATACCC
AATAACCAGGTGCTTGGCAAAATCGAGCGGGCCATTGGCCTCAAGCTCCGGGGAAAGGACATTGGAAAGCCCATC
GAGAAGGGGCCTAGGGCGAAATGAACACAAAGCCTCGAAATCAGTGCCTCCAGCTGATCTCGTTCCGCCGGTTC
CCCTTGGCCGCCAGTTCCGTTCTCCTCACGGGCCGAACGGAACAAGGGGTCCAGCTTGCGGGGGACCCTCCCCAG
CCCATTCCTGCTGTCAAACAAACAAAACCTTGCAAAGCG

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FIGURE 2865

MAESDWDTVTVLRKKGPATAAQAKSKQAILAAQRRGEDVETSKKWAAGQNKQHSITKNTAKLDRETEELHHDRVTL
EVGKVIQQGRQSKGLTQKDLATKINEKPQVIADYESGRAIPNNQVLGKIERAIGLKLRGKDIGKPIEKGPRAK

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FIGURE 2866

ACGGCAACGGGGGCTCTACTGCGCGCTGGAGGACCACAAGATCCTGGAGGACATGGAGCGCCGGGGAGTGGAGT
TTGTGCACGTGTACTGTGTGGACAACATCCTGGTGCGGCTGGCGGACCCTGTCTTCATCGGCTTCTGTGTGTTGC
AGGGCGCAGACTGTGGCGCCAAGGTGGTGGAAAAGGCATACCCCGAGGAGCCCGTGGGCGTGGTGTGCCAGGTGG
ACGGTGTCCCCCAGGTGGTGGAGTACAGCGAGATCAGTCCTGAGACCGCACAGCTACGTGCCTCCGACGGGAGCC
TGCTGTACAATGCAGGCAACATCTGCAACCACTTCTTCACCCGAGGCTTCCTTAAGGCGGTCAACCAGGGAGTTTG
AGCCTTTTGTGTAAGCCACACGTGGCTGTGAAGAAGGTCCCGTATGTGGATGAGGAGGGGAATCTGGTAAAGCCGC
TAAAACCGAACGGGATAAAGATGGAGAAGTTTGTGTTTGTATGTGTTCCGGTTTGCTAAGAACTTTGCTGCCTTGG
AAGTGCTGCGGGAGGAGGAATTTTCCCCACTGAAGAACGCAGAGCCAGCCGACAGGGACAGTCCCCGCACCGCTC
GCCAGGCCCTGCTCACCAGCACTACCGGTGGGCTCTGCGGGCCGGGGCCCGCTTCCTGGATGCCCATGGGGCCT
GGCTCCCAGAGCTGCCAGCTTGCCCCAAATGGAGACCCTCCGGCCATCTGTGAGATATCGCCCTTGGTGTCTT
ACTCTGGAGAGGGTTTAGAAGTGTACCTGCAAGGCCGGGAGTTCCAGTCCCCGCTCATCTGGATGAAGACCAGG
CCAGGGAGCCGAGCTGCAGGAGTCCTGACCCGCCAGACTGTCCCCAGACTCCCCGAGACCTGCCAGCCCCGG
CATCTGGAAGTCCCGACTCCCCCAGACCTGCCAGCCCCGGCGTCTGGAGCTGGGGGCTACAGCCCAGCCTGA
GCTCTGGGTGGGAAAGCAGCCTGCCCCATGCTTCCAGCCTGCAGAACACAGAATGAAACATGCTGGTAGACTCCA
CGAGGGCAGGGCCTCTCCTGTGCGCTCTGGACACAAGTGGCGACAGCCTGCTGGGGGCTCTGTGGCTCCATTCT
GGCTGTGGGGTCTAGTCAAGAGGCAGAGGGACTTGGGACCTGGGAGAATGGGGCTGAGAGGAGGCTTCGGGTGG
GGCCAAGGGAGGTGTGGTGTCTATCTGGGGAGAACAGGAGGGCATGTCCCTTTGGGAGCCCGCCTTGTGGATCCA
CCACACCCACCGAGCACTAGAAGCTGCATAAGCTACACAGGATGTGCTTCTGCAGCCTACAGATGCAGAACCAG
AATGAGGGGGACAATTCCACCCACTCGAGGGCTGCCCCCTCTTCCTTAGCAGACGAACCAGTAATGGGGGCAAGG
CTGGGGCATCCCAGCCCACACACCCTGGATGCCAGCAAGGCCACAGAAAGAGCCTGATGTCCATGATCCAGGTG
GCTCTGAGAAGCTTGGCCTGGACACCTGAGCCTGCGGCCGGTACTCCTGCCTTCTCCCCATCTATCCCCAAGGCC
TCTGCCTCTCAGCCTCTTCCATGGTTCGGTTTAGGCTGCTGAGTTTTCTGTGCTTCCCCAAGAACCAGTGGGATCA
ATGCCGGCGGCCTCTGTGATGGTTGCTGACTAATCCGGGATTTTCATGAGTCAGAGGCACCAACCCCTCACCCAGC
TGCCCTGCTGCTTCTGACGGATCTTGGTGTCTCAGGCTGCCTGGCTCTCCGAGTGAGGACGCAGCCTCCATATTTGG
TGCACTCAGGCATGGCTGGGACAAGCCAGCTGCCCCAGGGTTCTTCCCCTGGTGATTCTCGCCTGCTTCTCATC
TCAGGGGAGGCAGTGGCACCTCCCTCTCCCTGCTGACATGAAGAGAGCTATGATATGCCACTGCTGCCAACTCAT
CCTCTGCCCCCACCTCGAAACCCACAGTCCCCAGTGGAGGGCCACTACTCATCCCCATTGGTTTCCCAGGGGAGG
GGTGTGTCTGGAAGGGCAGGTTTCAGATGCAGCCTTCCAGATTTAGAGGCACTGGGAGGACAGTGGCTGAGTGGA
GGCGCCAGACCTGGGCAGGCAGCAGGCTCAGGCCACACCTTGTGATTTTTGAAACCAAAGCCCAGAAGATGAT
GTTTACTTCTCTCTCCCTGGCTCTGCCCTTCTTACTGCAAACCATGCTGTGCCTTAGGGCCCTTCTCATAGCTGT
TCCTCATGGCCATGACTGGAACAGGGATGCAACCTCTTCTACACAAGCACAGTTAGTTGGGTGAAGTCTTTTTT
TTTGTGTGTTTTAGACGGAGTTTCACTCTTGTGTTGCCAGGCTGGAGTGAAGTGGCGTGACCTTGGCTCACTGCAA
CCTCCAGGCCAGCCTCAGCCTCCCTAGTAGCTGGGACTACAGGCACCCACTACCACGCCTGGCTAATTCTTTGT
TTTTTAGTAGAGATGGGGTTTGACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCCACCTC
GGCCTCCCAAAGTGCTGGGATTATAGGTGTGAGCCACCGCGCCGGCGGTTGCTGGCATCTTAATGTTCTGTAG
GTGGAATATTTCCAATAAACACAAGGTGCCGTAATTGACTGCT

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FIGURE 2867

MERRGVEFVHVYCVDNILVRLADPVFIGFCVLQGADCGAKVVEKAYPEEPVGVCQVDGVPQVVEYSEISPETAQ
LRASDGSLLYNAGNICNHFFTRGFLKAVTREFEPLLKPHVAVKKVPYVDEEGLVKPLKPNGIKMEKFVFDVFRF
AKNFAALEVLREEEFSPKNAEPADRDSPRTARQALLTQHYRWALRAGARFLDAHGAWLPELPSLPPNGDPPAIC
EISPLVSYSGEGLEVYLQGREFQSPLILDEDQAREPQLQES

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FIGURE 2868

TGCAGGAGA**ATG**GCTACTCATCACACGCTGTGGATGGGACTGGCCCTGCTGGGGGTGCTGGGCGACCTGCAGGCA
GCACCGGAGGCCAGGTCTCCGTGCAGCCCACTTCCAGCAGGACAAGTTCCCTGGGGCGCTGGTTCAGCGCGGGC
CTCGCCTCCAACCTCGAGCTGGCTCCGGGAGAAGAAGGCGGCGTTGTCCATGTGCAAGTCTGTGGTGGCCCCTGCC
ACGGATGGTGGCCTCAACCTGACCTCCACCTTCCTCAGGAAAAACCAGTGTGAGACCCGAACCATGCTGCTGCAG
CCCGCGGGGTCCCTCGGCTCCTACAGCTACCGGAGTCCCCACTGGGGCAGCACCTACTCCGTGTCACTGGTGGAG
ACCGACTACGACCAGTACGCGCTGCTGTACAGCCAGGGCAGCAAGGGCCCTGGCGAGGACTTCCGCATGGCCACC
CTCTACAGCCGAACCCAGACCCCCAGGGCTGAGTTAAAGGAGAAATTCACCGCCTTCTGCAAGGCCAGGGCTTC
ACAGAGGATACCATTGTCTTCCTGCCCCAAACCGATAAGTGCATGACGGAACA**ATAG**ACTCCCCAGGGCTGAAG
CTGGGATCCCGGCCAGCCAGGTGACCCCCACGCTCTGGATGTCTCTGCTCTGTTTCCTTCCCCGAGCCCCTGCCCC
GGCTCCCCGCCAAAGCACCCCTGCCCACTCGGGCTTCATCCTGCACAATAAACTCCGGAAGCAAGTCAGTTAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2869

MATHHTLWMGLALLGVLGDLQAAPAEQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVAPATDG
GLNLTSTFLRKNQCETRTMLLQPAGSLGSYSYRSEPHWGSTYSVSVVETDQYALLYSQGSKGPGEDFRMATLYS
RTQTPRAELKEKFTAFCKAQGFTEDTIVFLPQTDKCMTEQ

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FIGURE 2870

GCGCAGGCGCAGTCTCCGCGTGCGCGCCTCGCCGGCGCCTCCATCCCGGATCCTTGCTGCAGCGTCAGCGCCGCC
GCCCCGTGCCTTTTCCTCTTCCTCCTCCTCCTCCTTGGCATCCGCCTCTTCTTCCTCCTGCGTCCTCCCCCGCTGCC
TCCGCTGCTCCCGACGCGGAGCCCGGAGCCCGCGCCGAGCCCCCTGGCCTCGCGGTGCCATGCTGCCCCGGCGGCG
GCGCTGAAGGATGGCGACGCCGCTGCCTCCGCCCTCCCCGCGGCACCTGCGGCTGCTGCGGCTGCTGCTCTCCGG
CCTCGTCCTCGGCGCCGCCCTGCGTGAGCCGCCGCCGGCCACCCGGATGTAGCCGCCTGTCCCGGGAGCCTGGA
CTGTGCCCTGAAGAGGCGGGCAAGGTGTCTCCTGGTGACATGCCTGTGGGCCCTGCCTTCAGCCCTTCCAGGA
GGACCAGCAAGGGCTCTGTGTGCCCAGGATGCGCCGGCCTCCAGGCGGGGGCCGGCCCCAGCCCAGACTGGAAGA
TGAGATTGACTTCCTGGCCCAGGAGCTTGCCCGGAAGGAGTCTGGACACTCAACTCCGCCCCCTACCCAAGGACCG
ACAGCGGCTCCCGGAGCCTGCCACCCTGGGCTTCTCGGCACGGGGGCAGGGGCTGGAGCTGGGCCTCCCTCCAC
TCCAGGAACCCCCACGCCCACGCCCCACACCTCCATGGGCTCCCCTGTGTCATCCGACCCGGTGACATGTGCGC
CCTGGAGCCCCGGGGAGGGCAAGGCGACGGCCTCGCCCTTGTGCTGATCCTGGCGTTCTGTGTGGCCGGTGACG
CGCCCTCTCCGTAGCCTCCCTCTGCTGGTGACGGCTGCATCGTGAGATCCGCCTGACTCAGAAGGCCGACTACGC
CACTGCGAAGGCCCTGGCTCACCTGCAGCTCCCCGGATCTCGCCTGGGGACCAACGGCTGGCACAGAGCGCGGA
GATGTACCACTACCAGCACCAACGGCAACAGATGCTGTGCCTGGAGCGG

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FIGURE 2871

CGGGGCTCGTGGCGTCGGGGCTGGCGGGCTCCCCGTTGGGCGGGGGCGGCGGTCCGAGCGGCTGCGGCAGCGGAA
GCGGGTCCGGGTTCGCGCAGGGCGGGGGCGGCGCAGCGGGCGGAGGCGGCCGTGGGCCCGCTGGGCAGAATGTCAC
GATGGACGAGGGCGGCACGCCCCCTGCTCCCCGACAGCCTGGTCTACCAGATCTTCCTGAGCCTGGGCCCGGCCGA
CGTGTGGCCGCCGGGCTGGTGTGCCGCAATGGCAGGCCGTGTGCGGGACGAGTTCTGTGGAGGGAGCAGTT
CTACCGCTACTACCAGGTGGCCCCGCGACGTGCCCCGACACCCAGCGGCCATGTCCTGGTACGAGGAGTTCCAGCG
GCTGTATGACACGGTGGCCTGCGTGGAGGTGCAGACGCTGCGGGAACACACAGACCAGGTCTGCACCTCAGCTT
CTCCCATTCGGGTACCAGTTCGCGTCTGCTCCAAGGACTGCACTGTGAAGATCTGGAGCAACGACCTGACCAT
CTCGCTGCTGCACAGCGCGGACATGCGGCCCTACAACCTGGAGCTACACCCAGTTCTCCAGTTCAACAAGGACGA
CTCGCTACTGCTGGCCTCGGGGGTGTTCCTGGGGCGGCACAACCTCCTCATCCGGCGAGATTGCTGTATCAGCCT
AGACTCCTTCGCGCTGCTGTCCCGCTGCGGAACAAGCCCTATGACGTGTTTGGCTGTTGGCTCACCAGACCAG
CCTCATCTCGGGGAACCTGCACCGCATCGGAGATATCACCTCCTGCTCGGTGCTGTGGCTCAACAATGCCTTCCA
GGATGTGGAGTCAGAGAACGTCAACGTGGTGAAGCGGCTGTTCAAGATCCAGAACCTCAATGCCAGCACCCTCCG
CACGGTGATGGTGGCCGACTGCAGCCGCTTCGACAGCCCTGACCTGCTGCTGGAAGCCGGTGACCCGGCCACGTC
CCCCTGCCGCATCTTTGACCTGGGCAGCGACAACAGAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXTCGGTACACCCCT
GCCGCCATGCTGCCCGCCTCGGTCTTAGGAGCTTGGGGGAGGCCGGGCAGGGGTCTTGAGGGGCAGACAGCAAGC
AAGTCCACAGGCAAAGCTGGGATCGTTCACTCGCCCCTGGGGTCACAAGCCCAGACCTGGGGCCTGTGGGATGAG
CAGTGAACAAACGCAGGCAGGGCCGCTGGCCAGCAAGCAACCGACGGGCCTGATTACAGGTCTGGGGCCCCCGG
AGCAGGCAGTGCCACGGACCTCTGTGGTGTCTACAGCCCCAGAGACACCACTGAGGTAGGAAGCTGCCCTGGAG
TGATGTCCTTGGGGCATTGGACAGGGACCCTCACCGTAGCCCTCCCTGCAGGCATCAAGCAGATCCTGCCACACC
AGATGACCACGGCAGGGCCCGTGTGGTGTAGGGCCGGGGCTCCGATGCCTTCTTCGACGCGCTGGACCACGTCA
TAGACATACACGGACACATCATCGGCATGGGCCTGTGCCCCGACAACAGGTGGGCCTCTTGCCAGTGTCCCAGGC
GGGGTGCCCGCAGGCGGCCACACCTAGCACAGTGCCCTCGCCAGGTACCTGTACGTGAACAGCCGCGCCTGG
CCCAACGGTGCGGTGGTGGCCGACCCCATGCAGCCGCCACCAATCGCGGAGGAGATTGACCTGCTGGTGTTCGAC
CTCAAGACCATGCGGGAGGTGAGGCGGGCTCTGCGTGCGCACCGCGCCTACACGCCCCAACGACGAGTGCTTCTTC
ATCTTCCTGGACGTACGAGGGACTTCGTGGCCAGCGGGGCGGAGGACCGGCACGGCTACATCTGGGACCGCCAC
TACAACATCTGTCTGGCCAGGCTGCGGCACGAGGATGTGGTCAACTCAGTGGTCTTCAGTCCCAGGAGCAGGAG
CTGCTGCTACGGCCAGCGACGACGCCACCATCAAAGCCTGGCGCTCCCCACGCACCATGCGCGTCTCCAGGCA
CCTCGCCACGGCCTCGCACCTTCTTCTCCTGGCTTGCCAGCCAGAGGCGCTGAGGTGTGCTGGGTGCACTGGAG
CCACCGGGACCCCTTGAGGACATCGCCAGGCTCTGTGGCTTTTCCCGAGCGGGAGAGGTGGAGATGCTTATAGC
AGTTACGCCTTAGGAAGGGGACAACCAGGCCCCGCCACACGCTCACACACAAACCTGCTCACGCAGCTGTGATGC
TTGGCACGGGGTGGCCAGTGCAGATGGAGCCCAAGGCCCCCTCGGCCTCCTGGGCAACTTGGGGTACACAGGATA
CTGGGGGTGCCGCTCCTCACTCAACCCAGGCTAGGGGTACACCTGACCCAGCTGGCCTCGGCCCCGGGCACCTT
CGGCTGGTCCCTGTGGGGCCCTGGACGGTGGCCAGTGGTGGCAGGGGCTGCTCCTGGCTGTGGTTGTGCGCCCGG
GGCTTGGGAGCGGCCGGTACGCTGCTGTGGGCCCGAGTGTGTTGCATGTCCACGCACCAACCCGTTACAGGGCCCT
GAATAAACAGTTGGCAACAGC

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FIGURE 2872

MDEGGTPLLPSLVYQIFLSLGPADVLAAGLVCRQWQAVSRDEFLWREQFYRYQVARDVPRHPAAMSWYEEFQR
LYDTVPCVEVQTLREHTDQVLHLSFSHSGYQFASCSKDCTVKIWSNDLTISLLHSADM RPYNWSYTQFSQFNKDD
SLLLASGVFLGPHNSSSGEIAVISLDSFALLSRVRNKPYPVFGCWLTTETSLISGNLHRIGDITSCSVLWLNNAFQ
DVESENVNVVKRLFKIQLNASTVRTVMVADCSRFDSPDLLLEAGDPATSPCRIFDLGSDNRXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXGTPLPCCPPRS

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FIGURE 2873

GATTATTGATTAAATTTGGGCACCGCGAGGGCTCGAGTCCCCCACACCACTGCCCCGGCCTGCGGGGGAGCACAGA
CAGCCCCGGGCCCTCCCGGCTGCAGGTCCCGGGCTTTCCCGCGCGGTTGCCGGCTCCGCCCAGAGGAGCCGCGCC
CGGCGGAGGGGTAAGAAAGGCAGGGTCGCGGCGTCAACGCGGCGGGCCGTCTCGAGTCCAGGGCCCCGCGTCCTCCC
CGACCTCCCGACGCCACCTCACGGCCTCAGGGGGACTGGGCTCCCGGATCTGACCGGCTTCAAGCTCAAGCCCTA
CGTGAGCTACCTCGCCCCCTGAGAGCGAGGAGACGCCCCTGACGGCCGCGCAGCTCTTCAGCGAAGCCGTGGCGCC
TGCCATCGAAAAGGACTTCAAGGACGGTACCTTCGACCCTGACAACCTGGAAAAGTACGGCTTCGAGCCCACACA
GGAGGGAAAGCTCTTCCAGCTCTACCCAGGAATTCTGCGCTAGCTGGGCGGGGGAGGGGCGGCCTGCCCTCA
TCTCATTCTATTAAACGCCTTTGCCAGCTA

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FIGURE 2874

CTGAGCTGTCCCTGCAGGACTCCAGTGGAAGTGAAAGAACTGGGCACCGGGGAAAAGCTAGGATGTCCCACACTC
CTACACCATGCAGGGAACTCGGGCACAGGCCGGGCTGGGCCGGGATCAGATGGGAAGCAGAAGCTCATCATGACC
AGAAACTGTTTCCCTACGGAGAGCACTTGGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACACACGACTC
TAACGGGATTGTAAGAATCAAGTCACTCTCATGGGAAGAATTTTTATATGGGAAAGCGGCTAAAACTTTCATTGG
ACTGGAATGTTTGGAGATTGTTAAATTCCAAATCAGGAACCACAACTGCCCTCTAATAAGATATCAGCTGTCTA
AGCGTGTGGGTGCCGCCTTTCTGCCAGTAGTTCTGGTTCTTAAGAAAAGCACCATAAATCAGACATGAAAATTCT
GGCTCCAAAAATAGCATTTTCTTTGTGCAAATAAAAACGTGTGTATCAAGTATGACGTTCCCCAACGTGGACAC
ACTTGGTTTCCTCAGAAAGCCAAGCCCGCTGCAGCTGCCACATCCCAGGGCTTATGGTGCAGCAGGTGCTTTTTTC
AAGACAGGAATCAAAGTGTTAGGAACACGGCAGACAGGTGACACCTGGATAACAAATGCAGGATGAGGAGTACTG
CAGAGGTCACAGGGAAGTCACAGAACAGTAATACGCTAGCAGGGGCATGGGGCGTGAAGAACAGAAGAAGACAGT
TTGAGAAAAGCATCTGCAAAATGCTAAAGAGCAGAGCTTACCTCATTGCCTGTCCCCATCCCATCCCAGGTCACC
ACCTGGCTGACCCAGGTCCCCGACCCAACAACCCCTCCCAAGTCCCTAACTCCCTCACTTGGACTTGAGAC
CCTTCACAACCCAGCAGCGCTCCGCCTCCAACGTGACATCATGCTTTCTGGAAACTTCCCCGTATGTCCCACTTT
CCCACACTTGGTGGCCTGGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCTGTGATCACCTCCTCTCGGC
CTCTGGCCAACACAGTCCCACCCATCTGTGGGTAACAAGGGGGTGTGTGTGTTCTTTTCAGCCTTGCTAAACTGT
CTGAATCAAGGATCACAACTACAGCCTGCAGGCCAAAGCCAGCCCACAGCCTGTGTTTGTAAATAAAGCTTTAT
TGGAACAAAGCCACACCCCTTAATCTACAGATGATCTGTGGCTACTTTCACACCACAACAGAGTACCATGGTTCT
GACAGAGACTGGGGGACCCTGTCTAAATGACTTCTGACCTGGACCTTTACTGAAAATCCTCCAATCATTCTGTT
GACAAGAATGGTGTATTACTTTTTGCAATAAGAAACAAGTAACCTTTGCAGAATTCCACCCATCTTTCAAGGCTG
ATCCCAGAAGTTCCCTCTGCCCACGCACCTACCTGATCCTGATCACTTCCTAAACTGCAGCCCGGCCACCCGGC
TCCAGCATCATTTGTGGAGTCTCAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCCTAACTTTCCCGAGCC
TACTGTACCGAAACAGGACAGCAGAGTAGGAAGCCTCTGTGACTTCTGCTCCCTCCCTAGCTTTTCCACCAGACC
CTGCATGGTCCCACCCTGGCTGTGTGAAGCAAGGATCAGGGAGCGTGGCTCTATGTCAGTCTCCAGAACCCTGTC
CACCTGGCGTGGTGGCAGACATGGCTACCTGCAGCTGAGCTGCCAGTTCCTCTGAGTCTCAAAGACCAGGCCA
TTTTCTTCATGTTTACCAGCTCATGTAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACA
CCAGACGCCTGGGGTGCCAGCTGGGCTCCCACCCACCCACGCTCAAGCCAGGCTGGGGGTGGAACAGGGTGT
GTGGTTTCTGGGAGCTGGTTCTTAGATTTGGCATCTGAAGGTATAAAGGCCTGGGGGGGTGCACATCAAAATGA
CCAAATCGATTTGAGGAGAGAGCCTTAAGGAAGGTTGTACCTTCTGTGCTGGATGCTCTTCAAGGACTGAAGAA
TTATTTTTCATGTTTTTCTTAATTCCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCAC
ATAAAAGATGACTTTTCTAGGACACC

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FIGURE 2875

GGCTACCAGGGCATGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAGAGTGTCTCCAGCATCCTGCAA
GTGGGCGGGACGATCATTGGCAGTGC GCGGTGCCAGGCCCTCCGCACGCGGGAAGGCCGCCTGAAGGCTGCTTGC
AACCTGCTGCAGCGAGGCATCACCAACCTGTGTGTGATCGGCGGGGACGGGAGCCTCACC GGGGCCAACCTCTTC
CGGAAGGAGTGGAGTGGGCTGCTGGAGGAGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAGAAGTAC
GCCTACCTCAACGTGGTGGGCATGGTGGGCTCCATCGACAATGATTTCTGCGGCACCGACATGACCATCGGCACG
GACTCCGCCCTGCACAGGATCATCGAGGTCGTGACGCCATCATGACCACGGCCAGAGCCACCAGAGGACCTTC
GTTCTGGAGGTGATGGGACGACACTGTGGGTACCTGGCCCTGGTGAGTGCCTTGGCCTGCGGTGCGGACTGGGTG
TTCCTTCCAGAATCTCCACCAGAGGAAGGCTGGGAGGAGCAGATGTGTGTCAAACCTCTCGGAGAACCCTGCCCGG
AAAAAAGGCTGAATATTATTATTGTGGCTGAAGGAGCAATTGATACCCAAAATAAACCCATCACCTCTGAGAAA
ATCAAAGAGCTTGTGCTCAGCAGCTGGGCTATGACACACGTGTGACCATCCTCGGGCACGTGCAGAGAGGAGGG
ACCCCTTCGGCATTTCGACAGGATCTTGGCCAGCCGCATGGGAGTGGAGGCAGTCATCGCCTTGCTAGAGGCCACC
CCGGACACCCAGCTTGCCTGCTGCTCACTGAACGGGAACACGCCGTGCGCCTGCCGCTGATGGAGTGCCTGCAG
ATGACTCAGGATGTGCAGAAGGCGATGGACGAGAGGAGATTTCAAGATGCGGTTGACTCCGAGGGAGGAGCTTT
GCGGGCAACCTGAACACCTACAAGCGACTTGCCATCAAGCTGCCGATGATCAGATCCCAAAGACCAATTGCAAC
GTAGCTGTATCAACGTGGGGGCACCCGCGGCTGGGATGAACGCAGCCGTACGCTCAGCTGTGCGCTGGGCATT
GCCGACGGCCACAGGATGCTCGCCATCTATGATGGCTTTGACGGCTTCGCCAAGGGCCAGATCAAAGAAATCGGC
TGGACAGATGTGCGGGGCTGGACCGGCCAAGGAGGCTCCATTCTTGGGACAAAACGCGTTCTCCCGGGGAAGTAC
TTGGAAGAGATCGCCACACAGATGCGCACGCACAGCATCAACGCGCTGCTGATCATCGGTGGATTTCGAGGCCTAC
CTGGGACTCCTGGAGCTGTGAGCCGCCCCGGGAGAAGCACGAGGAGTTCTGTGTCCCCATGGTCATGGTTCCCGCT
ACTGTGTCCAACAATGTGCCGGGTTCCGATTTCAGCATCGGGGCAGACACCGCCCTGAACACTATCACCGACACC
TGCGACCGCATCAAGCAGTCCGCCAGCGGAACCAAGCGGCGCGTGTTCATCATCGAGACCATGGGCGGCTACTGT
GGCTACCTGGCCAACATGGGGGGCTCGCGGCCGAGCTGATGCCGCATACATTTTCGAAGAGCCCTTCGACATC
AGGGATCTGCAGTCCAACGTGGAGCACCTGACGGAGAAAATGAAGACCACCATCCAGAGAGGCCTTGTGCTCAGA
AATGAGAGCTGCAGTGAAAACCTACACCACCGACTTCATTTACCAGCTGTATTTCAGAAGAGGGCAAAGGCGTGTTT
GACTGCAGGAAGAACGTGCTGGGTCACATGCAGCAGGGTGGGGCACCTCTCCATTTGATAGAACTTTGGAACC
AAAATCTCTGCCAGAGCTATGGAGTGGATCACTGCAAACTCAAGGAGGCCCGGGGCAGAGGAAAAAAATTTACC
ACCGATGATTCCATTTGTGTGCTGGGAATAAGCAAAAGAAACGTTATTTTTCAACCTGTGGCAGAGCTGAAGAAG
CAAACGGATTTTGAGCACAGGATTCCCAAAGAACAGTGGTGGCTCAAGCTACGGCCCCCTCATGAAAATCCTGGCC
AAGTACAAGGCCAGCTATGACGTGTGCGACTCAGGCCAGCTGGAACATGTGCAGCCCTGGAGTGTCTGACCCAGT
CCCGCCTGCATGTGCCTGCAGCCACCGTGGACTGTCTGTTTTGTAACTTAAGTTATTTTATCAGCACTTTAT
GCAGTATTATTGACATTAATACCTAATCGGCGAGTGCCCATCTGCCCCACCTGCTCCAGTGCGTGCTGTCTGTG
GAGTGTGTCTCATGCTTTCAGATGTGCATATGAGCAGAAATTA

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FIGURE 2876

GGGTGGGGCGTGTTGACCCCTTAAAGGCGCCAGAGCCCGCGGTACGGCTCAGGTTCCCGGTGCTTCGCGCGTCTG
TGCCGTTGTACAGGCCAGGGAGGTGGCACCACCAGGCGAAGCTTGGCGAGATTGTGTCTCAAGCGCGTACGGG
CGCCAATTGGCCGGGCGATGTGGCGTGGACTGGCGCTGGCGCGAGCGATTGGCTGCGCGGCCCGGGGGCGGGGCC
AGTGGGCGGTGCGCGCCGAGACTGTGCTCAAAGCGGGCGCCATCCGGGACCGGCGGTTGTCTGTGGCCGGAGGC
TGATCAGTGTCTAGAACAGATCAGACATTTTGTAAATGATGCCTGAAATAAACACTAACACCTCGACAAGCAAC
AGGTTCAACTCCTGGCAGAGATGTGTATCCTTATTGATGAAAATGACAATAAAATTGGAGCTGAGACCAAGAAGA
ATTGTACCTGAACGAGAACATTGAGAAAGGATTATTGCATCGAGCTTTTAGTGTCTTCTTATTCAACACCGAAA
ATAAGCTTCTGCTACAGCAAAGATCAGATGCTAAGATTACCTTTCCAGGTTGTTTTACGAATACGTGTTGTAGTC
ATCCATTAAGCAATCCAGCCGAGCTTGAGGAAAGTGACGCCCTTGGAGTGAGGCGAGCAGCACAGAGACGGCTGA
AAGCTGAGCTAGGAATTCCTTGAAGAGGTTTCTCCAGAAGAAATTAATTATTTAACACGAATTCCTACAAAG
CTCAGTCTGATGGTATCTGGGGTGAACATGAAATTGATTACATTTTGTGGTGAGGAAGAATGTAACCTTTGAATC
CAGATCCCAATGAGATTAAGCTATTGTTATGTGTCAAAGGAAGAACTAAAAGAACTTCTGAAAAAGCAGCCA
GTGGTGAAATTAAGATAACGCCATGGTTTTAAATATTGTCAGCGACTTTTCTCTTTAAATGGTGGGATAACTTAA
ATCATTGAATCAGTTTGTGACCATGAGAAAATATACAGAATGTGAATATGTAGGTAAATGATTACAGAAAAAT
TTATCTGCTTAACAACTTAGAATGACTTTTTCTTTTAAATTTAGTTCTATCATTAAATTTATCATTAAATTTAG
TTCTATCATTGGTACTATCATTAAATGTATTATATACACTGATACTTTAAACTTGTGTGGAAAAAACTAACTTA
TAATTTTGTATCACACACCCTGGATATGTGTTCTGTTTCTAAGCGACATTTGTGAGAGATTATTGTAAATGAGA
GCGAGCAAATAAACTTAATTTAATCTTTGCAGATACATACTTATGGGAAATTTGAACAAATGAGTGAAACTCTG
TTTTTAGTAGGCTGTGATAAACATTTCCGGAGCACTTGCAGAGGACTTGCTATTTGCCAGGTGCTTTATGTATCA
TTAAATTTTCTCATAGTTCAGAAAAATGTGCAAAGGAAACTATTGTCTCGCTCCTTCAAACAGTCTTAATTAA
CTTTCATATTAGCAGATTAACTAGCAGAGCAGGTTCAAGGGAAATTAATGATATGGACCTAATTTGTATCAT
TCTGAGTTGATTGTGTGGTTTATTCATTCTGGAAACATGTTGATACTTACAGTCAGCCACTGCTTTTGATAAGTG
ATATTGATTAGGTTGAATCTTCTGTAAATAGTATTTACCAGTTAGCAAAGTCTGTGTTTTTCAAGATTACAGTGA
GCACAGAGGTGTTTATAAAATGGGAATTGAGTCCCACTCGGTAAGAGTTGCTTAACTTGACACTGTTGACATTT
GGGCTGGATAAAAACCCCTGTGGTGGGGTCTGTGCTGTGCTGATGGTGAGCAGCGTCCCTCTCATGTGAC
ACCCACAGTTATGCCGGATGTTGCCAGATGCCCCTAGGGGACAGAGTCAACCCCCAACTGAGGACCACTGTCCTA
CAGAGTCAGGAAATATTGTAGGGAGAAAAAATAACAACAACAAAGGCCTGTGTTAATGTTAAATAGATGAGATT
ATGGAATGTGTATATTAATGTTAAAAATTGTACCTTGATCAATGTACTTTTTATAAACTTGCCATAGATATCTCA
GATTTGAAACCTCAAGACAGATTTATTATTCTTAAATGCTGTATGATAATGAAGAAAAATAAAATTTATTCTT
GCAAAGTTAAATGTTTGTAAATTCAATAGAATGACTCATTTATGGTTAACTTTGGGCAATTTATAATTTAGAC
AAGACTGTTTAGCAAGTATTTTATTGAAAAGTAAAAAAATGCAATTTAA

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FIGURE 2877

MMPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLLQQRSDAK
ITFPGCFTNTCCSHPLSNPAELEESDALGVRRAAQRRLKAELGIPLEEVPPPEEINYLTRIHYKAQSDGIWGEHEI
DYILLVRKNVTLNPDNEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIAATFLFKWWDNLNHLNQFVDHEKI
YRM

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FIGURE 2878

GGGGCTTG GTTGAACGGACTCACCAGGAAACGTGACTTTCGTGTCCGACCTCTGCTGTATCAGGATTTCGATTCTT
GGTGTAAACAAGACAACGCTGAAGGCTCGGTGCAGCAGCCCTGCAAAGCTTTGTGTCTTAGGTTTCAGCGTGCT
GACGTTCTCTGGGCCCTGAAGTCACTGCTGCTGGCTGGTGTGCTGGCCACTTGCTGCTGGCCTGTCTCCAC
CGGGTGGATGCCCAGCGAGCTCTGGATGCTGTGTTTTTCCAGCGCTCTTGGGAGGTGGGCTGTGCCACTGCCTGG
CCCACCTGGCCCACCTGGCCCACCATTAACCTGAAGGGAAGCATGAACAGCCTTTGACGTGGGAGTGGCGACTGCT
GAGAGGGAACGTGTCTGTACACAAGCAATGTAGCCTTATGGGACCTGAGTGGAGCCCCAACCCACGCAGGGCGTGT
CTTCATGGCTTTTCCTGGCCAATCTGATACCAAGATGCAGTGGCCAGAAGTACCTGCACTTCCACTCCTGTCAAG
TCTCTGCATGGCTATGGTGAGGAAGAGCTCTGCACTGGGCAAGGAAGTTGGCCGTCGAGTGAAGGAAATGGTGAT
GCTGGTGGCCCCTTTCCGGCAGTCAAGTTCCTATCAAGGACATTCAGTTCTCGGAAAGTGGTGAAGGCACATGC
TTCCCTGCATGGTGCCCGCTCTCTCCACTCTCTAGAAATATTAGAGGCTAGGCTGCTGCTGTATGTCAGGGCTA
GTCCCTCTTCTATGAATCCAGAATAACTCTGAAGAAGCCGAGTAACAGGCATGAAGTGAAGAGAAATCGCTGTAA
CAGGAAGACAGCAAAGCAGATGCTAATGACCACACTATTTAACGAACCTGGAACCAACGAGAAAATACGGTATTAC
TGAAGACTGCACTTCCTTGAACAGAGTGCTCTTCTCAGCAAATCGGAAATGCCTACACAAATCGCTTTACAAGAA
AGACTGTTTCAAAGCAGCACCTTTCTCAATGTTCTCGTTCAGGTGACAAATCTTCTTGGTCTCAGCTCCAATTTT
ATTGTCAATTTTCATCAATAAGGATACACATCTCTGCCAGGAGTTGAACCTGTTGCTTGTGAGGTGGTTAGTGTT
TATTTCAAGGCATCATTACAAAATGTCTGATCTGTTCTAGAACACTAATATTAAAGGAAAAGAGAAAG

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FIGURE 2879

CCCGCGTGCATACGGCTGCCGGCATGGCACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCCGCCAAGGACT
TCATAGACCTCACGTTGTCTGAAGACTCAACGAAAGACTCCAACCGTTATTCATAAACATTACCAAATACATCGCA
TTAGACATTTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTACAAATTCTAACAG
ATTTCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTTGATGAATATTCCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTCACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGTGCTGCGGTCTGTATGTGATGGATTTGTCTGAGCAGTGTTGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACCTTCTGAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATTCCCTGTAA
TAGAGACCAGCACCCCTGACTGAGGAAGGTGTTATTAAGTTAAACAGAGGCTTGCATAGGCTTTTGGCTCATC
GAGTGGAAACCAAATGAAGGGAAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGCCCCCTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAACTGAGGAGT
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAAGACGAAGAGATGCTGGAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAATTTCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCCATTCAGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAAGACTCTGCTCCCCCGTCTCTGTGGCCCGGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
TGAAGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGC
CCAAGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATAGTATCCGTTTGGTTGGCGTGGCT
TCGCTAGAGTGTTGCTGTTTATTTCTGGTTTGGCACAGTATGGTTTCATGAAATTGGAGCTCTGTATAAACTGA
AAAAGACAAAATAAGTAAAGCACTTGTTGCTTTGCTGAAAACATATGGTTAACCTATATAGGTGTGGGAAATTTT
TGTCAGTGCATAATATTACAAATATTTTGGAGTAGACAGTGGTTCCACATTTAATGGAGTATCAGTTGCTTCAGAT
TTTCAGAACTGGGAAGATTTACTGGTTTAACTAGGTTGTTTTGATGGAGAAAAACCTTATTTTCTTTTGTAAGA
GCTGGGAGCAAACACGTTTATGAGTGTGTCGGAATCCCGTGCTTAAATACGCTCTTAAATTATTTCTAGTCTT
ATTTTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAAAGT

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FIGURE 2880

MAHYNEFKKITVVP
SAKDFIDLTL
SKTQRKTPTV
IHKHYQIHRIR
HFYMRKVKFT
QQNYHDRLSQ
ILTD
FPKLDDI
HPFYADLMN
ILYDKDHYKL
ALGQINIAKN
LVDNVAKDY
VRLMKYGDSL
YRCKQLKRA
ALGRMCTVI
KRQKQSLEY
LEQVRQHLS
RSLPTIDPN
TRTLLLCGY
PNVGKSSF
INKVTRADV
DVQPYAFTT
KSLFVGHMD
YKYLRWQV
VDTPGI
LDHPLEDRN
TIEMQAITA
LAHLRAAVL
YVMDLSEQC
GHGLREQL
ELFQNI
RPLFINKPL
IVVANKCD
VKRIAELS
EDDQKIFTD
LQSEGF
PVIETSTL
TEEGVIK
VKTEACD
RLLAHRVET
KMKGNKV
NEVLNRL
HLAIPTRR
DDKERPP
FIPEGVVAR
RRMETEES
RKKRERD
LELEM
GDDYILD
LQKYWDL
MNLSEKH
DKIPEI
WEGHNI
ADYIDP
AIMKKL
EELEKEE
ELRTAAGE
YDSVSE
SEDEEM
LEIRQL
AKQIRE
KKLKIL
ESKEK
NTQG
PRMP
RTAKK
VQRT
VLEK
EMR
SLG
VDM
DDK
DDAH
YAVQ
ARRS
R
SITR
KRK
REDS
APP
SSV
ARSG
SCSR
TPR
DVS
GLR
DV
K
M
V
K
K
A
K
T
M
M
K
N
A
Q
K
K
M
NRLGKKGE
ADRHV
FDMK
PKHLL
SGKR
KAGK
DDR

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FIGURE 2881

TGCTAACCAGGCCAGTGACAGAAATGGATTTCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTG
TCCTGGGATTITGGCACCTATGCGCCTGCAGAGGTTCCATAAAAGTAAAGCTCTAGAGGCCGTCAAATTGGCAATAG
AAGCCGGGTTCCACCATATTGATTCTGCACATGTTTACAATAATGAGGAGCAGGTTGGACTGGCCATCCGAAGCA
AGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCAAAGCTTTGGAGCAATTCCCATCGACCAG
AGTTGGTCCGACCAGCCTTGGAAAGGTCACCTGAAAAATCTTCAATTGGACTATGTTGACCTCTATCTTATTTCATT
TTCCAGTGTCTGTAAAGCCAGGTGAGGAAGTGATCCCAAAAGATGAAAATGGAAAAATACTATTTGACACAGTGG
ATCTCTGTGCCACATGGGAGGCCATGGAGAAGTGTAAGATGCAGGATTGGCCAAGTCCATCGGGGTGTCCAACCT
TCAACCACAGGCTGCTGGAGATGATCCTCAACAAGCCAGGGCTCAAGTACAAGCCTGTCTGCAACCAGGTGGAAT
GTCATCCTTACTTCAACCAGAGAAAACTGCTGGATTTCTGCAAGTCAAAGACATTGTTCTGGTTGCCTATAGTG
CTCTGGGATCCCATCGAGAAGAACCATGGGTGGACCCGAACCTCCCCGGTGCTCTTGGAGGACCCAGTCCTTTGTG
CCTTGGCAAAAAAGCACAAAGCGAACCCAGCCCTGATTGCCCTGCGCTACCAGCTGCAGCGTGGGGTTGTGGTCC
TGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTGTTTGAATTCCAGTTGACTTCAGAGGAGA
TGAAAGCCATAGATGGCCTAAACAGAAATGTGCGATATTTGACCCTTGATATTTTGTGCTGGCCCCCCTAATTATC
CATTTTCTGATGAATATTAACATGGAGGGCATTGCATGAGGTCTGCCAGAAGGCCCTGCGTGTGGATGGTGACAC
AGAGGATGGCTCTATGCTGGTGACTGGACACATCGCCTCTGGTTAAATCTCTCCTGCTTGGTGATTTTACGCAAGC
TACAGCAAAGCCCATTTGGCCAGAAAGGAAAGACAATAATTTTGTTTTTTCATTTTGAAAAATTAAATGCTCTCT
CCTAAAGATTCTTCACCT

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FIGURE 2882

MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVIPKDENGKILFDTVDLCATWEA
MEKCKDAGLAKSIGVSNFNHRLLEMILNKPGLKYKPCNQVECHPYFNQRKLLDFCKSKDIVLVAYSALGSHREE
PWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMKAIDGLN
RNVRYLTLDIFAGPPNYPFSDEY

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FIGURE 2883

CTCTGAGGAGAAGCAGCAGCAAACATTTGCTAGTCAGACAAGTGACAGGGAATGGATTCCAAACAGCAGTGTGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCCGCCATATAGATTCTGCTCATTATACATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAGCTCACTGAAAAAGCTCAATTG
GACTATGTTGACCTCTATCTTATTTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAA
AATGGAAAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAGGATGCAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
AAAGATATTGTTCTGGTTGCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACTCCCCG
GTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAGCGAACCCAGCCCTGATTGCCCTGCGC
TACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAACAGT
GATAGTTTGTAGCCACCCTAATTATCCATATTCAGATGAATATTAACATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTTATCATTTTG
AAAT

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FIGURE 2884

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYLIHSPMSLKPGEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLLDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD
RNLHYFNSDSFASHPNYPYSDEY

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FIGURE 2885

ATGGATCCCAAATATCAGTGTGTGGAGCTAAATGATGGTCATTTTCATGCCTGTATTAGGATTTGGCACCTGTGTA
CCTCCAGAGGTGATTGACTGCAGTGGAATGGTTTCTCCGTTTCTTTCTATAATTGAAGAAATTGTTTGTCTTCC
AAGAATAGAGTTGTGGAGGTTACAAAATTAGCAATAGAAGCTGGTTTCTTCCATATTGATTCTGCTCATTATAC
AATAATGAGGAGCAGGTGGAATGTCATCCTTACCTCAACCAGAGCAAACCTGCTGGATTTCTGCAAGTCAAAAGAC
ATTGTTCTGGTTGCCCACACCCTGATTGCTCTGTGCTACCAGCTGCAGCGTGGGGCTGTGGTCCTGGTCAAGAGC
TCCAATGAACAGCAGATCAGAGAGAACATGCAGGTTTTTGACTTTGAGTTGACTCCAGAGGACATGAAAGCCATT
GACAGCCTCAACGAAATCTCCGACATGCTAAGTTACAATTTTAA

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FIGURE 2886

MDPKYQCVELNDGHFMPVLGFGTCVPPEVIDCSGMVSPFLSIIEEIVCSSKNRVVEVTKLAIEAGFFHIDSAHLY
NNEEQVECHPYLNQSKLLDFCKSKDIVLVAHTLIALCYQLQRGAVVLVKSSNEQQIRENMQVDFELTPEDMKAI
DSLNGNLRHAKLQF

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FIGURE 2887

CATTTTCACTGCGTTCAAGTATGCTTTTATGAGCTGGTGGTGCCATAGTTTTAGATTCCCTGTATCGAAAAGCTA
CAATTACATAAGGACAGATCTGTCTGGGTCGTTCAATAACGGTGTTCCTGAAAGTTCGTAAAAGTAATACTTAA
TTATATTAAAAATTACAACATAACCAGATTTCCCATGATACCATGGTCTTGAATGAAGACAGTCGGAGTATTTGG
AAATGTATACACCTCTTTGGCTGGATCACCCAGAGTGGTAACAGCACTGCTGCCAACACGGAGTCCACACTGACA
TACCAATTTTACCTGCTTTTTCAGTATCAAACAGAAGAAACCCGTAAGTGTCTTGAAGTTCTTCCTGAGTATAACT
ACTTGCTTTTTTTTTGTTGGTAAAAAGTTTTGTATCTTTTCTGATAGGGACCCTGTCTCGATCTTCTCTAAGAGAG
AATGTAGCTGGGAGGGTGGTCTTAATTCATTTTACCAAGTATACCCTCAGAATTCTTGAACATAGTCCTGTTCTC
TGTTAATGTCATAAATGCCGTCCTTGGCGTGGCCGCCGCCCCGAGGACCTGAGATCCCGGCTCGGCCTCCTTCC
CATGCTTCTCCCGGCCGTGCTCTGCGTCCTCCCGGCCCTCGCGACACCGGCGCACGTGGGAAGCACCAGTCGCC
GGCTCCGCGCTCCCGCGGGGACCCCCCTCAGGGGCACGCCGTCCGCCCCAGCCCCGGGGTCTTCGCCGCGGGCGC
TGACAGGGACGCCGCGGCCG

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FIGURE 2888

MVLNEDSRSIWKCIHLFGWITQSGNSTAANTESTLTYQFYLLFSIKQKKPVSVLKFFLSITTCFFLLVKSFVSFL
IGTLRSSSLRENVAGRVVLIHFHQVYPQNS

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FIGURE 2889

CAATGCTACATTAAACCCATTATGTAAGACCAATAAATGCAGAGCCAGTGTTTCAAGCACAGGAAATACCAGCAGG
CAGAAATGCGCCAGTTTGCTTAAGAATGGTGAGCCTGAAGCTGAGTTACATAAAGAAACACAGGTCCAGGCACTGC
TGGCCCTCAGTCCAACACCACATCTTCTCTAAAAGGTGAACGCAAAGCCATCCACACGCTGCAAGATGTGTCAAC
ATGTGAAACAAAGGAGCTATTGAATGTCGGGGTTTTCTCCCTTTGTGCTGGTCCCTACCAAATACAGCAGACAC
CAAGGAAAACCTCAGTAAAGAGCCTTTGGCCTCCTTTGTTTCAGAATCCTTTGATACTTCTGTTTGTGGAATAGC
CACAGAGCACGTAGAAATTGAGAACAGTGGGGAGGGGCTCAGGGCTGAGGCTGGTTCGAAACCCTAGGCAGAGA
TGGAGAGGTGGTGTGAATTCCGACATGCACTATGAACTCTCTGGAGATTCTGATCTAGACCTGCTTGGTGATTG
TAGAAATCCCAGACTGGATTTGGAGGATTCTTATACTTTAAGAGGTAGTTACACCAGGAAAAAAGATGTTCCAC
AGATGGCTATGAGTCGTCGTTGAACTTCCACAACAACAACCAAGAGGACTGGGGCTGCTCTAGCTGGGTTCAGG
CATGGAGACGAGCCTCCCTCCCGGGCACTGGACTGCTGCGGTAAAGAAAAGAAGAGAAGTGTGTGCCGCCTTACGT
CCAAATCCGAGATCTCCACGGGATCCTCAGGACTTACGCCAACTTCTCTATAACAAAAGAACTCAAAGATACCAT
GAGAACTTCACACGGCCTGAGGAGGCACCCGAGTTTCAGTGCAAACTGTGGCCTGCCAGCTCCTGGACAAGCAC
TTGGCAGGTGGCAGACGACCTCACCAGAACACTTTAGACCTGGAGTATCTGCGTTTTGCACATAAACTAAAACA
GACCATAAAGAATGGGGATTCTCAGCATTCTGCCTCCTCTGCCAATGTCTTTCCAAAGGAGTCACCAACCCAGAT
CTCCATTGGTGCTTTCCCTTCGACAAAAATCTCTGAGGCCCCATTCTGCATCCTGCACCTAGGAGCAGAAGCCC
CCTTCTGGTAAACAGTTGTGGAGTCAGATCCCAGACCACAGGGGCAGCCCAGGAGAGGCTACACAGCCAGCAGTCT
GGACAGCTCTTCTCTTGGAGAGAGAGATGTAGTCATAATAGAGATCTTAGAAATTCTCAAAGAAATCACACTGT
TTCATTCCACCTCAACAAACTGAAATACAACAGTACTGTGAAGGAATCTCGGAATGATATTTCACTTATTCTCAA
TGAGTATGCTGAATTCAACAAGGTGATGAAGAATAGCAACCAATTCATTTTCCAAGACAAAGAGCTAAATGATGT
TTCTGGAGAAGCCACTGCTCAAGAGATGTATCTGCCTTTCCAGGACGGTCAGCCTCCTATGAAGACATAATCAT
AGACGTGTGCACCAATTTGCACGTCAAACCTAAGAAGTGTGTGAAAGAGGCTTGTAAGTACCTTCTGTCTTA
CCTTGTGCAAAACAGAAAGACAAATCATTCTTTGTAAGAACAAAGAACCTTCTGAGGAAAGGAGGCCATACAGAAAT
TGAACCTCAGCACTTCTGTCAAGCTTTCCACAGAGAGAATGATACACTAATCATCATCATCAGAAATGAAGATAT
ATCATCACATTTGCATCAGATTCTTCTTTGCTGAAGCTGAAGCATTTCCTCCAGTGTCTCTTTGCTGGAGTAGA
CAGCCCTGGAGATGTTCTTGATCACACCTACCAAGAACTGTTTCGTGCAGGAGGCTTTGTGATATCAGATGACAA
GATACTAGAAGCTGTAACATTAGTTCAACTGAAGGAAATATCAAATCCTGGAAAACTAAATGGAAATGGAAG
ATGGAAGTGGTTGCTTCACTACAGGGAAAAATAAAAAGCTAAAAGAAGATGAAAGAGTGGATTCAACTGCACATAA
GAAGAACATAATGTTGAAGTCATTTAGAGTGCAAATATCATTGAATTGCTTCATTATCACCAGTGTGACTCTCG
ATCATCAACAAAAGCAGAAATTCTGAAATGTTTGCTAAACCTGCAAATTCAGCATATTGATGCCAGGTTTGTGT
CCTCCTAACAGACAAGCCTACTATCCCCAGAGAAGTCTTTGAAAATAGTGAATCCTTGTTACAGATGTAAATAA
CTTTATAGAAAACATAGAAAAAATAGCAGCTCCATTTAGGAGTAGCTATTGGTGACTCAACTACAGCCTGCCTGG
ATATGGATGATGCCAATAAAAAAATTAGTATTTTCCCTTTGGAAAACCTGTGAACATGTGAATACACATGTGAACA
GTCTTACATTTGAAAAACCAATGTTCTACAACCTGGAAAGTTTTCATTTTTTATATTTTGTGAAATATGTCACA
GTGGCATTGCAGTTGTCTGTTAGCTTTGGGTGTCAGTGTAGATATTGTTTTAAATTATTTTCATTTTAAACAAG
ATGCCTTCTAAGCTATTGAGCTTATTAATAAATAATTTTACATGTTTACTTAGTTGGAGCAAAAAATAAGTCTATTT
TAACAAATAGCTTTGTTTTTGCATGCTAATGTCAGAAAGGCATACGATGCACATTATGCTCTGTTTTAAAGGTTT
TACCACCCTTGTA AAAACTATAATCTTAAATGGTTTTATTTGCTGTTACACAAACAACACTACATAAAACATTTT
TTCCTAAATGGTACAAATTTATAAACTATCATTTTTTCACTTACGGTATTTGTAAATACTACACTACAAAAATCAG
CTTTCTGAGAAAGAAATAATCATTTATTTATGATATTGAAAATTTCTACAGTAAACACTCAAAACCAAGCAAAAA
ACATTTGTAAGATACACGGTATCTATTTGGAGCAACGGTTTTTGTAACTAATGTGTTTCATTTTTTAAATAAAGA
CAACTAAAAATAA

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FIGURE 2890

MASLLKNGEPEAELHKETTGPGTAGPQSNTTSSLKGERKAIHTLQDVSTCETKELLNVGVSLLCAGPYQNTADTK
ENLSKEPLASFVSESFDTSVCGIATEHVEIENS GEG LRAEAGSETLGRDGEVGVNSDMHYELSGDSDLDLLGDCR
NPRLDLED SYTLRGSYTRKKDVPTDGYESSLN FHN NNQEDWGCSSWVPGMETSLPPGHWTAAVKKEEKCVPPYVQ
IRDLHGILRTYANFSITKELKDTMRTSHGLRRHPSFSANCGLPSSWTSTWQVADDLTQNTLDLEYLRF AHKLKQT
IKNGDSQHSASSANVFPKESPTQISIGAFPSTKISEAPFLHPAPRSRSPLLVTTVVESDPRPQGQPRRGYTASSLD
SSSSWRERC SHNRDLRNSQRNHTVSFHLNKLKYNSTVKESRNDISLILNEYAEFNKVMKNSNQFIFQDKELNDVS
GEATAQEMYLPFPGRSASYEDIIIDVCTNLHVKLRSVVKEACKSTFLFYLVETEDKSFFVRTKNLLRKGGHTEIE
PQHFCQAFHRENDTLIIII RNEDISSHLHQIPSL LKLKHFP SVIFAGVDSPGDVLDHTYQELFRAGGFVISDDKI
LEAVTLVQLKEIIKILEKLNGNGRWKWL LHYRENKKLKEDERVDSTAHKKNIMLKSFQSANI IELLHYHQDSRS
STKAEILKCLLN LQIQHIDARFAVLLTDKPTIPREVFENSGILVTDVNNFIENIEKIAAPFRSSYW

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FIGURE 2891

GGCGGTGGTCTCGCCTTGTGCCAGCTCCATTTTCCTCTCTTTCTCTTCCCCTTTCCCTTCGCGCCCAAGAGCGC
CTCCCAGCCTCGTAGGGTGGTCACGGAGCCCCGTGCGCCTTTTCCTTGCTCGGGTCCTGCGTCCGCGCCTGCCCCG
CCATGAATGAGGAGTACGACGTGATCGTGCTGGGCACCGGCCTGACGGAATGTATCCTGTCAGGTATAATGTCAG
TGAATGGCAAGAAAGTTCTTCATATGGATCGAAACCCTTACTACGGAGGAGAAAGTGCATCTATAACACCATTGG
AAGATTTATACAAAAGATTTAAAATACCAGGATCACCACCCGAGTCAATGGGGAGAGGAAGAGACTGGAATGTTG
ACTTGATTCCCAAGTTCCTTATGGCTAATGGTCAGCTGGTTAAGATGCTGCTTTATACAGAGGTAACTCGCTATC
TGGATTTTAAAGTGAAGGGAGCTTTGTCTATAAGGGTGGAAAAATCTACAAGGTTCCCTTCCACTGAAGCAG
AAGCCCTGGCATCTAGCCTAATGGGATTGTTTGAAAAACGTCGCTTCAGGAAATTCCTAGTGTATGTTGCCAACT
TCGATGAAAAAGATCCAAGAACTTTTGAAAGGCATTGATCCTAAGAAGACCACAATGCGAGATGTGTATAAGAAAT
TTGATTTGGGTCAAGACGTTATAGATTTTACTGGTCACTGCTCTTGCACTTTACAGAACTGATGATTACTTAGATC
AACCGTGTATGAAACCATTAAATAGAATTAAACTTTACAGTGAATCTTTGGCAAGATATGGCAAAAAGCCCATACC
TTTATCCACTCTATGGCCTTGGAGAACTGCCCAAGGATTTGCAAGGCTAAGTGCTATTTATGGAGGTACCTATA
TGCTGAATAAACCCATTGAAGAAATCATTGTACAGAATGGAAAAGTAATTGGTGTAATACTGAAGGAGAAATTG
CTCGCTGTAAGCAGCTCATCTGTGACCCAGCTACGTAAAAGATCGGGTAGAAAAAGTGGGCCAGGTGATCAGAG
TTATTTGCATCCTCAGCCACCCCATCAAGAACACCAATGATGCCAACTCCTGCCAGATCATTATTCCACAGAACC
AAGTCAATCGAAAGTCAGATATCTACGTCTGCATGATCTCCTTTGCGCACAATGTAGCAGCACAAGGGAAGTACA
TTGCTATAGTTAGTACAACGTGGAAACCAAGGAGCCTGAGAAGGAAATCAGACCAGCTTTGGAGCTCTTGGAAC
CAATTGAACAGAAATTTGTTAGCATCAGTGACCTCCTGGTACCAAAGACTTGGAACAGAAAGCCAGATCTTTA
TTTCCCGCACATATGATGCCACCACTCATTTTGGAGACAACGTGTGATGACATTAAAAACATCTATAAGAGGATGA
CAGGATCAGAGTTTGACTTTGAGGAAATGAAGCGCAAGAAGAATGACATCTATGGGGAAGACTTAACAGCAGTACA
TGTTATTATGTAATTAGGACACATTTAAAATTTGGCAAATAATGCATATAATGAAATCAATATTGTAAGGCCTGC
TTTTGTAATGAAAATGGAGAGAATGAAGAGCGCTGTGCCAGTAAATACTCCCCTTACCTTTCTAATTATTAAC
TGTTTTCATGGAGTGGCTATTTCAGCATTGGCAGTTACCACATTCTGTTCAATTTAACCAAACCTGGCTTTTTTTTT
TTTCTAGTGAAGTTAAACAAACATTGGGATACCGACACAGACAACTTGAGACAGTTTTTTTTAATCTTTAATCAG
TGTAGCTATGTGCTGCTGCTCAAGAGCTGGATCCATACAGGTTGTGTGTCATCTGTCTCTTGAGGTTTCAGG
AGATTCTAAATTGAATATTCCACGGTTTGGGACAGCATCCGGAAGTTTTCCCTATGACTTTATATTTGTATTAT
GTCAAATGTTATGGCAGGGCCCAATAGCATAGCCACAAGTTTGGTTTATGTGGGCATAAAATTCTAACCAAACC
CCAGACATAGGGAGTCATTTGGAGAAAGCCTGTATGTGGTGTTTTAACTAATAAAGTTGATGAGAGAGAAGGGG
AGAGGAAGCGAACATAAAGCGGGTCAAGTGTAGTGCATCTTTTGTATCTCAGGCGTGGCTTCTTCAGTGGACCAA
GCTGCAATGCAGTATTGACTTGACAGAGCCTCTACTTCTGTCTCAAAATGGCTCCAAATGATTTCTGTACTGCAA
AATAAAGCCAAATTCTGGAAACTA

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FIGURE 2892

MNEEYDVIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESASITPLEDLYKRFKIPGSPPESMGRGRDWNVD
LIPKFLMANGQLVKMLLYTEVTRYLDFKVTESFVYKGGKIYKVPSTEAEALASSLMGLFEKRRFRKFLVYVANF
DEKDPRTFEGIDPKKTTMRDVYKKFDLGQDVIDFTGHALALYRTDDYLDQPCYETINRIKLYSESLARYGKSPYL
YPLYGLGELPQGFARLSAIYGGTYMLNKPIEEIIVQNGKVIGVKSEGEIARCKQLICDPSYVKDRVEKVGQVIRV
ICILSHPIKNTNDANSCQIIIPQNQVNRKSDIYVCMISFAHNVAAGKYIAIVSTTVETKEPEKEIRPALELLEP
IEQKFVSISDLLVPKDLGTESQIFISRTYDATTHFETTCDDIKNIYKRMTGSEFD FEEMKRKKNDIYGED

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FIGURE 2893

GGCACGAGGGACTCAGCGAAGGGTGGGCGCCGCCGAGGCCTCCTGCCGCTGGCGGGTTTCCGCGGAGTGCCGCC
GGCTCCGCTCTGCCGCCGGCGCGGCTCATGGGCAGAGTCGGCCGGGCGGGCCGGCATTAAACTGAAGAAAAG**ATG**

TCCCTGTACGATGACCTAGGAGTGGAGACCAGTGA CTCAAAAACAGAAGGCTGGTCCAAAAACTTCAAAC TTCTG
CAGTCTCAGCTTCAGGTGAAGAAGGCAGCTCTCACTCAGGCAAAGAGCCAAAGGACGAAACAAAGTACAGTCCTC
GCCCCAGTCATTGACCTGAAGCGAGGTGGCTCCTCAGATGACCGCAAATTGTGGACACTCCACCGCATGTAGCA
GCTGGGCTGAAGGATCCTGTTCCAGTGGGTTTTCTG CAGGGGAAGTTCTGATTCCCTTAGCTGACGAATATGAC
CCTATGTTTTCTAATGATTATGAGAAAGTAGTGAAGCGCCAAAGAGAGGAACGACAGAGACAGCGGGAGCTGGAA
AGACAAAAGGAAATAGAAGAAAGGGAAAAAAGGCGTAAAGACAGACATGAAGCAAGTGGGTTTGCAAGGAGACCA
GATCCAGATTCTGATGAAGATGAAGATTATGAGCGAGAGAGGAGGAAAAGAAGTATGGGCGGAGCTGCCATTGCC
CCACCCACTTCTCTGGTAGAGAAAGACAAAGAGTTACCCCGAGATTTTCTTATGAAGAGGACTCAAGACCTCGA
TCACAGTCTTCCAAAGCAGCCATTCTCTCCCCAGTGTACGAGGAACAAGACAGACCGAGATCTCCAACCGGACCT
AGCAACTCCTTCTCGCTAACATGGGGGGCACGGTGGCGCACAAGATCATGCAGAAGTACGGCTTCCGGGAGGGC
CAGGGTCTGGGGAAGCATGAGCAGGGCCTGAGCACTGCCTTGTCAGTGGAGAAGACCAGCAAGCGTGGCGGCAAG
ATCATCGTGGGCGACGCCACAGAGAAAGATGCATCCAAGAAGTCAGATTCAAATCCGCTGACTGAAATACTTAAG
TGTCTACTAAAGTGGTCTTACTAAGGAACATGGTTGGTGC GGGAGAGGTGGATGAAGACTTGGAAGTTGAAACC
AAGGAAGAATGTGAAAAATATGGCAAAGTTGGAAAATGTGTGATATTTGAAATTCCTGGTGGCCCTGATGATGAA
GCAGTACGATATTTTTAGAAATTTGAGAGAGTTGAATCAGCAATTAAAGCGGTTGTTGACTTGAATGGGAGGTAT
TTTGGTGGACGGGTGGTAAAAGCATGTTTCTACAATTTGGACAAATTCAGGGTCTTGATTGTTGGCAGAACAAGTT
TGATTTTTAAGAACTAGAGCACGAGTCATCTCCGGTGATCCTTAAATGAACTGCAGGCTGAGAAAAGAAGGAAAAA
GGTCACAGCCTCCATGGCTGTTGCATACCAAGACTCTTGGAAGGACTTCTAAGATATATGTTGATTGATCCCTTT
TTTATTTTGTGGTTTTTTTAATATAGTATAAAAATCCTTTTAAAAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2894

MSLYDDLGVETSDSKTEGWSKNFKLLQSQLQVKKAAALTQAKSQRTKQSTVLAPVIDLKRGGSSDDRQIVDTPPHV
AAGLKDFVPSGFSAGEVLIPLADEYDPMFPNDYEKVVKRQREERQRELERQKEIEEREKRRKDRHEASGFARR
PDPDSDEDEDYERERRKRSMGGAAIAPPTSLVEKDKELPRDFPYEEDSRPRSQSSKAAIPPPVYEEQDRPRSPTG
PSNSFLANMGGTVAHKIMQKYGFREGQGLGKHEQGLSTALSVEKTSKRGGKIIVGDATEKDASKKSDSNPLTEIL
KCPTKVVLRLNMVGAGEVDEDLEVETKEECEKYGKVGKCVIFEIPGAPDDEAVRIFLEFERVESAIKAVVDLNGR
YF'GGRVVKACFYNLDKFRVLDLAEQV

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FIGURE 2895

CTGACCGACCTTCAGCAGGGCTGTGGCTACCAATGTTCTCTCGCGCGGGTGTGCTGGGCTGTGCGCCTGGACCTT
GCAGCCGCAATGGATTCAAGTTCGAAATATGGCAACTTTGAAAGATATCACCAGGAGACTAAAGTCCATCAAAAA
CATCCAGAAAAATTACCAAGTCTATGAAAAATGGTAGCGGCAGCAAAATATGCCCGAGCTGAGAGAGAGCTGAAACC
AGCTCGAATATATGGATTGGGATCTTTAGCTCTGTATGAAAAAGCTGATATCAAGGGGCTGAAGACAAGAAGAA
ACACCTCCTTATTGGTGTGTCCTCAGATCGAGGACTGTGTGGTGCTATTCATTCCCTCCATTGCTAAACAGATGAA
AAGCGAGGTTGCTACACTAACAGCAGCTGGGAAAGAAGTTATGCTTGTTGGAATTGGTGACAAAATCAGAGGCAT
ACTTTATAGGACTCATTCTGACCAGTTTCTGGTGGCATTCAAAGAAGTGGGAAGAAAGCCCCCACTTTTGGAGA
TGCGTCAGTCATTGCCCTTGAATTACTAAATTCTGGATATGAATTTGATGAAGGCTCCATCATCTTTAATAAATT
CAGGTCTGTCATCTCCTATAAGACAGAAGAAAAGCCCATCTTTTCCCTTAATACCGTTGCAAGTGCTGACAGCAT
GAGTATCTATGACGATATTGATGCTGACGTGCTGCAAAATTACCAAGAATACAATCTGGCCAACATCATCTACTA
CTCTCTGAAGGAGTCCACCACTAGTGAGCAGAGTGCCAGGATGACAGCCATGGACAATGCCAGCAAGAATGCTTC
TGAGATGATTGACAAATTGACATTGACATTCAACCGTACCCGCCAAGCTGTCATCACAAAAGAGTTGATTGAAAT
TATCTCTGGTGTGCTGCAGCTCTGTAAAGAAGGAAAATTCAGCCAGTTGATTTTGTGTTTTAGCTTACTGCTGCCTTT
GTCCGAAGAACTGTTCTCCATTATTTGAATTACTGAAGACAGCAAGATATTTGTAAATTATCTTAAAATAAAC
AACTTAAAATAAAATCATTGTTTTTCTT

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FIGURE 2896

MFSRAGVAGLSAWTLQPQWIQVRNMATLKDITRRLKSIKNIQKITKSMKMVAAAKYARAERELKPARIYGLGSLA
LYEKADIKGPEDKKKHLIGVSSDRGLCGAIHSSI AKQMKSEVATLTAAGKEVMLVGIGDKIRGILYRTHSDQFL
VAFKEVGRKPPTFGDASVIALELLNSGYEFDEGSIIFNKFRSVISYKTEEKPIFSLNTVASADSMSIYDDIDADV
LQNYQEYNLANIIYYSLKESTTSEQSARMTAMDNASKNASEMIDKLTLTFNRTRQAVITKELIEIISGAAAL

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FIGURE 2897

TCCCAGCCTTCCCATCCCCCACCGAAAGCAAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCCG
ACCTCCCAGGCGGACCGCCCTCCCTCCCCGCGCGGGTTCCGGGCCCCGGCGAGAGGGCGGAGCACAGCCGAGG
CCATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACCACCCCGCCGTGCTCAACGGGCAGCACCCGG
ACACGCACCACCCGGGCCTCAGCCACTCCTACATGGACGCGGCGCAGTACCCGCTGCCGAGGAGGTGGATGTGC
TTTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTACGGAACCTCGGTTCAGGGCCACGGTGCAGAGGT
ACCTCCGACCCACCACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCTACCCTGGCTGGACGGCG
GCAAAGCCCTGGGCAGCCACCACACCGCCTCCCCCTGGAATCTCAGCCCCTTCTCCAAGACGTCCATCCACCACG
GCTCCCCGGGGCCCTCTCCGTCTACCCCCCGCCTCGTCTCTCCTTGTGCGGGGGGCCACGCCAGCCCGCACC
TCTTACCTTCCCGCCACCCCGCCGAAGGACGTCTCCCGGACCCATCGCTGTCCACCCAGGCTCGGCCGGCT
CGGCCCCGGCAGGACGAGAAAGAGTGCTCAAGTACCAGGTGCCCCCTGCCCCGACAGCATGAAGCTGGAGTCGTCCC
ACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTCGACCCACCACCCCATCACCACCTACCCGCCCT
ACGTGCCCCGAGTACAGCTCCGGACTCTTCCCCCCCAGCAGCCTGCTGGGCGGCTCCCCACCGGCTTCGGATGCA
AGTCCAGGCCCAAGGCCCGGTCCAGCACAGGCAGGGAGTGTGTGAACCTGTGGGGCAACCTCGACCCCACTGTGGC
GGCGAGATGGCACGGGACACTACCTGTGCAACGCCCTGCGGGCTCTATCACAAAATGAACGGACAGAACCGGCCCC
TCATTAAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCAGGGACGTCTGTGCGAACTGTCAGACCACCACAA
CCACACTCTGGAGGAGGAATGCCAATGGGGACCCTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTCACAATA
TTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAAATCCAAAAAGT
GCAAAAAAGTGCATGACTCACTGGAGGACTTCCCCAAGAACAGCTCGTTTAACCCGGCCGCCCTCTCCAGACACA
TGTCTCCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCACATGCTGACCACGCCCACGCCGATGCACCCGC
CATCCAGCCTGTCTTTGGACCACACCACCCCTCCAGCATGGTCACCGCCATGGGTTAGAGCCCTGCTCGATGCT
CACAGGGCCCCCAGCGAGAGTCCCTGCAGTCCCTTTTCGACTTGCATTTTTTGCAGGAGCAGTATCATGAAGCCTAA
ACGCGATGGATATATGTTTTTTGAAGGCAGAAAGCAAAATTATGTTTGCCACTTTGCAAAGGAGCTCACTGTGGTG
TCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATAAGCCATTCTGACTCATATCCCCTATTTAACAGGG
TCTCTAGTGCTGTGAAAAAAAAAATGCTGAACATTGCATATAACTTATATTGTAAGAAATACTGTACAATGACTT
TATTGCATCTGGGTAGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTGGAAT
TAAGAAGAACTAGGTCTGATATTCAAATGGACAACTGCCAGTTTTGTTTCTTTTCACTGGCCACAGTTGTTTG
ATGCATTAAAAGAAAATAAAAAAAAAAGAAAAAGAGAAAAGAAAAAAAAGAAAAAAGTTGTAGGCGAATCATTTG
TTCAAAGCTGTTGGCCTCTGCAAAGGAAATACCAGTTCTGGGCAATCAGTGTTACCGTTACCCAGTTGCCGTTGA
GGGTTTCAGAGAGCCTTTTTCTAGGCCTACATGCTTTGTGAACAAGTCCCTGTAATTGTTGTTTGTATGTATAAT
TCAAAGCACCAAAATAAGAAAAGATGTAGATTTATTTTCATCATATTATACAGACCGAACTGTTGTATAAATTTAT
TTACTGCTAGTCTTAAGAACTGCTTTCTTTGCTTTGTTTGTTCATATTTTCTTCTCTCAATTTTTTGTTG
AATAAACTAGATTACATTCAGTTGGC

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FIGURE 2898

TGGCACCGGCATCGGCTGACACTGCTGCCTCCAGCTAGTTATTTTCGTCCTCTTCCGTTCTTCACCCCTACACCTT
GGAGGTGAACTTCTCACCTGAGGGCTGTAAAGACTCGTTTGAAAATGGAGAGCCAAGAACCAACGGAATCTTCTC
AGAATGGCAAACAGTATATCATTTTCAGAGGAGTTAATTTTCAGAAGGAAAATGGGTCAAGCTTGAAAAACAACGT
ACATGGATCCTACTGGTAAACTAGAACTTGGGAATCAGTGAAACGTACAACCAGGAAAGAGCAGACTGCGGATG
GTGTCGCGGTTCATCCCCGTGCTGCAGAGAACACTTCACTATGAGTGTATCGTTCTGGTGAAACAGTTCCGACCAC
CAATGGGGGGCTACTGCATAGAGTTCCCTGCAGGTCTCATAGATGATGGTGAAACCCCAAGCAGCTGCTCTCC
GGGAGCTTGAAGAAGAACTGGCTACAAAGGGGACATTGCCGAATGTTCTCCAGCGGTCTGTATGGACCCAGGCT
TGTCAAACCTGTACTATACACATCGTGACAGTCACCATTAACGGAGATGATGCCGAAAACGCAAGGCCGAAGCCAA
AGCCAGXXXXXXXXXAGTTTGTGGAAGTCATTTCTTTACCCAAGAATGACCTGCTGCAGAGACTTGATGCTCTGG
TAGCTGAAGAACATCTCACAGTGGACGCCAGGGTCTATTCCTACGCTCTAGCACTGAAACATGCAAATGCAAAGC
CATTTGAAGTGCCCTTCTTGAAATTTTAAGCCCAAATATGACACTGGCCATTTTTGTAAACGAGACCACCAGGCC
TTCTTCACTAAGACTTTTGTATTCACTTAGTTTAATGTAGATTGCCATTAGCTTTTTTCGTAAAATAAAAAGCACA
GAACAGATGTGGTGGTGGTATGGAATTGTAATTACAGGTAGGTTGTGACCTTCCTTTAAATTTGTTATAACTCCA
GCTAAAATTAACAAAGAATATAAATGCAAGTATGTTTACTCCAATTTTTTTAAAGCTCAACAGCAGTTAACTACA
GCTCAGTTACTTTTCTAGTCCAGTCTGGTAGACAGGGGTATTTGTATAGAGAAATAGACCTGAGTTCTCAATTAG
GTCA

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FIGURE 2899

TGCGTTTAGGGCGAAGACGGAGTTGTAAACTTCTTAAAATTCCTCTCTCGACACTTCGGTAATTCCTCTTTTCGAG
ACTAAAGCTCTTTTTGTATGCGTGTGTGTCAAGCGTATGCCCCGGGATTCTCCTCCGCTTCCTTTTCTCGGTCTT
CCTTCTTGCTTTAGGGACCGGAAGAGTCCTTGAACCAAAATAGCTCGGCGGGCAGTTCCGGGGCCGGCGCCAGAG
GTTCCGGGAGGGTGCAGGCAGGAGAGGGAAAAGGCAGCAGCGGCGGCAGCTGGAGGATGAAAGAAGGAGCATGTGCT
TCACTGCCAGTTCTCCGCGTGGTACCCGTTCTTCCGAGGCGTTACCATCAAGAGTGTCAATTCCTCCACTTCCTCA
GAATGTGAAGGATTATTTACTCGATGATGGAACCTCTGGTGGTTTTAGGAAGGGATGATCCACCAACACATTCTCA
GCCAGACAGTGATGATGAAGCAGAAGAAATACAGTGGTCTGATGATGAGAACACAGCCACGCTTACGGCACCAGA
ATTTCTTGAGTTTGCCACTAAAGTCCAGGAACCTATCAATTCCCTCGGGGGCAGTGTCTTCTTAAGCTTAATTG
GAGTGCCCCAAGGGATGCGTATTGGATAGCAATGAATAGTTCTCTGAAATGTAAAACCCCTCAGCGACATCTTTCT
GCTTTTCAAGAGTTCCGATTTTCATCACTCGTGACTTCACTCAGCCGTTTATTCAATTGTACTGATGATTCTCCAGA
TCCATGTATAGAATATGAGCTCGTTCTCCGAAAATGGTGTGAATTGATTCTGGGGCTGAGTTTCGATGTTTTGT
CAAGGAAAACAAGCTTATTGGTATTTCTCAAAGAGACTACACACAATACTATGATCATATTTCTAAACAAAAGGA
AGAAATTCGCAGATGCATACAAGACTTTTTCAAGAAACACATACAGTACAAATTCTTAGATGAAGACTTTGTGTT
CGATATATACAGAGACAGTAGGGGGAAGGTGTGGCTCATTGACTTTAATCCATTTGGTGAAGTCACAGATTCCT
GCTGTTACCTGGGAAGAACTGATATCTGAGAACAACCTAAACGGCGATTTTAGTGAAGTTGACGCTCAAGAGCA
GGATTCCCCAGCTTTCCGTTGCACAAACAGTGAAGTGACAGTCCAGCCCAGCCCCTATTTGAGTTACCGGCTACC
CAAGGACTTTGTAGACCTCTCTACTGGGAGGGACGCTCACAAGCTAATAGACTTCCTTAAGCTGAAGAGAAATCA
GCAGGAGGACGACTTGATGAGCGTACTGTAACCTGGAGAAGAGGAGGCCCGCCCCACCGCTCCGGGAGCTGCTCAT
CAGCCGCAACTTCCTGCCGACCCTGATGCGGGTGGGCCGAGCAGTGTGGACATCAGCCACTTTTTATATTCATGT
ACATTCACCTGGGGAAAAAACGGAGGGACTTTGCTACTTGTAATAATAACATAATAAATAGATCTTAAACATAG
GAAAACCATACTGTTCTGATAATAAAATGCTTTCTATGAAAT

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FIGURE 2900

MKKEHVLHCQFSAWYPFFRGVTIKSVILPLPQNVKDYLLDDGTLVVSGRDDPPTH SQPDS DDEAE EIQWSD DENT
ATLTAP EFPEFATKVQEPINSLGGSVFPKLNWSAPRDAYWIAMNSSLKCKT LSDIFLLFKSSDFITRDFTQPF IH
CTDDSPDPCIEYELVLRKWCELIPGAEFRCFVKENKLIGISQRDYTQYYDHISKQKEEIRRCIQDFFKKHIQYKF
LDEDFVFDIYRDSRGKVWLIDFNPFGEVTD SLLFTWEELISENNLNGDFSEVDAQEQDSPAFRCTNSEVTVQPSP
YLSYRLPKDFVDLSTGRDAHKLIDFLKLKR NQQEDD

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FIGURE 2901

CCGGCTCCCGCAGGGCCGCGCCGAGGCAGGCGAGCCCCGCGGCGCCCAGGCGCGGGCCCCGGGCCCCCGCCGCCG
CCGCCGCCGCGGGGCGCGGCATTTTTATTTCAGGCGACGCTTAAGGGAGCCCCGGCCGCGCCCGGTGCATTGTGGGA
GCGGCCCGCGGCCCGTTTTTCGGGAGGAGGCGGAGGGGCGCAAAGCGAGCCGGTGGATCCATAAAGAACCCAGCCAA
CCCGCAGAGGGAGGGGAGGGGCTGAGCTGTGAGGAGAGCGGGGCCCAAGAACCATGTCTACGCGGGAGTCCTTTA
ACCCGGAAGTTACGAATTGGACAAAAGCTTCCGGCTAACCAGATTCACTGAAGTGAAGGGCACAGGCTGCAAAG
TGCCCCAAGATGTCTGCAAAAATTGCTGGAATCTTTACAGGAGAACCCTTCCAAGAAGATGAGCAGTTTCTGG
GAGCCGTTATGCCAAGGCTTGGCATTGGAATGGATACTTGTGTCACTTCTTTGAGGCACGGTGGGCTTTCCTTGG
TTCAAACACAGATTACATTTACCCGATCGTAGACGACCCTTACATGATGGGCAGGATAGCGTGTGCCAATGTCC
TCAGTGACCTCTATGCAATGGGGGTCACGGAATGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAAATGA
CCGACAGGGAAAGGGATAAAGTGATGCCTCTGATTATCCAAGGTTTTAAAGACGCAGCTGAGGAAGCAGGAACAT
CTGTAACAGGCGGCCAAACAGTACTAAACCCCTGGATTGTCTGGGAGGAGTGGCTACCACTGTCTGCCAACCCA
ATGAATTTATCATGCCAGACAATGCAGTGCCAGGGGACGTGCTGGTGCTGACAAAACCCCTGGGGACACAGGTGG
CAGTGGCTGTGCACCAAGTGGCTGGATATCCCTGAGAAATGGAATAAGATTAACTAGTGGTCACCCAAGAAGATG
TAGAGCTGGCCTACCAGGAGGCGATGATGAACATGGCGAGGCTCAACAGGACAGCTGCAGGACTCATGCACACGT
TCAATGCCCACGCCGCCACTGACATCACGGGCTTCGGGATTTTGGGCCATGCGCAGAACCTGGCCAAGCAGCAGA
GGAACGAGGTGTCGTTTGTAAATTCACAACCTCCCGGTGCTGGCCAAGATGGCTGCGGTGAGCAAGGCCTGCGGAA
ACATGTTTCGGCCTCATGCACGGGACCTGCCCCGAGACTTCAGGCGGCCTTCTGATCTGTTTACCACGTGAGCAAG
CAGCTCGGTTCTGTGCAGAGATAAAGTCCCCCAAATATGGTGAAGGCCACCAAGCATGGATTATTGGGATTGTAG
AGAAGGGCAACCGCACAGCCAGAATCATAGACAAAACCCCGGATCATCGAGGTCGCACCACAAGTGGCCACTCAA
ATGTGAATCCCACACCCGGGGCCACCTCTTAATCTAGACAGAAATAGCTGTTTGGTTTTGTTTTTAAATAGATCT
ATTTCCCTTATCACTTCAATTAAAGACTATAACAACAAAAATCTCATTGTGTCTACACATCGGGGTGACCTTAG
GTCGGTTTTGTAAGTGGATACAATTAATAAAATAAAATCCATTGCCTTTTTTCTGTTACATTAACTGAAGATGC
ACCTAATCTTGAGGCAGCTTCTGAGTTGAGAATT

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FIGURE 2902

GAGAGCCCTCCTCAGGGGCTGTCTCTGCCTTCCCTTCTTCCCATGTGTATCTGGGGCAGCTGAGGCAGGGCTAGG
AGAAGAGCCCAGGTTCCCTCCTGCCACCTCCAAGCGATGAAGCAGCCCTGGGCCAACTCCAGCATTCTCGTGTGAA
CTGCAGAGGAGCCCTGCGCTTCCAGCTACTTGCAGCCAGACAGCCCACCTGAGGATATTGACCATAAGGACTCAT
ATCTCATTACAAGAAGCATCATGGCCGAGCCAGACTACATAGAAGATGACAATCCTGAACTCATTAGGCCTCAGA
AACTGATCAATCCTGTAAAAACCTCCCGGAACCATCAAGATCTTCACAGAGAACTTCTTATGAATCAAAAAAGGG
GTCTTGCTCCTCAGAACAAACCAGAATTGCAGAAGGTGATGGAAAAAAGAAAACGAGACCAAGTAATAAAGCAGA
AGGAAGAAGAAGCACAGAAGAAGAAATCTGACTTGGAAATAGAGCTATTAAAAACGGCAGCAGAAGTTGGAGCAGC
TTGAACTTGAGAAGCAGAAATTGCAAGAAGAGCAAGAAAATGCCCCGAGTTTGTGAAGGTGAAAGGCAATCTCA
GGAGAACAGGCCAAGAAGTCGCCCCAAGCCCAGGAGTCCTAGGCTGAGGCTGCACCAAGACCTCGTGTGTACCCCC
ACAGAGCTGTCTGTGGGTGCCTTCTCAATCTCAGGGCAAAGCCCCCTGGAGAATATTTTCAGCCAGCAGAGAATTT
TGACTTGCAGTAGGATTTGGTTTGATTTTCTACGATCTGGGTGGATGCCTTGCCTGTGACAGTTGCAGTTCCCTA
TTCGCCAAATGAAGGGCAGTGCCCCGCACGTAAGTTGGAATGATGGACCTGTGTTTCAGAGACTTAACAGAACCAA
CAAGCAAAACAAGTGAGAACAGGAAAAAGGAAGAGGACACTGGAATCAATCTTGAGAGTTGCACTACTTGGTTT
TTCTTCCATTCCAAGTTTCGTGGGACCCAGAGCCTTTTTTCTTTTAAAGCTAAAAACAAGTGTTTAATTCCTC
TTTTTGTTATCTGTTAGATAATTGAGATCACCTAGAAATGCGTTTAACTGTTCACCTACTGTAAATTTTGAGGA
CCCAGAATTGTCTTGTTTAATTTATACTTTACCCCTGTTGCAGTTAACACCAGAGAAGGAACGTGAATGTCGAG
CACAGCCACTACCTTGTGGCACTTAATTTAGAAATAGGGTGAGAAGTTTAAAAGCCCATCTTGATTTTATTTT
CATTCTTTTGGTTCTCTGTGTAATAATAGCAGGCTACATAGTGACATTCCAGTTCCAAGAAGGTACATCCTGTC
CATTCATTAATTGCTTTGATTACTAGGAGGGTTTCTGTTTCAGTTTTGTTTTAAATGTCTTGCTGATCTAGTTCT
TTCAGATGGAATAACCTTCCAGTCCCTTAGAGAGTGGAAGTACTGATCCATATAACCCAGCTTCAGTAGCAAAAGTAG
AAGCCGCCACATCTTTTCATTTCTCCAAGAGGAGAGTGGGGAAGGTTCCCATGACCAGCTGGGCAGTCAGGATTT
CTCTAGGCATTCTAATGTGAAATAAGTGTAGACTGCTGTCAAGGAGGCTTCATCAGAAGATGTATAGCATTGAA
TGTCTAATGATAATGCATATCATTAGAATCCAAGCTTTGAAAATTTCTGATTAAATGCTCATGTATTTCTTTATCT
TTGTTTTTCCCTTGTGAAGAAAGACTTTACCACTGTCTGAGTGATGATGCTGTTGATAAGGATGATGTCGATGAC
TACTATATTGCATCTCTCAGGAACAGCTGATGGGAAGGGAGGGGCTGCTGAGTTCCCTTGTCTAGCTAGCAGCA
CGCTCCTCAGAGAGGGGGCCGAGTTACAGACAGCAGCCGCATTCTCATGCAAAATTAGTTTTAAACTGCTAGTGT
GGGCATCGGTACCTTTTGCTGGGTGATACCGAAGAATTGTTGAGGATTTAGTATGCTCCGTAGAGACAGTTTCAG
CCAGTCATTTCTGCATTGGAGAGACTTCTCATACTTTCTTTGAAGACTCATAGAAAGCTGGATCTAGAGCTTTTG
AATCCTTAATTAGCACAGTAGAAATTAGCTTTCTATGGGAATGCTTTAGTGTAGCAGTTGACAATTAGGCCCAT
ATTCAATCTGAATGGGAACAAAAGTAAATGCAATGATAATATACTGCTAGTTAGAGAAACATGTTAGTTGATTAT
ACCTGAAATGGATTATTTATCTCATCAGCAAGTATTATTTGAATAAAATGAGAAATGCTTAAGAAAAATTGTTGC
TCTACAGTAATTTGGTTTCGAAGAATGGAATGGTAACTATTTTTTCCCATCGTTCTTTTGAGAGAAGGAAGTGTG
ATGACTGATGATCTTGAAAAGCCCATTTCTGATTGCACGTTGACTGGAATTCTTTCTTTGTGTCTGTGGACTAGC
GATGCTGTTTGTAAATGAAGATTCGGGACTGGCTCATATCTTTTATCTAACTAGATGTCAGATCTTGAAATCT
GTATTCTCGAAGCAATTCTGCCACTTGATCGTATTACAGGGGCCCTGGTAGGCTCCTTTAGAAGGACCATTTCT
GTTCTTAGAGCTTAACTAGAATTCATTCTTCACTGAAAAAAAAAAGTTACTTAAGAAAGCATTTCTTTCTTAA
TCTCACTCAAACTCTGCAGAATTATTTGTAATTAGTAATACAAAATCTGGCCAAAAGGAGACTTGTAATAGCGTA
AAGTGGTGTCTTATGCTAAACGGTGGAATGTATAGGCAGAGAAGCTCTTTGAAGTTGTGAGATGAGCTGGGCTCA
CAAGCCTGATTCAAACAGGCTGTGCGTCTCCTCTCACCCCTTAATACTGTGCAGCCCAAACCTCCTAGGACTCTTG
AACATCTGAGCAGTTTTGTGCTTTGAGCCACTTTTTGACAAAAATGGCTCCATTTTTCCACAGCGTGGTTTTCTT
AAAAATAGTTTAAATGTTTTATAGTCTCATAGTAGTAGTGTGCTTTCTAAGCTATAACAGTCGACTTTATCTTCT
ACTCTGAAAAATCTTGACTTGTGTTGAGTGTATATAATATATATAAAGGGAGCCTTAATGGATTGGTTTTTCATAAT
TTAATATTTTTTGTATTTGCTCTTGATAATTGTTTTTAAACGGAAAGTATTAAAGAATTGAGGGTGGAATCTTA
GAACCAAAGTTATTCTTAATAAAAAATCACCATGCTTGACCATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 2903

MAEPDYIEDDNPELIRPQKLINPVKTSRNLHRELMLNQKGLAPQNKPELQKVMKRRKRDQVIKQKEEEAQK
KKSDLEIEELLKRQOKLEQLELEKQKLQEEQENAPEFVKVKGNLRRRTGQEVAAQES

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FIGURE 2904

CGCGCCAGAGACGCAGCCGCGCTCCCACCACCCACACCCACCGCGCCCTCGTTTCGCCTCTTCTCCGGGAGCCAGT
CCGCGCCACCGCCGCGCCGCCCAGGCCATCGCCACCCCTCCGCAGCCATGTCCACCAGGTCCGTGTCTCTGTCCTCCT
ACCGCAGGATGTTTCGGCGGGCCCGGGCACCGCGAGCCGGCCGAGCTCCAGCCGGAGCTACGTGACTACGTCCACCC
GCACCTACAGCCTGGGCAGCGCGCTGCGCCCCAGCACCAGCCGCAGCCTCTACGCCTCGTCCCCGGGCGGCGTGT
ATGCCACGCGCTCCTCTGCCGTGCGCTGCGGAGCAGCGTGCCCGGGGTGCGGCTCCTGCAGGACTCGGTGGACT
TCTCGCTGGCCGACGCCATCAACACCGAGTTCAAGAACACCCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTGA
ATGACCGCTTCGCCAACTACATCGACAAGGTGCGCTTCCTGGAGCAGCAGAATAAGATCCTGCTGGCCGAGCTCG
AGCAGCTCAAGGGCCAAGGCAAGTCGCGCCTGGGGGACCTCTACGAGGAGGAGATGCGGGAGCTGCGCCGGCAGG
TGGACCAGCTAACCAACGACAAAGCCCCGCGTCGAGGTGGAGCGCGACAACCTGGCCGAGGACATCATGCGCCTCC
GGGAGAAATTGCAGGAGGAGATGCTTCAGAGAGAGGAAGCCGAAAACACCCTGCAATCTTTCAGACAGGATGTTG
ACAATGCGTCTCTGGCACGTCTTGACCTTGAACGCAAAGTGGAATCTTTGCAAGAAGAGATTGCCTTTTTGAAGA
AACTCCACGAAGAGGAAATCCAGGAGCTGCAGGCTCAGATTCAGGAACAGCATGTCCAAATCGATGTGGATGTTT
CCAAGCCTGACCTCACGGCTGCCCTGCGTGACGTACGTACGCAATATGAAAGTGTGGCTGCCAAGAACCTGCAGG
AGGCAGAAGAATGGTACAAATCCAAGTTTGCTGACCTCTCTGAGGCTGCCAACCGGAACAATGACGCCCTGCGCC
AGGCAAAGCAGGAGTCCACTGAGTACCGGAGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCCCTTAAAGGAA
CCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAAGTTTGCCGTTGAAGCTGCTAACTACCAAGACA
CTATTGGCCGCTGCAGGATGAGATTGAGAATATGAAGGAGGAAATGGCTCGTCACCTTCGTGAATACCAAGACC
TGCTCAATGTAAAGATGGCCCTTGACATTGAGATTGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCAGGA
TTTCTCTGCCTCTTCCAACTTTTCTCCCTGAACCTGAGGGAACTAATCTGGATTCACTCCCTCTGGTTGATA
CCCACTCAAAAAGGACACTTCTGATTAAGACGTTGAACTAGAGATGGACAGGTTATCAACGAACTTCTCAGC
ATCAGGATGACCTTGAATAAAAAATTGCACACACTCAGTGCAGCAATATATTACCAGCAAGAATAAAAAAGAAATC
CATATCTTAAAGAAACAGCTTTCAAGTGCCTTTCTGCAGTTTTTTCAGGAGCGCAAGATAGATTTGGAATAGGAAT
AAGCTCTAGTTCTTAACAACCGACACTCCTACAAGATTTAGAAAAAGTTTACAACATAATCTAGTTTACAGAAA
AATCTTGTGCTAGAATACTTTTTAAAGGTATTTTGAATACCATTAAACTGCTTTTTTTTTTCCAGCAAGTATC
CAACCAACTTGGTTCTGCTTCAATAAATCTTTGGAAAA

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FIGURE 2905

MSTRSVSSSSYRRMFGGPGTASRPSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRLRSSVP
GVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLQONKILLAELEQLKGQGKSRLGDLY
EEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQDVNDASLARLDLERKVE
SLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSE
AANRNNDALRQAKQESTEYRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQNMKEE
MARHLREYQDLLNVKMALDIEIATYRKLEGEESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTLLIKTVETR
DGQVINETSQHDDLE

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FIGURE 2906

ATGGAGGGAGCAGAACAACCACACAAGGAGCCCATGCCTTGGCTACAGTCAAACCTTCAGCGTGTCTATAAGGCA
TGTCTCGCATTTGTGCAAACATTCAGCGGCTCTTATGTTTCACAGATGACTCCCTGGTGGTGAGGAGATGGCA
TTTCCTCCCTGTGTGCAGGTAAAGACTCAAACACTGATTTCAGAGCTGCTGTCCCATCTACTCACTGCTCCCATGT
TCGGCTGGCGCTGAGGAGACACCTTTAGCTGCTGTGACCCCATGGTCACAAAAGCCACAGAGCTCAGAGCTGCTC
CTCAAAGAACATCCTCCCTGTTTGCTTCTTTCTAGCCCTCTCCTTTCTGGTATCCACGGAACCTATCCTATGAT
GTGACAGAAGAGTCAATTAAGGAATTCTTTAGAGGATTAATTATCAGTGCAGTGCCTTTACCACGTGAACCCAGC
AATCCAGAGAGGAGAATTTCGAGTGGACGTTGCTGATCAAGCACAGGATACAGACAGGGACGATCGTTCTTTTGGC
CGTGATAGAAATCGGGATTCTGACAAAACAGATACAGACTGGAGGGCTCGTTCTGCCACAGACAGCTTTGATGAC
TACCCGCCTAGAAGGGGTGATGATAGGTTTGGAGACAAGTATCGAGATCGTTATGATTTCAGACCAGTCTGGCCGT
GGGTATTGGTATGAGTATCGGGATGGCCCATGCCGGGATATGGATCGATATGGCTGGCGGGATCGCTATGATGAC
CGAGGCAGCAGAGACTATGCTAGAGGCTATCATTCCTGGATAGGCAGTGGCAGAAGGGCATTGTCAGTGGGTAC
CCAGGGACAATGACTACAGAGGAGGCAGGGACCGCTATGAAGACCGATAACAACAGATGGGATGATGGGTCTGTGCA
GCTCCAGAGATGATTTCTCTCGGGATGATTATAGGTATAATGATAGACGTCCCCCGTCCCCCTCAAAGACCCAAA
CTGAATCTAAAGCCTCATAATACTCCTAAGGGAGATGATTCTTCTGCTAGTACCTCCCAGTCCGGTCGAGCTTAT
TTTGTCTTTGGAGGGGCAAAGCCCGTTGATAGAGCTGCTAGAGAAACAAAAGACACCCAAGCTGGCGAAGTGAA
GAAACCCAGGAACCGGAGAGGCACCCAAGCTGGCGAAGTGAAGAACTCAGGAACCTGGAACGGTGGAGGACAGGA
AGTGAGTCATCGCACACTGGGACCTCCGCCACACCCGGCAAAGTCAATCAGACCAGGATGCAGGAAGGAGAGAG
ACTGAAAAGTCTCTAGAAAATGAAACACTCAGTAAGGAGGAAGACTGTCACTCTCCAACCTCTAAATCTACCAA
ACTGATCAGCCCCAAAAGAGCTCAGACACACAGCACGAATACCCTACAAGTGGTGGGGGAAAAGTAACTCCAGCT
CAACCGTCTGAGAAAGGACCAGCAAGGAAAAGATGAAAATAAAGTAGGTGTGGTGAATGTCCCAAAAAGACCACACT
GGGAACTCTAGCCATGGTCCAGGAGACAGAGGGAACAAAGACCACTGGAAGGAGTCAGATAGGAAAAGATGGCAA
AAGGAGCATGACTCCAGATCTGCACCTGAGCCAATATGTGAAATACGGAATTTG**TGA**

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FIGURE 2907

MEGAEQPHKEPMPWLQSNFSVSYKACRRICANIQRPLMFTDDSPGGEEMAFPPCVQVKTQTLIQSCCPIYSLLPC
SAGAEETPLAAVTPWSQKPQSSELLLLKEHPPCLLLSSPSPFWYPRNLSYDVTEESIKEFFRGLIISAVRLPREPS
NPERRIRVDVADQAQDTRDDRSFGRDRNRDSDKTDTDWRRARSATDSFDDYPPRRGDDRF'GDKYRDRYDSQSGR
GYWYEURDGPGRDMDRYGWRDRYDDRGSRDYARGYHSWIGSGRRAFGSGYPGTMTEEAGTAMKTDTTDGMMGRA
APEMISLGMIIIGIMIDVPRPPQRPKLNLPKHNTPKGDDSSASTSQSGRAYFVF'GGAKPVDRAARETKRHPSWRSE
ETQEPERHPSWRSEETQELERWRTGSESSHTGTSATPGKSQSDQDAGRRETEKSLENETLSKEEDCHSPTSSTKSTK
TDQPQKSSDTQHEYPTSGGGKVTPAQPSEKGPARKDENKVGVVNVPKDHTGNSSHGPGDRGNKDHWKESDRKDGK
KEHDSRSAPEPICEIRNL

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FIGURE 2908

AGAACATCCAGTCATGGATAAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGA
CATGGCAGCCTGCATGAAGTCTGTAAGTGAAGGAGCTGAATTATCCAATGAGGAAAGGAATCTCCTCTCAGT
TGCTTATAAAAAATGTTGTAGGAGCCCATAGGTCATCTTGGAGGGTTCGTCTCAAGTATTGAACAAAAGACGGAGGG
AGCTGAGAAAAAACAGCAGATGGCTCGCGAATACAGAGAGAAAAATTGAGACGGAGCTAAGAGATATCTGCAATGA
TGTAAGTGTCTCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAAT
GGAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGGGATGACAAGAAAGGGATTGTGGATCAGTCACA
ACAAGCGTACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGC
CCTTAAGTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTT
TGATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCAGCTAATAATGCAATTACT
GAGGGACAACCTGACACTGTGGACATCAGATACCCAAGCAGACGAAGGTGAAGCAGGAGAAGGAGTGGAAAATTA
ACCGGCCCTTCAGCTTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTTGTTCATCCATGCTGTCCACA
AATAGTTTTTTTGTATGACTTATGTGAGGTTTATGTTACTTCTATTTGAATTTCTCTATTTCCCATACGGTTTC
TATGTTTAAATATTAGGGGAGGAGAGGAAGTTAACATTTAGGGAGTTATCTGTTTTTCATCTTGAGGTGTTCAATAT
GGGGACGTGGAATTTTTATACAGGTTATAAATGTTTGGCATAGTACTTTTTGGTATATTGTGGCTTCACAAGGGCC
AGTGTTAAACTGCTTCCATGTCTAAGCAAGAAAAGTGCCTACATATTGGTTTTGTCCTGGTGGGGAATAAAGG
GATCATTGGTTCCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTATGGAGCACTTACAAGGCTGTGGTAGA
AACAGATGCCCCATGGATACCACATGTTAAACCATGTATAATTGTGGAATACTCAATCTCATAACCTTTGACCACA
GCTGCAGAAGTGTTCTTTTAGACACAGTTGTGACCCATTTTACTCTGTATAAGGGCAGAAATGGTTCACATTCCA
TTATTTATAAAGTTACCTGCTGTTAGCATTCAATTATTTTGTCTACACTCATTTTATTGTATTTAAATGTTTTAG
GCAACCTAAGAACAAATGTAAAGTAAAGATGCAGTAAAAATGAATTGCTTGGTATTCACTACTTCATGTATATC
AAGCACAGCAATAAAACAAAACCCATGTATTTAACTTTTTTTAGGTTTTTGTCTTTGTGATTTTTTTTGATAC
TTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAGGGAAATAACTTGAGATGATGGCTAGCTTTGTTTAAATGT
CTTATGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACACGTATTAAATTCATGTAAGTGGAAATAAA
CGTTTTATGAATGGACTTTTCACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTTGGTCTGAAACTTC
TCTAAAGGAAATTGTACATTTTTTTGAAATGTATTCCTTATTCTCTCTTGGCAGCTAATGGGCTTTTACCAAGTT
TAAACACAAAGTTTATCATAACAACAAAAATACTACTAATATAACTACTGTTTCCATGTCCCATGATTCCCTCTC
TTCTCCCCACCCTGAAAAAATCAGTTCCATTTTTTTCTGGGAGAGGGGAGATTGATTGGAAGGAAATGTAAT
ATGTTCCATTTGAAATATTGGTAAATGGCATTTTCTAACTTAGGAAGCCACAGTGTTCTTGGCCCATCATGACAT
TGGGTAGCATTAAGTATAAGTTTTGTGCTTCCAAATAACTTTTTGGTTTTTAACAATTTCTTGATACTCTTATAG
CCTGCCTTCAGTGTTGATCCTTTATTCTTTCTATCTGTCAGGTGCACAAGATTACCCTCCTTTTTTAGCCTTCTG
TCTTTCTTGTACCAACCATTCCTACTTGGTGGCCATGTACTTGGAAGGCGCATGATCTTTCTGGCTCCAC
TCAGTGCTAAGGCACCCTGCTTCCTTTGCTTGCATCCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAAA
TCTCTCCTTAGTTGATGATACTGTGTTTATCTCCCTTTAAAACCCCTACCTATCCTGAATGGTCTGTGCTGCTG
CCTTTAATCCTTCCTCTTTCTCTTCTCTATTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAAGCTCAGTTT
ACAAAAATATTTTCGTGAGTACTTTGCAGAAAAACCAAACAAAAATGCCATTTTAAAGAGGTGTATTTTTTATTT
CAGAATGTAAGCTCCTCAAGAACAGGGACAATGTTTTCTGTATGTTCTATTGTGCCTAGTACACTGTAAATGCTC
AATAAATATTGATGATGGGAGGCAGTGAATCTTGATAAGGGTGAGAACTGAAATCCC

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FIGURE 2909

GCTCGGAGCCTCGGCGGACCTTGCTGCCTCTGTCTCTTTAACGCGAGAGGAAGCGATGCAGAGGGGTGGAAAATG
GCAGAGCTGCAGATGTTACTAGAGGAGGAGATCCCGTCTGGCAAGAGGGCGCTGATCGAGAGTTACCAGAACCTG
ACTCGGGTGGCAGACTACTGTGAAAACAACCTACATACAGGCTACAGACAAGAGAAAAGCTTTAGAGGAGACCAA
GCCTATACAACCCAATCTCTAGCTAGTGTTGCTTATCAAATAAATGCATTGGCCAACAATGTACTCCAGTTGCTG
GATATCCAAGCCTCTCAGCTTCGGAGAATGGAGTCTTCCATCAATCATATCTCACAGACTGTGGATATTCATAAG
GAGAAAGTGGCACGAAGAGAGATTGGTATTTTGACAACAAATAAGAATACATCAAGAACTCACAAAATAATAGCA
CCTGCGAATATGGAGCGCCCTGTAAGGTATATTGCGAAACCTATCGATTACACAGTTCTGGATGATGTGGGCCAT
GGTGTCAAGTGGCTAAAAGCCAAGCATGGAATAACCAGCCTGCAAGAACTGGCACACTGTGAGAACAAATCCT
CCTACTCAGAAACCGCCAAGTCTCCCATGTGAGGCCGGGGAACACTGGGACGGAATACTCCTTATAAAACCCTG
GAACCTGTAAACCCCCAACAGTTCCTAATGACTATATGACCAGTCTGCTAGGCTTGGAAGTCAGCATAGTCCA
GGCAGGACAGCATCTTTAAATCAGAGACCAAGGACACACAGTGAAGTAGTGGAGGAAGTGGAACTCGAGAAAAC
AGTGGTAGCAGTAGTATTGGCATTCCCATTGCTGTGCCTACACCTTCGCCACCCACTATTGGACCAGAAAACATT
TCTGTCCCTCCTCCTTCTGGAGCTCCACCAGCACCACTCTGGCACCACTTCTCCCAGTGAGCACTGTGATAGCA
GCCCCGGGCTCAGCTCCTGGTTCCCAGTATGGCACAATGACCAGGCAGATATCTCGACACAACCTCTACTACTTCT
TCGACATCTTCTGGTGGATACAGACGAACCTCCCTCTGTGACTGCTCAATTTTCTGCTCAGCCTCATGTTAATGGA
GGTCCACTTTTATTCTCAAATTTCAATTTCTATTGCTCCACCCCTCCCCCTATGCCTCAGTTGACTCCACAGATA
CCTCTCACAGGCTTCGTGGCCAGGGTGCAGGAAAAACATTGCTGATAGTCCAACCTCCACCGCCACCACCTCCACCA
GATGACATTCCCATGTTTGATGACTCTCCACCTCCCCCACCACCACCAGTGGATTATGAAGATGAGGAGGCT
GCAGTAGTTCAGTATAATGATCCATATGCAGATGGGGATCCTGCTTGGGCCCCCAAGAATTATATTGAGAAAGTT
GTTGCAATATATGATTATACAAAAGACAAGGATGATGAGCTGTCATTTATGGAGGGTGCAATCATTATGTTATA
AAGAAGAATGATGATGGCTGGTATGAAGGAGTCTGCAATCGAGTGACTGGTCTGTTCCCTGGGAACCTATGTTGAA
TCAATCATGCCTATACTGATTAATTTTTTTTTTCTTTTGAAGTAGATTCTTATTACTCAGTCATACTGTGGGA
CTATTATGGTTAACAGAACTGTCTTAATATGTTTTAAATGTGCCCATATTTTCAGAACATGCTGTTTTATTGGT
AAATTGAATGTCTACCTGTAAGCATAAATCTTTGAGGCAGTTTATGTATTGCTGAATAGCAATTTATACAAGAAG
CTGTCCATAACTGATTATGCTTATGTACTTACTTACACATTTTAACTTTATGACCAGCCTAAATATTCTGGGGG
AAGTGGGGTATAATATTTAACGAATCATGATTGAGATTGTACCATTACATGTTTCAGTGCAGCATGGTTACTAAC
GCTATGTCAGACTAATATTTAAATCAGAAAATTTAAATGCTGGTGCTGGTCAGACTTTTTTTGTTAGATTCTCTC
ATTTAAAAAAATACTGTTTGTGTTAAAGCATGCATAAAAAATTTATGTATTGAAATATACTTAAAAATTCAAGATG
CTTCCCATTGTGTAAATATTTACCTGGAGGACTCGTACTTAGGTGCTTAACGTGAATTGAGTCTCCAAGGTCTC
CATGTGAAACAAGCAAAAAGAGAATTATCTGTAATGTTGTAATTTGTACCTAAGTTTTTTAATGAGTGAAATTTG
CATTATAAACTTTTTCCATTATATAAATACATAAGTGAACCAAAGGTTTTTGTCCTTTCTTCACTGATTTGCTTT
AAAAAAATAAAAGATAATGATTTATTG

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FIGURE 2910A

GGGGAGGCCATTTTCCGTTTCTGGGAGGAGTGAGGGGCAACGGGTCCGAGAAAAAGGAAAAAAGAAGGGCTCAGC
GCCTCCCCGCCGGGCGGTGGACAGAGGGGCACAGTTTCGGCAGGCGGGTGAGGTCGCTGAGGGCCCCGCCGAGAT
GTTTTCTTGTGTCGAGCACGGTGCAACCCCAGGTTACAGTTCTCTGAGTCATCTCATCAATGCCTTCCATACACC
AAAAAACACTTCTGTTTTCTCTCAGTGGAGTGTCAGTTTCTCAAACCAGCATCGAGATGTAGTTCCTGAGCATGA
GGCTCCCAGCAGTGAGTGTATGTTTCAGTGACTTCCTGACGAAGCTTAACATTGTTTCAATTGGCAAAGGAAAAAT
ATTGGAAGGGTACAGATCCATGTTTCATGGAGCCAGCAAAAAGGATGAAGAAGAGCTTGGACACAACCGATAACTG
GCACATCCGTCCAGAACCCTTCTCCCTCTCAATCCCTCCTTCACTTAACCTAAGGGACCTTGGATTATCTGAACT
AAAAATTGGACAGATTGATCAGCTGGTAGAAAACTACTTCCCTGGATTTTGTAAAGGCAAAAACATTTCTTCCCA
TTGGCATAACATCCCATGTCTCTGCACAATCCTTCTTTGAAAATAAATATGGTAACTTAGATATATTTAGTACATT
ACGTTCTCTTGTCTGTATCGACATCATTCAAGAGCTCTTCAAAGCATTGTGTTTCAGATCTTCAGTACTGGCCAGT
TTTCATACAGTCTCGGGGTTTTAAACTTTGAAATCAAGGACACGACGCTCTCCAGTCTACCTCCGAGAGATTAGC
TGAAACACAGAATATAGCGCCATCATTTCGTGAAGGGGTTTCTTTTGCGGGACAGAGGATCAGATGTTGAGAGTTT
GGACAAACTCATGAAAACCAAAAATATACCTGAAGCTCACCAAGATGCATTTAAACTGGTTTTGCGGAAGGTTT
TCTGAAAGCTCAAGCACTCACACAAAAACCAATGATTCCCTAAGGCGAACCCGTCTGATTCTCTTCGTTCTGCT
GCTATTCGGCATTTATGGACTTCTAAAAAACCCATTTTTATCTGTCCGCTTCCGGACAACAACAGGGCTTGATT
TGCAGTAGATCCTGTCCAGATGAAAAATGTCACCTTTGAACATGTTAAAGGGGTGGAGGAAGCTAAACAAGAATT
ACAGGAAGTTGTTGAATTCTTGAAAAATCCACAAAAATTTACTATTCTTGGAGGTAAACTTCCAAAAGGAATTCT
TTTAGTTGGACCCCCAGGGACTGGAAAGACACTTCTTGCCCGAGCTGTGGCGGGAGAAGCTGATGTTCCTTTTTA
TTATGCTTCTGGATCCGAATTTGATGAGATGTTTGTGGGTGTGGGAGCCAGCCGTATCAGAAATCTTTTTAGGGA
AGCAAAGGCGAATGCTCCTTGTGTTATATTTATTGATGAATTAGATTCTGTTGGTGGGAAGAGAATTGAATCTCC
AATGCATCCATATTCAAGGCAGACCATAAATCAACTTCTTGCTGAAATGGATGGTTTTTAAACCCAATGAAGGAGT
TATCATAATAGGAGCCACAACTTCCCAGAGGCATTAGATAATGCCTTAATACGTCCTGGTCGTTTTGACATGCA
AGTTACAGTTCCAAGGCCAGATGTAAAAGGTGGAACAGAAATTTTGAAATGGTATCTCAATAAAATAAAGTTTGA
TCAATCCGTTGATCCAGAAATTATAGCTCGAGGTACTGTTGGCTTTTCCGGAGCAGAGTTGGAGAATCTTGTGAA
CCAGGCTGCATTAAAAGCAGCTGTTGATGGAAAAGAAATGGTTACCATGAAGGAGCTGGAGTTTTCCAAAGACAA
AATTCTAATGGGGCCTGAAAGAAGAAGTGTGGAAATTGATAACAAAAACAAACCATCACAGCATATCATGAATC
TGGTCATGCCATTATTGCATATTACACAAAAGATGCAATGCCTATCAACAAAGCTACAATCATGCCACGGGGGCC
AACACTTGGACATGTGTCCCTGTTACCTGAGAATGACAGATGGAATGAACTAGAGCCCAGCTGCTTGACAAAT
GGATGTTAGTATGGGAGGAAGAGTGGCAGAGGAGCTTATATTTGGAACCGACCATATTACAACAGGTGCTTCCAG
TGATTTTGATAATGCCACTAAAATAGCAAAGCGGATGGTTACCAAATTTGGAATGAGTGAAAAGCTTGGAGTTAT
GACCTACAGTGATACAGGGAACTAAGTCCAGAAACCCAATCTGCCATCGAACAAGAAATAAGAATCCTTCTAAG
GGACTCATATGAACGAGCAAAACATATCTTGAAACTCATGCAAGGAGCATAAGAATCTCGCAGAAGCTTTATT
GACCTATGAGACTTTGGATGCCAAAGAGATTCAAATGTTCTTGAGGGGAAAAAGTTGGAAGTGAGATGATAACT
CTCTTGATATGGATGCTTGTGTTTATTGCAAGAATACAAGTAGCATTCAGTAGTCTACTTTTACAACGCTT
TCCCCTCATTCTTGATGTGGTGTAATTGAAGGGTGTGAAATGCTTTGTCAATCATTGTGCATTTATCCAGTTT
GGGTTATTCTCATTATGACACCTATTGCAATTAGCATCCCATGGCAAATATATTTTGAAAAATAAAGAACTAT
CAGGATTGAAAAACAGCTCTTTTGAGGAATGTCAATTAGTTATTAAGTTGAAAGTAATTAATGATTTTATGTTTG
TTACTCTACTAGATTTGATAAAAAATTGTGCCTTTAGCCTTCTATATACATCAGTGGAACTTAAGATGCAGTAAT
TATGTTCCAGATTGACCATGAATAAAATATTTTTTAATCTAAATGTAGAGAAGTTGGGATTAAAAGCAGTCTCGG
AAACACAGAGCCAGGAATATAGCCTTTTGGCATGGTGCCATGGCTCACATCTGTAATCCCAGCACTTTTGGAGGC
TGAGGCGGGTGGATTGCTTGAGGCCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACGCTGTCTCTACTAA
AATACAAAAAATAGGGCTGGGCGCGGTTGCTCACGCCTGTAATCCCAGCACTTTTTCAGAGGCCAAGGCGGGCAA
ATCACCTGAGGTCAAGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAACATGCAAAAAAT
TACCTGGGCATGGTGGCAGGTGCTTATAATCCCAGCTACTCTGGGGGCCAAGGCAGGAGAATTGCTTGAGCCTGG
GAGATGGAGGTTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGCCTCAA
AAAAAATTTAAATAAATTTAAATACAAAAAATAAGCCAGGTGTGGGGTGCATGCCTGGAATCCCAGCTACTT
GAGAGGCTGAGGCACGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCAAGATCACAGGAGCCACTG
CACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAAATAAATAAATTATTATAACCTTTTCAGAAAT

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FIGURE 2910B

GCTGTGTGCATTTTCATGTTCTTTTTTTTAGCATTACTGTCACTCTCCCTAATGAAATGTACTTCAGAGAAGCAG
TATTTTGTAAATAAATAACATAACCTCATTCTGAATAATGTCCCTCATTTTGACTATAACTGTGCTTGGTTTCAA
AAGCAAAATTAAACAAAAATCTCAGTCCCCTCCGAAGTGAACCTTTGTGTTACCCTGCGTCAGAAATGCCAAGTTG
TGTTTACTTTTCATTTCAGATTTTGTGAATATGAACATGCTGTTATAGGATCTACAGATGAATATTTAACTCAATA
GAAAAATTATTTTAGAACACATTGTATTGGTATTACAACCAGATTATATTCTTGACGTTGACTTCATTAAAATT

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FIGURE 2911

ACCGCCATCTTCCAGTAATTCGCCAAAGTGACGAACACAAAGAGAAAGAGGAGGGGCACCCGATATATGTTCTTT
AGGCCTTTTAGAAAACATGGAGTTGTTCCCTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGAC
ATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAAT
GTTACCCAGCATGCTGTTGGCATTGTTGTAAACACACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTG
TTTATTGAGCACATTAAGCACTCTAAGAGCCGAGACAGCTTCCTGAAACGCATGAAGGAAAATGATCAGAAAAAG
AAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTG
AGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATTAATAGGTGTTAAAAAA
AATAATAAAGGATCTCTGGGCTAC

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FIGURE 2912

VTNTRKRRGTRYMFFRPFRKHGVVPLATYMRIYKKGDIVDIKMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV
VNTQVKGKILAKRINVFIEHIKHSKSRDSFLKRMKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRTNGKEPEL
LEPIPYEFMA

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FIGURE 2913A

CACTGCTCTGACTGCGTCTCTCCCCAGGCTGAAGTGTCTCAGGTTTCATGTGGATTTGCCCAGTAATGGATGGCT
CCACCGAGGCCAGGTTGGGGAAGTTCAGCCTCGAGGACACTAGGGGACGAAAACTTCAAAAAGAAGACTCTTTT
TATTAATATTTTGGCGTTCTTTTGGAGAGGAACCTTTTGGGATGTAGCCTTTACCTGTTTCTGAATTTGACATC
CAAAAAGCCTTTTGGAAAACACCATTCTAAATTTATCCTGTTCTGAATCATCATCGCTTCTGATAGATGCAGTTG
CTTGCTGACATCGTGATCTTTGATTTTGTACAACGCTATTTGGGCTAACTTTTGGGATTTTACTTTGTGCTTAGA
ATTTGAAAGTAGTATTTCATTGGAAAGAGACTCCAAGAAAATACTCGAAGACATCAAAAGCTGGATTGAGGGTAT
AACGTGTTTTGTTTTGTTTTTTAAATTAGAAAAATAAGGAATTGCAGTGTGATTTTCTTTCCCCCTTTAACTTAG
AGGAACGAGGATTATACAGAAATTTGAAATTTCAACAAGAAAACTTAAGCTTCTTGGATTCCCACGTCAAAGG
AAAGTTTCAAGCTTTTCAGAAGGAGTTCTCACTCGAAGATAAAGAACAGCTCGCTAACACGAAAAGAGGAATCGAT
GCTCAGCTTTTAGTTGCACTTCTCTAAAGTTGCAGAATTAAGACAAATCTTTGAACCAAAAGAAGAAAGAATTCTTA
GAAATGAAAAGAAAAGAAAGAATTGCCAGGCGCCTGGAAGGGATTGAAAATGACACTCAGCCCATCCTCTTGACAG
AGCTGCACAGGATTGGTGACTCACCGCCTGCTGGAGGAAGACACCCCTCGATACATGAGAGCCAGCGACCCTGCC
AGCCCCCACATCGGCCGATCAAATGAAGAGGAGGAAACTTCTGATTCTTCTCTAGAAAAAGCAAACTCGATCCAAA
TACTGCACAGAAACCTCCGGTGTCCACGGTGACTCACCTATGGTTCGGGTACCATGGACACCCACAGTCTGGAG
TCCAAAGCCGAAAGAATTGCAAGGTACAAAGCAGAAAGAAGGCGACAGCTGGCAGAGAAAGTATGGGCTGACTCTG
GATCCCGAGGCCGACTCCGAGTATTTATCCCGCTATACCAAGTCCAGGAAGGAGCCTGATGCTGTCGAGAAGCGG
GGAGGAAAAAGTGACAAACAGGAAGAGTCAAGCAGAGATGCTAGTTCTCTGTACCCCGGGACCGAGACGATGGGG
CTCAGGACCTGTGCCGTTGAATCCAAGGACTATGCCCTCCATGTGGGTGACGGCTCTTCCGACCCGGAGGTGCTG
CTGAACATAGAAAACCAAAGACGAGGTCAAGAGCTGAGTGCCACCCGGCAGGCCCATGACCTGTCCCCAGCAGCC
GAGAGTTCTTCGACCTTCTCTTTCTCTGGGCGAGACTCCTCCTTCACTGAAGTGCCACGGTCCCCCAAGCAGGCC
CACAGCTCCTCCTGTCAGCAGGCAGCCTCCCGAGCCCCCTCCTTTGGTGACCCACAGCTATCCCCTGAGGCCCGA
CCAGTACAGGGAAACCCAAACATGAGTGGTTTCTCCAGAAAGATTCCGAAGGGGACACACCTTCACTTATCAAC
TGGCCTTCCAGAGTTAAAGTTAGAGAAAAATTGGTGAAAGAGGAAAGTGCTCGAAACAGCCCTGAACCTCGCCTCA
GAGTCCGTAACCTCAGAGGAGACACCAGCCAGCGCCAGTCCATTACGTGTCAATTCAGTCTGAGCACTCAGCCTTT
GATAGGGTCCCCAGCAAGGCAGCAGGCTCTACACGACAGCCAATCCGTGGCTATGTCCAACCCGCAGATACCGGT
CACACCGCCAAGCTAGTGACGCCAGAAACCCAGAAAATGCATCTGAGTGTAGCTGGGTAGCATCAGCCACCCAG
AATGTCCCCAAACCTCCCAGCTTGACGGTTCTAGAAGGTGACGGAAGGGATAGCCCAGTTCTCCATGTCTGCGAG
TCAAAAGCAGAAGAAGAAGAAGGGGAAGGAGAAGGAGAAGAAAAAGAAGAAGATGTGTGCTTCACTGAAGCTCTC
GAGCAAAGCAAGAAAACCTACTGGCTTTGGAGGGTGATGGGCTAGTGAGAAGCCCAGAAAGATCCCTCTAGAAAT
GAGGACTTTGGTAAGCCTGCTGTGAGCACAGTCACCTTAGAGCATCAGAAGGAAGTGGAAAACGTGGCACAACCC
CCTCAAGCTCCGCACCAGCCCACTGAGAGGACAGGCAGGAGCGAGATGGTTCTCTACATTCAAAGTGAGCCTGTG
TCCCAAGACGCCAAACCAACTGGTCACAACAGGGAAGCCTCGAAAAAGCGCAAGGTCCGTACCCGCTCTCTGTCA
GATTTACAGGCCCCCCCTCAGCTCCAGGCCTTGAAGTATAAGGACCCAGCTTCCAGGAGAGAGCTGGAGCTGCCC
AGCTCCAAGACCGAAGGGCCTTATGGGGAGATCAGCATGCTGGACACAAAAGTCTCTGTGCGCCAGCTCCGAAGT
GCGTTCTTGGCATCTGCCAACGCCTGCAGGAGACCTGAACCTCAAATCACGGGTGGAGAGGTGCGCTGAAGGACCT
GGCTTGCCACCGGTGTGGAACGGGAGAGAGGGTCCCGGAAACCAAGACGCTATTTTTCTCTCTGGTGAAAGTAGA
AAAACCTCCGAGAGATTTAGAACCCAACCTATAACTTCAGCAGAACGAAAGGAATCGGATAGGTGCATTTACAT
TCAGAAACGCCAACTGTGATGATGAAGAAAAGGTGGATGAACGAGCCAAGCTGAGCGTCGCCGCCAAGAGGTTG
CTTTTCAGGGAGATGGAATAATCTTTTGATGAACAAAATGTTCCAAAGCGACGCTCAAGAAACACAGCTGTGGAG
CAGAGGCTACGCCGTCTGCAGGACAGGTCCCTCACCAGCCCATCACCCTGAAGAGGTGGTCAATCGCAGCCACT
GAACCTATCCCCGCTTCTGTGTTCTGGGGGCACCCACCCTGTAATGGCGAGACTTCTAGCCCCACTGTAGCTAGG
AGCGCTGTGCAGCCTGCCAGATTGCAGGCCTCTGCTACCAAAAGGCCTTAGCCAAGGACCAGACAAATGAGGGC
AAAGAGCTTGCTGAGCAAGGAGAACCTGATTCTCCTCACTCTAAGCTTGGCCGAAAAGTTGGCCTTGTTTAACAAA
TTGTCCCAGCCAGTCTCAAAAGCGATTTCTACCCGGAACAGAATAGACACGAGACAGAGGAGAATGAACGCTCGC
TATCAAACCTCAGCCAGTCACACTGGGAGAGGTGGAGCAGGTGCAGAGTGGAAGCTCATTCCTTTCTCACCTGCC
GTGAACACATCAGTGTCTACCGTAGCATCCACGGTTGCTCCAATGTATGCCGGAGATCTTCGCACAAAGCCACCT
CTTGACCACAATGCAAGTGCCACTGACTATAAGTTTTCTTCTTCAATAGAAAATTTCGGACTCTCCAGTTAGAAGC
ATTCTGAAATCGCAAGCTTGGCAGCCTTTGGTAGAGGTAGCGAGAACAAGGGAATGTTGAGAGAATATGGAGAG

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FIGURE 2913B

ACAGAAAGCAAGAGAGCTTTGACAGGTCGAGACAGTGGGATGGAGAAGTATGGGTCCCTTTGAGGAAGCAGAAGCA
TCCTACCCCATCCTGAACCGAGCCAGGGAAGGAGACAGCCATAAGGAATCTAAATATGCTGTTCCCAGAAGAGGA
AGCCTGGAACGGGCGAACCCTCCCATCACCCACCTCGGGGATGAACCGAAGGAATTTTCCATGGCTAAAATGAAT
GCACAAGGAACTTGGACTTGAGGGACAGGCTGCCCTTTGAAGAGAAGGTGGAGGTGGAGAATGTTATGAAAAGG
AAGTTTTCTACTAAGAGCGGCAGAGTTTCGGGGAGCCACTTCCGAGCAGACGGGGACAGCTGCTGGGAAAACCTATT
GCTCAAACCACAGCCCCCGTGTCTGGAAGCCCCAGGATTCTTCGGAACAGCCACAGGAGAAGCTCTGCAAGAAT
CCATGTGCGATGTTTGCTGCTGGAGAGATCAAAACGCCGACAGGGGAGGGCCTTCTTGACTCACCCAGCAAAACC
ATGTCTATTAAAGAAAGATTGGCACTGTTGAAGAAAAGCGGGGAGGAAGATTGGAGAAACAGACTCAGCAGGAGG
CAGGAGGGCGGCAAGGCGCCGCCAGCAGCCTGCACACCAGGAAGCAGGGCGGTCCCTCATCAAGAAGCGGGTC
ACAGAAAGTCGAGAGAGCCAAATGACGATTGAGGAGAGGAAGCAGCTCATCACTGTGAGAGAGGAGGCCTGGAAG
ACGAGAGGCAGAGGAGCGGCCAACGACTCGACCCAGTTCACTGTGGCTGGCAGGATGGTGAAGAAAAGTTTGGCG
TCACCTACTGCCATAACCCAGTAGCCTCACCCATTTGCGGTAAAACAAGAGGCACCACACCCGTTTCCAAACCC
CTGGAAGATATCGAAGCCAGACCAGATATGCAGTTAGAATCGGACCTGAAGTTGGACAGGCTGGAAAACCTTTCTA
AGAAGGCTGAATAACAAAGTTGGCGGGATGCACGAAACGGTGCTCACTGTACCCGGCAAATCTGTGAAGGAGGTG
ATGAAGCCAGATGATGATGAAACCTTTGCCAAATTTTACCGCAGCGTGGATTATAATATGCCAAGAAGTCCTGTG
GAGATGGATGAGGACTTCGATGTCAATTTTCGATCCTTATGCACCCAAATTGACGTCTTCCGTGGCCGAGCACAAG
CGGGCAGTTAGGCCCAAGCGCCGGGTTCAGGCTCCAAAAACCCCTGAAAATGCTGGCGGCAAGAGAAGATCTC
CTTCAGGAATACACTGAGCAGAGATTAAACGTTGCCCTTCATGGAGTCAAAGCGGATGAAAGTAGAAAAGATGTCT
TCCAACCTCCAATTCTCAGAAGTCACCCCTGGCGGGTTTAGCCAGTAAAGAAAACCTTCAGCAACGTCAGCCTGCGG
AGCGTCAACCTGACGGAACAGAACTCTAACAACAGCGCCGTGCCCTACAAGAGGCTGATGCTGTTGCAGATTAAA
GGAAGAAGACATGTGCAGACCAGGCTGGTGGAACTTCGAGCTTCGGCGCTCAACAGTGGGGACTGCTTCCTCCTG
CTCTCTCCCCACTGCTGCTTCCTGTGGGTAGGAGAGTTTGCAAACGTCATAGAAAAGGCGAAGGCCTCAGAACTT
GCAACTTTAATTGAGACAAAGAGGGAACCTTGTTGTAGAGCTACTTATATCCAAACCATTAAGAAGGAATTAAT
ACACACACTCATGCAGCCAAAGACTTCTGGAAGCTTCTGGGTGGCCAAACCAGTTACCAATCTGCTGGAGACCCA
AAAGAAGATGAACTCTATGAAGCAGCCATAATAGAACTAACTGCATTTACCGTCTCATGGATGACAAACTTGT
CCTGATGACGACTACTGGGGGAAAATTCGGAAGTGCTCCCTTCTGCAACCCAAAGAGGTACTGGTGTGTTGATTTT
GGTAGTGAAGTTTACGTATGGCATGGGAAAGAAGTCACATTAGCACAAACGAAAAATAGCATTTTCAGCTGGCAAAG
CACTTATGGAATGGAACCTTTGACTATGAGAACTGTGACATCAATCCCCTGGATCCTGGAGAATGCAATCCGCTT
ATCCCCAGAAAAGGACAGGGGCGGCCGACTGGGCGATATTTGGGAGACTTACTGAACACAATGAGACGATTTTG
TTCAAAGAGAAGTTTCTGGATTGGACGGAACCTGAAGAGATCGAATGAGAAGAACCCCGGGGAACTTGCCAGCAC
AAGGAAGACCCAGGACTGATGTCAAGGCATACGATGTGACACGGATGGTGTCCATGCCCCAGACGACAGCAGGC
ACCATCCTGGACGGAGTGAACGTGCGCCGTGGCTATGGCCTGGTGGAAAGACACGACAGGAGGCAGTTTGAGATC
ACCAGCGTTTCCGTGGATGTCTGGCACATCCTGGAATTCGACTATAGCAGGCTCCCCAAACAAAGCATCGGGCAG
TTCCATGAGGGGGATGCCTATGTGGTCAAGTGGAAGTTCAATGGTGAGCAGGCAGTGGGAAGTCGCCAGAAGGGA
GAGCACTCGGTGAGGGCAGCCGGCAAAGAGAAGTGCGTCTACTTCTTCTGGCAAGGCCCGGCACTCCACCGTGAGT
GAGAAGGGCACGTGCGCGCTGATGACGGTGGAGCTGGACGAGGAAAGGGGGGCCCCAGGTCCAGGTTCTCCAGGGA
AAGGAGCCCCCTGTTTTCTGCAAGTGTTCAGGGGGGGATGGTGGTGCACTCGGGGAGGCGGGGAAGAGGAAGAA
GAAAATGTGCAAAGTGAGTGGCGGCTGTACTGCGTGCGTGGAGAGGTGCCCGTGGAAAGGAATTTGCTGGAAGTG
GCCTGTCACTGTAGCAGCCTGAGGTCCAGAACTTCCATGGTGGTGCTTAACGTCAACAAGGCCCTCATCTACCTG
TGGCACGGATGCAAAGCCCAGGCCACACGAAGGAGGTCGGAAGGACCGCTGCGAACAAGATCAAGGAACAATGT
CCCCTGGAAGCAGGACTGCATAGTAGCAGCAAAGTCACAATACACGAGTGTGATGAAGGCTCCGAGCCACTCGGA
TTCTGGGATGCCTTAGGAAGGAGAGACAGGAAAGCCTACGATTGCATGCTTCAAGATCCTGGAAGTTTAACTTC
GCGCCCCGCTGTTTATCTCAGCAGCTCCTCTGGGGATTTTGCAGCCACAGAGTTTGTGTACCCTGCCCGAGCC
CCCTCTGTGGTCAGTTCCATGCCCTTCTGCAAGGATCTGTACAGCGCGCCCCAGCCAGCACTTTTCCTTGT
GACAATCACCACGAGGTGTACCTCTGGCAAGGCTGGTGGCCCATCGAGAACAAGATCACTGGTTCCGCCCCGCATC
CGCTGGGCCTCCGACCGGAAGAGTGCGATGGAGACTGTGCTCCAGTACTGCAAAGGAAAAAATCTCAAGAAACCA
GCCCCCAAGTCTTACCTTATCCACGCTGGTCTGGAGCCCCTGACATTACCAATATGTTTCCAGCTGGGAGCAC
AGAGAGGACATCGCTGAGATCACAGAGATGGACACGGAAGTTTCCAATCAGATCACCCCTCGTGGAAAGACGTCTTA

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FIGURE 2913C

GCCAAGCTCTGTAAAACCATTTACCCGCTGGCCGACCTCCTGGCCAGGCCACTCCCGGAGGGGGTCGATCCTCTG
AAGCTTGAGATCTATCTCACCGACGAAGACTTCGAGTTTGCACTAGACATGACGAGGGATGAATACAACGCCCTG
CCCGCCTGGAAGCAGGTGAACCTGAAGAAAGCAAAAGGCCTGTTCTGAGTGGGGAGACGCCAGAGGAGCCTCACG
GTCACGTCCAACAACACCACTGCACCAGGGAAATGGATATATATTTTTTGGACTGGTGTTCACAAAGTATTTT
TCAATCAGAGTTTTTCAGAACCTGACATTGTTAAAGATACTGCTTGTCCCGGAGTTGTGTATTTTGTAAATGTTCA
AGGGAACTGTTTGGAACCTTCTTCCACCATTTCAGGAGGTTATCAGAATTAATAAAAGTATCTGTTATGTGCACT
TAAGCCGCAGCTGCTATAGATAGCACTGCCTTCTTGTTCAGCTAGGCAATGCCTTTTTTTTTTTTTTTGAAGC
AGTTCTCTTTATAAAGTGTTATTTTGATAGTTTGTGGATTCTAAAATATATATATATTTATATAAACACCATATA
AGTCAAATATGTATTTAACAAGCAATATGTATTCATTCACTTTCAAGATTTGTTTTGGTGTCAAAATAACATGA
AAAGGTAGATGGAGTTGCTTCTGTTGAATTAGCTCTGCCACCAATATGTATCTTCATACACGTTTGGAAATGTTT
CCTGCAGCATTAGGTATGACTTGTTCTGAGTACTGCTTCCGGTGCTAAAATGAACAAAGAATTTGTACTTAATGG
CATGGACTCTGGAGAATCTATGCGAATCAACCTTTCTACCTTAATATCTCCCCAAAAATGTATAGTGCCTTGTTT
TTATGTACAGTTTATATACAGAAAAGTTTGCTCTGCATTTTGTATGATGGTTTGGAACATTATCTACAATTTTAC
TCTCAAATAGTCAAATAAAAAACATCTCAATTTCTAATACCGTTGTAAACAGTACACATGTCATTTTGTGATAT
AGGACTCCCAAATAAAAGTATCAGAATAAACACAACAATTAAGTGGT

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FIGURE 2914

CAGACGCTGCTGCCGAGGAAAACCTTGTATTATTAGGCATGGTCAACCCCACCGTGTTCTTCGACATTGCCATCG
ACGGCGAGCCCTTGGGCCGCGTCTCCTTTTAGCTGTTTGCAGACAAGTTCCCAAAGACAGCAGAAAATTTTCGTG
CTCTGAGCACTGGAGAGAAAGGATTTAGTTATAAGGGTTCCTGCTTTCACAGAATTATTCCAGGGTTTATGTATC
AGGGTCGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAAATTTGAAGATGAGAACT
TCATCCTAAAGCATAACAGGTCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGTTCCCAGTTTT
TCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTCTTTGGCAAAGTGAAAGAAGGCATGAATA
TTATGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTGTGGAC
AACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGACCATTTCCTTCTGTAGTTCAGGAGAACACCCTTC
CACCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTTGCTGCAGTTCCATGTTTTCTTGTTCCTCCCAT
GCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACCAATAACAA

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FIGURE 2915

GQPHRVLRHCHRRRALGPRLLLALFADKFPKTAENFRALSTGEKGF SYKGSCFHRIIPGFMYQGRDFTRHNGTGG
KSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIMEAMERFGSRNG
KTSKKITIADCGQLE

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FIGURE 2916A

ATGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTCTGCGCGTGCGGGACGGCCACATGAAAGTTTTTCAGC
CTCATCCAGCAGGCGGTGACCCGCTACCGGAAGGCCATCGCCAAGGATCCAACTACTGGATACAGGTGCATCGC
TTGGAACATGGAGATGGAGGAATACTAGACCTTGATGACATTCTTTGTGATGTAGCAGACGATAAAGACAGACTG
GTAGCAGTGTGTTGATGAGCAGGATCCACATCACGGAGGTGATGGCACCAGTGCCAGTTCCACGGGTACCCAGAGC
CCAGAGATATTTGGTAGTGAGCTTGGCACCAACAATGTCTCAGCCTTTTCAGCCTTACCAAGCAACAAGTGAAATT
GAGGTACACCTTCAGTCCTTCGAGCAAATATGCCTCTTCATGTTTCGACGCAGTAGTGACCCAGCTCTAATTGGC
CTCTCCACTTCTGTGATGATAGTAATTTTCTCTGAAGAGCCTTCAAGGAAAAATCCACACGCTGGTCAACA
ACAGCTGGCTTCTCAAGCAGAACACTGCTGGGAGTCTTAAACCTGCGACAGGAAGAAAGATGAAAACCTACAGA
AGCCTCCCGCGGGATACTAGTAAGTGGTCTAACCAATTTTCAGAGAGACAATGCTCGCTCGTCTCTGAGTGCCAGT
CACCAATGGTGGGCAAGTGGCTGGAGAAACAAGAACAGGATGAGGATGGGACAGAAGAGGATAACAGTCGTGTT
GAACCTGTTGGACATGCTGACACGGGTTTGGAGCATATACCCAACCTTTTCTCTGGATGATATGGTAAAGCTCGTA
GAAGTCCCCAACGATGGAGGGCCTCTGGGAATCCATGTAGTGCCTTTTCAGTGCTCGAGGCGGCAGAACCCCTGGGG
TTATTAGTAAACGATTGGAGAAAGGTGGTAAAGCTGAACATGAAAATCTTTTTCGTGAGAATGATTGCATTGTC
AGGATTAATGATGGCGACCTTCGAAATAGAAGATTTGAACAAGCACAAACATATGTTTCGCCAAGCCATGCGTACA
CCCATCATTGTTCCATGTGGTTCTCTGCAGCAAATAAAGAGCAGTATGAACAACCTATCCCAAAGTGAGAAGAAC
AATTACTATTCAAGCCGTTTTAGCCCTGACAGCCAGTATATTGACAACAGGAGTGTGAACAGTGCAGGGCTTCAC
ACGGTGCAGAGAGCACCCCGACTGAACCACCCGCTGAGCAGATAGACTCTCACTCAAGACTACCTCATAGCGCA
CACCCCTCGGGAAAACCAACCATCCGCTCCAGCCTCGGCACCTCAGAATGTATTTAGTACGACTGTAAGCAGTGGT
TATAACACCAAAAAAATAGGCAAGAGGCTTAATATCCAGCTTAAGAAAGGTACAGAAGGTTTGGGATTTCAGCATC
ACTTCCAGAGATGTAACAATAGGTGGCTCAGCTCCAATCTATGTGAAAAACATTCTCCCCCGGGGGCGGCCATT
CAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTAGATTTAGTGGGCAAATCCCAAGAG
GAAGTTGTTTTCGCTGTTGAGAAGCACCAAGATGGAAGGAAGTGTGAGCCTTCTGGTCTTTTCGCCAGGAAGACGCC
TTCCACCCAAGGGAAGTGAATGCAGAGCCAAGCCAGATGCAGATTCCAAAAGAAACGAAAGCAGAAGATGAGGAT
ATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTCCCACTTAATGATTTCAGGATCTGCAGGC
CTTGGTGTGATGTCAAAGGTAACCGGTCAAAGAGAACCACGCAGATTTGGGAATCTTTGTCAAGTCCATTATT
AATGGAGGAGCAGCATCTAAAGATGGAAGGCTTCGGGTGAATGATCAACTGATAGCAGTAAATGGAGAATCCCTG
TTGGGCAAGACAAACCAAGATGCCATGGAAACCCTAAGAAGGTCTATGTCTACTGAAGGCAATAAACGAGGAATG
ATCCAGCTTATTGTTGCAAGGAGAATAAGCAAGTGCAATGAGCTGAAGTCACCTGGGAGCCCCCTGGACCTGAG
CTGCCCATTGAAACAGCGTTGGATGATAGAGAACGAAGAATTTCCCATTCCTCTACAGTGGGATTGAGGGGCTT
GATGAATCCCCCAGCAGAAATGCTGCCCTCAGTAGGATAAATGGGTGAGTCAGGTAAATACCAGCTGTCCCCTACA
GTGAATATGCCCCAAGATGACACTGTCATTATAGAAGATGACAGGTTGCCAGTGCTTCCTCCACATCTCTCTGAC
CAGTCTCTTCCAGCTCCCATGATGATGTGGGGTTTGTGACGGCAGATGCTGGTACTTGGGCCAAGGCTGCAATC
AGTGATTTCAGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCCTTGCTTTTCAACGAGAAGGATTTGGACGT
CAGAGTATGTGAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAATTGGATTTCGTAAAACACGAAAATCA
AAAAGCATGGATTTAGGTATAGCTGACGAGACTAACTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCCAGC
AGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGTG
ACTTTGAATGGGGATATTCTTTCCATCGTCCACGGCCGCGGATAATCAGAGGCAGGGGATGCAATGAGAGCTTC
AGAGCTGCCATCGACAAAATCTTATGATAAACCCGCGGTAGATGATGATGATGAAGGCATGGAGACCTTGGAAGAA
GACACAGAAGAAAGTTCAAGATCAGGGAGAGAGTCTGTATCCACAGCCAGTGATCAGCCTTCCCCTCTCTGGAG
AGACAAATGAATGGAAACCAAGAGAAAGGTGATAAGACTGATAGAAAAAAGGATAAACTGGAAAAGAAAAGAAG
AAAGATAGAGATAAGGAGAAGGATAAAATGAAAGCCAAGAAGGGAATGCTGAAGGGCTTGGGAGACATGTTTCAGG
TTTGGCAAACATCGAAAAGATGACAAGATTGAGAAAACGGGTAAAAATAAAAAATACAGGAATCCTTTACATCAGAA
GAGGAGAGGATACGAATGAAGCAGGAGCAGGAGAGGATTCAAGCCAAAACCTCGAGAATTTAGGGAACGACAAGCT
CGAGAGCGTGACTATGCTGAAATTCAAGATTTTCATCGGACATTTGGCTGTGATGATGAGTTAATGTATGGGGGA
GTTTTCTTCTTATGAAGGTTCCATGGCTCTCAACGCTAGACCTCAGAGCCCACGAGAAGGGCATATGATGGATGCT
TTGTATGCCCAAGTCAAGAAGCCGCGGAATTTCAAACCTCACCTGTAGACAGTAACAGATCAACTCCTAGCAAT
CATGATCGGATACAGCGTCTGAGGCAAGAATTTTCAGCAAGCAAAGCAAGATGAAGATGTAGAAGATCGTCGGCGG
ACCTATAGTTTTGAGCAACCCTGGCCGAACGCACGGCCGCGACGCAGAGCGGGCGACACTCGGTGTCCGTGGAG

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FIGURE 2916B

GTGCAGATGCAGCGGCAGCGGCAGGAGGAGCGCGAGAGCTCCCAGCAGGCCAGCGCCAGTACAGCTCTCTGCCT
CGGCAAAGCAGGAAAAATGCCAGCTCGGTCTCCCAGGACTCTTGGGAGCAGAACTACTCCCCTGGGGAAGGCTTC
CAGAGTGCCAAAGAGAACCCAGGTACTCCAGCTACCAAGGCTCCAGGAACGGCTACCTGGGAGGACATGGCTTC
AACGCCAGGGTCATGCTGGAACTCAGGAGCTCCTTCGCCAGGAACAGAGGCGGAAGGAGCAGCAGATGAAGAAG
CAGCCTCCTTCCGAGGGGCCCAGCAACTATGACTCGTATAAGAAAGTCCAGGACCCAGTTACGCCCCCTCCAAG
GGGCCCTTCCGGCAAGATGTGCCCCCTCCCCTTCTCAGGTTGCGAGGCTGAACAGACTTCAGACTCCTGAGAAA
GGGAGGCCCTTCTATTCCTGA

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FIGURE 2917

MKVTVCFGRTRVVVPCGDGHMKVFSLIQQAVTRYRKAIKDPNYWIQVHRLEHGDGGIILDDILCDVADDKDRL
VAVFDEQDPHHGGDGTSSASTGTQSPEIFGSELGTNNVSAFQPYQATSEIEVTPSVLRANMPLHVRRSSDPALIG
LSTSVSDSNFSSEEPSRKNPTRWSTTAGFLKQNTAGSPKTCDRKKDENYRSLPRDTSNWSNQFQRDNARSSLSAS
HPMVGKWLEKQEDEDGTEEDNSRVEPVGHADTGLEHIPNFSLDDMVKLVEVPNDGGPLGIHVVPFSARGGRTL
LLVKRLEKGGKAEHENLFRENDCIVRINDGDLNRNRRFEQAQHMFRQAMRTPIIWFHVVPAANKEQYEQLSQSEKN
NYYSSRFSPDSQYIDNRSVNSAGLHTVQRAPRLNHPPEQIDSHSRLPHSAHPSGKPPSAPASAPQNVFSTTVSSG
YNTKKIGKRLNIQLKKGTEGLGFSITSRDVTIGGSAPIYVKNILPRGAAIQDGRLLKAGDRLIEVNGVDLVGKSQE
EVVSLLRSTKMEGTVSLLVFRQEDAFHPRELNAEPSQMQUIPKETKAEDEDIVLTPDGTREFLTFEVPLNDSGSAG
LGVSVKGNRSKENHADLGIFVKSIINGGAASKDGRRLRVNDQLIAVNGESLLGKTNQDAMETLRRSMSTEGNKRGM
IQLIVARRISKCNELKSPGSPPGPELPIETALDDRRERRISHSLYSGIEGLDESPSRNAALSRIMGESGKYQLSPT
VNMPQDDTVIIEDDRLPVLPPLHSDQSSSSSHDDVGFTADAGTWAKAAISDSADCSLSPDVPVLAFQREGFGR
QSMSEKRTKQFSDASQLDFVKTRKSKSMDLGIADETKLNTVDDQKAGSPSRDVGPSLGLKKSSSLESLOTAVAEV
TLNGDIPFHRPRPRIIRGRGCNESFRAAIDKSYDKPAVDDDDDEGMETLEEDTEESSRSGRESVSTASDQPSHSLE
RQMNGNQEKGDKTDRKKDKTGKEKKKDRDKEKDKMKAKKGMLKGLGDMFRFGKHKRDKDKIEKTGKIKIQESFTSE
EERIRMKQEQUERIQAKTREFRERQARERDYAEIQDFHRTFGCDDEL MYGGVSSYEGSMALNARPQSPREGHMMDA
LYAQVKKPRNSKPSPVDSNRSTPSNHDRIQRLRQEFQQAQDEDVEDRRRTYSFEQFPWPANARPATQSGRHSVSVE
VQMQRQRQEERESSQQAQRQYSSLPRQSRKNASSVSQDSWEQNYSPGEGFQSAKENPRYSSYQGSRNGLGHHGF
NARVMLETQELLRQEQRKEQQMKKQPPSEGPSNYDSYKKVQDPSYAPPKGPFQRQDVPPSPSQVARLNRLQTPEK
GRPFYS

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FIGURE 2918

CTATTCTGAAACGTGTTTTGCCCGAGGCCTGGGGTGACGGCACCGCTGTACCTGGGGTGAGGGGAGCTGCCGGGC
CTTTCAGCCCGGTGGTCTCCACGATGCTCCCATCTGTGTGGACGACAATCAGTGTGCGTTTTTCGGTGTTTCAGGC
TGTCCTCCGATCTGAAGGGCCGTCCTACCAGACTAGAAGGAAAAACCGCTCCCTGGGCCGTCCTCCAGCAGGGCTC
TCTGGCTGTTCTCACCAAGAAGGGACGCTCACCTAGGCACCCCATATCTTTTCCAAAGATACCTCTCAAAGACTT
GAAAACAGAGCCAAGAACAAGAACAGACAATGCCGAAGTCTGTGTGGTGCTGAGGAAAATGCTTGCCATCATTG
TCAAAGGGAAGGAAGAAAGGTGCTCCACAAACAAGAAACACCCTCCCTTCCACCTGAGCCGCTCCACAAAGGTCA
CCGTCTTCATGCAGAGTTTCCAACAGACCGAGTTGGCCGCCACAGACAAGGCCTTGTGCAGGACCGCCCTCCAGA
CCTCCTTACAGATGGCAACTGGAGACCAGGGCCTCAAAACCACATTTCCACACTGGCTGAAGCTGCTGCAACTGC
TGCCTGCTTCCAAAATCAGCCTTCAGGCGGCACAGACCCCGCCACAGGAAGCCAGAGTCTCCATGCCCACACACC
ACTGCTGGAACTTGAACCCTACCTTGGCCAAGTCATCCGGCAAACCTCTGGCCTGCAGGCTCTGTTACCCCCACGG
CCCAGCTGCTTTGCCGCCGAGTCCGAGTCCCTCCATCCGGAATCCGCCGAGCCTTCCCGAAGGCGCCGTCCGGGAC
CGCCCGAAGCGCCGGCCAGCGACCAGAAGGCCCAAAGCGTGTATCCAAGCCCGGCTTTTCGCTGGGCACAACCC
TAGTGGGAGCGGTGGGGACAGAGCCAGCTCGGCCAGACGGTCGGCAGGCCCCAGGAGGGCCATGAGTCAGAGGGC
AAGGCTGAAACTGGATTTGGAGATCTTAGCCCAGGCTGACGGAGGCTCCCAAGAAGGGGGAGCAGGCCACACTCA
GCACCCTGCGTGGGAGGGGCACCTGACCGCCAGATGGGCGGTCCACCTGAGCCGCACCCCTTGGAGGGGCCTTTGG
TGCCCTCTGCCGGCCGCTCCATGTGCTGCCTTGGGAAGCAAGTACTCCACTTACTTTGGCTTTTGAAAACATATTTC
CCTAGCCATCGACGAGTACAAGCCCCAGGATGCTACCACCAACCCGTCCCTGATCCTGGCCGCAGCACAGATGCC
CGCTTACCAGGAGCTGGTGGAGGAGGCGATTGCCTATGGCCGGAAGCTGGGCGGCACCTTTGTCCTACAGCTTGAC
ACAGCAAGAATATTCCCTGTTCCCTTAACGCATTTCCAGGACCGTGGCCAATGGCAGACACCAGGTCATTAAACCC
AGTCACAGCTGAATGA

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FIGURE 2919A

AGCCGCCGCCACCCGCCGCCGCCGACACCCGGGAGGCCCGCCAGCCCGCGGGAGAGGCCAGCGGGAGTCGCGG
AACAGCAGGCCCGAGCCACCCGCCGCCGGGCCCCGGACGCCCGCGCGGAAAAGATGAATTTACAACCAATTTTCTGG
ATTGGACTGATCAGTTTCTGCTGTGTGTTTGTCTCAAACAGATGAAAATAGATGTTTAAAAGCAAATGCCAAA
TCATGTGGAGAATGTATACAAGCAGGGCCAAATTGTGGGTGGTGCACAAATTCAACATTTTACAGGAAGGAATG
CCTACTTCTGCACGATGTGATGATTTAGAAGCCTTAAAAAAGAAGGGTTGCCCTCCAGATGACATAGAAAATCCC
AGAGGCTCCAAAGATATAAAGAAAAAATAAAAAATGTAACCAACCGTAGCAAAGGAACAGCAGAGAAGCTCAAGCCA
GAGGATATTACTCAGATCCAACCACAGCAGTTGGTTTTGCGATTAAAGATCAGGGGAGCCACAGACATTTACATTA
AAATTCAGAGAGCTGAAGACTATCCCATTGACCTCTACTACCTTATGGACCTGTCTTACTCAATGAAAGACGAT
TTGGAGAATGTAAAAGTCTTGGAAACAGATCTGATGAATGAAATGAGGAGGATTACTTCGGACTTCAGAATTGGA
TTTGGCTCATTGTGGAAAAGACTGTGATGCCTTACATTAGCACAAACACCAGCTAAGCTCAGGAACCCCTTGCACA
AGTGAACAGAAGTGCACCAGCCCATTAGCTACAAAAATGTGCTCAGTCTTACTAATAAAGGAGAAGTATTTAAT
GAACCTTGTGGAAAACAGCGCATATCTGGAAATTTGGATTCTCCAGAAGGTGGTTTCGATGCCATCATGCAAGTT
GCAGTTTGTGGATCACTGATTGGCTGGAGGAATGTTACACGGCTGCTGGTGTTCACACAGATGCCGGGTTTCAC
TTTGTGGAGATGGGAACTTGGTGGCATTGTTTTACCAAATGATGGACAATGTCACCTGAAAAATAATATGTAC
ACAATGAGCCATTATTATGATTATCCTTCTATTGCTCACCTTGTCCAGAACTGAGTGAAAAATAATATTCAGACA
ATTTTTGCAGTTACTGAAGAATTTAGCCTGTTTACAAGGAGCTGAAAAACTTGATCCCTAAGTCAGCAGTAGGA
ACATTATCTGCAAATTTAGCAATGTAATTCAGTTGATCATTGATGCATACAATTCCTTTCTCAGAAGTCATT
TTGGAAAACGGCAAATTTGTGAGAAGGAGTAACAATAAGTTACAAATCTTACTGCAAGAACGGGGTGAATGGAACA
GGGGAAAATGGAAGAAAATGTTCCAATATTTCCATTGGAGATGAGGTTCAATTTGAAATTAGCATAACTTCAAAT
AAGTGTCCAAAAAAGGATTCTGACAGCTTTAAAATTAGGCCTCTGGGCTTTACGGAGGAAGTAGAGGTTATTCTT
CAGTACATCTGTGAATGTGAATGCCAAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTGATGAAGGAAATGGGACA
TTTGAGTGTGGCGCTGCAGGTGCAATGAAGGGCGTGTGGTAGACATTGTGAATGCAGCACAGATGAAGTTAAC
AGTGAAGACATGGATGCTTACTGCAGGAAAAGAAAACAGTTTCAAGAACTCTGCAGTAACAATGGAGAGTGCCTGTC
GGACAGTGTGTTTGTAGGAAGAGGGATAATACAAATGAAATTTATTCTGGCAAATTTCTGCGAGTGTGATAATTTT
AACTGTGATAGATCCAATGGCTTAATTTGTGGAGGAAATGGTGTGTTGCAAGTGTGCTGTGTGAGTGAACCCC
AACTACACTGGCAGTGCATGTGACTGTTCTTTGGATACTAGTACTTGTGAAGCCAGCAACGGACAGATCTGCAAT
GGCCGGGGCATCTGCGAGTGTGGTGTCTGTAAGTGTACAGATCCGAAGTTTCAAGGGCAAACGTGTGAGATGTGT
CAGACCTGCCTTGGTGTCTGTGCTGAGCATAAAGAATGTGTTTCAAGTGCAGAGCCTTCAATAAAGGAGAAAAGAAA
GACACATGCACACAGGAATGTTTCTATTTTAAACATTACCAAGGTAGAAAGTCGGGACAAATTACCCAGCCGGTC
CAACCTGATCCTGTGTCCCATTGTAAGGAGAAGGATGTTGACGACTGTTGGTTCTATTTTACGTATTCAGTGAAT
GGGAACAACGAGGTTCATGGTTTCAATGTTGTGGAGAATCCAGAGTGTCCACTGGTCCAGACATCATTCCAATTGTA
GCTGGTGTGTTTGTGGAATGTTTCTTATTGGCCTTGCATTACTGCTGATATGGAAGCTTTTAAATGATAATTCAT
GACAGAAGGGAGTTTGTCTAAATTTGAAAAGGAGAAAATGAATGCCAAATGGGACACGGGTGAAAATCCTATTTAT
AAGAGTCCGTAACAACGTGTTCAATCCGAAGTATGAGGGAAAATGAGTACTGCCCCGTGCAAATCCCACAACAC
TGAATGCAAAGTAGCAATTTCCATAGTCACAGTTAGGTAGCTTTAGGGCAATATTGCCATGGTTTTACTCATGTG
CAGGTTTTGAAAATGTACAATATGTATAATTTTAAAAATGTTTTATTATTTTAAAAATAATGTTGTAATTCATGC
CAGGGACTGACAAAAGACTTGAGACAGGATGGTTATTCTTGTGCTAGCTAAGGTCACATTGTGCCTTTTTGACCTTT
TCTTCTGGACTATTGAAATCAAGCTTATTGGATTAAAGTATGATTTTCTATAGCGATTGAAAGGGCAATAGTTAAA
GTAATGAGCATGATGAGAGTTTCTGTTAATCATGTATTAAACTGATTTTTAGCTTTACAAATATGTCAGTTTGC
AGTTATGCAGAAATCCAAAGTAAATGTCCTGCTAGCTAGTTAAGGATTGTTTTAAATCTGTTATTTTGTATTTGCT
CTGTTAGACATGACTGATGACATATCTGAAAGACAAGTATGTTGAGAGTTGCTGGTGTAAAATACGTTTGAAATA
GTTGATCTACAAAGGCCATGGGAAAAATTCAGAGAGTTAGGAAGGAAAAACCAATAGCTTTAAAACCTGTGTGCC
ATTTTAAAGAGTTACTTAATGTTTGGTAACTTTTATGCCTTCACTTTACAAATTCAAGCCTTAGATAAAAAGAACCG
AGCAATTTTCTGCTAAAAAGTCCTTGATTTAGCACTATTTACATACAGGCCATACTTTACAAAGTATTTGCTGAA
TGGGGACCTTTTGAAGTTGAATTTATTTTATTATTTTATTTTGTGTTAATGTCTGGTGTCTTCTATCACCTCTTCT
AATCTTTTAAATGATTTGTTTGTCAATTTTGGGGTAAAGACTTTTTTATGAGTACTTTTTCTTTGAAGTTTTAGCGG
TCAATTTGCCTTTTTAAATGAACATGTGAAGTTTACTGTGGCTATGCAACAGCTCTCACCTACGCGAGTCTTACT
TTGAGTTAGTGCCATAACAGACCACTGTATGTTTACTTCTACCATTGTAGTTGCCCATCTTGTTCACACTAGT

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FIGURE 2919B

CACATTCTTGTTTTAAGTGCCTTTAGTTTTAACAGTTCACTTTTTACAGTGCTATTTACTGAAGTTATTTATTAA
ATATGCCTAAAATACTTAAATCGGA

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FIGURE 2920

MNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPNCGWCTNSTFLQEGMPTSARCDDLEALKKKGC
PPDDIENPRGSKDIKKKNKVNTRNSKGTAEKLPEDITQIQPQQLVLRRLRSGEPQTFTLKFKRAEDYPIDLYYLM
LSYSMKDDLENVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFSYKNVLSL
TNKGEVFNELVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLG GIVLPNDGQ
CHLENNMYTMSHYDYDPSIAHLVQKLSENNIQTIFAVTEEFQPVYKELKNLIPKSAVGTLANSSSNVIQLIIDAY
NSLSSEVILENGKLSEGV TISYKSYCKNGVNGTGENG RKCSNISIGDEVQFEISITSNKCPKKDSDFS KIRPLGF
TEEVEVILQYICECECQSEGIPE SPKCHENGTFECGACRCNEGRVGRHCECSTDEVNSEDMDAYCRKENSSEIC
SNNGECVCGQCVC RKRDN TNEIYSGKFCECDNFNCDRSNGLICGGNGVCKCRVCECNPNYTG SACDCSLDTSTCE
ASNGQICN GRGICECGVCKCTDPKFQGGTC EMCQTCLGVCAEHKECVQCRAF NKGEKKDTCTQECSYFNITKVES
RDKLPQPVQPD PVSHCKEKDVDDCW FYFTYSVNGNNEVMVHVVENPECPTGPDIIPIVAGVVAGIVLIGLALLLI
WKLLMI IHDRREFAKFEKEKMNAKWD TGENPIYKSAVTTVVNPKYEGK

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FIGURE 2921A

GCTTCAGTCCCGCGACCGAAGCAGGGCGCGCAGCAGCGCTGAGTGCCCCGGAACGTGCGTCGCGCCCCCAGTGTC
CGTCGCGTCCGCCGCGCCCCGGGCGGGGATGGGGCGGGCCAGACTGAGCGCCGCACCCGCCATCCAGACCCGCCGG
CCCTAGCCGCGAGTCCCTCCAGCCGTGGCCCCAGCGCGCACGGGCGATGGCGAAGGCGACGTCCGGTGCCGCGGGG
CTGCGTCTGCTGTTGCTGCTGCTGCTGCCGCTGCTAGGCAAAGTGGCATTGGGCCTCTACTTCTCGAGGGATGCT
TACTGGGAGAAGCTGTATGTGGACCAGGCAGCCGGCACGCCCTTGCTGTACGTCCATGCCCTGCGGGACGCCCTT
GAGGAGGTGCCAGCTTCCGCCTGGGCCAGCATCTCTACGGCACGTACCGCACACGGCTGCATGAGAACAACCTGG
ATCTGCATCCAGGAGGACACCGGCCTCCTCTACCTTAACCGGAGCCTGGACCATAGCTCCTGGGAGAAGCTCAGT
GTCCGCAACCGCGGCTTTCCCTGCTCACCGTCTACCTCAAGGTCTTCTGTACCCACATCCCTTCGTGAGGGC
GAGTGCCAGTGGCCAGGCTGTGCCGCGTATACTTCTCCTTCTTCAACACCTCCTTTCCAGCCTGCAGCTCCCTC
AAGCCCCGGGAGCTCTGCTTCCCAGAGACAAGGCCCTCCTTCCGCATTTCGGGAGAACCAGACCCCCAGGCACCTTC
CACCAGTTCCGCCTGCTGCCTGTGCAGTTCTTGTGCCCAACATCAGCGTGGCCTACAGGCTCCTGGAGGGTGAG
GGTCTGCCCTTCCGCTGCGCCCCGGACAGCCTGGAGGTGAGCACGCGCTGGGCCCTGGACCGCGAGCAGCGGGAG
AAGTACGAGCTGGTGGCCGTGTGCACCGTGCACGCCGGCGCGCGAGGAGGTGGTGATGGTGCCCTTCCCGGTG
ACCGTGTACGACGAGGACGACTCGGCGCCACCTTCCCCGCGGGCGTCGACACCGCCAGCGCCGTGGTGGAGTTC
AAGCGGAAGGAGGACACCGTGGTGGCCACGCTGCGTGTCTTCGATGCAGACGTGGTACCTGCATCAGGGGAGCTG
GTGAGGCGGTACACAAGCACGCTGCTCCCCGGGGACACCTGGGCCAGCAGACCTTCCGGGTGGAACACTGGCCC
AACGAGACCTCGGTCCAGGCCAACGGCAGCTTCGTGCGGGCGACCGTACATGACTATAGGCTGGTTCTCAACCGG
AACCTCTCCATCTCGGAGAACCGCACCATGCAGCTGGCGGTGCTGGTCAATGACTCAGACTTCCAGGGCCCAGGA
GCGGGCGTCTCTTGTCTCCACTTCAACGTGTGCGGTGCTGCCGGTCAGCCTGCACCTGCCAGTACCTACTCCTC
TCCGTGAGCAGGAGGGCTCGCCGATTTGCCAGATCGGGAAAGTCTGTGTGGA AAACTGCCAGGCATTAGTGGC
ATCAACGTCCAGTACAAGCTGCATTCTCTGGTGCCAACCTGCAGCACGCTAGGGGTGGTCACCTCAGCCGAGGAC
ACCTCGGGGATCCTGTTTTGTGAATGACACCAAGGCCCTGCGGCGGCCCAAGTGTGCCGAACCTTCACTACATGGTG
GTGGCCACCGACCAGCAGACCTCTAGGCAGGCCCAGGCCAGCTGCTTGTAACAGTGGAGGGGTATATGTGGCC
GAGGAGGCGGGCTGCCCCCTGTCTGTGCAGTCAGCAAGAGACGGCTGGAGTGTGAGGAGTGTGGCGGCCTGGGC
TCCCCAACAGGCAGGTGTGAGTGGAGGCAAGGAGATGGCAAAGGGATCACCAGGAACCTTCTCCACCTGCTCTCCC
AGCACCAAGACCTGCCCCGACGGCCACTGCGATGTTGTGGAGACCCAAGACATCAACATTTGCCCTCAGGACTGC
CTCCGGGGCAGCATTGTTGGGGGACACGAGCCTGGGGAGCCCCGGGGGATTAAAGCTGGCTATGGCACCTGCAAC
TGCTTCCCTGAGGAGGAGAAGTGCTTCTGCGAGCCCGAAGACATCCAGGATCCACTGTGCGACGAGCTGTGCCGC
ACGGTGATCGCAGCCGCTGTCTCTTCTCCTTCATCGTCTCGGTGCTGTGTCTGCCTTCTGCATCCACTGCTAC
CACAAGTTTGCCACACAAGCCACCCATCTCCTCAGCTGAGATGACCTTCCGGAGGCCCCGCCAGGCCTTCCCGGT
AGCTACTCCTCTTCCGGTGCCCGCCGGCCCTCGCTGGACTCCATGGAGAACCAGGTCTCCGTGGATGCCTTCAAG
ATCCTGGAGGATCCAAAGTGGGAATTCCCTCGGAAGAACTTGTTCTTGGA AAAACTCTAGGAGAAGGCGAATTT
GGAAAAGTGGTCAAGGCAACGGCCTTCCATCTGAAAGGCAGAGCAGGTACACCACGGTGGCCGTGAAGATGCTG
AAAGAGAACGCCTCCCCGAGTGAGCTGCGAGACCTGCTGTGAGAGTTCAACGTCTGAAGCAGGTCAACCACCCA
CATGTTCATCAAATTGTATGGGGCCTGCAGCCAGGATGGCCCGCTCCTCCTCATCGTGGAGTACGCCAAATACGGC
TCCCTGCGGGGCTTCCCTCCGCGAGAGCCGCAAAGTGGGGCCTGGCTACCTGGGCAGTGGAGGCAGCCGCAACTCC
AGCTCCCTGGACCACCCGGATGAGCGGGCCCTCACCATGGGCGACCTCATCTCATTTGCCTGGCAGATCTCACAG
GGGATGCAGTATCTGGCCGAGATGAAGCTCGTTTCATCGGGACTTGGCAGCCAGAAACATCCTGGTAGCTGAGGGG
CGGAAGATGAAGATTTCCGATTTCGGCTTGTCCCGAGATGTTTATGAAGAGGATTCTTACGTGAAGAGGAGCCAG
GGTCGGATTCCAGTTAAATGGATGGCAATTGAATCCCTTTTTTGATCATATCTACACCACGCAAAGTGTATGTG
TCTTTTGGTGCTCTGCTGTGGGAGATCGTGACCCTAGGGGGAAACCCCTATCCTGGGATTCTCCTGAGCGGCTC
TTCAACCTTCTGAAGACCGGCCACCGGATGGAGAGGCCAGACAACCTGCAGCGAGGAGATGTACCGCCTGATGCTG
CAATGCTGGAAGCAGGAGCCGGACAAAAGGCCGGTGTGTGCGGACATCAGCAAAGACCTGGAGAAGATGATGGTT
AAGAGGAGAGACTACTTGGACCTTGCGGCGTCCACTCCATCTGACTCCCTGATTTATGACGACGGCCTCTCAGAG
GAGGAGACACCGCTGGTGGACTGTAATAATGCCCCCTCCCTCGAGCCCTCCCTTCCACATGGATTGAAAACAAA
CTCTATGGCATGTGACACCCGAACCTGGCCTGGAGAGAGTCTGTACCACTCACGAGAGCTGATGGCACTAACACT
GGGTTTCCAAGATATCAAATGATAGTGATATGCTAACTGGATGCTTTCACCTCAGCGGCAAAATTAATGGAC
ACGTTTGATAGTTAACATTTCTTTGTGAAAGGTAATGGACTCACAAGGGGAAGAAACATGCTGAGAATGGAAAGT

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FIGURE 2921B

CTACCGGCCCTTTCTTTGTGAACGTCACATTGGCCGAGCCGTGTTTCAGTTCCTCAGGTGGCAGACTCGTTTTTGGT
AGTTTGTTTTAACTTCCAAGGTGGTTTTACTTCTGATAGCCGGTGATTTTCCCTCCTAGCAGACATGCCACACCG
GGTAAGAGCTCTGAGTCTTAGTGTTAAGCATTCCCTTCTCTTCAGTGCCAGCAGCAGCCAGTGTTGGTCTGTG
TCCATCAGTGACCACCAACATTCTGTGTTACATGTGTGGGTCCAACACTTACTACCTGGTGTATGAAATTGGAC
CTGAAGTGTGGATTTTTCTAGTTGCCGCCAAACAAGGCAAAAAAATTTAAACATGAAGCACACACAAAAAG
GCAGTAGGAAAAATGCTGGCCCTGATGACCTGTCTTATTCAGAATGAGAGACTGCGGGGGGGCCTGGGGGTAG
TGTCAATGCCCTCCAGGGCTGGAGGGGAAGAGGGGCCCGAGGATGGGCCTGGGCTCAGCATTGAGATCTTGA
GAATGATTTTTTTTAAATCATGCAACCTTTCCCTTAGGAAGACATTTGGTTTTTCATCATGATTAAGATGATTCCTA
GATTTAGCACAATGGAGAGATTCCATGCCATCTTACTATGTGGATGGTGGTATCAGGGAAGAGGGCTCACAAGA
CACATTTGTCCCCCGGGCCACCACATCATCCTCACGTGTTCCGTACTGAGCAGCCACTACCCCTGATGAGAACA
GTATGAAGAAAGGGGGCTGTTGGAGTCCCAGAATTGCTGACAGCAGAGGCTTTGCTGCTGTGAATCCCACCTGCC
ACCAGCCTGCAGCACACCCACAGCCAAGTAGAGGCGAAAGCAGTGGCTCATCCTACCTGTTAGGAGCAGGTAGG
GCTTGTACTCACTTTAATTTGAATCTTATCAACTTACTCATAAAGGGACAGGCTAGCTAGCTGTGTTAGAAGTAG
CAATGACAATGACCAAGGACTGCTACACCTCTGATTACAATTCTGATGTGAAAAAGATGGTGTGTTGGCTCTTATA
GAGCCTGTGTGAAAGGCCCATGGATCAGCTCTTCCCTGTGTTTGTAATTTAATGCTGCTACAAGATGTTTCTGTTT
CTTAGATTCTGACCATGACTCATAAGCTTCTTGTCACTTCTTCATTGCTTGTGTTGGTTCACAGATGCACAACACT
CCTCCAGTCTTGTGGGGGCAGCTTTTGGGAAGTCTCAGCAGCTCTTCTGGCTGTGTTGTGTCAGCACTGTAACCTCG
CAGAAAAGAGTCGGATTACCAAAACACTGCCTGCTCTTCAGACTTAAAGCACTGATAGGACTTAAATAGTCTCA
TTCAAATACTGTATTTTATATAGGCATTTACAAAAACAGCAAAATTGTGGCATTGTTGTGAGGCCAAGGCTTGGA
TGCGTGTGTAATAGAGCCTTGTGGTGTGTGCGCACACACCCAGAGGGAGAGTTTGAAAAATGCTTATTGGACACG
TAACCTGGCTCTAATTTGGGCTGTTTTTCAGATACACTGTGATAAGTTCTTTTACAAATATCTATAGACATGGTA
AACTTTTGGTTTTTCAGATATGCTTAATGATAGTCTTACTAAATGCAGAAATAAGAATAAACTTTCTCAAATTATT
AAAAATGCCCTACACAGTAAGTGTGAATTGCTGCAACAGGTTTGTCTCAGGAGGGTAAGAACTCCAGGTCTAAAC
AGCTGACCCAGTGATGGGGAATTTATCCTTGACCAATTTATCCTTGACCAATAACCTAATTGTCTATTCTGAGT
TATAAAAGTCCCCATCCTTATTAGCTCTACTGGAATTTTCATACACGTAAATGCAGAAGTTACTAAGTATTAAGT
ATTACTGAGTATTAAGTAGTAATCTGTCAGTTATTAATAATTTGTAAAATCTATTTATGAAAGGTCATTAAACCAG
ATCATGTTCCTTTTTTTTGTAATCAAGGTGACTAAGAAAAATCAGTTGTGTAAATAAAATCATGTATC

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FIGURE 2922

GATGAGAGCATTACCTCCAGCTGCAGAAGAAACACAGGGACAAGATGCTGCGCATGCAGAAAGGTGACCCACAA
GTCTATGAAGAACTTTTCAGTTACTTCTGCCCCAAGTTCCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCAC
CCCAACTACCACAAAGAGCCCTTCCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCCAGCTT
TCAACCATCCACAGCTTCCTCAAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACA
GAGCAGGAGTTTCAGGATCCAGCTTCTTGTCTTCAAACACAAGATGAAGAACCTGGTGTGGACCAGCGGCATCTCA
ATCCTGGATGGTGAATTTTCAGTCAGCCTCAGAGGTTGACTTCTACATTGATAAGCTTAATCGAACCCCTGAAGAAG
ATGGGACAGAGACCCTGATGACATTCACACACATTATTTAGGAACCTGTTTTGATATATTACAGGCAGGAAGTGT
TTTTGCTACCGTGAAACCTTTACCTAGATCAGCCATCAGCCTGTCTACTCAGTTAACAAGTTAAGGACCGACGTG
TTTCAAGTGGATATCAGTAAAGGATCTTTGGAGCC

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FIGURE 2923

ATGAAGGAAGACTGTCTGCCGAGTTCTCACGTGCCCATCAGTGACAGCAAGTCCATTTCAGAAGTCGGAGCTCTTA
GGCCTGCTGAAAACCTACAACCTGCTACCATGAGGGCAAGAGCTTCCAGCTGAGACACCGTGAGGAAGAAGGGACT
CTGATCATCGAGGGGCTCCTCAACATTGCCTGGGGGCTGAGGCGGCCCATCCGGCTGCAGATGCAGGATGACCGG
GAGCAGGTGCACCTCCCCTCCACCTCATGGATGCCCAGACGGCCTAGCTGCCCTCTAAAGGAGCCATCGCCCCAG
AACGGGAACATCACAGCCAAGGGGCCAAGCATTTCAGCCAGTGCACAAGGCTGAGAGTTCCACAGACAGCTCGGGG
CCCCTGGAGGAGGCAGAGGAGGCCCCCAGCTGATGCGGACCAAGAGCGACGCCAGTTGCATGAGCCAGAGGAGG
CCCAAGTGCCGCGCCCCCGGTGAGGCCCAGCGCATCCGGCGACACCGGTTCTCTATCAACGGCCACTTCTACAAT
CATAAGACCTCCGTGTTTACTCCAGCCTATGGATCCGTGACCAATGTGAGGGTCAACAGCACCATGACAACCCTG
CAGGTGCTCACCTGCTGCTGAACAAATTTAGGGTGGAAGATGGCCCCAGTGAGTTCGCACTCTACATCGTTCAC
GAGTCTGGGGAGCGGACAAAATTAAAAGACTGCGAGTACCCGCTGATTTCCAGAATCCTGCATGGGCCATGTGAG
AAGATCGCCAGGATCTTCTGATGGAAGCTGACTTGGGCGTGGAAGTCCCCCATGAAGTCGCTCAGTACATTAAG
TTTGAAATGCCGGTGCTGGACAGTTTGTGTTGAAAAATTAAAAGAAGAGGAAGAAAGAGAAATAATCAAACCTGACC
ATGAAGTTCCAAGCCCTGCGTCTGACGATGCTGCAGCGCCTGGAGCAGCTGGTGGAGGCCAAGTAA

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FIGURE 2924

MKEDCLPSSHVPISDSKSIQKSELLGLLKTYNCYHEGKSFQLRHREEEGTLII EGLLNIAWGLRRPIRLQMQDDR
EQVHLPSTSWMPRRPSCPLKEPSPQNGNITAKGPSIQPVHKAESSTDSSGPLEEAAEEAPQLMRTKSDASCMSQRR
PKCRAPGEAQRI RRHRSINGHFYNHKT SVFTPAYGSVTNVRVNSTMTTLQVLTLLL NKFRVEDGPSEFALYIVH
ESGERTKCLKDCEYPLISRILHGPC EKIARIFLMEADLGVEVPHEVAQYIKFEMPVLDSFVEKLKEEEEREI IKLT
MKFQALRLTMLQRLEQLVEAK

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FIGURE 2925

CACACTGCTCAGGGAAGAGCCTGCTACGGTGGACTGTGAGACTCAGTGCACTGTCCTCCTCCCAGCGACCCACG
CTGGACCCCTGCGGACCCCTCCACCCCTTCGGCCCCCAAGCTTCCCAGGGGCTTCCTTTGGACTGGACTGTCCCT
GCTCATCCATTCTCCTGCCACCCCCAGACCTCCTCAGCTCCAGGTTGCCACCTCCTCTCGCCAGAGTGATGAGGT
CCCGGCTTCTGCTCTCCGTGGCCCATCTGCCACAATTGGGAGACCACGGAGGAGATGCTGCTTGGGGGTCTTG
GACAGGAGCCCCACCCCTCTCCTAGCCTGGATGACTACGTGAGGTCTATATCTCGACTGGCACAGCCCACCTCTG
TGCTGGACAAGGCCACGGCCAGGGCCAACCCAGGCCACCCACAGGCCAGCCAGGCCCTGCCGGAAGGGCCGCC
CTGCTGTGTCCCTGCGAGACATCACCGCACGTTTCAGTGGCCAGCAGCCACACTGCCCATGGCTGATACTGTGG
ACCCCTGGACTGGCTTTTTTGGGGAGTCCCAGGAAAAGCAGCCAAGCCAGAGGGACCTGCCAAGGAGGACTGGCC
CCTCTGCTGGCCTCTGGGGTCCACATAGACAGATGGACAGCAGCAAGCCCATGGGGGCCCCCAGAGGGAGGCTCT
GTGAAGCCAGGATGCCTGGGCATTCCCTGGCAAGACCACCGCAGGATGGGCAGCAGAGCTCTGACCTAAGAAGCT
GGACTTTTGGGCAGTCTGCCAAGCCATGGCCTCCCGCCACCGCCCCCGCCCCAGCAGTGTCTCAGAACACTCT
ACTCGCACCTCCCGGTGATCCATGAACTCTGACCCCTCCCCAGTAAAGGCTTCTGTAGAGAGCATGCTGGGTCTG
CATCTCCTCTCGTCTCCTCCATGGTGGTCACTGCCCCTGGCAGGTCTCTGAAAGGGAAATGCTTTTCTGCAGAGG
CCCCTGCTTGGGCAGTTCACAGTGAGACCGACCCCTCTGAATATGATAACAGCCTGTTTCACATGAGGAGATGT
TACCAATCCCGTTTCGCTCTGACCCTTGCTGGCTGATCACCTTGAGCAACTTACTTAACATCTGTGTTTCTCAGTT
TCTCATGGGTAATATAGGGATAATTACTGGCACCTGCCTCCCAGGCCATTCTGACGTGTAACCGCATATAGGAGC
CCACTGGCTGAGTAGCTACCATCATCGCTGGTGGGGAACTGGTGGTAGGGGTGTGAGGGTAGTGGGGGTGTCAG
CCCCCAGGTGTTTCAGAACAAGGCCCTCGGGCACTCCCAAGTCTGCCTCTTGGCTCCCACCTCAAAGCCCATGT
TCTGTGAGGCCCAAGAGAACACATGGAGTCTTAGCAAATGCACTAATGTATTCCGGGGGACTGTACCTGGCACC
ACTGGGGCACTCTGCTGGCTACAACCTACATCGTCTGTGGTGGCATTGGGAGAGTTCCCCCATGATGAGGGCCAA
GATAGAATCTGTACCACTCAGTGCTACCATCCCCACCCCTACACCACTTCCACACAGGGGCCTCATGGCATGGTC
AGGGTCCCAGCTGTGGGTGAGAGCAGGGCACTGTCCAGCTGTCCACTGGGGAAGTCAAGATGTCCTAAGGCCCAG
GTCAGGGCATCTGGAGTCTGAAGGACCCTAGTTTCTAGAGGCATCTGGCAGCAAGAAGGTGAGGCATCAGGGAAC
GGGAATCAGGCTGGGACTGATCAGAGGTGAAGGGACAGAGAGAGGAGAGGAGGAAGATTGAGCTGGGGGCAACAG
CCAAGCTCACCTGGGCAGGTCTCTGCCACCTCCTTGCTCTGTGAGCTGTCAGTCTAGGTTATTCTCTTTTTTTGT
GGCTATTTTTTAATTGCTTTGGATTTGTTAAATGTTTTCTGTCTTCTGTTAAGTGTGTTTTCTCTGGAGATAGAAT
GTAAACCATATTAAAAGGAAAAAGTTTTAGACAAGCAATTACCCAGTTTCCTTATCTATAAAATGGGGACATCAG
CAATGTTCTTCACACCTGCAAGGGCTGGGAATCTGCGCATGTGAACCTTGAGCTGCATTTATGAGCACTGTAGA
CAAATGTTTGTATCTGTCAC

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FIGURE 2926

GTCGTGGAAGCAGGACTGCGCCGCGTCTTCCTCAAGGTGGGGTTCGGGGGGCCACCGAATCGCTGTCACGCCGGC
AGGTTGAGAACAAAAACATGCACCTGGAGTTTCCCCGGAGCCCTCTGCGTGGTTGAGCTTCGGTGGAATTTCTGGG
GCTCTTGGCTGCCAGCCGCGCTTGCCTGGTAGCAACAGAAACAGTCCTGCTCGCCTCCGTGGACATTTTCATTAC
CATCCAGAAGTGTCTCCCACTGAAGGCATCCGTGGTTGTTTTTAAGCCACAAAAAGCCACACCCAAGATCACCT
GACACCCACCCTGACAAGTGTCCATGATGCTGGGCCCTGAGGGAGGTGAAGGCTTTGTGGTCAAGCTCCGTGGCC
TGCCCTGGTCTGCTCTGTTGAGGACGTGCAGAACTTCCTCTCTGACTGCACGATTCATGATGGGGCCGCAGGTG
TCCATTTTCATCTACACTAGAGAGGGCAGGCAGAGTGGTGAGGCTTTTGTTGAACTTGGATCAGAAGATGATGTAA
AAATGGCCCTGAAAAAGACAGGGAAAGCATGGGACACCGGTACATTGAGGTGTTCAAGTCCCACAGAACCGAGA
TGGATTGGGTGTTGAAGCACAGTGGTCCCAACAGTGCCGACAGCGCCAACGATGGCTTCGTGCGGCTTCGAGGAC
TCCCATTGATGCACAAAGGAAGAAATTGTTTCAGTTCTTCTCAGGGTTGGAAATTGTGCCAAACGGGATCACAT
TGCTGTGGACCCCGAAGGCAAGATTACAGGGGAAGCGTTTCGTGCAGTTTGCCTCGCAGGAGTTAGCTGAGAAGG
CTCTAGGGAAACACAAGGAGAGGATAGGGCACAGGTACATTGAGGTGTTTAAGAGCAGCCAGGAGGAAGTTAGGT
CATACTCAGATCCCCCTCTGAAGTTCATGTCCGTGCAGCGGCCAGGGCCCTATGACCGGCCCGGGACTGCCAGGA
GGTACATTGGCATCGTGAAGCAGGCAGGCCTGGAAAGGATGAGGCCTGGTGCTACAGCACAGGCTACGGGGGCT
ACGAGGAGTACAGTGGCCTCAGTGATGGCTACGGCTTACCACCGACCTGTTTCGGGAGAGACCTCAGCTACTGTC
TCTCCGGAATGTATGACCACAGATACGGCGACAGTGAGTTACAGTGCAGAGCACCACAGGCCACTGTGTCCACA
TGAGGGGCTGCCGTACAAAGCGACCGAGAACGACATTTACAACCTTCTTCTCTCTCAACCCTGTGAGAGTCC
ATATTGAGATTGGCCAGATGGAAGAGTGACGGGTGAAGCAGATGTTGAGTTTGCTACTCATGAAGAAGCTGTGG
CAGCTATGTCCAAAGACAGGGCCAATATGCAGCACAGATATATAGAATCTTCTTGAATTCAACAACAGGGGCCA
GCAATGGGGCGTATAGCAGCCAGGTGATGCAAGGCATGGGGGTGTCTGCTGCCAGGCCACTTACAGTGGCCTGG
AGAGCCAGTCAGTGAGTGGCTGTTACGGGGCCGGCTACAGTGGGCAGAACAGCATGGGTGGCTATGACTAGTTTT
GTTAGGAACATTTGAGTTACTTCAATCATTTTCACAGGCAGCCAACAAGCAATTAAGAGCAGTTATAATAGAGGA
AGCTGGGGGACCCATTTTGCACCATGAGTTTGTGAAAAATCTGGATTAAAAAATTACCTCTTCAGTGTTTTCTCA
TGCAAAATTTTCTTCTAGCATGTGATAATGAGTAACTAAACTATTTTCAGCTTTTCTCAATTAACATTTTGGT
AGTATACTTCAGAGTGATGTTATCTAAGTTTAAAGTAGTTTAAAGTATGTTAAATGTGGATCTTTTACACCACATCA
CAGTGAACACACTGGGGAGACGTGCTTTTTTGGAAACTCAAAGGTGCTAGCTCCCTGATTCAAAGAAATATTTT
TCATGTTTGTTCATTCTAGTTTATATTTTCATTTAAATCCTTTAGGTAAAGTTTAAAGCTTTTAAAAGTTAGTT
TTGAGAATTGAGACACAATACTAATACTGTAGGAATTGGTGAGGCCTTGACTTAAACTTTCTTTGTACTGTGAT
TTCCTTTTGGGTGTATTTTGCTAAGTGAACTTGTTAAATTTTTTGTTAACTAAATTTTTTCTTAAATAAAGA
CTTTTTCACAATGACTGGCACAGATTACTCAGCAAAAGATAGCAAAACGGGTGGTTGAAGATAATTCATTTTAAAT
CGTAATGTATTTTAGTGTGAATTTAAAAATTTTCATACATCAAATCTATGATCTCCCTTATATTTCTTATGATGAGG
CTAAATAAAAGTCTAATAAAAAATGTTAAATATGTGAATGGTGGAATGGTGACTAGCAGCACACATTTCTGGGAAG
CATCAAATAGACACACGGCCCCAGCCACCTGCAACTTATGTGCACTGTTGTAAACCATTTCAGAAATTTCTGCTA
GGCCCTTGATGCTGGAGTCACATCTGTTGATAGCTGGAGAACTTTAGTTTCAAGTACTACATTGTGAAAGCAATT
ATTTTGTCTAGTTTTTATAAAATGCTGATTTAACTTTT

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FIGURE 2927

CGTGTGCACCCTAGCGTCAGCCTCGAGTTTGACCAGCAGCAGGGGTCGGTGTGTCCCTCTGAATCTGAGATCTAT
GAGGCAGGAGCTGAGGACAGGATGGCAGGAGCGCCCATGGCTGCTGCTGTACAGCCTGCTGAGGTGACTGTTGAA
GTTGGTGAGGACCTCCACATGCACCACGTTTCGTGACCGGGAGATGCCTGAAGCTTTGGAGTTTAACCTTTCTGCC
AATCCAGAGGCAAGCACAAATATTCCAGAGGAACTCTCAAACAGATGCTTTGGAGTTTAACCTTTCTGCCAATCCA
GAGGCAAACACAATATTCCAGAGGAACTCTCAAACAGATGGTGAGACGACATTGTTTTTTCCGCCAAGAGAAAGA
ATAAAATCTCTTGTTTGATCAGGTT

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FIGURE 2928

MGNILTCRVHPSVSLEFDQQQGSVCPSESEIYEAGAEDRMAGAPMAAAVQPAEVTVEVGEDLHMHHVRDREMPEA
LEFNLSANPEASTIFQRNSQTDALFNPSANPEANTIFQRNSQTDGETTLFFPPRERIKSLV

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FIGURE 2929

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTTATT
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACAGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACGAAGAAAATGCCCAGAAGAGAAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAACCTCCACTAGAGCCGCCACCAATAGCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAAGAG
CACTTTGATATAATGCCTCATTTCGGAACCTTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAACATGATGATTGATCTGGCTAAAGT
AGCAGATCTGGTAAGTGAGCAGGGGCAGCCTGGGGTGCTGATGGAGACTTACAGCATTGTGATAGGTTATTTACC
CCGTGATGAAGGGAAGAGAGTTTTGTGATTATTAAAAGGATCATGGTCATTATCAGGGATATAGTAGATGTGATT
GAATTGATGATGATAATAATAATAGTAATAAATGTTGTCATATTAATAATAACAAATGGAATGTGCACAATGAAAT
GTGTTCCAAAATCTAAAAGCAGATCACAGGA

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FIGURE 2930

ATGGCATTCAAGACCCTTTGTGGTGAGGTAGATGAGCGTCAGGAAGGATCATCCTCCTCATCCGCAGATCCAACA
GCCGGTAACATTCCGGCCTACAGCACGTCCCTACCTCAGCTGAACCGCTGGGACCAACACGCCGTACCGCAGCCG
CGCACGCCCAGCACGCCACTCCCGGCCTGCCCCGGGGCCTGACGTCATCACATCGCGACGCTCGCTGATCCCGCCC
GGATTACCTGGGCTCTGGACGAGAAGCGCCTCGTCCCTTAGCCACACCCCCGGGGAGCCAGGGGCATCTGGCAT
CCGGCAAGTGGCAGCTCCCTCATCATCTGTCTGATCCAAATTCAACCCACATTTCAGCCAGCTCTGAAGGTACGG
CTGGCTGTATGTGGCAAACAGAGCAGCCACGACCACAACTGCCGGGACTTCACAATTGGCTTTGTAGTTTTGCT
GAGGGACTGTCCAGGTTTGGAGAAGTCCTAGCCTATCACAGGGATACCTGGTTTGAAGTCTGTGACCTCATATCTT
TACCGTGACCTCGGTGGGCCAGAGATGCAGGCAGCTGGCCATGAAGACGCACCTTCCCCGAGGAAGAGGAGACAGG
CTCACCCGCTGCAGGGCAGTCCCACAGCCTGCCTGCAATGGAGCCTTCAAGAATACAAACACTTCTAGAACAAGT
TATCAGGAACATGGCATGGTTGGGCCTTCTCTGAACGGGCCCCAGGGTAAGCCATCTGATAAGGGAGAAACATCT
GCCAACACCCTCAGCCACAGCGTCACTGGGCTCAAGGGCCACAAAGGAGGCAAAAGCCTGCAGGGAAAAGAAATC
CAAGACAGTAAAACAGAAGAACGAGTATTTGCCTGTAAGTATCTGTGTCAGAGGTTCTCTGGTGAGGTGCCAGAG
CACCCAGGACCAGCACACAAGACACAGTCATACTGAGATGGAGGACAAGGTTCCCTACAGGGACGAAGATGAG
ACAACAGAGCGACAAACACAGGAAAGTGACTTCAGGCATCCATTAGGAGGGACAAGCAGTAGCCCTACTTATGGG
TGGCAAGATGTACCTTCATTCTGGCAAAGCTGATTGAAGAATGCAGCATTAGATGTGCAGCTATACAGACCTGC
CAGATCAACAAGCCCTCGGGCAATGCCTATGATGCTGCTTCACTGGCTGCACAGTCACAGGGACCTCCCCAGAAC
TGCTGTGCAAAGGGTCAACTTCCCAGACCCCCAGAGGCCAATGTCTTCATGGTGCTCCTGGTGGAGCCACCAGCT
GCTCCCAGCCCGGCTGCCACACAGAGAGTACGGCAGCCTCACACTGCTGGTTATCCCAGAGGCTTGAGCAGGGT
TGGAGGGATGAAGCAGGCCTGGACTGCGTCCTTAGGAAGACAGAAGCCATCGTCGATATGGCCGTTCCCTTGTC
CCTCCCTCCTGCTCCTACAGCAAGCATAACCAGGGCTGACTCCTCTCCACACCGCAGCATGGAGAATTCAGAGGGC
AATAATAGCAACTGCTTGCTTGTAAGTGCTTGGAGCTCAGAGGAGAAAAGGTGTCAGACAAGTGTAAGTGTAAATGTTA
CTACTGGCACAGGCCAGAGGATGGAATGGAAATCCCAGCAGAAATTGGGAACTCAGAGGAAGCCATTTGTGAGC
TCCTCTGAACAAATGGATACAGGAAAAGGGGCCTTCTCTGGCAGCCAGGCACAGCCCAGACCACTGCTGCCCCAC
AGCCCTCACCAAGAGAGGAACATAGAGGGGAAGCGGGGAGGGGAGGAGGCTAGTAATATAGCTCATAGTCAG
ACTCAGACCAATCTGCTGGTCTTGGACAAGGAGTTTTGTGAGCAGAGAACTCATGCTGCTCTCCTTGGGCACATG
GAAATTGGAATCCTAAGAGTCCTCACAAAGCCCCAGAGAAATCTGGCCATTCTCCAGGGGACCGAGCATCCCC
ATGGTGCTGCATGGGAGTCCCCAGAAGCTACCACCCCCCAACCAGCTTTGGACACCCCTGCTCTTATTTTCTGCA
TCCCCAGAACTACCTGCCCTAGTGCTGAGCTCATGGAAGTTCCTCAGGAAGCATCTTCACATGGATGTTGAAGAG
AAAAAATCTCCAGGTCCCACGGGGTGCTGTGGGAGTCCAAAATCAGGACTCCAAAAGGCCTGTGA

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FIGURE 2931

AGTGCTCTTGGCCGGGAGGAGGCTGTGCTGCACCAGCACCTCTTGCTCCACATCTCCAGAGAGCCCAGGGCCCTG
TGGCCGAGTGTGTCCAGCCCAGTGTTCATGGGGAGCTTCCATATCTCATGGCTCCTTGCTGGGCCAAGCCCTCCAG
AACCCCAAAACCCCAAAAGACTGATGA**ATGCC**CAGAGTGGCCACCTTGCTTATCTGTGGCCCCGGCCCTGGTGATCA
CCATGGCAGCTGGGAAGGGAGCCCCGTTGAGCCCATCGGCTGAAAACAGATGGCGACTTAGCGAACCTGAGCTGG
GCCGGGGCTGCAAGCCAGTGTGCTCGAGAAGACGAACCGCCTGGGCCCTGAGGCTGCTGTGGGCAGGGCGGGCC
GGGATGTGGGCAGTGCAGGAGCTGGCACTGTTGGTAGCCCCAGGCAAGCCCCGACCTGGCAAGCCGCTGCCCCCGA
AGACACGTGGAGAGCAGAGGCAGAGCGCCTTCACGGAGCTGCCGAGGATGAAGGACCGGCAGGTGGATGCTCAGG
CCCAGGAGAGGGAGCACGATGACCCACAGGCCAACCTGGTGCCCCACAGCTGACCCAGAACATCCCCAGAGGCC
CAGCTGGCAGCAAAGTCTTCTGTGTGGCCCCAGCGAGCACGAAGTGAGCAAAGAAGCGCCTTTAGCAAACCAA
CCAAGCGACCAGCAGAGAGGCCTGAGCTAACCTCAGTCTTCCCTGCAGGGGAATCTGCAGATGCCCTGGGGGAGC
TGTCTGGACTCCTCAACACTACAGACCTCGCTTGTGGGGTCGACTTTCAACTCCCAAGCTTTTGGTTGGTGATT
TGTGGAACCTTGCAAGCATTGCCACAGAATGCTCCACTCTGTAGCACTTTTCTGGGTGCCCTACACTGTGGCTGG
AGCATACCCAGGCCCAGGTGCCCCACCCTCATCATCTCCACCACCTTCGTGGGCCCTCCTGCCACCACCCTCA
CCTCCCTGGGCTTGTCCACCCAGAAGTGGTGTGCAAAGTGCAACCTGTCCTTTTCGCCTAACGTCCGACCTGGTCT
TTCACATGCGATCCCAACCAAAAAGGAGCATGCGGGGCCTGACCCACATTCTCAGAAGCGGAGAGAAGAGGCC
TTGCCTGCCCTGTGTGCCAGGAGCACTTCCGGGAGCGCCACCACCTCTCCGGGCACATGACTTCTCACAGCT**TAGC**
AGGTGACCGCAGAATGACCTGCTGGGTGCAGCAGCCAGCCTTTGGCAGAGGGGGGCTCCCTGGGCCTGCGTTGAG
GGGGCTGTCTATGGTCCTTTGCAGAGCTGCTGCTTTTGGCATTATAGATAAACAGCTCAGGCATAATTTGAAAAA
GCCACACCTGCATGATGTGTTTTGAAGGAAATGAAGTCCTGAAATAAAGTGATGGGCTTTGCAAATCCAGGGTAG
AGGCCCTAACAGGCACAGAGAGCAGGGGCAACTCCTGGCACACATCATGGGCTTTGGAGGCACACAAGCCTGGAT
TCGAATCTGGGCTCTTTACATACTAGCTGTGACCCCTGGACAAAGAGCTTTAACCTGCTGAGTCCCCATTTTCTC
ATCTGTGAAATGGAGATGATAACACTGTGTCTTAGGTTGGCATTACAGGTCACATGAAAGGTGTGTGGAAAGTGGC
CAGCATTCTGCCTGCAGACCCTGAGCACTGAGTCAACAAGGTTTGTGATGATGTCTGTACTAGTTAGCTATTGTT
ATTAACAAGATCTCCATGGCAGACAAGCTAAAGCATCTGCCTAAGTCGTGAGTCTGTGGGTTGGCTCAGGTTAAG
CTGAGCAGGTGGGGATCTCAGCCAGCCTCCCAGACTGCACCTCTTCTATTGCTCTCCTCTGTCCACCGTTCCAGG
CAGCAGCACTCCACCTGGCTGCTCTGATGTCCTCGCTCCCTCCATTCTGCTCTCACCATGCACGCATCCATT
GTCCACACACACAACCAGATAATCTTCTGAAAGTGTAAGTCAAGATGATGCCTCCAACCTGTGGCTGCCCTTC
ACACTTACAGGCCTAACCCAGCAGGACCTGCCAGCTGCTTCATGAACAAGTCCCTGCCTCATGTTAATTGCAAG
CACTCATTTCACTCTCCCTGTGTGCCAGGCAATAGCATAAGCACTGGAAGAATACAGATGTTATAGTGAGTCCTA
CAATAGCCCTGGAAGGCAAGAGCTGTTTCCCTTCCATTTCTACAATGAGTCAATTGCAGATGATGCTATAACACT
TCCAGTGTTTCTGACACTTCCCTGAAGCTATACCTGCTACCTTCATGGGCCGAGCTTGCCCTTATGAGGCCCA
GGTGGCAGTGGGCAGAGGGGACCCGCTATACCACCTCGCTGCTGTTCCACTGTCTGCTCCCGTGTTCTGACCAC
AGCTCTGGTGCCGTTTCTCAAGCCTGGGCTTCATTCAACATTTTCTATCTAGCTCTTCATGGTGCTGCTCCTGCT
ATGGTTCCACAGGGCTTCTTCTCGCAGGTCAGCTCCTTAGAGAGGTCTCCAGATTCCCCGTAAAGCAGCCCTGC
AGCCTCTGCCTCTCTCAGCCGCATCACCTGTTGCTTCCTTCACAGCATGTCTCACCATCTGCAACCATCTTTCT
GTTTGTGCTCTTGTGATTGTGCTGCCCTCCACACTGTCAGCTCCTTGGGAACAGAGATTGGTTTGTGTTACTGTGCA
TCCCTGGTGCCCAGAACAGGGCATGGCATATTGTTGGTGCATAATAAATATTGTGGAAAT

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FIGURE 2932

MPFWPPCLSVAPALVITMAAGKGAPLSPSAENRWRLSEPTELGRGCKPVILLEKTNRLGPEAAVGRAGRDVGS AELA
LLVAPGKPRPGKPLPPKTRGEQRQSAFTELPRMKDRQVDAQAQEREHDDPTGQPGAPQLTQNI PRGPAGSKVFSV
WPSGARSEQRS AFSKPTKRPAERPELTSVFPAGESADALGELSGLLNTTDLACWGRLSTPKLLVGDLWNLQALPQ
NAPLCSTFLGAPTLWLEHTQAQVPPPPSSSSTTSWALLPPTLTSLGLSTQNWCAKCNLSFRLTSDLVFHMRSHHKK
EHAGPDPHSQKRREEALACPVCQEHFRERHHLSRHMTSHS

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FIGURE 2933

GGCCTGCTCACTCCTCAGCTGCAGGAGCCAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTC
CCTGGGAAAGGTGCCCCGAGGTGAAAGAGATGGCCTGGTGAAATCCTGGATTGAACAGGAGGGTGTACAGTG
AAGAGCAGCTCCCACTTCAACCCAGACCCTGATGCAGAGACCCTCTACAAAGCCATGAAGGGGATCGGGACCAAC
GAGCAGGCTATCATCGATGTGCTCACCAAGAGAAGCAACACGCAGCGGCAGCAGATCGCCAAGTCCTTCAAGGCT
CAGTTCGGCAAGGACCTCACTGAGACCTTGAAGTCTGAGCTCAGTGGCAAGTTTGAGAGGCTCATTGTGGCCCTT
ATGTACCCGCCATACAGATACGAAGCCAAGGAGCTGCATGACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTG
ATCATTGAGATCCTGGCCTCTCGGACCAAGAACCAGCTGCGGGAGATAATGAAGGCGTATGAGGAAGACTATGGG
TCCAGCCTGGAGGAGGACATCCAAGCAGACACAAGTGGCTACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGC
AGCAGGGATGATGTGAGCAGCTTTGTGGACCCAGGACTGGCCCTCCAAGACGCACAGGATCTGTATGCGGCAGGC
GAGAAGATTCTGTTGGACTGATGAGATGAAATTCATCACCATCCTGTGCACGCGCAGTGCCACTCACCTGCTGAGA
GTGTTTGAAGAGTATGAGAAAATTGCCAACAAGAGCATTGAGGACAGCATCAAGAGTGAGACCCATGGCTCACTG
GAGGAGGCCATGCTCACTGTGGTGAAATGCACCCAAAACCTCCACAGCTACTTTGCAGAGAGACTCTACTATGCC
ATGAAGGGAGCAGGGACGCGTGATGGGACCCTGATAAGAAACATCGTTTTCAAGGAGCGAGATTGACTTAAATCTT
ATCAAATGTCACTTCAAGAAGATGTACGGCAAGACCCTCAGCAGCATGATCATGGAAGACACCAGCGGTGACTAC
AAGAACGCCCTGCTGAGCCTGGTGGGCAGCGACCCCTGAGGCACAGAAGAACAAGAGCAAAGACCATGAAGCCAG
AGTCTCCAGGACTCCTCACTCAACCTCGGCCATGGACGCAGGTTGGGTGTGAGGGGGGTCCCAGCCTTTCGGTCT
TCTATTTCCCTATTTCCAGTGCTTTCCAGCCGGGTTTCTGACCCAGAGGGTGGAACCGGCCTGGACTCCTCTTCC
CAACTTCCCTCCAGGTCATTTCCAGTGTTGAGCACAATGCCAACCTTAGTGTTTCTCCAGCCAGACAGATGCCTCA
GCATGAAGGGCTTGGGGACTTGTGGATCATTCCCTTCCCTGCAGGAGCTTCCCAAGCTGGTCACAGAGTCTCC
TGGGCACAGGTTATACAGACCCAGCCCCATTCCCATCTACTGAAACAGGGTCTCCACAAGAGGGGGCCAGGGAAT
ATGGGTTTTTTAACAAGCGTCTTACAAAACACTTCTCTATCATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGTT
TTAGAACACACATCCTTCAGCAGCTGAGAAACGAACACGAATCCATCCCAACCGAGATGCCATTAACATTCTCT
AAAAATGTTAGGCTCTAAATGGACGAAAAATCTCTCGCCATCTTAATAACAAAATAAACTACAAATTCCTGACC
CAAGGACACTGTGTTATAAGAGGCGTGGGCTCCCCCTGGTGGCTGACCAGGTCAGCTGCCCTGGCCTTGACCCCT
CTGCATGCAGCACAGAAGGGTGTGACCATGCCCTCAGCACCCTCTTGTCCTCCACTGAACGGCAACTGAGACTGG
GTACCTGGAGATTCTGAAGTGCCTTTGCTGTGGTTTTTCAAATAATAAAGATTTGTATTCAACTC

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FIGURE 2934

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTATT
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACGGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACTAAGAAAATGCCCAGAAGAGAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAACCTCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAAGAG
CACTTTGATATAATGCCTCATTTCGGAACCTTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAAACATGATGATTGATCTGGCTAAAGT
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG
TCAAGCACATGGCTTTTCTAAATTTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA
GAAGACAAAGAAGCGATTAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAAACTGTTCTACCTTTCTGG
AATGGTGCATGGAGAATATCAAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC
TCTCATGGCAAACCTTTTACCCTTATATCCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA
CAAACATCAAATGTGACCGGCAGGTGTCACCTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCCAAACCACTTGGGTCAGAGGCTATAGATAATCAA
GGGTAAGTCTGCTTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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FIGURE 2935

CGGGGGCGAGGGGGCGGCAGGCAGGTGTAGCGCTGCCCTGGGCGGGCTTGACCCCCACACCCAAGTGAGCGGCC
TGCTCACTCCTCAGCTGCAGGAGCCAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCGTG
AGAAAAGGTGCCCCCGAAGTGAAAGAGATGGCCTGGTGGAAGCCTGGATTGAACAGGAGGGTGTCACAGTGAAGA
GCAGCTCCCACCTTCAACCCAGACCCTGATGCAGAGACCCCTACAAAGCCATGAAGGGGATCGGTGTGCGGTCCC
AACTGCTCAGCCACCAAGCAGCTGCCTTTCGCCTTCCCCCTCCTCCGCCCTCACCAGTGTGTACCCCTGGGGGCGAGC
AGGGTCACTTGTGCTGTAACCCCTGCAGGGACCAACGAGCAGGCTATCATCGATGTGCTCACCAAGAGAAGCAACA
CGCAGCGGCAGCAGATCGCCAAGTCCTTCAAGGCTCAGTTCGGCAAGGACCTCACTGAGACCTTGAAGTCTGAGC
TCAGTGGCAAGTTTGAGAGGCTCATTGTGGCCCTTATGTACCCGCCATACAGATACGAAGCCAAGGAGCTGCATG
ACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTATCATTTGAGATCCTGGCCTCTCGGACCAAGAACCAGCTGC
GGGAGATAATGAAGGCGTATGAGGAAGACTATGGGTCCAGCCTGGAGGAGGACATCCAAGCAGACACAAGTGGCT
ACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGCAGCAGGGATGATGTGAGCAGCTTTGTGGACCCGGCAGTGG
CCCTCCAAGACGCACAGGATCTGTATGCGGCAGGCGAGAATATTCGTGGGACTGATGAGATGAAATTCATCACCA
TCCTGTGCACGCGCAGTGCCACTCACCTGCTGAGAGTGTGTTGAAGAGTATGAGAAAATTGCCAACAAGAGCATTG
AGGACAGCATCAAGAGTGAGACCCATGGCTCACTGGAGGAGGCCATGCTCACTGTGGTGAAATGCACCCAAAACC
TCCACAGCTACTTTGCAGAGAGACTCTACTATGCCATGAAGGGAGCAGGGACGCGTGATGGGACCCTGATAAGAA
ACATCGTTTCAAGGAGCGAGATTGACTTAAATCTTATCAAATGTCACTTCAAGAAGATGTACGGCAAGACCCCTCA
GCAGCATGATCATGGAAGACACCAGCGGTGACTACAAGAACGCCCTGCTGAGCCTGGTGGGCAGCGACCCCTGAG
GCACAGAAGAACAAGAGCAAAGACCATGAAGCCAGAGTCTCCAGGACTCCTCACTCAACCTCGGCCATGGACGCA
GGTTGGGTGTGAGGGGGTCCAGCCTTTCGGTCTTCTATTTCCCTATTTCCAGTGCTTTCCAGCCGGGTTTCTG
ACCCAGAGGGTGGAACCGGCCTGGACTCCTCTTCCCAACTTCCTCCAGGTCATTTCCAGTGCTGAGCACAATGCC
AACCTTAGTGTTTCTCCAGCCAGACAGATGCCTCAGCATGAAGGGCTTGGGGACTTGTGGATCATTCCTTCCTCC
CTGCAGGAGCTTCCCAAGCTGGTCACAGAGTCTCCTGGGCACAGGTTATACAGACCCCAGCCCCATTCCCATCTA
CTGAAACAGGGTCTCCACAAGAGGGGCCAGGGAATATGGGTTTTTAACAAGCGTCTTACAAAACACTTCTCTATC
ATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGTGTTTAGAACACACATCCTTCAGCAGCTGAGAAAACGAACACGA
ATCCATCCCAACCGAGATGCCATTAAACATTCATCTAAAAATGTTAGGCTCTAAATGGACGAAAAATTCCTCTCGCC
ATCTTAATAACAAAATAAACTACAAATTCCTGACCCAAGGACACTGTGTTATAAGAGGCGTGGGCTCCCCTGGTG
GCTGACCAGGTCAGCTGCCCTGGCCTTGACCCCTCTGCATGCAGCACAGAAGGGTGTGACCATGCCCTCAGCAC
CACTCTTGTCCTCCACTGAACGGCAACTGAGACTGGGTACCTGGAGATTCTGAAGTGCCCTTTGCTGTGGTTTTCAA
AATAATAAAGATTTGTATTCAACTC

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FIGURE 2936

MPKARQSPGARGRQAGVALPWAGLHPHTQVSGLLTPQLQEPDVWSPSRGQPVSLHLPKGGAPEVKEMAWWKSWE
QEGVTVKSSSHFNPDPAETLYQAMKGIGVGSQLLSHQAAAFAPSSALTSVSPWGQQGHLCCNPAGTNEQAIID
VLTKRSNTQRQQIAKSFKAQFGKDLTETLKSELSGKFERLIVALMYPPYRYEAKELHDAMKGLGTKEGVIIEILA
SRTKNQLREIMKAYEEDYGSSLEEDIQADTSGYLERILVCLLQGSRDDVSSFVDPGLALQDAQDLYAAGEKIRGT
DEMKFITILCTRSATHLLRVFEEYEKIANKSIEDSIKSETHGSLEEAMLTVVKCTQNLHSYFAERLYYAMKGAGT
RDGTLIRNIVSRSEIDLNLIKCHFKKMYGKTLSSMIMEDTSGDYKNALLSLVGSDP

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FIGURE 2937

GCTAATACTGAAATTGTCAGGTCGGTGTAAGTGTGACAGTCCGGAAGCAATGGAGGCTTCAGTGAGCAGGACCAG
CTGCCCTTTCTCACCACCACAGCTTGATCTCTCTCACAACCTTCCTCTCCACCTCCACTGACCTCTGGGTTGGTTTT
CTCCTGCACGATCTTTCCACGTGTCAGGGGCCTGGAGGCACCCTACAAGAGCTGACTTTACATTTTCCTTCCTAGA
GGTAATCCCAGAACAAAAGAGAGCAGTTTTATTTATTTTTTTTCAAGAGAATTAAATTGTTTATTGATTACACATG
ATAATGGATGATACACAAGCTTCATTCCCATCTATAATTTAATCTGGTACCATTATTCAATTAGATATGTTACAT
AGGATGTGCCAACAATTACTTTTATAACCAATAATTCCATGATTTTGCTTGGGTAATCCCTTTTAATGGTGACTG
AAATCATGACTGACCGAGTCAGTGGCTAGAAAAGGGGCTTTGCCTTTGTAACCTTTGATGACCATGACTCCGTCG
ATAAGATTGTCATTTCAGAAATACCATACTGTGAATGACCACAACCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAG
AGATGGCTAGTGCTTCATCCAGCCAAAGAGGTGCAAGTGGTTCTGGAAACTTTGGTGGTGGTCGTGGAGGTGGTT
TCAGTGGGAATGACAACCTTTGGTATTGGAGGAACTTCAGTGGTCTTGGTGGCTTTGGTGGCAGTCGTGGTGGTG
GTGGATATGGTGGCAGTGGGGATGGCTGTAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAAAGCT
ACAATGATTTTGGCAATTACAACAATGAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAA
GCTCTGGCCCCTGTGGCAATGGAGGCCTATACTTTGCAAAACCATGAAACCAAGGTGGCTATTGGCGGTTCCAGC
AGCAGCAGTAGCTATGGCAGTGGCAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAATG
ACAGGGAATCTACAGGTTACGACAGATTTGTGAAGTCAAGCAAGCAGTGGTGGCAGGGCCTAGCTGCTACAAA
GAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAAAGTCTGAGGACTGTATTTGTGACTAACTGTATAA
CAGGTTATTTTAGTTTCTGTTCTGTGGGAAGTGTAAAGCATTCCAGCTAAGGGTTTTAATATAGGTTTTTTTTTT
GCACCATGCTGTTGATTGCTAAATGTAATAGTCTGATCATGACGCTGAATAAATGCTTTTTGTTTTAATGTGCT
GTGTAAAGTTAGTTTACTCTGAAGCTATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTG
ATGCCAAGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTGTCTTCAGAAACCTTTGGTGT
AGTTGAACTGATAGTTACTGTTGTGACCTGAAG

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FIGURE 2938

MASASSSQGRSGSGNFGGGRGGGFSGNDNFGIGGNF'SGLGGFGGSRGGGGYGGSGDGCNGFGNDGSNFGGGGSY
NDFGNYNNESSNFGPMKGGNFGGRSSGPCGNGGLYFAKP

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FIGURE 2939

GTCTGGGTGGGGCCTGGGAGCCACAGGAGATGCCCAAAGCCAGGCAGAGCCCGGGGGCGAGGGGACGGCAGGCAG
GTGTGGCGCTGCCCTGGGCGGGCTTGCACCCCACACCCAAGTGAGCGGCCTGCTCACTCCTCAGCTGCAGGAGC
CAGACGTGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCCTGGGAAAGGTGCCCCCGAGGTGAAAG
AG**ATG**GCCTGGTGAAATCCTGGATTGAACAGGAGGGTGTACAGTGAAGAGCAGCTCCCACTTCAACCCAGACC
CTGATGCAGAGACCCTCTACCAAGCCATGAAGGGGATCGGGACCAACGAGCAGGCTATCATCGATGTGCTCACCA
AGAGAAGCAACACGCAGCGGCAGCAGATCGCCAAGTCTTCAAGGCTCAGTTCGGCAAGGACCTCACTGAGACCT
TGAAGTCTGAGCTCAGTGGCAAGTTTGAGAGGGCTCATTGTGGCCCTTATGTACCCGCCATACAGATACGAAGCCA
AGGAGCTGCATGACGCCATGAAGGGCTTAGGAACCAAGGAGGGTGTATCATATTGAGATCCTGGCCTCTCGGACCA
AGAACCAGCTGCGGGAGATAATGAAGGCGTATGAGGAAGACTATGGGTCCAGCCTGGAGGAGGACATCCAAGCAG
ACACAAGTGGCTACCTGGAGAGGATCCTGGTGTGCCTCCTGCAGGGCAGCAGGGATGATGTGAGCAGCTTTGTGG
ACCCAGGACTGGCCCTCCAAGACGCACAGGATCTGTATGCGGCAGGCAGAGAAGATTTCGTGGGACTGATGAGATGA
AATTCATCACCATCCTGTGCACGCGCAGTGCCACTCACCTGCTGAGAGTGTTTGAAGAGTATGAGAAAATTGCCA
ACAAGAGCATTGAGGACAGCATCAAGAGTGAGACCCATGGCTCACTGGAGGAGGCCATGCTCACTGTGGTGAAAT
GCACCCAAAACCTCCACAGCTACTTTGCAGAGAGACTCTACTATGCCATGAAGGGAGCAGGGACGCGTGATGGGA
CCCTGATAAGAAACATCGTTTCAAGGAGCGAGATTGACTTAAATCTTATCAAATGTCACCTCAAGAAGATGTACG
GCAAGACCCTCAGCAGCATGATCATGGAAGACACCAGCGGCGACTACAAGAACGCCCTGCTGAGCCTGGTGGGCA
GCGACCCCT**GA**GGCACAGAAGAACAAGAGCAAAGACCATGAAGCCAGAGTCTCCAGGACTCCTCACTCAACCTCG
GCCATGGACGCAGGTTGGGTGTGAGGGGGTCCCAGCCTTTCAGTCTTCTATTTCCCTATTTCCAGTGCTTTCCA
GCCGGGTTTCTGACCCAGAGGGTGGAACCGGCCTGGACTCCTCTTCCCAACTTCTCCAGGTCATTTCCCAGTGT
GAGCACAAATGCCAACCTTAGTGTTTCTCCAGCCAGACAGATGCCTCAGCATGAAGGGCTTGGGGACTTGTGGATC
ATTCTTCTCCTCCCTGCAGGAGCTTCCCAAGCTGGTCACAGAGTCTCCTGGGCACAGGTTATACAGACCCCAGCCC
CATTCCCATCTACTGAAACAGGGTCTCCACAAGAGGGGGCCAGGGAATATGGGTTTTTAACAAGCGTCTTACAAAA
CACTTCTCTATCATGCAGCCGGAGAGCTGGCTGGGAGCCCTTTTGTTTTAGAACACACATCCTTCAGCAGCTGAG
AAACGAACACGAATCCATCCCAACCGAGATGCCATTAACATTATCTAAAAATGTTAGGCTCTAAATGGACGAAA
AATTCTCTCGCCATCTTAATAACAAAATAAACTACAAATTCCTGACCCAAGGACACTGTGTTATAAGAGGCGTGG
GCTCCCCTGGTGGCTGACCAGGTCAGCTGCCCTGGCCTTGACCCCTCTGCATGCAGCACAGAAGGGTGTGACCA
TGCCCTCAGCACCCTCTTGTCCCCACTGAACGGCACTGAGACTGGGTACCTGGAGATTCTGAAGTGCCTTTGC
TGTGGTTTTCAAATAATAAAGATTTGTATTC

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FIGURE 2940

MAWWKSWIEQEGVTVKSSSHFNPDPAETLYKAMKGIGTNEQAIIDVLTKRSNTQRQQIAKSFKAQFGKDLTETL
KSELSGKFERLIVALMYPPYRYEAKELHDAMKGLGTKEGVIIIEILASRTKNQLREIMKAYEEDYGSSLEEDIQAD
TSGYLERILVCLLQGSRDDVSSFVDPGLALQDAQDLYAAGEKIRGTDEMKFITILCTRSATHLLRVFEEYEKIAN
KSIEDSIKSETHGSLEEAMLTIVVKCTQNLHSYFAERLYYAMKGAGTRDGTILRNIVSRSEIDLNLKCHFKKMYG
KTLSSMIMEDTSGDYKNALLSLVGSDP

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FIGURE 2941

GAATTTCCGTTTCCGGCGGTGTCCAAGCGGACCTAAGGAGTCGCAGTTGTGAACAGGTTAGAGTTACTTGTTATT
GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACGGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACTAAGAAAATGCCCAGAAGAGAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAACCTCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAAGAG
CACTTTGATATAATGCCTCATTTCGGAACCTTCACCTGGCAGAAGTTCACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAAACATGATGATTGATCTGGCTAAAGT
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG
TCAAGCACATGGCTTTCCTAAAATTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA
GAAGACAAAGAAGCGATTAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAAACTGTTCTACCTTTCTGG
AATGGTGCATGGAGAATATCAAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC
TCTCATGGCAAACTTTTCACCTTATATCCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA
CAAACATCAAATGTGACCGGCAGGTGTCACCTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCCAAACCACTTGGGTCAGAGGCTATAGATAATCAA
GGGTAAGTCTGCTTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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FIGURE 2942

CGTGTGCACCCTAGCGTCAGCCTCGAGTTTGACCAGCAACAGGGGTCGGTGTGTCCCTCTGAATCTGAGATCTAT
GAGGCAGTAGCTGGGGACAGG**ATGG**CAGGAGCGCCCATGGCTGCTGCTGTGCAGCCTGCTGAGGTGACTGTTGAA
GTTGGTGAGGACCTCCACATGCACCACGTTTCGTGACCGGGAGATGCCTGAAGCTTTGGAGTTTAACCTTTCTGCC
AATCCAGAGGCAAGCACAAATATTCCAGAGGAACTCTCAAACAGATGCTTTGGAGTTTAACCTTTCTGCCAATCCA
GAGGCAAGCACAAATATTCCAGAGGAACTCTCAAACAGATGGTGAGACGACATTGTTTTTTCCGCCAAGAGAAAAGA
ATAAAAAGCTCTTGTT**TGA**TCAGGTT

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FIGURE 2943

MAGAPMAAAVQPAEVTVEVGEDLHMHVVRDREMPEALEFNLSANPEASTIFQRNSQTDALFNPSANPEASTIFQ
RNSQTDGETTLFFPPRERIKALV

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FIGURE 2944

GGTAAATAGCCACTATGGAGACTAAGGACCAGAAGAAACACAGAAAGAAAAACAGTGGACCCAAAGCTGCAAAGA
AAAAGAAGTGGCATCTGCAGGATCTCCAGCTAGGAGACGAAGAAAATGCCCAGAAGAGAAATGCCAATGCTTTTG
CAGTTCAGTCTGCTGTGTGGATGTCTCGATCCTTTCACAGGACTCTGGATTTGAAGACACAAAAGCATCATATTC
CAGTGGTTGATGGAACTCCACTAGAGCCGCCACCAATACCGGTAGTGGTGACGGGGCCTCCAAAGTTGGAAAGAG
CACTTTGATATAATGCCTCATTTCGGAACCTTCACCTGGCAGAAGTTACCGAGATCAGAGGCCCTGTGACGATCGT
GTCAGGTAAAAAGCGCAGACTCACCATTATTGAATGTGGGTGTGACATTAAACATGATGATTGATCTGGCTGAAGT
AGCAGATCTGGTACTGATGCTTATAGATGCCAGCTTTGGGTTTGAAATGGAAATGTTTGAGTTTCTAAACATCTG
TCAAGCACATGGCTTTCTAAAATTCTGGGAGTTCTCACCCACCTCGACTCCTTCAAGCATAACAAGCAACTGAA
GAAGACAAAGAAGCGATTAAAACACAGGTTCTGGACAGAAGTTTACCAGGTTGCCAAACTGTTCTACCTTTCTGG
AATGGTGCATGGAGAATATCAAAACCAAGAAATCCACAATCTGGGCCATTTTATTACAGTTATGAAGTTTAGGCC
TCTCATGGCAAACTTTTACCCCTTATATCCTGGCAGACAGGATGGAAGATTTGACAAACCCGGAGGATATCCAAA
CAAACATCAAATGTGACCGGCAGGTGTCACTTTATGGTTATTTAAGAGGAGCACACTTCAAAGATAAAAGCCAAA
TTCACATGCCAGGACAAGGTGGGGCTCACCCATGAGCTGGTCCAGAGTCTCATCTCCACCTACTCCACCATTGAT
GCCAAGATGGCTTCAAGTCGAGTGACGCTGCTTTCCAATTCCAAACCACTTGGGTCAGAGGCTATAGATAATCAA
GGGTAAGTCTGCTTTTTTTTCTATTTTAAATAAAAAGATATATTACAGAA

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FIGURE 2945

ATGGGGCAGCCGAGAGAGTTCTGGCATCTCAGGTCCCAGGTTCCAGTTCCAACCTGCCACCTGCTCACCGTGCAG
CCTTGGTGCCCTGCTTCCTCACCCACCCAGCTGGAGGGCGTGAGCGCAGGCACAGTGCTTCCTCCCTGCTTGCG
GCTCTGTGCCTGAGGAAGGCGGTTCTGCGGCCCCATCCTGCTGTCCTGCCTGGAGTTGGAGGGTGTGTGGTCCTT
TCCTCTGGGCGGATGAAGGCTCCCTTGAGGGGCGGCCTGGCTCTGGGGACAGGGCCAGCTCCCACGAAGCTGCAG
CTTCTCCATGACTGGCAGAGCGAGCCTGGGCGAGTGGCTGGCAGCAAGGCCCTTCTCCGCTCTCTTCCCGGCA
GGCACTTCCCTCGTCCAGCACCTGATGACCGTCCTCATCCGCAAACACAGCCAGCTCTTACGGCACCGGTCCCG
GAAGGGCCCACCTCCCCGCGCGGGGGCCTGCAATGCGCAGTGGGGTGGGGCTCCGAGGAGGTCACCAGGGACAGC
CAAGGAGAGCCCGGCGGCCCCGGCCTGCCGCGCACAGGACCTCTTCCCTGGACGGGGCGGCCGTGGCGGTGCTC
TCCAGAACAGCCCCACGGGGCGGGGAGCCGGTGCAGCCCTGGGAAGAAGGTGCAGACCCTGCCAGTTGGAAG
TCCTCCTTCCGGCAGCCGAGGTCCCTATCGGGAAGCCCCGAAGGGGGCGGCTCATCCCTGGAGGTGCCCATCATC
TCCTCCGGCGGGAAGTGGCTTATGAACGGGCTGTCTCCCTGCGCGACACCGCCGGGCTCGTCGGGAGACCGG
CTCAAGGACTCGGGCTCCGTGCAGAGACTCTCCACCTACGACAATGTGCCGCGCCGGGCCTGGTCCCCGGCATA
CCCAGCGTGGCCAGTATGGCGTGGTCCGGGGCTCGTCCAGCGAGTCGTGCGTGGGGGGCTCACTCAGCAGCTGC
ACGGCCTGCCGCGCCAGCGACTCGTCTGCCCGCAGTTCCCTGCACACCGACTGGGCCCTGGAGCCCTCCCCGCTC
CCCAGCAGCAGCGAGGACCCCAAGTCCCTGGACCTGGACCACAGCATGGACGAGGCGGGCGCGGGTGCCAGCAAC
AGCGAGCCCAGCGAGCCGGACAGCCCCACCCGGGAACACGCGCGCCGCTCCGAGGCCTTACAGGGGCTGGTCACT
GAGCTCAGGGCCGAGCTGTGCCGCCAGCGGACTGAGTACGAGAGGAGTGTGAAAAGAATCGAAGAAGGGAGTGCT
GACCTGAGAAAACGAATGTCCCGTTAGAAGAAGAACTGGACCAGGAAAAGAAAAAATACATCATGCTGGAAATA
AAGCTGCGGAAGTCTGAACGGGCGCGGGAGGATGCGGAGAGGAGGAACCAGCTGTTGCAGAGGGAAATGGAGGAG
TTTTTTTCGACCCTAGGAAGCTTGACTGTTGGGGCAAAAGGTGCCAGGGCCCCAAAGTAAAGGAATGGCAGAGC
TCACTTCTGTACCACGTCTGCTGGTCTCCAGCCTTGATGGAGTTAGAAGCGTCTGTATCTCTGGAGCAGCCAGG
CGCTCTGGAGCCAGCTGGAGAGAGAGAGATCCTGATACCTCTGTGGGGACTGTGGGGACTTTTGGGACCCACAC
ACTCCAGGTGGGATCAGATGCTGCTCCAACCATGCAGTTCTTGGTGAGGGTCAGAAGGGGACGGTACCAAGAGCA
GCGCTTAGCCCTTACCCAGGAAATATCCTTCATGGCCACAGAAATGGAGGGCGCCAGGATCCAGGCAGCCACCG
GGAACAGTCAGCTTTCTTTATTAAATGTGCTCACAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2946

MGQPREFWHLRSQVPVPTCHLLTVQPWCLLPHPPTPAGGRERRHSASSLLAALCLRKAVLRPHPAVLPGVGGCVVL
SSGRMKAPLRGGLALGTGPAPTKLQLLHDWQSEPGPSGWQQGPSPLFPAGTSLVQHLMTVLIRKHSQFTAPVP
EGPTSPRGGLQCAVGWGSEEVTRDSQGEPGGPGLPAHRTSSLDGA AVAVLSRTAPTGPGRCSPPGKKVQTLPSWK
SSFRQPRSLSGSPKGGGSSLEVPIISSGGNWMNGLSSLRGHRASSGDRLKDSGSVQRLSTYDNVPAPGLVPGI
PSVASMAWSGASSSESVGGSLSSCTACRASDSSARSSLHTDWALEPSPLPSSSEDPKSLDLDHSMDEAGAGASN
SEPSEPDSP TREHARRSEALQGLVTELRAELCRQRTYERSVKRIEEGSADLRKRMSRLEEELDQEKKKYIMLEI
KLRN SERAREDAERRNQLLQREMEEFFSTLGSLTVGAKGARAPK

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FIGURE 2947

GGAGGAGGCAAGAGCCGACGCGAGGGGAGGGGAGCGCAGCGCGGGGCTAACGGGCGGGCAAGCGGGCGGGCGGC
AACAGCATGTCCCTCGGCCAGCGCGGGCGGCCCTCTTAGCGCGGGCGGGGGCTGCTCTGGGCGCGCCCCGGGCGAAG
TGCGCCAGTCTCCGGCCCCGGCCCCCTCGGCGCGCCCCGACTTCCCAGGCGCCCCCTGAGCCCAGCAGCCGCGGGTC
CCGGGATCGGCTAAGAGTAGCTGCAACGCCTCGCCGACGGAGTCCTTTTCTTTTCCCAGGACGCTGGGCCATGAG
CTCCGCGGGCCACCTGAGGCACAGGGGAGTCTGCTCGGCCAGGACAGCCTCCCCGAAGTCCCCTGCCCCTCGCCT
CTGCACTGCGGGACGCCAGCGCTCGGCCCTGGCGGAGGCGTCTTCGGAAGAGCATCGGGGTGGGGGCATCGGAATC
CGCGGAACCTGCGGGCCAGGCCCGGGCGGCGGCCACCAAGCTGTGCGAGGCTGTGGGCGCGGCGCTGCAGGAGCC
CCGGCGGCAGAGGCGCCTGGTGCTTGTATCGTGTGCGTGGCGCTGTTACTGGACAACATGCTGTACATGGTCAT
CGTGCCCATAGTGCCCGACTACATCGCCACATGCGCGGGGGCGGCGAGGGCCCCACCCGGAATCCCAGGCTGTG
GGAGCCACCCTGCCGCTGCCCACTCCGGCCAATGCCAGCGCCTACACGGCCAACACCTCGGCGTCCCCGACAGC
TGCGTGGCCAGCGGGCTCAGCCCTTCGGCCCCGCTACCCTACGGAGAGCGAAGACGTGAAGATCGGGGTGCTGTT
TGCTTCCAAGGCTATCCTGCAGCTGCTAGTGAACCCCTTGAGCGGGCCCTTCAICGACCGCATGAGCTACGACGT
GCCGCTGCTGATCGGCCTGGGCGTCAITGTCGCTCTACAGTCCTGTTCGCTTCGCCGAGGACTACGCCACGCT
GTTGCGGGCGCGCAGCCTGCAGGGCTGGGCTCAGCCTTCGCCGACACGTCTGGCATAGCCATGATCGCCGATAA
GTACCCGGAGGAGCCGGAGCGCAGTCTGCACTGGGCGTGGCGCTGGCCTTCATTAGCTTCGGAAGCCTAGTGGC
CCCGCCCTTCGGGGCATCCTCTATGAGTTCGCCGGAAGCGCGTGCCCTTCTTGGTGCTAGCTGCCGTGTGCT
CTTTGACGCGCTGTTGCTGCTGGCAGTGGCCAAACCCCTTTCGGCGGCTGCACGGGCTCGGGCCAACCTGCCAGT
GGGCACTCCCATCCACCGCCTCATGCTAGACCCCTACATTGCCGTGGTGGCGGCGCGCTCACCACCTGTAACAT
TCCCCTCGCCTTCTCGAACCCACCAATTGCCACGTGGATGAAGCATACGATGGCGGCTTCCGAGTGGGAGATGGG
CATGGCCTGGCTGCCGGCCTTCGTGCCTCATGTGCTGGGCGTCTACCTCACCGTGCGCCTGGCGGCGCGCTACCC
ACACCTGCAGTGGCTGTACGGCGCGCTTGGGCTGGCTGTGATCGGCGCCAGCTCGTGCATCGTGCCCGCTGCCG
CTCCTTCGCGCCGCTAGTGGTCTCACTATGCGGCCTCTGTTTTGGCATAGCCCTAGTCGACACAGCACTGCTGCC
CACGCTCGCCTTCTGTTGGTGGACGTGCGCCATGTCTCAGTCTATGGCAGCGTCTACGCCATCGCCGACATCTCCTA
TTCGGTGGCCTACGCGCTCGGGCCCATAGTGGCAGGCCACATTGTGCACTCGCTGGGCTTTGAGCAGCTCAGCCT
TGGCATGGGACTGGCCAACCTGCTCTATGCTCCCGTCTTGCTGCTGCTCCGCAACGTGGGCCTCCTGACGCGCTC
CCGTTCCGAGCGCGATGTGCTGCTTGATGAGCCACCGCAAGGTCTGTACGATGCGGTGCGCCTGCGTGAGCGTCC
TGTGTCTGGCCAGGACGGCGAGCCTCGCAGCCCGCCTGGCCCTTTTGATGAGTGCAGGACGACTACAACACTACTA
CTACACCCGCGAGCTAGCATCCCCACTCCTCCTCCAGCCCAACCGCCTTGGGTCAAGGGGGCTGCTCTGCAA
GCCCCACTGGCCAGCTCTGGCTCAGGGCCCACCTCCTCCAGCGAGTACCCAGCCACTCCTCAACCTTGACTTCTG
CCCAATCCCCTCCCTGTGACCCGTTCCATATCCCTTCTCTCTTGTCCAATGGGGCTTGGAGCACCGAGGCCAG
CGAAGCCATCGCGCTCCTTGCGGAGGTGAAGAGGACCCTGAGTCCCCACCTGCGGCTCCCCCTGTGTAGAGCCTGC
ATCTGTCTGTCTTCTTCCATTGCTCCCAGTGCCAACTTGGGCCGCTGCACCGCGGCGCCTCCGCCCAATCA
ATAAACTGTGTCTGTCCAGG

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FIGURE 2948

MESAEPAGQARAAATKLSEAVGAALQEPRRQRRLLVLVIVCVALLLDNMLYMVIVP IVPDYIAHMRGGGEGPTRTP
EVWEPTLPLPTPANASAYTANTSASPTAAWPAGSALRPRYPTESEDKIGVLFASKAILQLLVNPLSGPFIDRMS
YDVPLLIGLGVMFASTVLFafaedyatlfaarslqglgsafadtsgiamiadkypeepersralgvalafisfgs
LVAPPFGGILYEFAGKRVPFVLAAVSLFDALLLLAVAKPFSAAARARANLPVGTP IHRMLDPYIADVAGALTT
CNIPLAFLEPTIATWMKHTMAASEWEMGMAWLPAFVPHVLGVYLTVRLAARYPHLQWLYGALGLAVIGASSCIVP
ACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVSVYGSVYAIADISYSVAYALGP I VAGHIVHSLGFEEQ
LSLGMGLANLLYAPVLLLLLRNVGLLTRSRSERDVLLEPPQGLYDAVRLRERPVSQGQDGEPRSPPGPFDECEDDY
NYYYTRS

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FIGURE 2949

GGCACGAGCTCGGCTCCTGGAAAG**ATG**GAGGCAGCGGAGACAGAGGCGGAAGCTGCAGCCCTAGAGGTCCTGGCT
GAGGTGGCAGGCATCTTGGAACCTGTAGGCCTGCAGGAGGAGGCAGAACTGCCAGCCAAGATCCTGGTTGAGTTT
GTGGTGGACTCTCAGAAGAAAGACAAGCTGCTCTGCAGCCAGCTTCAGGTAGCGGATTTCTGCAGAACATCCTG
GCTCAGGAGGACACTGCTAAGGGTCTCGACCCCTTGGCTTCTGAAGACACGAGCCGACAGAAGGCAATTGCAGCT
AAGGAACAATGGAAAGAGCTGAAGGCCACCTACAGGGAGCACGTAGAGGCCATCAAAATTGGCCTCACCAAGGCC
CTGACTCAGATGGAGGAAGCCAGAGGAAACGGACACAACCTCCGGAAGCCTTTGAGCAGCTCCAGGCCAAGAAA
CAAATGGCCATGGAGAAACGCAGAGCAGTCCAGAACCAGTGGCAGCTACAACAGGAGAAGCATCTGCAGCATCTG
GCGGAGGTTTCTGCAGAGGTGAGGGAGCGTAAGACAGGGACTCAGCAGGAGCTTGACAGGGGTGTTTCAGAACTT
GGAAACCTGAAGCAGCAGGCAGAACAGGAGCGGGACAAGCTGCAGAGGTATCAGACCTTCCTCCAGCTTCTGTAT
ACCTTGCAGGGTAAGCTGTTGTTCCCTGAGGCTGAGGCTGAGGCAGAGAATCTTCCAGATGATAAACCCAGCAG
CCGACTCGACCCAGGAGCAGAGTACAGGAGACACCATGGGGAGAGACCCTGGTGTGTCTTCAAGGCTGTTGGT
CTACAACCTGCTGGAGATGTAAATTTGCCA**TGAC**TTCTGGAGGACAGCAGCATGGAGAAAAGATCCTAGAAAAGG
TCAGACCCAACTCAGGCCTTGGTGTCCCTGGACTGCAAGTGTGGAAGGAGGGAAAGCCTGGTTTACCTCTCTCTG
CATCTGAGCTCTGCTACCCATGGAGCAGATGGATGGTGGGAACAGGAAAGAGCTTATGTTACACCTCATTCCCAT
GCTTAGCCCACCCAGAGCTAACCCCTGTCTTCTTCCCCAGGCCTCTGACTTCCCTCACCTCCCAACCATCATTAC
AGGAAAGACTGTGAACTCCTGAGTTCAGCTTGATTTCTGACTACATCCAGCAAGCTCTGGCATCTGTGGATTAA
AATCCCTGGATCTCTCTCAGTTGTGTATTTGTTTCATCTTCATATGCTGGCAGGAACAACCTATTAATACAGATACT
CAGAAGCCAATAACATGACAGGAGCTGGGACTGGTTTGAACACAGGGTGTGCAGATGGGGAGGGGGTACTGGCCT
TGGGCCTCCTATGATGCAGACATGGTGAATTTAATTCAAGGAGGAGGAGAATGTTTATAGGCAGGTGGTTATATGT
GGGAAGATAATTTTATTTCATGGATCCAAATGTTTGTGAGTCCTTTTGTGCTAAGGTTCTTGCGGTGAACCAGAA
TTATAACAGTGAGCTCATCTGACTGTTTTAGGATGTACAGCCTAGTGTTAACATTCTTGGTATCTTTTTGTGCCT
TATCTAAAACATTTCTCGATCACTGGTTTCAGATGTTTATTATATTCTTTTCAAAGATTCAGAGATTGGCT
TTTGTATCCACTATTGTATGTTTTGTTTCATTGACCTCTAGTGATACCTTGATCTTTCCCACTTTCTGTTTTCG
GATTGGAGAAGATGTACCTTTTTTGTCAACTCTTACTTTTATCAGATGATCAACTCACGTATTTGGATCTTTATT
TGTTTTCTCAAATAAATATTTAAGGTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2950

MEAAETEAEAAALEVLAEVAGILEPVGLEEEAELPAKILVEFVVDSSQKKDKLLCSQLQVADFLQNILAQEDTAKG
LDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQAKKQMAMEKRR
AVQNQWQLQQEKHLQHLAEVSAEVRERKTGTQQELDRVFQKLGNLKQQAEEQERDKLQRYQTFLQLLYTLQGKLLF
PEAEAEAENLPDDKPQQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLP

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FIGURE 2951

GATCGCGGAGTCGGTGCTTTAGTACGCCGCTGGCACCTTTACTCTCGCCGGCCGCGCGAACCCGTTTGAGCTCGG
TATCCTAGTGACACGCCTTTGCAAGCGACGGCGCCATGAGTCTGACTTCCAGTTCCAGCGTACGAGTTGAATGG
ATCGCAGCAGTTACCATTGCTGCTGGGACAGCTGCAATTGGTTATCTAGCTTACAAAAGATTTTATGTTAAAGAT
CATCGAAATAAAGCTATGATAAACCTTCACATCCAGAAAGACAACCCCAAGATAGTACATGCTTTTGACATGGAG
GATTTGGGAGATAAAGCTGTGTACTGCCGTTGTTGGAGGTCCAAAAAGTTCCCATTTCTGTGATGGGGCTCACACA
AAACATAACGAAGAGACTGGAGACAATGTGGGCCCTCTGATCATCAAGAAAAAAGAACTTAAATGGACACTTTT
GATGCTGCAAATCAGCTTGTCGTGAAGTTACCTGATTGTTTAATTAGAATGACTACCACCTCTGTCTGATTACCC
TTCGCTGGATTCTAAATGTGGTATATTGCAAACGTCAGCTTTCACATTTATGGCATTGCTCTTGTGAAACATCG
TGGTGACATTTGTTTAAACAAAAAAAAAAAAAAAAA

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FIGURE 2952

MSLTSSSSVRVEWIAAVTIAAGTAAIGYLAYKRFYVKDHRNKAMINLHIQKDNPKIVHAFDMEDLGDKAVYCRW
RSKKFPFCDGAHTKHNEETGDNVGPLIIKKKET

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FIGURE 2953

GGAAAGAAGGCCAAGGGAAAGAAGGTGGTTCCGGCCCCTGCTGTCATGAAGAAGCAGGAGGCTAAGAAAGTGGTG
AATCCCCCTGTTTGAGAAACGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCCAAAAGACACTTCACCCGC
TTTGTGAAATGGCCCTGCTATATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGGGGCTGAAAGTGCCTCCT
GCGATTAACCAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCCCACAAGTACAGA
CCAGAGACAAAAGACACTTTGGCTAAGCTGGTGGAAGCTATCAGGACCAATTACAACGACAGATACAGATACGAT
GAGATCCGCTGTCACTGGGGCAGCAACGTCCCTGGGTCCTAAGTCCGTGGCTCGTATCGCCAAGCTCGAAAAGGCA
AAGGCTAAAGAAGTGGCACTAACTGGGTTAAATGTACACTGTTGAGTTTTCTGTACATAAAAAATAATTAAAT
AA

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FIGURE 2954

MKKQEAKKVVNPLFEKRPKNFGIGQDIQPKRHFTRFVKWPCYIRLQQRAILYKGLKVPPAINQFTQALDRQTAT
QLLKLAKHYRPETKDTLAKLVEAIRTNYNDRYRYDEIRCHWGSNVLGPKSVARIAKLEKAKAKELATKLG

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FIGURE 2955

CCGTTGTGGCGAGCGCTACACGAGGCCAAACGACTTCTCCCTTCTTTGAACTGGACCCCGCGAGCACCAGAGTCGG
CGTAACTATCGCCTGACAGGCATTTAAATCAAACGGTATTGAGATGGATTGGGTTATGAAACATAATGGTCCAAA
TGACGCTAGTGATGGGACAGTACGACTTCGTGGACTACCATTGGTTGCAGCAAAGAGGAAATAGTTCAGTTCTT
TCAAGGGTTGGAAATCGTGCCAAATGGGATAACATTGACGATGGACTACCAGGGGAGAAAGCACAGGGGAGGCCTT
CGTGCAGTTTGTCTTCAAAGGAGATAGCAGAAAATGCTCTGGGGAAACACAAGGAAAGAATAGGGCACAGGTATAT
TGAGATCTTCAGAAGTAGCAGGAGTGAAATCAAAGGATTTTATGATCCACCAAGAAGATTGCTGGGACAGCGACC
GGGACCATATGATAGACCAATAGGAGGAAGAGGGGGTTATTATGGAGCTGGGCGTGGAAGTATGTATGACAGAAT
GCGACGAGGAGGTGATGGATATGATGGTGGTTATGGAGGTTTTGATGACTATGGTGGCTATAATAATTACGGCTA
TGGGAATGATGGCTTTGATGACAGAATGAGAGATGGAAGAGGTATGGGAGGACATGGCTATGGTGGAGCTGGTGA
TGCAAGTTCAGGTTTTTCATGGTGGTCATTTTCGTACATATGAGAGGGTTGCCTTTTTCGTGCAACTGAAAATGACAT
TGCTAATTTCTTCTCACCCTAAATCCAATACGAGTTCATATTGATATTGGAGCTGATGGCAGAGCCACAGGAGA
AGCAGATGTAGAGTTTGTGACACATGAAGATGCAGTAGCTGCCATGTCTAAAGATAAAAATAACATGCAACATCG
ATATATTGAACTCTTCTTGAATTCTACTCCTGGAGGCGGCTCTGGCATGGGAGGTTCTGGAATGGGAGGCTACGG
AAGAGATGGAATGGATAATCAGGGAGGCTATGGATCAGTTGGAAGAAATGGGAATGGGGAACAATTACAGTGGAGG
ATATGGTACTCCTGATGGTTTTGGGTGGTTATGGCCGTGGTGGTGGAGGCAGTGGAGGTTACTATGGGCAAGGCGG
CATGAGTGGAGGTGGATGGCGTGGGATGTACTGAAAGCAAAAACACCAACATACAAGTCTTGACAACAGCATCTG
GTCTACTAGACTTTCTTACAGATTTAATTTCTTTTGTATTTTAAGAACTTTATAATGACTGAAGGAATGTGTTTT
CAAAATATTATTTGGTAAAGCAACAGATTGTGATGGGAAAATGTTTTCTGTAGGTTTATTTGTTGCATACTTTGA
CTTAAAAATAAAATTTTTATATTCAAACCACTGATGTTGATACTTTTTATATACTAGTTACTCCTAAAGATGTGCT
GCCTTCATAAGATTTGGGTTGATGTATTTTACTATTAGTTCTACAAGAAGTAGTGTGGTGTAAATTTTAGAGGATA
ATGGTTACCTCTGCGTAAACTGCAAGTCTTAAGCAGACATCTGGAATAGAGCTTGACAAATAATTAGTGTAAC
TTTTTCTTTAGTTCCCTCCTGGACAACACTGTAAATATAAAGCCTAAAGATGAAGTGGCTTCAGGAGTATAAATTC
AGCTAATTATTTCTATATTATTATTTTTCAAATGTCATTTATCAGGCATAGCTCTGAAACATTGATGATCTAAGA
GGTATTGATTTCTGAATATTCTAATTTGTGTTACCTGGGTATGAGAGTGTGGAAGCTGAATTTAGCCCTAGAT
TTTGGAGTAAAACCCCTTCAGCACTTGACCGAAATACCAAAAATGTCTCCAAAAAATTGATAGTTGCAGGTTATC
GCAAGATGTCTTAGAGTAGGGTTAAGGTTCTCAGTGACACAAGAATTCAGTATTAAGTACATAGGTATTTACTAT
GGAGTATAATTCTCACAATTGTATTTTCAGTTTTCTGCCCAATAGAGTTTAAATAACTGTATAAATGATGACTTT
AAAAAATGTAAGCAACAAGTCCATGTCTATAGTCAATAAAAAACAATCCTGCAGTTGGGTTTTGTATCTGATCCCT
GCTTGGAGTTTTAGTTTAAAGAATCTATATGTAGCAAGGAAAAGGTGCTTTTTAATTTTAAATCCCTTTGATCAAT
ATGGCTTTTTTCCAAATTGGCTAATGGATCAAAATGAAACCTGTTGATGTGAATTCAGTTATTGAACCTTGTTACT
TGTTTTTGCCAGAAATGTTATTAATAAATGTCAATGTGGGAGATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2956

MDWVMKHNGPNDASDGTVRLRGLPFGCSKEEIVQFFQGLEIVPNGITLTMDYQGRSTGEAFVQFASKEIAENALG
KHKERIGHRYIEIFRSSRSEIKGFYDPPRLLGQRPGPYDRPIGGRGGYYGAGRGS MYDRMRGGDGYDGGYGGF
DDYGGYNNYGYGNDGFDDRMRDGRGMGGHGYGGAGDASSGFHGGHFVHMRGLPFRATENDIANFFSPLNPIRVHI
DIGADGRATGEADVEFVTHEDAVAAMSKDKNNMQHRYIELFLNSTPGGGSGMGGSGMGGYGRDGM DNQGGYGSVG
RMGMGNNYSGGYGTPDGLGGYGRGGGSGGYYGQGGMSGGGWRGMY

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FIGURE 2957

GCATGGCCAAGGCCGGGCGGCGCCTTGCCCCGCTTCCTTTACGCTGTCGCTGCCCGTAGGTGGTTGTGGCCA
CTGTGCCCGGAGGGAGGGCGGCGGTGGCCAGTAATGCCTGGGAAACTCCTCTGGGGGGACATTATGGAGCTGGAAG
CACCCCTTGAGGAGTCCGAGAGCCAGAAGAAGGAGAGGGCAAAAGAGTGACAGAAGGAAGTCAAGGCACCATTATG
ACTCGGATGAGAAATCAGAAACAAGAGAAAAATGGTGTTACAGATGACCTGGATGCTCCCAAGGCCAAAAAATCTA
AAATGAAAGAGAAGCTAAATGGAGACACTGAAGAAGGATTTAATAGACTTTTCAGATGAATTCTCCAAATCTCATA
AGTCAAGAAGAAAAGATCTACCAAATGGAGATATAGATGAATATGAAAAAAATCAAAGCGAGTATCATCTTTAG
ATACTTCTACTCATAAATCAAGTGATAATAAACTAGAGGAGACCTTAACACGTGAACAGAAAGAAGGAGCCTTCT
CCAATTTTCTATTTCTGAAGAGACTATAAAGCTTCTGAAAGGTGCGAGGGGTAACATATCTCTTTCTATTCAAG
TTAAGACCTTTGGTCTGTATATGAAGGAAAAGATTTAATAGCTCAAGCACGGACAGGAACAGGAAAGACATTCT
CTTTTGCCATCCCTTAATTGAAAGACTCCAAAGAAATCAAGAAACAATTAAGGCGCTCACCAAAGGTAC
TTGTTTTGGCTCCAACAAGGGAAGTGGCAAACCAAGTAGCCAAAGACTTCAAAGATATAACTAGGAAACTCAGCG
TGGCGTGTTTTTATGGTGGAACATCATATCAAAGCCAAATTAATCATATTGCAATGGTATTGACATCTTGGTTG
GAACACCTGGTCGTATCAAAGACCATCTGCAGAGTGGCCGATTGGATCTTTCTAAACTGCGACATGTTGTGCTTG
ATGAAGTGGATCAGATGTTAGATTTAGGTTTTCGCTGAACAAGTTGAAGATATTATTCATGAATCCTACAAAAGT
ATTCTGAAGACAATCCTCAGACTTTACTTTTTCTGCAACTTGCCACAGTGGGTATACAAAGTTGCAAAAAAT
ACATGAAATCCAGATATGAACAGGTTGACCTTGTTGGAAAAATGACTCAAAGGCTGCAACTACTGTGGAACATT
TGGCCATCCAGTGTCAATTGGTCTCAGAGGCCAGCAGTTATTGGAGATGTCCTTCAAGTCTACAGTGGGTCTGAAG
GGAGGGCTATTATTTTCTGTGAGACCAAGAAGAATGTAAGTGAATGGCCATGAATCCACACATAAAACAGAATG
CCCAGTGTTTACATGGGGACATTGCACAGTCACAAAGAGAAATTACACTAAAAGGCTTCAGAGAAGGTAGTTTTA
AAGTTTTGGTGGCAACCAATGTGGCTGCCCGTGGTTTTGGACATTCTGAAAGTTGACCTGGTGATTCAAAGTTCTC
CTCCTCAGGATGTTGAGTCTTATATCCATCGCTCTGGACGCACAGGTAGAGCTGGACGGACAGGGATTTGTATAT
GTTTTTATCAACCAAGAGAAAAGAGGTCAACTAAGATATGTGGAACAAAAAGCAGGAATTACTTTTAAACGTGTAG
GTGTTCTTCTACAATGGATTTAGTTAAATCTAAAAGCATGGATGCCATCAGGTCTCTGGCTTCCGTTTTCTTATG
CTGCTGTTGATTTTTTCCGACCATCAGCTCAGAGACTGATAGAAGAGAAAAGGTGCAGTGGATGCATTGGCTGCAG
CTTTAGCCACATTTCTGGTGCATCAAGCTTTGAACCACGATCTTTGATCACCTCTGATAAGGGGTTTGTGACCA
TGACTCTGGAAGCCTAGAGGAAATACAGGATGTCAGCTGTGCTTGGAAAGAACTTAACAGAAAGCTGAGTAGTA
ATGCAGTGTCTCAGATTACCAGAAATGTGCCTCCTGAAAGGAAATATGGGTGTTTGCTTTGATGTTTCTACAACTG
AGTCAGAAAGGTTACAGGCAGAGTGGCATGATTCCGACTGGATACTCTCAGTGCCAGCCAAATTACCTGAAATTG
AAGAATATTATGATGGAAACACATCTTCTAATTCCAGACAGAGGAGTGGCTGGTCAAGTGGTTCGATCAGGCCGGT
CAGGCCGGTCAGGTGGTTCGATCTGGCGGCCGGTCAGGTAGACAGAGTCGACAAGGAAGTCGCTCAGGAAGTCGAC
AAGATGGTAGAAGACGAAGTGGGAATAGAAATCGATCAAGAAGTGGGGGCCACAAACGGAGTTTTGACTGAGTAT
TTGATAGTTAATCTACCAGTGTGAGCTTGCTATTTCTGCCTAATCATGTACATTATCCACCAAAAATTAGGTCA
TCATAGTTGAGGTATGTGCTGCTATTTGCAAGAAGTTGGTCGTATTTTTTAAAAAGTATTTTACAAGAATGG
AACAAATCTACTTATCCAGTTATACCTTTGAATAAAAAAACCTCCTTTTATTGTCTCTTTTCAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2958

MPGKLLWGDIMELEAPLEESQKKERQKSDRRKSRHHYDSDEKSETRENGVTDDLDAPKAKKSKMKEKLNKDTE
EGFNRLSDEFKSHKSRKDLPNGDIDEYEKKSKRVSSLDTSTHKSSDNKLEETLTREQKEGAFSNFPISEETIK
LLKGRGVTYLFPPIQVKTFGPVYEGKDLIAQARTGTGKTFSFAIPLIERLQRNQETIKKSRSPKVLVLAPTRELAN
QVAKDFKDITRKL SVACFYGGTSYQSQINHIRNGIDILVGTPGRIKDHLQSGRLDLSKLRHVVLDEVDQMLDLGF
AEQVEDIIHESYKTDSEDNPQTLLFSATCPQWVYKVAKKYMKSRYEQVDLVGKMTQKAATTVEHLAIQCHWSQRP
AVIGDVLQVYSGSEGRAIIFCETKKNVTEMAMNPHIKQNAQCLHGDIAQSOREITLKGFRSGSKVLVATNVAAR
GLDIPEVDLVIQSSPPQDVESYIHRSGRTGRAGRTGICICFYQPRERGQLRYVEQKAGITFKRVGVPSTMDLVKS
KSMDAIRSLASVSYAAVDFFRPSAQRLIEEKGAVDALAAALAHISGASSFEPRSLITSDKGFVTMTLESLEEIQD
VSCAWKELNRKLSSNAVSQITRMCLLKGNMGVCFDVPPTTESERLQAEWHDSDWILSVPAKLPEIEEYYDGNTSSN
SRQ RSGWSSGRSGRSGRSGGRSGGRSGRQSRQGRSGSRQDGRRRSGNRNRNRSGGHKRSFD

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FIGURE 2959

CTACCTCTTCCTCTCCACGCGGTTGAGAAGACCGGTCGGCCTGGGCAACCTGCGCTGAAGATGCCGGGAAAACCTC
CGTAGTGACGCTGGTTTTGGAATCAGACACCGCAATGAAAAAGGGGAGACACTGCGAAAGCAAACCGAGGAGAAA
GAGAAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGAAACTGTTTTCCCAAAGC
TAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCCTAAATCCAAAAAGGCAAAAAAGAA
AGAGGAGCCATCTCAAAATGACATTTCTCCTAAAACCAAAGTTTGAGAAAGAAAAAGGAGCCCATTGAAAAGAA
AGTGGTTTTCTTCTAAAACCAAAGAGTGACAAAAAATGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCC
CAAGAAGATGAAGAAAGAAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCCAACTGAAGAATGGATTTCC
TCATCCTGAACCGGACTGTAAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGAGATAGAGCAGGAAATACC
TGTGGAACAAAAAGAAGGCGCTTTCTCTAATTTTCCCATATCTGAAGAACTATTAAACTTCTCAAAGGCCGAGG
AGTGACCTTCCTATTTTCTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAAGGACTTAATTGCACAGGC
ACGGACAGGAACCTGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAACTTCATGGGGAACTGCAAGACAG
GAAGAGAGGCCGTCGCCCTCAGGTACTGGTTCTTGACCTACAAGAGAGTTGGCAAATCAAGTAAGCAAAGACTT
CAGTGACATCACAAAAAGCTGTCAAGTGGCTTGTTTTTATGGTGAACTCCCTATGGAGGTCAATTTGAACGCAT
GAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTGCTATCAAAGACCACATACAGAATGGCAAACCTAGATCT
CACCAACTTAAGCATGTTGTCTGGATGAAGTGGACCAGATGTTGGATATGGGATTTGCTGATCAAGTGAAGA
GATTTTAAGTGTGGCATAACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTTTTCTGCAACTTGCCCTCA
TTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCTGATTGGTAAAAAGACTCA
GAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGCAGCAGTTATTGGGGATGT
CATCCGAGTATATAGTGGTCATCAAGGACGCACCTATCATCTTTTGTGAACCAAGAAAGAAAGCCAGGAGCTGTC
CCAGAATTCAGCTATAAAGCAGGATGCTCAGTCCTTGTCATGGAGACATTCCACAGAAGCAAAGGGAAATCACCTT
GAAAAGTTTTAGAAATGGTAGTTTTTGGAGTTTTTGGTGGCAACCAATGTTGCTGCACGTGGGTTAGACATCCCTGA
GGTTGATTGGTTTATACAAAGCTCTCCACCAAAGGATGTAGAGTCTACATTCATCGATCCGGGCGGACAGGCAG
AGCTGGAAGGACGGGGGTGTGCATCTGCTTTTATCAGCACAAAGGAAGAATATCAGTTAGTACAAGTGGAGCAAAA
AGCGGGAATTAAGTTCAAACGAATAGGTGTTCTTCTGCAACAGAAATAATAAAAGCTTCCAGCAAAGATGCCAT
CAGGCTTTTGGATTCCGTGCCTCCCCTGCCATTAGTCACTTCAAACAATCAGCTGAGAAGCTGATAGAGGAGAA
GGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTAGGTGCCACGTCCGTAGACCAGCGCTCCTTGAT
CAACTCAAATGTGGGTTTTGTGACCATGATCTTGCACTGCTCAATTGAAATGCCAAATATTAGTTATGCTTGGA
AGAACTTAAAGAGCAGCTGGGCGAGGAGATTGATTCCAAAGTGAAGGGAATGGTTTTTCTCAAAGGAAAGCTGGG
TGTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGATTACAGACGCTGGCAGCT
CTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCTTCAGGGGACAGCGGGAAGG
CAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTAGAGGACAGCGGGAAGGCAGTAGAGGCCCGAG
AGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAACAAAGGCCAGAAGCGGAGTTTCAGTAAAGC
ATTTGGTCAATTAATTAGAAATAGAAGATTTATATAGCAAAAAGAGAATGATGTTTGGAATATAGAACTGAACAT
TATTTTTCATGCAAAGTTAAAAGCACATTGTGCCTCCTTTTGACCACTTGCCAAGTCCCTGTCTCTTCAGACAC
AGACAAGCTTCATTTAAATTATTTTCATCTGATCATTATCATTATAACTTTATTGTTACTTCATCAGTTTTTCCT
TTTGAAAGGTGATGAATTCATTACATTTTATTCTAATGTATTATCTGTAGATTAGAAGATAAAAATCAAGCATG
TATCTGCCTATACTTTGTGAGTTCACCTGTCTTTATACTCAAAGTGTCCTTAATAGTGTCCCTTCCCTGAAATA
AATACCTAAGGGAGTGTAACAGTCTCTGGAGGACCACTTTGAGCCTTTGGAAGTTAAGGTTTCCTCAGCCACCTG
CCGAACAGTTTCTCATGTGGTCCTATTATTTGTCTACTGAGACTTAATACTGAGCAATGTTTTGAAACAAGATTT
CAAATAATCTGGGTTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGGAAGATGTAGTATGTTTGATGTG
GATTACCTATACTTATGTTTCGTTTTTGATACATTTTTAGCTTCTCATTATAAGGTGATTCATGCTTTAGTGAATTC
TTCATAGATAGTATATATAAAAGTACATTTTAATAGAAAGCCAGGGTTTTAAGGAATTTACATGTATAAGGTGG
CTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCTATTGGA
AGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGCATTGCTCAAGAGTATGTAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2960

MNSPKSKKAKKKKEEPSQNDISP KTKSLRKKKEPIEKKVSSKTKKVTKNEEPSEEEIDAPKPKMKKEKEMNGET
REKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTFLEPIQAKTFH
HVYSGKDLIAQARTGTGKTFSFAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELANQVSKDFSDITKKLSVACFY
GGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVVLDQMLDMGFADQVEEILSVAYKKDSEDN
PQTLLEFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRAAVIGDVIRVYSGHQGRITII
FCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAARGLDIPEVDLVIQSSPPKDV
ESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEI IKASSKDAIRLLDSVPPTAISH
FKQSAEKLIEEKGAVEALAAALAHISGATSVDQORSLINSNVGFVTMILQCSIEMPNISYAWKELKEQLGEEIDSK
VKGMVFLKGKLGVCFDVPTASVTEIQEKWHD SRRWQLSVATEQPELEGPREGYGGFRGQREGSRGFRGQRDGNRR
FRGQREGSRGPRGQRSGGGNKS NRSQNKGQKRSFSKAFGQ

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FIGURE 2961

GAATTCCGCTAGACTAAGTTGGTCATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGTCTTGGCTCTTGCCCTC
ATCCTGGTTCTGGAATCCTCAGTTCAAGGTTATCCTACGCAGAGAGCCAGGTACCAATGGGTGCGCTGCAATCCA
GACAGTAATTCTGCAAACCTGCCTTGAAGAAAAAGGACCAATGTTTGAAGTACTTCCAGGTGAATCCAACAAGATC
CCCCGTCTGAGGACTGACCTTTTTTCCAAAGACGAGAATCCAGGACTTGAATCGTATCTTCCCACTTTCTGAGGAC
TACTCTGGATCAGGCTTCGGCTCCGGCTCCGGCTCTGGATCAGGATCTGGGAGTGGCTTCCTAACGGAAATGGAA
CAGGATTACCAACTAGTAGACGAAAAGTGATGCTTTCCATGACAACCTTAGGTCTCTTGACAGGAATCTGCCCTCA
GACAGCCAGGACTTGGGTCAACATGGATTAGAAGAGGATTTTATGTTATAAAAGAGGATTTTCCACCTTGACAC
CAGGCAATGTAGTTAGCATATTTTATGTACCATGGTTATATGATTAATCTTGGGACAAAAGATTTTATAGAAATT
TTTAAACATCTGAAAAAGAAGCTTAAGTTTTATCATCCTTTTTTTTTCTCATGAATTCCTTAAAGGATTATGCTTTA
ATGCTGTTATCTATCTTATTGTTCTTGAAAATACCTGCATTTTTTTGGTATCATGTTCAACCAACATCATTATGAA
ATTAATTAGATTCCCATGGCCATAAAATGGCTTTAAAGAATATATATATATATTTTTTAAAGTAGCTTGAGAAGCAAA
TTGGCAGGTAATATTTTATACCTAAATTAAGACTCTGACTTGGATTGTGAATTATAATGATATGCCCTTTTCTT
ATAAAAAACAAAAAAAATAATGAAACACAGTGAATTTGTAGAGTGGGGTATTTGACATATTTTACAGGGTGA
GTGTACTATATACTATTACCTTTGAATGTGTTTGCAGAGCTAGTGGATGTGTTTGTCTACAAGTATGATTGCTGT
TACATAACACCCCAAATTAACCTCCCAAATTAACACAGTTGTGCTGTCAATACCTCATACTGCTTTACCTTTTT
TTCCTGGATATCTGTGTATTTTCAAATGTTACTATATATTAAAGCAGAAATATAACC

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FIGURE 2962

MMQKLLKCSRLVLALALILVLESSVQGYPTQRARYQWVRCNPDSNSANCLEEKGPMPFELLPGESNKIPRLRTDLF
PKTRIQDLNRIFPLSEDYSGSGFGSGSGSGSGSGSGFLTEMEQDYQLVDESDAFHDNLRSLDRNLPSDSQDLGQH
GLEEDFML

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FIGURE 2963

GAACGCCGGTGGCGGGGCTGGTAGCCCGGCAGCCGCAGGTGGGGCCACGAGCGCTGGCTGAGGGACCGAGCCGGA
GAGCCCCGGAGCCCCCGTAACCCGCGCGGGGAGCGCCCAGGATGCCGCGCGGGGACTCGGAGCAGGTGCGCTACT
GCGCGCGCTTCTCCTACCTCTGGCTCAAGTTTTCTACTTATCATCTATTCCACCGTGTCTGGCTGATTGGGGCCC
TGGTCCTGTCTGTGGGCATCTATGCAGAGGTTGAGCGGCAGAAATATAAAACCCCTTGAAAGTGCCTTCCTGGCTC
CAGCCATCATCCTCATCCTCCTGGGCGTCGTTCATGTTTCATGGTCTCCTTCATTGGTGTGCTGGCGTCCCTCCGTG
ACAACCTGTACCTTCTCCAAGCATTTCATGTACATCCTTGGGATCTGCCTCATCATGGAGCTCATTGGTGGCGTGG
TGGCCTTGACCTTCCGGAACCAGACCATTGACTTCCTGAACGACAACATTCGAAGAGGAATTGAGAACTACTATG
ATGATCTGGACTTCAAAAACATCATGGACTTTGTTTCAGAAAAAGTTCAAGTGCTGTGGCGGGGAGGACTACCGAG
ATTGGAGCAAGAATCAGTACCACGACTGCAGTGCCCTGGACCCCTGGCCTGTGGGGTGCCCTACACCTGCTGCA
TCAGGAACACGACAGAAGTTGTCAACACCATGTGTGGCTACAAAACATATCGACAAGGAGCGTTTCAGTGTGCAGG
ATGTCATCTACGTGCGGGGCTGCACCAACGCCGTGATCATCTGGTTTCATGGACAACCTACACCATCATGGCGGGCA
TCCTCCTGGGCATCCTGCTTCCCCAGTTCTGGGGGTGCTGCTGACGCTGCTGTACATCACCCGGGTGGAGGACA
TCATCATGGAGCACTCTGTCACTGATGGGCTCCTGGGGCCCGGTGCCAAGCCCAGCGTGAGGCGGCAGGCACGG
GATGCTGCTTGTGCTACCCCAATTAGGGCCCAGCCTGCCATGGCAGCTCCAACAAGGACCGTCTGGGATAGCACC
TCTCAGTCAACATCGTGGGGCTGGACAGGGCTGCGGGCCCTCTGCCCACACTCAGTACTGACCAAAGCCAGGGCT
GTGTGTGCCTGTGTGTAGGTCCCACGGCCTCTGCCTCCCCAGGGAGCAGAGCCTGGGCCTCCCCTAAGAGGCTTT
CCCCGAGGCAGCTCTGGAATCTGTGCCACCTGGGGCCTGGGGAACAAGGCCCTCCTTTCTCCAGGCCTGGGCTA
CGGGGGAGGGAGAGCCTGAGGCTCTGCTCAGGGCCCATTTTCATCTCTGGCAGTGCCCTTGGCGGTGGTATTCAAGG
CAGTTTTGTAGCACCTGTAATTGGGGAGAGGGAGTGTGCCCTCGGGGCAGGAGGGAAGGGCATCTGGGGAAGGG
CAGGAGGGAAGAGCTGTCCATGCAGCCACGCCCATGGCCAGGTTGGCCTCTTCTCAGCCTCCCAGGTGCCTTGAG
CCCTCTTGCAAGGGCGGCTGCTTCCTTGAGCCTAGTTTTTTTTACGTGATTTTTTGTAACATTCATTTTTTTGTACA
GATAACAGGAGTTTCTGACTAATCAAAGCTGGTATTTCCCCGCATGTCTTATTCTTGCCCTTCCCCCAACCAGTT
TGTTAATCAAACAATAAAAACATGTTTTTTTTT

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FIGURE 2964

GGGCTCTCTCCTTGTCTCAGTCGGCGCCGCGTGC GGGCTGGTGGCTCTGTGGCAGCGGCGGGCGGCAGGACTCCGGCA
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCCGCGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA
AAGGACAATATATATCTCCATTTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTTACATGGTAGTTGAAG
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCTATTAAACAAGATGTGAAAA
AAGGAAAACCTTCGCTATGTTGCGAATTTGTTCCCGTATAAAAGGATATATCTGGAACTATGGTGCCATCCCTCAGA
CTTGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAA
TTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCCCTGATGGAAAC
CAGAAAATGAGTTTGCGTTTAATGCAGAATTTAAAGATAAGGACTTTGCCATTGATATTATTAAAGCACTCATG
ACCATTGGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACCTTTGTCTGAGA
GCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCCTGTGAATCTGCCTGCA
CAGTACCAACAGACGTGGATAAGTGGTTCCATCACCAGAAAACTTAATGAGATTTCTCTGGAATACAAGCTGATA
TTGCTACATCGTGTTTCATCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC
ATCTAACTAAAGTAAATTCTGCTGTGACTAATCCAATATACTCAGAATGTTATCCATCTAAAGCATTTTTTCATAT
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCAATTTGGAAGTCACTTGTGAATAGATG
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAA
AAAAAA

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FIGURE 2965

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPYADKDVFMVVEVPRWSNAKMEIATKDPLNPIKQDVKK
GKLRVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRRYKVPDGKPENEFAFNAEFKDKDFAIDI IKSTHD
HWKALVTKKTNGKGISCMNTTLESFPFKCDPDAARAIVDALPPPESACTVPTDVKWFHHQKN

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FIGURE 2966A

ATGAGCTGCTCAAGGCTCATTACACGTTGGGCCGGCTCTCGGACAACACCCCTGAGCACTACCTGGTGCAAGGCC
GCTACTTCCTGGTGCGGGATGTCACTGAGAAGATGGATGTGCTGGGCACCGTGGGAAGCTGTGGGGCCCCCACT
TCCGGCAGGTGCAGGGTGGGCTCACTGTGTTCTGGCATGGGACAGCCAGCCTCTCAGGGTTTCAGGCGGGTCTCTC
AGAAACTCCAGAAGGACGGACATAGGGAGTGTGTCACTCTTCTGTGTGCGGGAGGAACCTGTGCTTTTCTGCGTG
CAGATGAGGACTTTGTGTCTACACACCTCGAGACAAGCAGAACCTTCATGAGAACCTCCAGGGCCTTGAGCCCG
GGGTCCGGGTGGAGAGCCTGGAGCTGGCCATCCGGAAAGAGATCCACGACTTTGCCCAGCTGAGCGAGAACACAT
ACCATGTGTACCATAACACCGAGGACCTGTGGGGGGAGCCCCATGCTGTGGCCATCCATGGTGAGGACGACTTGC
ATGTGACGGAGGAGGTGTACAAGCGGCCCCCTCTTCTGCAGCCCACCTACAGGTACCACCGCCTGCCCCTGCCCG
AGCAAGGGAGTCCCCTGGAGGCCCAGTTGGACGCCCTTTGTCAGTGTTCTCCGGGAGACCCCCAGCCTGCTGCAGC
TCCGTGATGCCACGGGCCTCCCCCAGCCCTCGTCTTCAGCTGCCAGATGGGCGTGGGCAGGACCAACCTGGGCA
TGGTCTTGGGCACCTCATCTGCTTCACCGCAGTGGGACCACCTCCCAGCCAGAGGCTGCCCCCAGCAGGCCA
AGCCCCTGCTATGGAGCAGTTCCAGGTGATCCAGAGCTTTCTCCGCATGGTGCCCCAGGGAAGGAGGATGGTGG
AAGAGGTGGACAGAGCCATCACTGCCTGTGCCGAGTTGCATGACCTGAAAGAAGTGGTCTTGAAAACAGAGA
AGTTAGAAGGTATCCGACCGGAGAGCCCAGCCCAGGGAAGCGGCAGCCGACACAGCGTCTGGCAGAGGGCGCTGT
GGAGCCTGGAGCGATACTTCTACCTGATCCTGTTAACTACTACCTTCATGAGCAGTACCCGCTGGCCTTTGCC
TCAGTTTCAGCCGCTGGCTGTGTGCCACCCTGAGCTGTACCGCCTGCCGTGACGCTGAGCTCAGCAGGCCCTG
TGGCTCCGAGGGACCTCATCGCCAGGGGCTCCCTACGGGAGGACGATCTGGTCTCCCCGGACGCGCTCAGCACTG
TCAGAGAGATGGATGTGGCCAACTTCCGGCGGGTGCCCCGCATGCCATCTACGGCACGGCCCAGCCCAGCGCCA
AGGCCCTGGGGAGCATCCTGGCCTACCTGACGGACGCCAAGAGGAGGCTGCGGAAGGTTGTCTGGGTGAGCCTTC
GGGAGGAGGCCGTGTTGGAGTGTGACGGGCACACCTACAGCCTGCGGTGGCCTGGGGCCCCCTGTGGCTCCTGACC
AGCTGGAGACCCTGGAGGCCAGCTGAAGGCCCATCTAAGCGAGCCTCCCCCAGGCAAGGAGGGCCCCCTGACCT
ACAGGTTCCAGACCTGCCTTACCATGCAGGAGGTCTTCAGCCAGCACCGCAGGGCCTGTCTGGCCTCACCTACC
ACCGCATCCCCATGCCGGACTTCTGTGCCCCCGAGAGGAGGACTTTGACCAGCTGCTGGAGGCCCTGCGGGCCG
CCCTCTCCAAGGACCCAGGCACTGGCTTCGTGTTTCAGCTGCCTCAGCGGCCAGGGCCGTACCACAACCTGCGATGG
TGGTGGCTGTCTGGCCTTCTGGCACATCCAAGGCTTCCCCGAGGTGGGTGAGGAGGAGCTCGTGAGTGTGCCTG
ATGCCAAGTTCACTAAGGGTGAATTTTCAGGTAGTAATGAAGGTGGTGCAGCTGCTACCCGATGGGCACCGTGTGA
AGAAGGAGGTGGACGCAGCGCTGGACACTGTGACGAGACCATGACGCCCATGCACTACCACCTGCGGGAGATCA
TCATCTGCACCTACCGCCAGGCGAAGGCAGCGAAAGAGGCGCAAGAAATGCGGAGGCTGCAGCTGCGGAGCCTGC
AGTACTTGGAGCGCTATGTCTGCCTGATTCTCTTCAACGCGTACCTCCACCTGGAGAAGGCCGACTCCTGGCAGA
GGCCCTTCAGCACCTGGATGCAGGAGGTGGCATCGAAGGCTGGCATCTACGAGATCCTTAACGAGCTGGGCTTCC
CCGAGCTGGAGAGCGGGGAGGACCAGCCCTTCTCCAGGCTGCGCTACCGGTGGCAGGAGCAGAGCTGCAGCCTCG
AGCCCTCTGCCCCGAGGACTTGCTGTAGGGGGCCTTACTCCCTGTCCCCCACCACAGGGCCCCACGCAGGCC
TGGGGTGTCTGAGGTGCTCTTGGCTGGGAGCGCCCTGAGGGGTGCTGGCCTTGAAATGATTCCCCCACTTCTCTG
GAGAGCTGAGCGGAGTTGGGAGCCTTTTTAGAAAGAACTTTTTATAGGACAGGGAGACAGCACAGCCATCCCTT
GCAAACCACCAAGGTGTGTGGCTGACCTCCAGGGAGGAGCACTCACTGGAGTGCTCACAAGGTGCACACTGCTGT
GTGTACCTTGCAGACAGGCCGCGCTTCAGCCTCCAAGGGGCTCACTCCCCAGTTGCCAAACACTGTGGATCTCT
CTGTCTCTTCTCCCCCTCTCTCAGATTGGCCTGGCAGCCCTGGCACAGAGCAGACCCGGCCACTGGTAGCTCCC
CACTTCCTTACTCCTGCTGCTCTGCCATTGCCGCTCCCCCTGTTGCTGCCAAGCACTGCCCTCGGGCGTCTGGC
AGCCTGAGGTGGGTGGAGGGGACAGTGTCTGGATAGATCTATTATGTGAAAGGCAGCTTCACCCAGTTTTCTGG
ACTCTCATGCCCCATCTCCGACCTGGGAGACTTCAGGAATGACAACCTACCCAGCCTGGTGGGGCTGGCAGGAT
GGTGGAGGTTTTCTCAAGGAGCTGGAGACTTCAGGGAGCCCCCTCTCATGGGGAGGAAAGAGCTTCAGGGGGCGAA
CGCAGCACAGAGGAAGAGGCCTGCTCCACTTGTCTGGGAACCTGGGCAGGAGGCACAGAGGAAGCCAAGGCCTGG
AGCTGCAGGTCCCCCGGCATCTCTCTGTCCCAGGAGCCAGGATGGCCTGGTGCCCCACCTGCTGCAGCAGG
AGCCCCAAGGAGTGCTAGCTGAGGGTGGTTGCTGGGGTGGTCTCATGGACAGTGAGGTGTGCAAGGGTGCAGTG
AGGGTGGTGGGAGGGGATCACCTGGGTTCAGGCCATCCTTGCTGAGCATCTTTGAGCCTGCCTTCCGGTGGGAG
CAGAAAAGGCCAGACCCTGCTGAGTTAGAGGCTGCTGGGATCCACTGTTTCCACACAGCGGGAAGGCTGCTGGGA
ACAGGTGGCAGAGAAGTGCCATGTTTGCGTTGAGCCTTGACAGCTCTTCAGCTGGGGACTGGTGCTTGCTGAAAC
CCAGGAGCTGAACAGTGAGGAGGCTGTCCACCTTGCTTGGCTCACTGGGACCAGGAAAGCCTGTCTTGGTTAGG

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FIGURE 2966B

CTCGTGTA CTTCTGCAGGAAAAAAAAAAGGATGTGTCATTGGTCATGATATTTGAAAAGGGGAGGAGGCCGAA
GTTGTTCCCATTTATCCAGTATTGGAAAAATATTTGACCCCTTGGCTGAATTCTTTTGCAGAACTACTGTGTGTC
TGTTCACTACCTTTTCAGGTTTATTGTTTTTATTTTTGCATGAATTAAGACGTTTAAATTTCTTTGCAGACAAGG
TCTAGATGCGGAGTCAGAGATGGGACTGAATGGGGAGGGATCCTTTGTGTTCTCATGGTTGGCTCTGACTTTCAG
CTGTGTTGGGACCACTGGCTGATCACATCACCTCTCTGCCTCAGTTTCCCCATCTGTAAAATGGGAGAATAATAC
TTGCCTACCTACCTCACAGGGGTGTTGTGAGGATTCATTTGTGATTTTTTTTTTTTTTTTGTACAGAGCTTTTAAGC
ATTAAAAACAGCTAAATGTG

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FIGURE 2967

MGTTASTAQQTVSAGTPFEGLQGSGTMDSRHSVSIHSFQSTSLHNSKAKSIIPNKVAPVVITYNCKEEFQIHDEL
LKAHYTLGRLSDNTPEHYLVQGRYFLVRDVTEKMDVLGTVGSCGAPNFRQVQGGLTVFGMGQPSLSGFRRVLQKL
QKDGHRECVIFCVREEPVLFLRADEDFVSYTPRDKQNLHENLQGLGPGVRVESLELAIRKEIHDFAQLSENTYHV
YHNTEDLWGEPHAVAIIHGEDDLHVTEEVYKRPLFLQPTYRYHRLPLPEQGSPLEAQLDAFVSVLRETPSLLQLRD
AHGPPPALVFSCQMGVGRTNLGMVLGTLILLHRSGTTSQPEAAPTQAKPLPMEQFQVIQSFLRMVPQGRRMVEEV
DRAITACAEHLHDLKEVVLENQKKLEGIRPESPAQSGSGSRHSVWQRALWSLERYFYLIILFNYYLHEQYPLAFALSF
SRWLCAHPELYRLPVTLSAGPVAPRDLIARGSLREDDLVSPDALSTVREMDVANFRRVPRMPIYGTAQPSAKAL
GSILAYLTDAKRRLRKVVVWVSLREEAVLECDGHTYSLRWPGPPVAPDQLETLEAQLKAHLSEPPPGKEGPLTYRF
QTCLTMQEVFSQHRRACPGLTYHRIPMPDFCAPREEDFDQLEALRAALSKDPGTGFVFSCLSGQGRTTTAMVVA
VLAFWHIQGFPEVGEELVSVPAKFTKGEFQVVMKVQLLPDGHRVKKEVDAALDTVSETMTMPMHYHLREIIIC
TYRQAKAAKEAQEMRRLQLRSLQYLERVCLILFNAYLHLEKADSWQRPFSTWMQEVASKAGIYEILNELGFPEL
ESGEDQPFSRLRYRWQEQSCSLEPSAPEDLL

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FIGURE 2968

CCGCCGTCTAGCGCCCCGACCTCGCCACC**ATGA**GAGCCCTGCTGGCGCGCCTGCTTCTCTGCGTCCTGGTCGTGA
GCGACTCCAAAGGCAGCAATGAACTTCATCAAGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGT
CCAACAAGTACTTCTCCAACATTCAGTGGTGCAACTGCCCAAAGAAATTCGGAGGGCAGCACTGTGAAATAGATA
AGTCAAAAACCTGCTATGAGGGGAATGGTCACTTTTACCGAGGAAAGGCCAGCACTGACACCATGGGGCCGGCCCT
GCCTGCCCTGGAACCTCTGCCACTGTCTTCAGCAAACGTACCATGCCCACAGATCTGATGCTCTTCAGCTGGGCC
TGGGGAAACATAATTACTGCAGGAACCCAGACAACCGGAGGCGACCCCTGGTGCTATGTGCAGGTGGGCCTAAAGC
TGCTTGTCCAAGAGTGCATGGTGCATGACTGCGCAGATGGAAAAAGCCCTCCTCTCCTCCAGAAGAATTTAAAT
TTCAGTGTGGCCAAAAGACTCTGAGGCCCCGCTTTAAGATTATTGGGGGAGAATTCACCACCATCGAGAACCAGC
CCTGGTTTTCGGGCCATCTACAGGAGGCACCGGGGGGGCTCTGTACCTACGTGTGTGGAGGCAGCCTCATCAGCC
CTTGCTGGGTGATCAGCGCCACACACTGCTTCATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTCT
GCTCAAGGCTTAACCTCAACACGCAAGGGGAGATGAAGTTTGAGGTGGAAAACCTCATCTACACAAGGACTACA
GCGCTGACACGCTTGCTCACCACAACGACATTGCCTTGCTGAAGATCCGTTCCAAGGAGGGCAGGTGTGCGCAGC
CATCCCGGACTATACAGACCATCTGCCTGCCCTCGATGTATAACGATCCCCAGTTTGGCACAAGCTGTGAGATCA
CTGGCTTTGGAAAAGAGAATTCTACCGACTATCTCTATCCGGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTT
CCCACCGGGAGTGTGAGCAGCCCCACTACTACGGCTCTGAAGTCAACCACAAAATGCTGTGTGCTGCTGACCCAC
AGTGGAACAGATTCTGCCAGGGAGACTCAGGGGGACCCCTCGTCTGTTCCCTCCAAGGCCGCATGACTTTGA
CTGGAATTGTGAGCTGGGGCCGTGGATGTGCCCTGAAGGACAAGCCAGGCGTCTACACGAGAGTCTCACACTTCT
TACCCTGGATCCGCAGTCACACCAAGGAAGAGAATGGCTGGCCCTCT**TGA**GGGTCCCCAGGGAGGAAACGGGCAC
CACCCGCTTTCTTGCTGGTTGTCATTTTTGCAGTAGAGTCATCTCCATCAGCTGTAAGAAGAGACTGGGAAGATA
GGCTCTGCACAGATGGATTTGCCTGTGCCACCCACCAGGGCGAACGACAATAGCTTTACCCTCAGGCATAGGCCT
GGGTGCTGGCTGCCCAGACCCCTCTGGCCAGGATGGAGGGGTGGTCTGACTCAACATGTTACTGACCAGCAACT
TGTCTTTTTCTGGAAGCTGAAGCCTGCAGGAGTTAAAAAGGGCAGGGCATCTCCTGTGCATGGGTGAAGGGAGAGCC
AGCTCCCCCGACGGTGGGCATTTGTGAGGCCCATGGTTGAGAAATGAATAATTTCCCAATTAGGAAGTGTAAACAG
CTGAGGTCTCTTGAGGGAGCTTAGCCAATGTGGGAGCAGCGTTTGGGGAGCAGAGACACTAACGACTTCAGGGC
AGGGCTCTGATATTCCATGAATGTATCAGGAAATATATATGTGTGTGTATGTTGCACACTTGTGTGTGGGCTGT
GAGTGTAAGTGTGAGTAAGAGCTGGTGTCTGATTGTTAAGTCTAAATATTTCCCTTAACTGTGTGGACTGTGATG
CCACACAGAGTGGTCTTTCTGGAGAGGTTATAGGTCACTCCTGGGGCCTCTTGGGTCCCCACGTGACAGTGCCT
GGGAATGTATTATTCTGCAGCATGACCTGTGACCAGCACTGTCTCAGTTTCACTTTACATAGATGTCCCTTTCT
TGGCCAGTTATCCCTTCCCTTTTAGCCTAGTTCATCCAATCCTCACTGGGTGGGTGAGGACCCTCCTGTACACT
GAATATTTATATTTCACTATTTTTATTTATATTTTTGTAATTTTAAATAAAAGTGATCAATAAAATGTGATTTTT
CTGA

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FIGURE 2969

MRALLARLLLCVLLVSDSKGSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNG
HFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLKLLVQECMVHD
CADGKKPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISPCWVISATHC
FIDYPPKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQTICL
PSMYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVKLISHRECQQPHYYGSEVTTKMLCAADPQWKTDSCQGD
SGGPLVCSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPWIRSHTKEENGLAL

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FIGURE 2970

GCGGATCATCCGCTTCCGGAGTCGAGGTTTTTCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTGGCTTGCAG
GTTCTTTCTGTGTTTGTTCTCTGCCCTGCCAAGGCCGTAGAGCTGGTGCGTGCGGGTAGCGGGGCTCTCCGAGGA
GCCGCACGCCGGCGGCACCATGGTCCACCTCACTACTCTCCTCTGCAAGGCCTACCGTGGGGGCCACTTAACCAT
CCGCCTTGCCCTGGGTGGCTGCACCAATCGGCCGTTCTACCGCATTGTGGCTGCTCACAACAAGTGTCCCAGGGA
TGGCCGTTTTCGTAGAGCAGCTGGGCTCCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCTCAA
CCTAGACAGGATCCGTCATTGGATTGGCTGCGGGGGCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTGC
TGGCTTTTTCCCTCTGCATCCTATGATGATCACAAATGCTGAGAGACTGCGAAGGAAACGGGCACGTGAAGTCCT
GTTAGCTTCTCAGAAAACAGATGCAGAAGCTACAGATACAGAGGCTACAGAAACATAAATGAGCTGACTTTAGTG
AGCATAGCAGTGGGAACAAGGTCAAGGTCCTTTTGAAACACTGCAGCGATCTTAATTTTGTAGATTTGGAGTTC
AATAAATGGAGTATCCTG

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FIGURE 2971

GCAGCAGGCCAAGGGGGAGGTGCGAGCGTGGACCTGGGACGGGTCTGGGCGGCTCTCGGTGGTTGGCACGGGTTC
GCACACCCATTCAAGCGGCAGGACGCACTTGTCTTAGCAGTTCTCGCTGACCGCGCTAGCTGCGGCTTCTACGCT
CCGGCACTCTGAGTTTCATCAGCAAACGCCCTGGCGTCTGTCCTCACC**ATG**CCTAGCCTTTGGGACCGCTTCTCGT
CGTCGTCCACCTCCTCTTCGCCCTCGTCCTTGCCCCGAACCTCCACCCAGATCGGCCCGCCGCGCTCAGCCTGGG
GGTCGGCGACCCGGGAGGAGGGGTTTGACCGCTCCACGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGCA
GCAACAGTGGCTTCGGGCCGGAGGAAGACACGGCTTACCTGGATGGGGTGTCTGTTGCCCGACTTCGAGCTGCTCA
GTGACCCTGAGGATGAACACTTGTGTGCCAACCTGATGCAGCTGCTGCAGGAGAGCCTGGCCAGGCGCGGCTGG
GCTCTCGACGCCCTGCGCGCCTGCTGATGCCTAGCCAGTTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGG
CCTACAGCGAGCCGTGCGGCCTGCGGGGGGCGCTGCTGGACGTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG
TGGGCCAGCTGGCACTCGACCCACAGCCTGGTGCCACCTTCCAGCTGACCCCTCGTGCTGCGCCTGGACTCACGAC
TCTGGCCCAAGATCCAGGGGCTGTTTAGCTCCGCCAACTCTCCCTTCCCTCCCTGGCTTCAGCCAGTCCCTGACGC
TGAGCACTGGCTTCCGAGTCATCAAGAAGAAGCTGTACAGCTCGGAACAGCTGCTCATTGAGGAGTGT**TGA**ACTT
CAACCTGAGGGGGCCGACAGTGCCCTCCAAGACAGAGACGACTGAACTTTGGGGTGGAGACTAGAGGCAGGAGC
TGAGGGACTGATTCCAGTGGTTGGAAAAGTGGAGGCAGCCACCTAAGGTGGAGGTGGGGGAATAGTGTTCAGG
AAGCTCATTGAGTTGTGTGCGGGTGGCTGTGCATTGGGGACACATAACCCCTCAGTACTGTAGCATGGAACAAAGG
CTTAGGGGCAACAAGGCTTCCAGCTGGATGTGTGTGTAGCATGTACCTTATTATTTTGTACTGACAGTTAAC
AGTGGTGTGACATCCAGAGAGCAGCTGGGCTGCTCCCGCCCCAGCCTGGCCCAGGGTGAAGGAAGAGGCACGTGC
TCCTCAGAGCAGCCGGAGGGAGGGGGGAGGTGCGAGGTCGTGGAGGTGGTTTGTGTATCTTACTGGTCTGAAGGG
ACCAAGTGTGTTTGTGTTTGTGTTTGTATCTTGTTTTCTGATCGGAGCATCACTACTGACCTGTTGTAGGCAGC
TATCTTACAGACGCATGAATGTAAGAGTAGGAAGGGGTGGGTGTGAGGATCACTTGGGATCTTTGACACTTGAA
AAATTACACCTGGCAGCTGCGTTTAAGCCTTCCCCCATCGTGTACTGCAGAGTTGAGCTGGCAGGGGAGGGGCTG
AGAGGGTGGGGGCTGGAACCCCTCCCCGGGAGGAGTGCCATCTGGGTCTTCCATCTAGAACTGTTTACATGAAGA
TAAGATACTCACTGTTTCATGAATACTTGTGTTCAAGTATTAAGACCTATGCAATATTTTTTACTTTTCTAAT
AAACATGTTTGTAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2972

MPSLWDRFSSSSTSSSPSSLPRTPTPDRPPRSAWGSATREEGFDRSTSLESSDCESLDSSNSGFGPEEDTAYLDG
VSLPDFELLSDPEDHLNLMQLLQESLAQARLGSRRPARLLMPSQLVSQVGKELLRLAYSEPCGLRGALLDVC
VEQGKSCHSVGQLALDPSLVPTFQLTLVLRRLDSRLWPKIQGLFSSANSPFLPGFSQSLTLSTGFRVIKKKLYSSE
QLLIEEC

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FIGURE 2973

CGCATTGCAGACTGCGGAGTCAGACGGCGCT**ATGT**ACGCCCTCTTCCTCCTGGCCAGCCTCCTGGGCGCGGCTCT
AGCCGGCCCCGGTCCCTTGGACTGAAAGAATGCACCAGGGGCTCGGCAGTGTGGTGCCAGAATGTGAAGACGGCGTC
CGACTGCGGGGAGTGAAGCACTGCCTGCAGACCGTTTGGAAACAAGCCAACAGTGAAATCCCTTCCCTGCGACAT
ATGCAAAGACGTTGTACCCGAGCTGGTGATATGCTGAAGGACAATGCCACTGAGGAGGAGATCCTTGTTTACTT
GGAGAAGACCTGTGACTGGCTTCCGAAACC GAACATGTCTGCTTCATGCAAGGAGATAGTGGACTCCTACCTCCC
TGTCATCCTGGACATCATTAAAGGAGAAAATGAGCCGTCCTGGGGAGGTGTGCTCTGCTCTCAACCTCTGCGAGTC
TCTCCAGAAGCACCTAGCAGAGCTGAATCACCAGAAGCAGCTGGAGTCCAATAAGATCCCGAGAGCTGGACATGAC
TGAGGTGGTGGCCCCCTTCATGGCCAACATCCCTCTCCTCCTTACCCTCAGGACGGCCCCCGCAGCAAGCCCCA
GCCAAAGGATAATGGGGACGTTTGGCAGGACTGCATTGAGATGGTGAAGTGCATCCAGACTGCTGTACGGACCAA
CTCCACCTTTGTCCAGGCCTTGGTGGAACATGTCAAGGAGGAGTGTGACCGCCTGGGCCCCCTGGCATGGCCGACAT
ATGCAAGAACTATATCAGCCAGTATTCTGAAATTGCTATCCAGATGATGATGCACATGCAACCCAAGGAGATCTG
TGCGCTGGTTGGGTTCTGTGATGAGGTGAAAGAGATGCCCATGCAGACTCTGGTCCCCGCCAAAGTGGCCCTCCAA
GAATGTCATCCCTGCCCTGGAACCTGGTGAGCCCATTAAGAAGCACGAGGTCCAGCAAAGTCTGATGTTTACTG
TGAGGTGTGTGAATTCCTGGTGAAGGAGGTGACCAAGCTGATTGACAACAACAAGACTGAGAAAGAAATACTCGA
CGCTTTTGACAAAATGTGCTCGAAGCTGCCGAAGTCCCTGTGCGAAGAGTGCCAGGAGGTGGTGGACACGTACGG
CAGCTCCATCCTGTCCATCCTGCTGGAGGAGGTGAGCCCTGAGCTGGTGTGCAGCATGCTGCACCTCTGCTCTGG
CACGCGGCTGCCTGCACTGACCGTTCACGTGACTCAGCCAAAGGACGGTGGCTTCTGCGAAGTGTGCAAGAAGCT
GGTGGGTTATTTGGATCGCAACCTGGAGAAAAACAGCACCAAGCAGGAGATCCTGGCTGCTCTTGAGAAAGGCTG
CAGCTTCTGCCAGACCCCTTACCAGAAGCAGTGTGATCAGTTTGTGGCAGAGTACGAGCCCGTGTGATCGAGAT
CCTGGTGGAGGTGATGGATCCTTCCCTCGTGTGCTTGAATAATTGGAGCCTGCCCTCGGCCCATTAAGCCCTTGTT
GGGAAGTGAAGTGTATATGGGGCCCAAGCTACTGGTGCCAGAACACAGAGACAGCAGCCAGTGAATGCTGT
CGAGCATTGCAAACGCCATGTGTGGAAC**TAG**GAGGAGGAATATTCCATCTTGCGAGAAACCACAGCATTGGTTTT
TTTCTACTTGTGTGTCTGGGGGAATGAACGCACAGATCTGTTTGACTTTGTTATAAAAATAGGGCTCCCCACCT
CCCCCATTTCTGTGTCTTTATTGTAGCATTGCTGTCTGCAAGGGAGCCCCCTAGCCCCCTGGCAGACATAGCTGCT
TCAGTGCCCCCTTTTCTCTCTGCTAGATGGATGTTGATGCACTGGAGGTCTTTTAGCCTGCCCTTGCATGGCGCCT
GCTGGAGGAGGAGAGAGCTCTGCTGGCATGAGCCACAGTTTCTTGACTGGAGGCCATCAACCCTCTTGGTTGAGG
CCTTGTCTGAGCCCTGACATGTGCTTGGGCACTGGTGGGCTGGGCTTCTGAGGTGGCCTCCTGCCCTGATCAG
GGACCCTCCCCGCTTCTCTGGGCTCTCAGTTGAACAAAGCAGCAAAACAAAGGCAGTTTTATATGAAAGATTAG
AAGCCTGGAATAATCAGGCTTTTTAAATGATGTAATTCCCACTGTAATAGCATAGGGATTTTGAAGCAGCTGCT
GGTGGCTTGGGACATCAGTGGGGCCAAGGGTTCTCTGTCCCTGGTTCAACTGTGATTTGGCTTTCCCGTGTCTTT
CCTGGTGATGCCTTGTTTGGGGTTCTGTGGGTTTGGGTGGGAAGAGGGCCATCTGCCTGAATGTAACCTGCTAGC
TCTCCGAAGGCCCTGCGGGCTGGCTTGTGTGAGCGTGTGGACAGTGGTGGCCGCGCTGTGCCTGCTCGTGTTC
CTACATGTCCCTGGCTGTTGAGGCGTGTTCAGCCTGCACCCCTCCCTTGTCTCATAGATGCTCCTTTTGACCT
TTTCAAATAAATATGGATGGCGAGCTCCTAGGCCTCTGGCTTCCCTGGTAGAGGGCGGCATGCCGAAGGGTCTGCT
GGGTGTGGATTGGATGCTGGGGTGTGGGGTTGGAAGCTGTCTGTGGCCACTTGGGCACCCACGCTTCTGTCCA
CTTCTGGTTGCCAGGAGACAGCAAGCAAAGCCAGCAGGACATGAAGTTGCTATTAAATGGACTTCGTGATTTTG
TTTTGCACTAAAGTTTCTGTGATTTAACAATAAAATTCTGTTAGCC

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FIGURE 2974

MYALFLLASLLGAALAGPVLGLKECTRGSAVWCQNVKTASDCGAVKHCLQTVWNKPTVKSLPCDICKDVVTAAGD
MLKDNATEEEILVYLEKTCDWLPKPNMSASCKEIVDSYLPVILDI IKGEMSRPGEVCSALNLCESLQKHLAELNH
QKQLESNKIPELDMTEVVAPFMANIPLLLYPQDGPRSKPQPKDNGDVCQDCIQMVTDIQTAVRTNSTFVQALVEH
VKEECDRLGPGMADICKNYISQYSEIAIQMMMHMQPKEICALVGFCDEVKEMPMQTLVPAKVASKNVIPALELVE
PIKKHEVPAKSDVYCEVCEFLVKEVTKLIDNNKTEKEILDADFDMCSKLPKSLSEECQEVVDITYGSSILSILLEE
VSPELVCSMLHLCSGTRLPALTVHVTQPKDGGFCEVCKKLVGYLDRNLEKNSTKQEILAALEKGCFLPDYPYQKQ
CDQFVAEYEPVLIEILVEVMDFSFVCLKIGACPSAHKPLLGTEKCIWGPPSYWCQNTETAAQCNAVEHCKRHVWN

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FIGURE 2975

GTGTCCTTCCTGGTGATGCCTTGTTTGGGGTTCTGTGGGTTTGGGTGGGAAGAGGGCCATCTGCCTGAATGTAAC
CTGCTAGCTCTCCGAAGGCCCTGCGGGCCTGGCTTGTGTGAGCGTGTGGACAGTGGTGGCCGCGCTGTGCCTGCT
CGTGTTGCCTACATGTCCCTGGCTGTTGAGGCGCTGCTTCAGCGCACCCACGCTTCTGTCCACTTCTGGTTGCCA
GGAGACAGCAAGCAAAGCCAGCAGGACATGAAGTTGCTATTAAATGGACTTCGTGATTTTGTGTTTGCCTAAAG
TTTCTGTGATTTAACAATAAAATTCTGTTAGCCAG

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FIGURE 2976

AGACTAAAGACATTAAAGAGATAGCCAAAAAGACACAAGCCCTGCCAAAGATGAACTCAAAGAGGCAGCGAATCG
TGATCTTCACCCAAGGGAGAGATGACACTATAATGGCTACAGAAAGTGAAGTCACTGCTTTTGCTGTCTTGGATC
AAGACCAGAAAGAAATTATTGATACCAATGGAGCTGGAGATGCATTTGTTGGAGGTTTTCTGTCTCAACTGGTCT
CTGACAAGCCTCTGACTGAATGTATCCGTGCTGGCCACTATGCAGCAAGCATCATAATTAGACGGACTGGCTGCA
CCTTTCCTGAGAAGCCAGACTTCCACTGATGGAAGAGCTGAAAACACAAGCCCAGGAGTGCAGACACTGCCCTAA
TTGCTTCCTGAGAATTCCCATATTAATAAAGAAGAAAATTATCTGCCATTTTTTCTACTATAATAATGCTGAAT
CTTAATTTAGAGGGTACAAGGGTATGGTAATGCTTGTAGAATCTTTATTATCTCAACAATCTAAAAAATGATGTT
TATTTCCATAGTTTGATAGTGCCACTTAAATGCCAATTAAACAAGAATATAACATTTCAATAGAAATTTTTATTT
CATTTTCAATTACTTTGTAAATTCGTGTGTATTTAGTACACTGATTTGTTTTTTTACATTTCTGCTTTGAATGCA
GATGCAATTTAATATAATAGATTTTTTAATGAATTAATCTTAACATAGTAATCTTTAGCTTTTTTATACAAATATA
TTTAATTTAGGAGTATATGTGTGTCTATACACACACATACATAAATATACCACATATACACCTGATAGTCAAATA
AGGTACAGAAATTTTATCTTGTCAATTATGCCAAATAATCTCTTTAATGTGCACTCAAACATGTAATAAACTTTG
GATAATT

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FIGURE 2977

AGCCTGAACCTCTAGGACTTTTAATTGATACCAGTGGTCTCCGCTCTGAAACAGTCCACCAGAATGAGGGTACCA
AACTGACCTCAGAGGTTTCCAGGTTTGATGAACTTGTGAAAAAATTCAAAGTCGAATATCATGCTGGTGGCTCTA
CCCAGAATTCAATTAAAGTGGCTCAGAATCTGGAGAGCCTGTCTTGTGTTGCCGGACAGATACCCCTCTTCCAGC
AGATCTCTGCACAGAATTATTTTCAGACCACAGCAAGAAGGGTCAGAGCTGAGAATGGACCACCTGAGGATCTGC
TGTGGGATGGAGCAGGAACCTGCTTAGGTGGTACCAATCTTGACTTCCAGATGGAACAGTACATCTCTATAAGGA
AAAGTGATGGCATCCACATCGTAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCCATTGTTG
CCATTGAAAACCCTGCTGATGTCAGTGTTATATCCTCCAGGAATATTGGCCAAAGGGCTGTGCTGAAGTTTGCTG
CTGCCACTGGAGCCACTCCAATTGTTGGCCACTTCACTCCTGGAACCTTCACTAACCACATCCAGGCAGCCTTCC
AAGAGCCACGGCTTCTTGTGGTTACTGACCCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTACGTTAACC
TATCTACCGTTGCTTTGTGTAACACAGATTCTCCTCTGCACCTTGTGGACATTGCCATTCTATGCAACAATAAGG
GAGCTCACTCAATGGGTTTTGATGTGGTGGATGCCAGCCCGGAAGGTTTGCGCGCGTGTGGCACCATTTCCTCATG
AACACCCATGGGAATTCATGCCTGATCTCTACAGAGATCCTAAAGAGACTGAAAAAGCAGAGCAGCCTGCTGCTG
AAAAGGCTGTGACCAAGGAGGAATTTACAGGGTGAATGGACTGCTCCAGCTCCTGAGTTAACTGCTACTCAGCCTG
AGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGCGCCTATTTCATCAGTTCCCTACTGAAGACTGGAGTG
CTGAGCCTGCCACGGAAGGCTGGTCCACAGCTCCCAATGCTCAGGCCATTGAATGGTGGATGATTCAACAGCCAC
ACAAAGCAGCAACATTTTTTGGATGCATTGGGATAGATAAATTTGGGGAGATCCTGAAGAGAAAAGCTGCTGAAG
CCCATGTGGATGCTCATTACTACGAGCAGAATGAGCAGCCAACAGGAACCTGTGCTGCATGCATCACTGGTGACA
ACAGGTCCCTCATAGCTAATCTTGCTGCTGCCAATTGTTATAAAAAGGAAAAACATCTTGATCTGGAGAAAACT
GGATGTTGGTAGAAAAAGCAAGAGTTTGTATATAGCAGGTGTGATAAAGCATATTACTAGAAAAGCATCAATCG
GTCTTTCAGGTACAATACCAGAGGAACCATCACAGTTTATTTACCTTTCAGAAGCTTTAAAAATAAAGTTACATG
ATGCCTCTGCTCTCCAGATTTCTAATCAAACCCTGGAACAAAAGAGCCAAGCACATTCTATCTGA

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FIGURE 2978

CTTTTCCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACTAGAAAGTTCAT
GACCAACCGACTACTTCAGAGGAAAACAAATGGTCATTGATGTCCTTCACCCCGGGAAGGCGACAGTGCCTAAGAC
AGAAATTCGGGAAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTGGATTGAGAACTCA
TTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCCAA
ACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAG
AATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTGGCAAAAAGTGAGCTGGAGATTGGATCACAGC
CGAAGGAGTAAAGGTGCTGCAATGATGTTAGCTGTGGCCACTGTGGATTTTTCGCAAGAACATTAATAAACTAAA
AACTTCATGTGT

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FIGURE 2979

MNDTVTIRTRKFMTNRLLRKQMVLDVLPKATVPKTEIREKLAKMYKTTDPVIFVFGFRTHFGGGKTTGFGMI
YDSL DYAKKNEPKHRLARHGLYEKKKTSRKQKRNRMKKVRGTAKANVGAGKK

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FIGURE 2980

CTTTTCCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCACTAGAAAAGTTCAT
GACCAACCGACTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCACCCCGGGAAGGCGACAGTGCCTAAGAC
AGAAATTCGGGAAAAAACTAGCCAAAATGTACAAGACCACACCGGATGTCATCTTTGTATTTGGATTTCAGAACTCA
TTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCCCTGGATTATGCAAAGAAAAATGAACCCAA
ACATAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGACCTCAAGAAAGCAACGAAAGGAACGCAAGAACAG
AATGAAGAAAGTCAGGGGGACTGCAAAGGCCAATGTTGGTGCTGGCAAAAAGCCGAAGGAGTTAAAAGGTGCTGCAA
TGATGTTAGCTGTGGCCACTGTGGATTTTTCGCAAGAACATTAATAAACTAAAAACTTCATGTGT

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FIGURE 2981

MNDTVTIRTRKFMNRLLRKQMVLDVLPKGATVPKTEIREKLAKMYKTPDVIFVFGFRTHFGGGKTTGFGMI
YDSL DYAKKNEPKHRLARHGLYEKKKTSRKQRKERKNRMKKVRGTAKANVGAGKKPKE

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FIGURE 2982

GCTGCAGCTGCAGCAGCTGGAGGGCGAAGTGAAGGAGACACCGTTCCGCCCCGGGCCTCGCCATGGCGACCCACG
GACAGACTTGCGCGCGTCCAATGTGTATTCCATCATATGCTGACCTTGGCAAAGTTGCCAGAGATATTTTCA
ACAAAGGATTTGGTTTTGGGTTGGTGAAACTGGATGTGAAAACAAAGTCTTGCACTGGCGTGGAATTTTCAACGT
CCGGTTCATCTAATACAGACACTGGTAAAGTTACTGGGACCTTGGAGACCAAATACAAGTGGTGTGAGTATGGTC
TGACTTTCACAGAAAAGTGGAACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAG
GTTTGAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAAATCAAGTCTTCTTACA
AGAGGGAGTGTATAAACCTTGGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTGTCT
TTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACT
TTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAA
TTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTT
TTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCTTCCATTTCTGCAAAAGTCAACAACCTCTAGCTTAATTG
GAGTAGGCTATACTCAGACTCTGAGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGATGGGAAGAGCATT
ATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAACCTTTGGGAATGG
ATATCAGAAGATTTGGCCTTAATATAITTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCAAGAAGATGATCAA
AACAAAGGATGATCTCAACAAGAGCTGTATTTTAAGTATTTAGACAGTTCTTTGTTAGCTGGTTTCTAGTTGGTT
ATCTAGTTACCAATGCTGCAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACC
CACCAATAATGAAATAGACCTTTATGAAAAGTGTGCAATTGTGTGCATGTTTGTGTTTTATGTTTCTTTAGAAAAC
ATTGACTGTTACCATTGAATGAGATGGATCAGTGGATATTAAGATGAGGTTACAAATTTTGTTAAGTTCAGCCAT
TATTACTTTTGGTATCCCAGAACATGACAAATTATGAATAAAACAAGTATACAT

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FIGURE 2983

MATHGQTCARPMCIPPSYADLGKVARDIFNKGFGFGLVKLDVKTSCSGVEFSTSGSSNTDTGKVTGTLET KYKW
CEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFTTFSPNTGKKSGKIKSSYKRECINLGCDVDFDFAGPAIH
GSAVFGYEGWLAGYQMTFDSAKSKLTRNNFAVG YRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGT
NCTRFGIAAKYQLDPTASISAKVNNSSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHKVG LALELEA

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FIGURE 2984A

AGCCTTGTGTCTCCTGGTGCGAAGAGCTCGGCCGCTGCTGCTGCTCCGACATCAGAAGAGCCGCCAGAGCGA
TCCCCCTGGGAAACTCCCCATGCAGCCCCCTCTCAGCTCCATGAGCTCCATGAAACCCACTCTGTGCGACAGTGA
TGGGTCTGTTCCCTATGACTCTGTCCCTTGGCAGCAGAACACCAACCAGCCTCCCGGCTCCCTTTCCGTGGTCAC
CACGGTTTGGGGAGTAACCAACACATCCCAGAGCCAGGTCCTTGGGAACCCTATGGCCAATGCCAACAACCCCAT
GAATCCAGGCGGCAACCCCATGGCGTCGGGCATGACCACCAGCAACCCAGGCCTCAACTCCCCACAGTTTGCGGG
GCAGCAGCAGCAGTTCTCAGCCAAGGCTGGCCCCGCTCAGCCCTACATCCAGCAGAGCATGTATGGCCGGCCCAA
CTACCCCGGCAGCGGGGGCTTTGGGGCCAGTTACCCTGGGGGTCTTAACGCCCCCGCAGGCATGGGCATCCCTCC
GCACACCAGGCCGCTGCTGACTTCACTCAGCCCCGCGGCAGCCGCTGCAGCAGCGGCAGTGGCAGCAGCAGCAGC
CACAGCTACAGCCACAGCCACGGCCACTGTGGCAGCCCTGCAGGAGACACAGAACAAGGATATAAACCAGTATGG
ACCGGTCTGTTCTCTTTCCAGATGGGTCCCACCCAGGCGTATAACAGCCAATTTCATGAACCAGCCCCGGGCCGCG
GGGGCCTGCCTCCATGGGGGGCAGCATGAACCCCGCAGCATGGCGGCTGGCATGACGCCCTCGGGGATGAGCGG
CCCTCCCATGGGCATGAACCAGCCCCGGCCGCGCCGGCATCAGCCCTTTGGCACACACGGGCAGCGGATGCCCA
GCAGACCTACCCGGGCCCCCGGCCCCAGTCCCTTCTATTAGAACATAAAGAGGCCATACCCTGGAGAGGTGAG
TGCAGCAGTGGGAGCCTGGGAGGTGGGAACTGGGACACCTGGGCTTGAAGACATGGGCCGTGGGTACGGCTTTGG
AAGGGGTGTGGCTTGGACTCCAGCACACTTGGACAAAGAGGCAGGGGCTTAGGGGTGAGGTGCTCCTGGGTTTGA
GACCTGGTCTGCTGTTTTCCCAACTGAAAAGACCTCGAGCCAGTCACCCTGCCTCCTAGGGCTGCTTGAGGGACTT
GAGGAGGTGTCCGTGAAGTGCTTGGCCCTGGGCTGGCATGTGCCGCCACTCAGCAAGCAGCAGTTCTCTTACTG
TAGTGACTCTTGCTTGGCTCAGCCACTAACTGGGTGACCTGGGTTTAGTTCTCCTGCCACATGAGAGCTTCC
CCAACCTCCTCTCCAAGAAAGAGAGCTGAGACAAAATGCTTCCAGTCTATAAGGGCTGACCCGTCCGGGAAGTGAC
TGAAGGCAGGCAGCGTGTTTTCCAGTCTGTAAGGATTGACCTGTTGGGGAAGTGACTGGAAGGCAGAGAGCGTGT
TTCCAATCTATAAGGACTGACCCGTTGGGGAAGTGACTGGAAGGCCGCGCAGCTGTTTCCAGTCTATAAGGACTGA
CCCGTCAGGGAAGTGACTGGAAGGCAGACAGCGTGTTTTCTTAGCTCTTGTTTCCATCCACACTTGGTCACTGTAT
AGGAAGTGGCACTGCCTCTTGGGCTGCACAGCCAGCTCAGCCAAGGTGTTGGGGAAGATTTGGGGAAGTAAACC
CACACCTCCTGCCCTCTGGGAAGTGAGGTTTTAGCAGGAAAGAAAAGTTTTTAGCAGAGACTCACCAGGGAATGA
AGCATAGCAGACTGCACAGAACTCAATATGAGTCAGAGAAGGCAGGCTTCTTGAGGGGTGTGTACAAAGTAAATC
CTCAGAAAATGATGCTGGCAGCAGCTGGCCCATCTGGGTACCCAGGTAAGGATTTAGTTTACCTGCAGAAGACGT
AGGGACGTGGCTCTGCAGATGCCCCCTCGTGAAGCCCTGGTTGCTCCCCACGACCAAGCCCCCTTTTTGAGCAGGGT
GTGCCCAGCTCTCTGCCTGCCTCCCTCCCAGCTTGCATGCCCACTCTCAGAGCAGTTTTCTCCTCCTAGCTCCTC
TCAGCTCTGTGGCCTTACCTTGGGTTACAGCGGCTTTAGATTCCAAAGACCTTAAGTTCTTGAAGATCTGCA
CATTTCCCCTCAGTATCCACCTTAGGATGGGCGGGGAGGCTTGGCAACAAGTGGAGGTATTTCTGAGTTTCAAGAGG
GGAGAGAGAGGGGGGGGGGTCAGGGGCTTCTCATGCATCCAAGAAGCTGGATCAAGCCCCAACCCTCCACCTGG
TGGACACTAGTTTCAAGGAGGGGCCAGAGAAGGACCATTTGGCTCCTGGGTCTGAGTTTGGGGGAGCCTCAAGCTA
TTGGCACCTCTCCTGGCACTCAGGCCCCATGCAGTTTCTAGGCCTTTTCTCAGCCACCCTGTGCTCAAAATCCCA
GTGTCCCCTGAGCTGTGCTGGGGGTGCATCTGTTAGCCACGCCAAAGGAGGCAATCTCGGATGAGGCTTCAGCA
GAATTCCTGGTCATTGGTGTACCCCTGCACCTGCACCTGTGCCATGCTTATGGCTCTTGCTGCCTAAAGAGAG
CACACCAAAGGCTCTCCATATTTTTACTAAATTAATCATCCTTTTCATAGAGTGCTGCTGCTACCCAGCTACAGC
ACTGGGTGGTCACAGCCTATGCGGCCTGATCCTGTCTGGAAGACTGGCCTTCTTCCCCCTTGCCATGGCTTGTTT
ATACAAATATTTGAATTGTTGGAGCCTTAGGACAGGGGTGGGTGCATCTGGTCCCACAGAGGACTCTCTTCTCTAG
CTTGGTGGGCAGGTAGGCACCAGCTACGTCTTCTATACCTCCTGTGGTGGGTGCCTCACTGTCAACCAGAGCAGC
CACCATGTTGCAACAACGTGAGTTGTAGATTCTTCCACACTGACACTTTCTGACATTTATCCCTAAGTCCATCAT
TCGTTTGTGAGCAAGTATTAAGGGTATTTTCCCAGGCACTGGGGCACAGCCACCAACAGGACCTCTGGGCAAGA
GAGACACTCAGATGGGGAAGAAGAAACCACTGACTCACAGGATGTCATGTGGCCGTGAGGGTCACTGATTTTCC
AGACAGGGAAGGTGGCTGGAGGGTGGTGCTCTCTCCTCTTCTCTAAATTGTCTGTCCCGGGGAGAAGTTGTCTTGT
TCCTTCACCAACCTGGCTCTCCACCTCCTGCACAGGTGGCAGGTTGTGATGGCCAGAAGTGAACACTAGGTG
TGTGTTCTGCTCTGAGGGGAGTACGAGGACAATGCCACCAAGTTACGCCTTGAATGCAGGGGCACAGGGGGCT
CCTTCTGGAATTGCATCCTGTTGACTGTGTTCTCTGTACATTGGGGTACACATTGGGGAGCACAGCCCTAAC
CCAGGCACCAGGAGAGACACAAAGGTGGGGGAGTTAGAATCAGGCCCTCATAATGGTGTGAGCAAGAGGCTCT
GAAAGTGTCCCTGGAGTTTCAAGGGGCACATGTGCTCCAGGAAGAACGGCCTCAAGGGGAGGTGGCCTATGATCTGG

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FIGURE 2984B

ACAGGCAGAACAAAATGCCCCTGGATGTCAGGACGAGAAGGGGCCCAAAGCATTATCTGGTTTTGTGGGTGGGAA
ACAGCAGGAGCAAATGAGGAGAGGCGGGCCCCATCCCGTTGTTTCAGGTGACCTGGCTATGTGACGTTGGCAACAT
TGAACGTGTTCCCTCTCCTTTCTCTCCCACCACAGCCCAACTATGGAAACCAGCAATATGGACCAAACAGCCAG
TTCCCCACCCAGCCAGGCCAGTACCCAGCCCCCAACCCCCCGAGGCCACTCACCTCCCCCAACTACCCAGGACAG
AGGATGCCCAGCCAGCCGAGCTCCGGGCAGTACCCGCCCCCCACGGTCAACATGGGGCAGTATTACAAGGTGAGT
CCCAGCCTCGCCACCACCCACGGGGCCCCCTTCCCTCCTAACCACCTCACTCCCCCTAACTCCACCGGGATCACTCT
GACCCTGCGTGTGTTTGCCCCAAGGACAGCGAGGGGTGGGTGATTTCTGAACGTCCCCATGTGTTTCAGGGCGAAG
TTCGGTGGCCAGAATGTCAGAGTGGCTTTTCTCAGTTCCTATTCTCATTTCGTCTCGGATGATGGTTTTTTTTTCT
CCTTTTCTTATTCACGGCACTCACAAAATAATAAAGGAAATATATTTTATT

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FIGURE 2985

MNSMDRHIQQTNDRQLQCIKQHLQNPANFHNAATELLDWC G D P R A F Q R P F E Q S L M G C L T V V S R V A A Q Q G F D L D L G Y
R L L A V C A A N R D K F T P K S A A L L S S W C E E L G R L L L L R H Q S R Q S D P P G K L P M Q P P L S S M S S M K P T L S H S D G S F P Y D S
V P W Q Q N T N Q P P G S L S V V T T V W G V T N T S Q S Q V L G N P M A N A N N P M N P G G N P M A S G M T T S N P G L N S P Q F A G Q Q Q Q F S A
K A G P A Q P Y I Q Q S M Y G R P N Y P G S G G F G A S Y P G G P N A P A G M G I P P H T R P P A D F T Q P A A A A A A A V A A A A T A T A T A T
A T V A A L Q E T Q N K D I N Q Y G P V C S S F Q M G P T Q A Y N S Q F M N Q P G P R G P A S M G G S M N P A S M A A G M T P S G M S G P P M G M N Q
P R P P G I S P F G T H G Q R M P Q Q T Y P G P R P Q S L P I Q N I K R P Y P G E V S A A V G A W E V G T G T P G L E D M G R G Y G F G R G V A W T P
A H L D K E A G A

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FIGURE 2986

TCTGGGCGCGCGCGACGTCAGTTTGAGTTCTGTGTTCTCCCCGCCCCGTGTCCCGCCCCGACCCGCGCCCCGCG**ATGC**
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCGTGCCGCTGCGCCTCCCCGCGG
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCCTCTTCCTCCTCCTCCGGGAACCCGCTCGTGTAACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCTGGTGCTGGAGCTGAAGGCAGATGTCGTCCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCCCTTCCT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG
ACGAGAACTTTACACTGAAGCACGTGGGGCCAGGTGTCTGTCCATGGCTAATGCTGGTCCTAACACCAACGGCT
CCCAGTTCTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTCCGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAATAGAATCTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG
ACTGTGGCCAGTTGAGCT**TAA**TCGTGGCCAGGGTGTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATACGTGTGCCACTCCACTGTCACAGTGTGCCTGAGGAA
GGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATAACCCACCCTTCCTCACGACCTCA
TTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCAGATTC
ATCTGTGCCTTGACATGGTGATGGTGATGGGTTGCCATCCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAG
TCAGTTTGTGAAAAGGACTCTAATACCTGTTTAATATTGTCTTCCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAACACAACCTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTG
TGAAGCCTGTTGGTTTGCTGCTGTCGTTTTTGAGGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGAAGCATTTCCTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATTCATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 2987

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFYKGSTFHRVIPSFMCQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

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FIGURE 2988

ATGAGGAGCAGGAGCACACGTCCAGAACCAAAGCAGAGCGGTGTCCACGCCACTGCAAGCAGCAGGTCCAGATCC
CACATTCCCACAGGAGCCATGGCAAAGGCCTGTGAGCCTGGGGCAGCTCCACCCCAAGAATCAGGGTCCCCAGTG
CACCGGGACTCCGCTCCAAGGAGGAATGCAACCAGTTCCAGGGGGAACGGCCAGTGTGTTGCACGGTGGATGTGC
TCAAGCTCCCGTTTGCTCATCAGCGGGAAACACAGGGTCCACAGAGGCACCGCAGGGTGGAGAGAGGCAGGGACTG
GGAATGAAACCACAAACTCTCCCAGATGCTGACGTTGCTGCCTCACAGTCCACACAGTCCATGGCCCTGGGCTGC
TGGAATCATGGTGCCTCAGAGCTATCACTGGAGCCCGTGGCTTTGGGGAGTGCTCTCCTAGATGGCCTAGTCTT
GATAATGATAGTAATGGGGACAGTAATCTGCAGCCCATCACCTCACAACCGCCCTGCAAGCTCCCTGAACAGC
GTGACCTCCCGTCCATCCAGCAGCCTCTTTACGTGTGAGCTGCAGGACCAGCTCCAATGCCCGAGGACACTCAC
ATGAGGAAGCACGAAAGCGCTTCGGTGTGAGGACTCTGGGGAAGAGGGCGCCTGGAGCCTGCCAGACGAGGGGGG
CCTGAGTTAGGACCAAGGTCTGCGCCTGAGCGGCCTTCACAGGCCCCACCTCTGTCTCATCTGGACAAAGACGT
TGGAAGCCCCGGCCCCACTCGGGCTGCAGCCATCCTGTTCTGTACCAGAGACCCTGTCAGCCTCACAGGCATCT
CCCAAGCCATGGGTGAGGATGAGTCTCTCAGCGCCTGGTGGTCTCAGCGTGCTCAGCAACAGGCTTACCTCC
ATTCGAAGCCATCCCTCAGGCTGGGCACTGACCACCGCCGTCTGGCAGTTTCCGCAATAAGAAAAGCCAAGGGA
GCCTTGAGGCGGGCGAGGTTCCAGCGCGAGGCCGGCCGCCCTCAACCGCTCCCAGCGCCAGTTGCGGCGGTTGAT
GGCAGGGAGACGCGCAGCGCGAGAGCAAAGGGCGGTGACCCAACGGCCTTCGCTCTCATGGCGTCCTTCTTGGTG
TTACCTAAAAATAAAGCCAAGGGTGATCAGAAGCGAGGGACGCTGGCCTTCTCGCGGCTTTCCCCGATATCTCT
CTTTATTCCAGCTGCCTGAAACTCGGTCCCACGAATGGCAGGCAGCGTCCAAAATTCAACCCCGTAAAGCCAGCA
CCAGCCAATAAAGCGCACGGATGGAGGCCACGTGACAGCAGTGGGCCGGCCCTCCGGCTGAGCCCTGATCTCTAT
GGTTTCCGCGGCTCGCTAGAAGGAGTGTGGTCCACCGGAGGACTCCCTACATTCTTCTCCATTACCTCACTGCC
TCCGGTGGCTGCTGGGATACCGGAGGACTCGGCGCGTCCGGCCCCCGCCGAGGCCAGCTTCTCTCGGGAGCCCCC
ACCCAGGCGCATGGCTCCATGAAGCAAGAGGAGGAGGCAGAGCGCGAGAGGTCCCGTCCGCCCCAGCCGCGTCTG
GGCCAGGATAAAAGAGACCCCGCGGTCTGGGGCGAGGGTCCGGGGGCAGCCAAAACCATATTCTGCTGCTGTC
AGTTATGATGCACTGAGAAAACCTTCAGAGACCTAAACTTTTTCCAGAGAAGAGAAGCTTTACTGGTGTTCAGCC
CTAAGCATTGACTTCACTAATGGATGTGACCTGGTTGGCAGCAGTAGCTTGACACAACATGCTTGTGTTTGAAAACC
TTTGTTCAGAAAACGGCAGATGCTCTGTTGAATCCACTGGAGATTGTTCTGATACTAAGGACAAGTATGCTCAT
ATGACATTAAACAGACAAGACACTTTTCAGAAAGACAGTTGCTAATGGTAATGATGAAAAATAATGTCATCATCAGG
TATTATTTAGCTATTGGAAGAAACCACTCGGTGTGAGTTCATCAAGGAATCTGTCACAGATGTGA

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FIGURE 2989

MSRNEINAIQRECKTCNLRILCFRINPPKQGCYLGAWTAGLYYRKLGVIVADALVSQRHGHGGSNEGALSGPRKH
PGALRRARFQREAGRPQPLPAPVAAVDGRETRSARAKGGDPTAFALMASFLVLPKNKAKGDQKRGTlafSRLSPD
ISLYSSCLKLGPtNGRQRPKfNPVKPAPANKAHGWRPRDSSGPALRLSPDLYGFRGSLEGVWSTGGLPTFFLHYL
TASGGCWDtGGLGASGPPAGQLLSGAPtQAHGSMKQEEEAERERSRPPQPRLGQDKRDPAVLGRGSGGSQNHIPa
AVSYDALRKLQRPKLFPEKRSFTGVPALSIDFTNGCDLVGSSSLHNMLVCKTFVQENGRCsVESTGDCSDTKDKY
AHMTLTDKTLFRKTVANGNDENNVIIRYyLAIGRNHSVSSSSRNLSQM

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FIGURE 2990

GCTGCTGCGCCCGCGGCTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCCTAG
GCAGAACCCAGGCGCCGCGCCCGGGACGCCCCGCGGAGAGAGCCACTCCCGCCACGTCCCATTTCGCCCCCTCGCG
TCCGGAGTCCCCGTGGCCAGATCTAACCATGAGCTACCTTGGCTATCCCCGCCCCCAGGTGGCTACCCACCAGC
TGCACCAGGTGGTGGTCCCTGGGGAGGTGCTGCCTACCTCCTCCGCCCAGCATGCCCCCATCGGGCTGGATAA
CGTGGCCACCTATGCGGGGCAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCAACATGTCTGGGACATTTGG
AGGAGCCAACATGCCCAACCTGTACCCTGGGGCCCCCTGGGGCTGGCTACCCACCAGTGCCCCCTGGCGGCTTTGG
GCAGCCCCCTCTGCCCAGCAGCCTGTTCCCTCCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCCCTCCAG
GATGCCCTCATATCCGCCATACCCAGGGGCCCCCTGTGCCGGGCCAGCCCATGCCACCCCCGGACAGCAGCCCCC
AGGGGCCTACCTTGGGCAGCCACCAGTGACCTACCTTGGTCAGCCTCCAGTGCCACTCCCTGGGCAGCAGCAGCC
AGTGCCGAGCTACCCAGGATACCCGGGGTCTGGGACTGTCACCCCCGCTGTGCCCCCAACCCAGTTTGGGAAGCCG
AGGCACCATCACTGATGCTCCCGGCTTTGACCCCTGCGAGATGCCGAGGTCTGCGGAAGGCCATGAAAGGCTT
CGGGACGGATGAGCAGGCCATCATTGACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGATCCTACTTTC
CTTCAAGACGGCTTACGGCAAGGATTTGATCAAAGATCTGAAATCTGAACTGTCAGGAAACTTTGAGAAGACAAT
CTTGGCTCTGATGAAGACCCCAAGTCCTCTTTGACATTTATGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGA
TGAAGCCTGCCTGATTGAGATCCTCGCTTCCCGCAGCAATGAGCACATCCGAGAATTAACAGAGCCTACAAAGC
AGAATTCAAAAAGACCCTGGAAGAGGCCATTGGAAGCGACACATCAGGGCACTTCCAGCGGCTCCTCATCTCTCT
CTCTCAGGGAAACCGTGATGAAAGCACAAACGTGGACATGTCACTCGCCCAGAGAGATGCCAGGAGCTGTATGC
GGCCGGGGAGAACCGCTGGGAACAGACGAGTCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGGGCCACCT
GGTAGCAGTTTTTCAATGAGTACCAGAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGG
GGACCTGGAGGAGGGCATGCTGGCCGTGGTGAAATGTCTCAAGAATACCCAGCCTTCTTTGCGGAGAGGCTCAA
CAAGGCCATGAGGGGGGCAGGAACAAAGGACCGGACCCCTGATTGCGATCATGGTGTCTCGCAGCGAGACCGACCT
CCTGGACATCAGATCAGAGTATAAGCGGATGTACGGCAAGTCGCTGTACCACGACATCTCGGGAGATACTTCAGG
GGATTACCGGAAGATTCTGCTGAAGATCTGTGGTGGCAATGACTGAACAGTGACTGGTGGCTCACTTCTGCCCCAC
CTGCCGGCAACACCAGTGCCAGGAAAAGGCCAAAAGAATGTCTGTTTCTAACAAATCCACAAATAGCCCCGAGAT
TCACCGTCCTAGAGCTTAGGCCTGTCTTCCACCCCTCCTGACCCGTATAGTGTGCCACAGGACCTGGGTCCGTCT
AGAACTCTCTCAGGATGCCTTTTCTACCCCATCCCTCACAGCCTCTTGCTGCTAAAATAGATGTTTTCATTTTCT
GAAAAAAA

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FIGURE 2991

MSYPGYPPPPGGYPPAAPGGGPWGGAAYPPPPSMPPIGLDNVATYAGQFNQDYLSGMAANMSGTFGGANMPNLYP
GAPGAGYPPVPPGGFGQPPSAQQPVPPYGMYP PP GGNPPSRMP SYPPYPGAPVPGQPMPPPGQQPPGAYPGQPPV
TYPGQPPVPLPGQQQPVPSYPGYPGSGTVTPAVPPTQFGSRGTITDAPGFDPLRDAEVL RKAMKGF GTDEQAIID
CLGSR SNKQRQQILLSFKTAYGKDLIKDLKSELSGNFEKTILALMKTPVLFDIYEIKEAIKGVGTDEAC LIEILA
SRSNEHIRELN RAYKA EFKK TLEEAI RSDTSGHFQRL LISLSQGNRDESTNVDMSLAQRDAQELYAAGENRLGTD
ESKFNAVLCSRSRAHLVAVFNEYQRMTGRDIEKSICREMSGDLEEGMLAVVKCLKNTPAFFAERLNKAMRGAGTK
DRTLIRIMVSRSETDLLDIRSEYKRMYGKSLYHDISGDTSGDYRKILLKICGGND

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FIGURE 2992

GGTAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTCGGAGGCAGCGGTTGGGCTCGCGGCGAGCGGACGGGGTCGAGT
CAGTGCCGTTTGCGCCAGTTGGAATCGAAGCCTCTTAAATGGCAGATGATTTGGACTTCGAGACAGGAGATGCA
GGGGCCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGCCA
TGTAAGATCGTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGAC
ATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCAACTCATAATATGGATGTCCCCAACATCAGAAGGAAT
GACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACCAGAGGACCTT
CGTCTCCCTGAGGGAGACCTTGGCAAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTG
CTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATTAAGTGGCTCCCAAGGTGGCAGTG
GTGGCAGCAGTGATCCTCCGAACCTGCAGAGGCCCCCTCCCCAGCCTGGCCTGGCTCTGGCCTGGTCCTAGGCT
GGACTCCTCCTACACAATTTATTTGACGTTTTATTTTGGTTTTTCCCCACCCCCTCAATCTGTCAGGGAGCCCCCTG
CCCTTCACCTAGCTCCCTTGGCCAGGAGCGAGCAAAGCCGTGGCCTTGGTGAAGCTGCCCTCCTCTTCTCCCCCTC
ACACTACAGCCCTGGTGGGGGAGAAGGGGGTGGGTGCTGCTTGTGGTTTAGTTTTTTTTTTTTTTTTTTTTTAAT
TCAATCTGGAATCAGAAAGCAGTGGATTCTGGCAAATGGTCCTTGTGCCCTCCCCACTCATCCTTGGTCTGGTCC
CCTGTTGCCCATAGCCCTTTACCCTGAGCACCACCAACAGACTGGGGACCAGCCCCCTCGCCTGCCTGTGTCTC
TCCCCAAACCCCTTTAGATGGGGAGGGAAGAGGAGGAGAGGGGAGGGGACCTGCCCCCTCCTCAGGCATCTGGGA
AGGCCCTGCCCCCATGGGCTTTACCCTTCCCTGAGGGCTCTCTCCCCGACACATTTGTTAAATCAAACCTGAAT
AAAACCTACAAGTTTAATATG

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FIGURE 2993

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGWPCKIVEMSASKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIRRNDFQLIGIQDGYLSLLQDSGEVPEDLRLPEGDLGKETEQKYDCGEEILITVLSAMTEEAVALK
AMAK

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FIGURE 2994

GTCAGTGCCGTTTGGCGCCAGTTGGAATCGAAGCCTCTTAAAATGGCAGATGATTTGGACTTCGAGACAGGAGATG
CAGGGGCCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCTGGC
CATGTAAGATCGTGGAGATGTCTGCTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTG
ACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCAACTCATAATATGGATGTCCCCAACATCAGAAGGA
ATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACCAGAGGACC
TTCGTCTCCCTGAGGGAGACCTTGGCAAGGAGACTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGG
TGCTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATAACTGGCTCCCAAGGTGGCAG
TGGTGGCAGCAGTGATCCTCTGGCCTGGTCCTAGGCTGGACTCCTCTACACAATTTATTTGACGTTTTATTTTG
GTTTTCCCCACCCCCTCAATCTGTCAGGGAGCCCCCTGCCCTTACCTAGCTCCCTTGGCCAGGAGCGAGCAAAGC
CGTGGCCTTGGTGAAG

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FIGURE 2995

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGWPCKIVEMSASKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIRRNDFQLIGIQDGYLSLLQDSGEVPEDLRLPEGDLGKETEQKYDCGEEILITVLSAMTEEA AVAIK
AMAK

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FIGURE 2996

GGCACGAGGAGGTGTGGACGCTGTGTATGAAATGTCTTTCCCTCCAGGACCCAAGTTTCTTCACCATGGGG**ATGTG**
GTCCATTGGTGCAGGAGCCCTGGGGGCTGCTGCCTTGGCATTGCTGCTTGCCAACACAGACGTGTTTCTGTCCAA
GCCCCAGAAAGCGGCCCTGGAGTACCTGGAGGATATAGACCTGAAAACACTGGAGAAGGAACCAAGGACTTTCAA
AGCAAAGGAGCTATGGGAAAAAATGGAGCTGTGATTATGGCCGTGCGGAGGCCAGGCTGTTTCCTCTGTCTGAGA
GGAAGCTGCGGATCTGTCTCCCTGAAAAGCATGTTGGACCAGCTGGGCGTCCCCCTCTATGCAGTGGTAAAGGA
GCACATCAGGACTGAAGTGAAGGATTTCAGCCTTATTTCAAAGGAGAAATCTTCCTGGATGAAAAGAAAAAGTT
CTATGGTCCACAAAGGCGGAAGATGATGTTTATGGGATTTATCCGTCTGGGAGTGTGGTACAACCTTCTTCCGAGC
CTGGAACGGAGGCTTCTCTGGAAACCTGGAAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCGTGGTGGGATCAGG
AAAGCAGGGCATTCTTCTTGAGCACCGAGAAAAAGAATTTGGAGACAAAGTAAACCTACTTTCTGTTCTGGAAGC
TGCTAAGATGATCAAACACAGACTTTGGCCTCAGAGAAAAA**TGAT**TGTGTGAAACTGCCCAGCTCAGGGATAA
CCAGGGACATTACCTGTGTTTCATGGGATGTATTGTTTCCACTCGTGTCCTAAGGAGTGAGAAACCCATTTATA
CTCTACTCTCAGTATGGATTATTAATGTATTTTAATATTCTGTTTAGGCCCACTAAGGCAAAATAGCCCCAAAC
AAGACTGACAAAAATCTGAAAACTAATGAGGATTATTAAGCTAAAACCTGGGAAATAGGAGGCTTAAATTGAC
TGCCAGGCTGGGTGCAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGAGCAAGTCATTGAGG
TCGGGAGTTCGAGACCAGCCTGAGCAACATGGCGAAACCCCGTCTCTACTAAAAATACAAAAATCACCCGGGTGT
GGTGGCAGGCACCTGTAGTCCCAGCTACCCGGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGTGGAGGT
TGCGGTGAGCTGAGATCACACCACTGTATTCCAGCCTGGGTGACTGAGACTCTAACTAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2997

MWSIGAGALGAAALALLANTDVFLSKPQKAALEYLEDIDLKTLEKEPRTFKAKELWEKNGAVIMAVRRPGCFLC
REEAADLSSLKSMLDQLGVPLYAVVKEHIRTEVKDFQPYFKGEIFLDEKKKFYGPQRRKMMFMGFIRLGVWYNFF
RAWNGGFSGNLEGEFGLGGVFVVGSGKQGILLEHREKEFGDKVNLLSVLEAAKMIKPQTLASEKK

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FIGURE 2998

GTCATGCAGTGCGCCGGAGGAACTGTGCTCTTTGAGGCCGACGCTAGGGGCCCCGGAAGGGAAACTGCGAGGCGAA
GGTGACCGGGGACCGAGCATTTTCAGATCTGCTCGGTAGACCTGGTGCACCACCACCATGTTGGCTGCAAGGCTGG
TGTGTCTCCGGACACTACCTTCTAGGGTTTTCCACCCAGCTTTACCAAGGCCTCCCCTGTTGTGAAGAATTCCA
TCACGAAGAATCAATGGCTGTAAACACCTAGCAGGGAATATGCCACCAAAACAAGAATTGGGATCCGGCGTGGA
GAACTGGCCAAGAACTCAAAGAGGCAGCATTGGAACCATCGATGGAAAAAATATTTAAAAATTGATCAGATGGGAA
GATGGTTTTGTTGCTGGAGGGGCTGCTGTTGGTCTTGGAGCATTGTGCTACTATGGCTTGGGACTGTCTAATGAGA
TTGGAGCTATTGAAAAGGCTGTAATTTGGCCTCAGTATGTCAAGGATAGAATTCATTCCACCTATATGTACTTAG
CAGGGAGTATTGGTTTAAACAGCTTTGTCTGCCATAGCAATCAGCAGAACGCCTGTTCTCATGAACCTCATGATGA
GAGGCTCTTGGGTGACAATTGGTGTGACCTTTGCAGCCATGGTTGGAGCTGGAATGCTGGTACGATCAATACCAT
ATGACCAGAGCCCAGGCCCCAAGCATCTTGCTTGGTTGCTACATTCTGGTGTGATGGGTGCAGTGGTGGCTCCTC
TGACAATATTAGGGGGTCTCTTCTCATCAGAGCTGCATGGTACACAGCTGGCATTGTGGGAGGCCTCTCCACTG
TGGCCATGTGTGCGCCAGTGAAAAGTTTCTGAACATGGGTGCACCCCTGGGAGTGGGCCTGGGTCTCGTCTTTG
TGTCCTCATTGGGATCTATGTTTCTTCCACCTACCACCGTGGCTGGTGCCACTCTTTACTCAGTGGCAATGTACG
GTGGATTAGTTCTTTTCAGCATGTTCTTCTGTATGATACCCAGAAAGTAATCAAGCGTGCAGAAGTATCACCAA
TGTATGGAGTTCAAAAATATGATCCCATTAACTCGATGCTGAGTATCTACATGGATACATTAAATATATTTATGC
GAGTTGCAACTATGCTGGCAACTGGAGGCAACAGAAAGAAATGAAGTGAATCAGCTTCTGGCTTCTCTGCTACAT
CAAATATCTTGTTTAAATGGGGCAGATATGCATTAAATAGTTTGTACAAGCAGCTTTCGTTGAAGTTTGAAGATA
AGAAACATGTCATCATATTTAAATGTTCCGGTAATGTGATGCCTCAGGTCTGCCTTTTTTTCTGGAGAATAAATG
CAGTAATCCTCTCCCAAATAAGCACACACATTTTCAATTCTCATGTTTGAGTGATTTTAAATGTTTTGGTGAAT
GTGAAAACATAAGTTTTGTGTCATGAGAATGTAAGTCTTTTTTCTACTTTAAATTTTAGTAGGTTCACTGAGTAAC
TAAATTTTAGCAAACTGTGTTTGCAIATTTTTTTGGAGTGCAGAATATTGTAATTAATGTCATAAGTGATTTGG
AGCTTTGGTAAAGGGACCAGAGAGAAGGAGTCACCTGCAGTCTTTTGTTTTTTTAAATACTTAGAAGTTAGCACT
TGIGTTATTGATTAGTGAGGAGCCAGTAAGAAACATCTGGGTATTTGGAAAACAAGTGGTCATTGTTACATTCATC
TGCTGAACCTTAACAAAACCTGTTTCATCCTGAAACAGGCACAGGTGATGTCATTCTCCTGCTGTTGCTTCTCAGTGCT
CTCTTTCCAATATAGATGTGGTCATGTTTGACTTGTACAGAATGTTAATCATAACAGAGAATCCTTGATGGAATTA
TATATGTGTGTTTTACTTTTGAATGTTACAAAAGGAAATAACTTTAAACTATTCTCAAGAGAAAATATTCAAAG
CATGAAATATGTTGCTTTTTCCAGAATACAAACAGTATACTCATGATTGCTAAGTGTTTTTTTTATTTTTGCATAT
TTATTGAAGTGTCTAATTGAATACAGCTTGCTCTTGTACCTCTTCAAGCTTTCAAGCCTTTATAGAAAAGCTTC
TTTGTGGCTTACACTGGAAATTATGAAAGCAGTTTTTCTCCTAAGACTTTTGGTTTTCTCGCATTGCCTCTCAGAC
TAAGCACTAAAAAGCAAAGCAAAACAGAACTAGTTCTGTCTTAATGAAATATATCAACCCAAAAGTGTAATGAGG
AAAATGCTTCATTAGTTTTCCCTAGCAGACTTTTACTTCTCTTACACTGCTACACCATTACTTTCTTGAGACATT
TGTAAGTTCTTTGATACAGAAGAGTTATATTTAGAAGTCTTTAATGAAGGG

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FIGURE 2999

CAGGACCCAAGGAACCAAAATTGCATCTGATGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGA
AGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGGTAAAAACTGCCTGACTAACTTCCATGGCGT
GGATCTTACCAGTGACAAAATGTGTTCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGTTGATGTCAA
GACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAAACGCAACAATCAGATACGGAAGAC
CTCTTATGCTCAGTACCAGCCAAATCCGGAAGAAGATGATGGAATCATGACCCGAGAGGTGCAGACAAATGACT
TGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACGTAGAAAAGGCTTGCCAATCTATTTATC
CTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGC
TTCATGGTGAAGGCTGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGTTAAAGTTGAACGAGCTGATGGAT
ATGAACTACCAGTCCAAGAATCTGTTTAAAATTCAGACTTCAAATAGTGTCAAATAAAAAGTGCTATT

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FIGURE 3000

CTGACCAGCACCA**ATGG**TGGTTGACAAGAACAAGCGCCTTACGAAAGGTGGCAAAAAGGGAGCCAAGAAGAAAGTG
GTTGATCCATTTTCTAAGAAAGATTGGTACGATGTGAACGCACCTGCTATGTTCAATATAAGAAATATTGGAAAG
ACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTG
CAGAAATGATGAAGTTGCATTTAGAAAAATTCAAGCTGATTACTGAAGATGTTTCAGGGTAAAAA**ACT**GCCTGACTAAC
TTCCATGGCGTGGATCTTACCAGTGACAAAAATGTGTTCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCAC
GTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAAACGCAACAATCAG
ATACGGAAGACCTCTTATGCTCAGCACCCAGCAGGTCCGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGA
GAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACGTAGAAAAG
GCTTGCCAATCTATTTATCCTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAA
TTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCTGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGTTAAA
GTTGAACGAGCTGATGGATATGA**ACT**ACCAGTCCAAGAATCTGTT**TAAA**AATTCAGACTTCAAATAGTGTCAAATA
AAAAGTGCTATT

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FIGURE 3001

MVVDKNKRLTKGGKKGAKKKVVDPFSSKDWYDVNAPAMFNIRNIGKTLVTRTQGTKIASDGRVFEVSLADLQND
VAFRKFKLITEDVQGKNCLTNFHGVDLTSDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGF TKKRNNQIRKT
SYAQHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDVEKACQSIYPLHDVFVRKVKMLKKPKFELGKL
MELHGEGCSSGKATGDETGVKVERADGYELPVQESV

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FIGURE 3002

GGGAGAGTGAGGATGGCAGAGACCAGTGCCTTGCCCACCGGCTTCGGGGAGCTCGAGGTGCTGGCTGTGGGGATG
GTGCTACTGGTGGAAGCTCTCTCCGGTCTCAGCCTCAATACCCTGACCATCTTCTCTTTCTGCAAGACCCCGGAG
CTGCGGACTCCCTGCCACCTACTGGTGTGAGCTTGGCTCTTGCGGACAGTGGGATCAGCCTGAATGCCCTCGTT
GCAGCCACATCCAGCCTTCTCCGTGTCTCCACAGGCGCTGGCCCTACGGCTCGGACGGCTGCCAGGCTCACGGC
TTCCAGGGCTTTGTGACAGCGTTGGCCAGCATCTGCAGCAGTGCAGCCATCGCATGGGGGCGTTATCACCCTAC
TGCACCCGTAGCCAGCTGGCCTGGAACCTCAGCCGTCTCTCTGGTGTCTTTCGTGTGGCTGTCTTCTGCCTTCTGG
GCAGCTCTGCCCCCTTCTGGGTTGGGGTCACTATGACTATGAGCCACTGGGGACATGCTGCACCCTGGACTACTCC
AAGGGGGACAGAACTTCACCAGCTTCCTCTTACCATGTCTTCTTCAACTTCGCCATGCCCTCTTCATCAGC
ATCACTTCCTACAGTCTCATGGAGCAGAACTGGGGAAGAGTGGCCATCTCCAGGTAAACACCCTCTGCCAGCA
AGGACGCTGCTGCTCGGCTGGGGCCCCCTATGCCATCCTGTATCTATACGCAGTCATCGCAGACGTGACTTCCATC
TCCCCCAAACCTGCAGATGGTGCCCGCCCTCATTGCCAAAATGGTGCCACGATCAATGCCATCAACTATGCCCTG
GGCAATGAGATGGTCTGCAGGGGAATCTGGCAGTGCCTCTCACCGCAGAAGAGGGAGAAGGACCGAACCAAGTGA

GCCTGCCACCCTGGAGTGAGCCCCAGGCCAGGAGGCTGTTCCAGGAGTCTGCCCAGCAGCCTCGGTGGCCAAGC
CCAGACACTCACCCACCTTCCCCAGTGGCCCCGTGGATCCTGGTCTTAGGCTGGACACAGGATTCAGAAAGACAC
CAGGCTGCACAGAAAGAGCCAGATGGACCTGAGTGTGGTACACAGCCCCCTACACTCAAGGCTGAGAGGCCTCAG
GAAAGTCATTCTTTTTTAAAAATAATAATAAATGTAAGGGGGTACAGTGCAGTTTTGTTACATGGATAGATTGCC
TAGTGGTGAAGTCTGGGCTTTTAGTGTAACCATCACCTAATAATATACGTTGTACCCATTAAGTTATTTCTCAT
CCCTCACCCCTCCACCTTGTACCCCTTCTGAGTCTCCAATGTCTATTATTCACACTCCATGTCCACGTGTAC
ACATTATTTAGCTCCCACTTACAAGTGAGAACATGTGGTATTTGACTTTCTGTTTTTGAGTTATTTCACTTAAAA
TAATGACCTCCAGTTTTCATCCATGTTGCTGCAAAAGACATGATCTCGTTCTTTTTTATGGCAGTGTAGTATTCCA
TTCCATATACATATATAAACGTTATATATAATGTAACGTTTTCTTTATCCAATCATCTGTTGATGGATAGATTCCA
TATCTTTGCTACTGTAAACAGAGCTGTGATAAGCATACAAGTGCAGGTTTCTTTTTGATATACTGATTTCTTTTC
CTTTGGGTAGATAACCAGTAGTAGGACTGCTGGATCAAATGGTAGCTCTATTTTTAAGACAGTATGGAGAAATCAC
CATACTGTTTTCCATAGGGGTGTACTAATTTACAGTCCACCAACAGTGTATAGGIGTTCCCTTTTCTCTGCAT
CCTTACCAATATCTGTAATTTTTTGACTTTTTAATAATAGCCATTCTCATTTGTGTGAGATAAGGTCTCATTGTG
GTTTTAATTTCCATTTCTCTGATGACTTTTGATGTTAAGCATTTTTTCATATGCTTCTTAGCCACGTGTATGTAT
TCTTTTTGAAAAATGTTTATTCATGTCTTTTGCCACTTTTTAATGGCATTATTTGGATTTTTTTTGTTGAGTT
ATTTGAGTTTCTTATATATTCTGGATAATAGTCTGGATAATATATTCTGGATAATATATAATAGTCTTATATATT
CTGGATATATTCTGGATACATGGTTTGCAATATTTTCTCCGGTCTGCACGTTGTTCACTTCTGTTGATGGTTTA
TTTTGCTGTGCAGAACTTTTTTAGTTTAATTAAGTCCCATTGTCTAAAAAAAAAAAAAAAAA

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FIGURE 3003

MAETSALPTGFGELEVLAVGMVLLVEALSGLSLNTLTIFSFKTPELRTPCHLLVLSLALADSGISLNALVAATS
SLLRVSHRRWPYGSDGCQAHGFQGFVTALASICSSAAIAWGRYHHYCTRSQLAWNSAVSLVLFVWLSSAFWAALP
LLGWGHYDYEPLGTCCTLDYSKGDRNFTSFLFTMSFFNFAMPLFITITSYSLMEQKLKGKSGHLQVNTTLPARTLL
LGWGPYAILYLYAVIADVTSISPKLQMPALIAKMVPTINAINYALGNEMVCRGIWQCLSPQKREKDRTK

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FIGURE 3004

GGGCAACCCGCGCGGGACCCTTCCCTCCCTAGTCGCGGGGAGTCTGAGAAAGCGCGCCTGTTTCGCGACCATCACG
CACCTCCCCCTCCGCTTGTGGCCATGTACCCTACCTGGGCGAAGCGCTGTTGCTGTCCCGGGCCGGGCCCCGCTGC
CCTGGGCTCGGCGTCCGCCGACTCGGCCGCGTTGCTGGGCTGGGCCCCGGGACAGCCCCGCCGCCCGCCGAGCC
GGGGCTGGCATTGGCCGCCCCGGCGCCACTACAGCGAGGCGGTGGCCGACCGCGAGGACGACCCCAACTTCTTCAA
GATGGTGGAGGGCTTCTTCGATCGCGGCGCCAGCATCGTGGAGGACAAGCTGGTGGAGGACCTGAGGACCCGGGA
GAGCGAGGAGCAGAAGCGGAACCGGGTGC GCGGCATCCTGCGGATCATCAAGCCCTGCAACCATGTGCTGAGTCT
CTCCTTCCCCATCCGGCGCGACGACGGCTCCTGGGAGGTATCGAAGGCTACCGGGCCAGCACAGCCAGCACCG
CACGCCCTGCAAGGGAGGTATCCGTTACAGCACTGATGTGAGTGTAGATGAAGTAAAAGCTTTGGCTTCTCTGAT
GACATACAAGTGTGCAGTGGTTGATGTGCCGTTTGGGGGTGCTAAAGCTGGTGTAAAGATCAATCCCAAGAACTA
TACTGATAATGAATTGGAAGATCACAAGGAGGTTACCATTGGAGCTAGCAAAAAGGGCTTTATTGGTCTCTGG
CATTGATGTGCTGCTCCAGACATGAGCACAGGTGAGCGGGAGATGTCCTGGATCGCTGATACCTATGCCAGCAC
CATAGGGCACTATGATATTAATGCACACGCTGTGTTACTGGTAAACCCATCAGCCAAGGGGGAATCCATGGACG
CATCTCTGCTACTGGCCGTGGTGTCTTCCATGGGATTGAAAATTTTCATCAATGAAGCTTCTTACATGAGCATTTT
AGGAATGACACCAGGGTTTGGAGATAAAACATTTGTTGTTTCCAGGATTTGGTAATGTGGGCCTACACTCTATGAG
ATATTTACATCGTTTTTGGTGCTAAATGTATTGCTGTTGGTGAGTCTGATGGGAGTATATGGAATCCAGATGGTAT
TGACCCAAAGGAACCTGGAAGACTTCAAATTGCAACATGGGTCCATTCTGGGCTTCCCCAAGGCAAGCCCTATGA
AGGAAGCATCTTGGAGGCCGACTGTGACATACTGATCCCAGCTGCCAGTGAGAAGCAGTTGACCAAATCCAACGC
ACCCAGAGTCAAAGCCAAGATCATTGCTGAAGGTGCCAATGGGCCAACAACCTCCAGAAGCTGACAAGATCTTCCT
GGAGAGAAAACATTATGGTTATTCCAGATCTCTACTTGAATGCTGGAGGAGTGACAGTATCTTACTTTGAGTGGCT
GAAGAATCTAAATCATGTCAGCTATGGCCGTTTGACCTTCAAATATGAAAGGGATTCTAACTACCACTTGCTCAT
GTCTGTTCAAGAGAGTTTGAAGAGAAAATTTGGAAAGCATGGTGGAACATTCCCATTTGACCCACGGCAGAGTT
CCAAGACAGGATATCGGGTGCATCTGAGAAAGACATCGTGCACTCTGGCTTGGCATAACAAATGGAGCGTTCTGC
CAGGCAAAATTATGCGCACAGCCATGAAGTATAACCTGGGATTGGACCTGAGAACAGCTGCCTATGTTAATGCCAT
TGAGAAAAGTCTTCAAAGTGTACAATGAAGCTGGTGTGACCTTCATAGATGGATCATGGCTGACTTCCTCACTA
TCCTCTTCACATGTAACTTCTGCAGACCTATCACAAGTTTACATGTAAACACAGAAATCCCTTTCTCTCTGACT
CATTAAATAATGGATACCATTCTCAACAAGTCAATCCAAGTCAGCCCGTTAAGGAGAAAGAAATTAAGGTTAGCGG
ATCATGTACAAGCTGAGTGTGAAAGTAGAAATCACCTACACCAGAGAGCCATTTTGGTATTTTGCCTTTAAATAA
AAAGCCTCCTTTATCTGGCTGTGCAGCCTTGCTCTGTGGCTTTTCCCAACACAATCAGTGCTAGTGCTGGGGAGG
AACAGTCAAGAGCAGTCAGTTGCTTGCTTATTTTTCTGGATGAGTCTGGGACACACTGTAACCTTTAACACATTT
AAGAAGTAGGTGTGTGGCCTTTTCAGAAGGTGGCATGGTCCCTCAAGTGAGTTCTTAGTATTTTATATCAGCAAAA
TAATTCAATTTTGCAGGTTGCAAACAAATATAAAACCTGTTTCTGTTTATGAATATTATTCTTTTAGAATAGAAT
AAGTACATGCTGCTGTAATAAAATTGCCTTTAATCACTTAACAAGCCTAACCTTGACTCAAACAGTGAATGCCTA
TAGAAATAATAAATGAAAAAACTAGTATTTTATATCATAAAACAATGTCATTTATAGCTTATCATTCATGTAT
TGTCCAGCAGACATTAAAAGCCCTGTGGATAATTAAGTTATCTTCATACCTGCAAAATGGTGGAGGCTATTTTCA
TTAAACTGTGTCAGAAATTTGCTTACCATAATTATGATACAGTCCAAAGAAATGCAGTCACTTTTTATCATGTTAACT
AATTGTTCTCTTTTGAAGATCTATGGTTGACTAATTAACAATAATTCAAGTAGAGTGTCCAGAAAAAAACCAC
TTGGGCTCCCTGTTTGGAGTCTGGCTGGCTCTGAGCATTGCCAATGGCCCCCTACTCACCTGACTTTGTATCCTCT
CCTTTTATAGAGGCTTTGCATTCTGCACCCAGCTTCACTAACAGTGGGCTGAAAACATCCTTGGGTTGAGTGTTC
TTTGGGAGTTATTTGGCCAGGGCCTTTTGAACAGTAGTGTCCCCATGAAGTGCTAGATAATATATGTGTAAGAGT
CAGCTTTTTTTTTTTTTTTTAACTCTAACCCCTTCAGAAATTTCTAACTACTTTGTAAGTGCATGGCTTAACCT
GGTGATAAAAGCAGTTATTAAAAGTCTACGTTTTTCAAAAAAAAAAAAAA

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FIGURE 3005

MYRYLGEALLLSRAGPAALGSASADSAALLGWARGQPAAAPQPGLALAARRHYSEAVADREDDPNFFKMVEGFFD
RGASIVEDKLVEDLRTRESEEQKRNVRVGRILRIKPCNHVLSLSFPIRRDDGSWEVIEGYRAQHSQHRTPCGGI
RYSTDVSVDEVKALASLMTYKCAVVDVPFGGAKAGVKINPKNYTDNELEKITRRFTMELAKKGFIGPGIDVPAPD
MSTGEREMSWIADTYASTIGHYDINAHACVTGKPISQGGIHGRISATGRGVFHGIENFINEASYMSILGMTPGFG
DKTFVVQGFNGVGLHSMRYLHRFGAKCIAVGESDGSIWNPDGIDPKELEDFKLQHGSIILGFPKAKPYEGSILEAD
CDILIPAASEKQLTKSNAPRVKAKIIAEGANGPTTPEADKIFLERNIMVIPDLNAGGVTVSYFEWLKLNHVS
YGRITFKYERDSNYHLLMSVQESLERKFGKHGGTIPIVPTAEFQDRISGASEKDIVHSGLAYTMERSARQIMRTA
MKYNLGLDLRTAAYVNAIEKVFKVYNEAGVTFT

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FIGURE 3006

ATGGGGGAGAATATCATTGTAGAAAAATGGAAACAGTGTGGATCAAGGTAGAGTGGATCTCGTGCAGGGTCCCCTT
GGTGAACAGTGGCCATGTCCGCAACACTGGGTGCATTGGGACAGCACCAGGTATGAACCTCATCATAGCAGCCAT
CACAAGGACAAGGCCATTAAAGAAATTCGTCATTCAAAACATAGTGGAGGCCACAGCAGTCAGGGACATTTCTGAA
GCGAGCGTCTTTGATGCCTATGTGCGTCCCAAGCTGTATGTGAAGCTACATTACTGTGTCTTCACTTCTGCTGTG
TCTACGCTTCTTCTTTACCTAA

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FIGURE 3007

MGENIIVENGNSVDQGRVDLVQGPIGEQWPCPQHWHWDSTRYEPHSSHKKDKAIKKFVIQNIWEATAVRDISE
ASVFDAYVRPKLYVKLHYCVFTSAVSTLLFFT

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FIGURE 3008

GCAGCCCAGCCAAGCACTGTCAGGAATCCTGTGAAGCAGCTCCAGCTATGTGTGAAGAAGAGGACAGCACTGCCT
TGGTGTGTGACAATGGCTCTGGGCTCTGTAAGGCCGGCTTTGCTGGGGACGATGCTCCCAGGGCTGTTTTCCCAT
CCATTGTGGGACGTCCCAGACATCAGGGGGTGATGGTGGGAATGGGACAAAAGACAGCTACGTGGGTGACGAAG
CACAGAGCAAAAGAGGAATCCTGACCTGAAGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGG
AAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTGCTCACGGAGG
CACCCCTGAACCCCAAGGCCAACCGGGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCCAGCCATGT
ATGTGGCTATCCAGGCGGTGCTGTCTCTCTATGCCTCTGGACGCACAACCTGGCATCGTGCTGGACTCTGGAGATG
GTGTCACCCACAATGTCCCCATCTATGAGGGCTATGCCTTGCCCCATGCCATCATGCGTCTGGATCTGGCTGGCC
GAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTGGCTATTCTTCGTTACTACTGCTGAGCGTGAGA
TTGTCCGGGACATCAAGGAGAACTGTGTTATGTAGCTCTGGACTTTGAAAATGAGATGGCCACTGCCGCATCCT
CATCTCCCTTGAGAAGAGTTACGAGTTGCCTGATGGGCAAGTGATACCATCGGAAATGAACGTTTCCGCTGCC
CAGAGACCCTGTTCCAGCCATCCTTCATCGGGATGGAGTCTGCTGGCATCCATGAAACCACCTACAACAGCATCA
TGAAGTGTGATATTGACATCAGGAAGGACCTCTATGCTAACAATGTCCTATCAGGGGGCACCCTATGTACCCTG
GCATTGCCGACCGAATGCAGAAGGAGATCACGGCCCTAGCACCCAGCACCATGAAGATCAAGATCATTGCCCTC
CGGAGCGCAAATACTCTGTCTGGATCGGTGGCTCCATCCTGGCCTCTCTGTCCACCTTCCAGCAGATGTGGATCA
GCAAACAGGAATACGATGAAGCCGGGCCTTCCATTGTCCACCGCAAATGCTTCTTAAAACACTTTTCTGCTCCTCT
CTGTCTCTAGCACACAACCTGTGAATGTCCTGTGGAATTATGCCTTCAGTTCTTTTCCAAATCATTCTAGCCAAA
GCTCTGACTCGTTACCTATGTGTTTTTTAATAAATCTGAAATAGGCTACTGGTAA

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FIGURE 3009

MCEEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTTLKYPIEH
GIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNPAMYVAIQAVLSLYASGRT
TGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDF
ENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYSIMKCDIDIRKDLYANNV
LSGGTTMYPGIADRMQKEITALAPSTMKIKI IAPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRK
CF

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FIGURE 3010

ACTTTCCCTTTTGTAACTGAGCTGAAGGGGAAACAAACAAAAAGGAACAGAGGCCACTTGTATATATAGGTCTC
TTCAGCATTTTATTGGTGGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCCGAACAGC
TGAGAATTGCACTGCAACC**ATG**AGTGAGAACAATAAGAATTCCTTGGAGAGCAGCCTACGGCAACTAAAATGCCA
TTTCACCTGGAACCTTGATGGAGGGAGAAAACCTCCTTGGATGATTTTGAAGACAAAGTATTTTACCGGACTGAGTT
TCAGAATCGTGAATTCAAAGCCACAATGTGCAACCTACTGGCCTATCTAAAGCACCTCAAAGGGCAAACGAGGC
AGCCCTGGAATGCTTACGTAAAGCTGAAGAGTTAATCCAGCAAGAGCATGCTGACCAGGCAGAAATCAGAAGTCT
GGTCACCTGGGGAACTATGCCTGGGTCTACTATCACATGGGCCGACTCTCAGACGTTTATGTAGACAA
GGTGAAACATGTCTGTGAGAAGTTTCCAGTCCCTATAGAATTGAGAGTCCAGAGCTTGACTGTGAGGAAGGGTG
GACACGGTTAAAGTGTGGAGGAAACCAAAATGAAAGAGCGAAGGTGTGCTTTGAGAAGGCTCTGGAAAAGAAGCC
AAAGAACCCAGAATTCACCTCTGGACTGGCAATAGCAAGCTACCGTCTGGACAACCTGGCCACCATCTCAGAACGC
CATTGACCCTCTGAGGCAAGCCATTCGGCTGAATCCTGACAACCAGTACCTTAAAGTCCTCCTGGCTCTGAAGCT
TCATAAGATGCGTGAAGAAGGTGAAGAGGAAGGTGAAGGAGAGAAGTTAGTTGAAGAAGCCTTGGAGAAAGCCCC
AGGTGTAACAGATGTTCTTCGCAGTGCAGCCAAGTTTTATCGAAGAAAAGATGAGCCAGACAAAGCGATTGAACT
GCTTAAAAAGGCTTTAGAATACATACCAACAATGCCTACCTGCATTGCCAAATGGGTGCTGCTATAGGGCAAA
AGTCTTCCAAGTAATGAATCTAAGAGAGAATGGAATGTATGGGAAAAGAAAGTTACTGGAATAATAGGACACGC
TGTGGCTCATCTGAAGAAAGCTGATGAGGCCAATGATAATCTCTTCCGTGCTGTTCCATTCTTGCCAGCCTCCA
TGCTCTAGCAGATCAGTATGAAGACGCAGAGTATTACTTCCAAAAGGAATTCAGTAAAGAGCTTACTCCTGTAGC
GAAACAACCTGCTCCATCTGCGGTATGGCAACTTTCAGCTGTACCAATGAAGTGTGAAGACAAGGCCATCCACCA
CTTTATAGAGGGTGTAAAAATAAACAGAAATCAAGGGAGAAAAGAAAAGATGAAAGACAACTGCAAAAAATTGC
CAAAATGCGACTTTCTAAAAATGGAGCAGATTCTGAGGCTTTGCATGTCTTGGCATTCTTCAGGAGCTGAATGA
AAAAATGCAACAAGCAGATGAAGACTCTGAGAGGGGTTTGGAGTCTGGAAGCCTCATCCCTTCAGCATCAAGCTG
GAATGGGGAAT**TGA**AGAATAGAGATGTGGTGCCCACTAGGCTACTGCTGAAAGGGAGCTGAAATTCCTCCACCAAG
TTGGTATTCAAAATATGTAATGACTGGTATGGCAAAAGATTGGACTAAGACACTGGCCATACCACTGGACAGGGT
TATGTTAACACCTGAATTGCTGGGTCTTGAGAGAGCCCAAGGAGTTCTGGGAGAGGGACCAGATTGGGGGGTAGG
TCCACGGGCTTGGTGATAGAATTATTTCTCGATTGACTTCTTGAGTGCAATTTGAACTGTAACATTTGCTTAGTC
ACCTTTAGTGGAGTAATCTACTGGGCTTGTTTCTATATTTATATAAAGCAGCCAAATCCTTCATGTAATATTGAA
GTCCATTTTTGCAATGTTGTTCCATACTTGGAGTCATTTTGCATCCCATAGAGGTTAGTCCTGCATAGCCAGTAA
TGTGCTAAGTTCATCCAAAAGCTGGCGGACCAAAAGTCTAAATAGGGCTCAGTATCCCCCATCGCTTATCTCTGCC
TCCTTCCTCCTCCTTCCCAGTCTATCATCAACCTTGAGTATTCTACACAATGTGAATTCAAGTGCCTGATTAAAT
GAGGTGGCAACATAGTTTGGAGCGAGGGCAGAGAACAGGAAGATACATAGCTAGAAGCGACGGGTACAAAAGCA
ATGTGTACAAGAAGACTTTCAGCAAGTATACAGAGAGTTCACCTCTACTCTGCCCTCCTCATAGTCATAATGTAG
CAAGTAAAGAATGAGAATGGATTCTGTACAATACACTAGAAACCAACATAATGTATTTCTTTAAACCTGTGTGA
AAAAA

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FIGURE 3011

MSENNKNSLESSLRQLKCHFTWNLMEGENSLDDFEDKVFYRTEFQNREFKATMCNLLAYLKHLKGQNEAALECLR
KAEELIQQEHADQAEIRSLVTWGN YAWVYYHMGRLSDVQIYVDKVKHVCEKFSSPYRIESPELDCEEGWTRLKCG
GNQNERAKVCFEKALEKKPKNPEFTSGLAIASYRLDNWPPSQNAIDPLRQAIRLNP DNQYLKVLLALKLHKMREE
GEEEGEGEKLVEEAEKAPGVTDVLRSAKFYRRKDEPDKAIELLKKALEYIPNNAYLHCQIGCCYRAKVFQVMN
LRENGMYGKRKLELIGHAVAHKKADEANDNLF RVCSILASLHALADQYEDA EYYFQKEFSKELTPVAKQLLHL
RYGNFQLYQMKCEDKAIHHFIEGVKINQKSREKEKMKDKLQKIAKMRLSKNGADSEALHVLAF LQELNEKMQQAD
EDSERGLESGSLIPSASSWNGE

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FIGURE 3012

CTCCCGGACGTAGGTAGTTTGTGTTGGGCCGGGTTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGA
TGCCGCAGTACCAGACCTGGGAGGAGTTCAGCCGCGCTGCCGAGAAGCTTTACCTCGCTGACCCTATGAAGGCAC
GTGTGGTTCTCAAATATAGGCATTCTGATGGGAACTTGTGTGTTAAAGTAACAGATGATTTAGTTTGTGTTGGTGT
ATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATTCACAGTCAACTAATGCGACTTATGGTAGCCA
AGGAAGCCCGCAATGTATTTTGGAGCATAAAATGTATGCTGTTGTGACCAATAAATATAAAATATGGTAATTGGA
ATTAACCCACACCATAGTATGCATTGTTATACATACTGTGTACCTAATTATGTATAGCAGTGTAGTCTCAATTA
TATCTAAAAGTAATTGTGACTAACAAGTATGCTTTGCCTTATTTCCACATTTAAAGTACCTGTTAATATAAGGGA
TTTGTAGTATCAGCTTGTTGAGCAATGACTTTGAATCTAGTTTTCAGTGATCAGAAGCAGCATTTATTTGAGTGT
ATGAATGGAATGATGATCACTGTGCTATAATGTACTGAAACCACCATATTACAGAAATATTTACTACATATTTTC
CATCTGTAGTTTCTCAGAAGGGCTATGGATTAGTTTGAAGTGTCAAATCCTTGCATACTTCTGTGACACCCCTGC
CCATTTTCTGTCTTTAATTAACCAAGGTGTTAGGTGTTACTGTCACTGTTATGTTTTCCAGTAAACTAGAAG
TACGATATTTGATAATTATATTTGTATCCTAAATTTACCACCTAAATGTAATGTTGATTCTCAAGAATGAAAT
GAAGGCACTACATTGAAATATGTTTTGTATAAATTTGTCATGTTGAACAACATTTTA

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FIGURE 3013A

CTTCTCTCCCAGGGCGGTGCGACCCGGAGCTCCAGCGCCCGAGTCTCCACTTCGTTTGCTGAAACTTGCTTTCTA
CCAGCTAAGAACC**ATG**CTGCGAGTGATTGTGGAATCTGCCAGCAATATCCCTAAAACGAAATTTGGCAAGCCGGA
TCCTATTGTTTCTGTCAATTTTTAAGGATGAGAAAAAGAAAACAAAGAAAGTTGATAATGAATTGAACCCTGTCTG
GAATGAGATTTTGGAGTTTGACTTGAGGGGTATAACCACTGGACTTTTTCATCTTCCCTTGGGATTATTGTGAAAGA
TTTTGAGACAATTGGACAAAATAAATTAATTGGCACGGCGACTGTAGCCCTGAAGGACCTGACTGGTGACCAGAG
CAGATCCCTGCCGTACAAGCTGATCTCCCTGCTAAATGAAAAAGGGCAAGATACTGGGGCCACCATTGACTTGGT
GATCGGCTATGATCCGCCTTCTGCTCCACATCCAAATGACCTGAGCGGGCCAGCGTGCCAGGCATGGGAGGAGA
TGGGGAAGAAGATGAAGGTGATGAAGACAGGTTGGACAATGCAGTCAGGGGCCCTGGGGCCAAGGGGCCAGTTGG
GACGGTGTCGGAAGCTCAGCTTGCTCGGAGGCTCACCAAAGTAAAGAACAGCCGGCGGATGCTGTCAAATAAGCC
ACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCCGACAGTTAAGTGTAACAACATAAGGCCTGTGGTCAA
AGTTCACGTCTGTGGCCAGACACACCGAACAAGAATCAAGAGAGGAAACAACCCTTTTTTTGATGAGTTGTTTTT
CTACAATGTCAACATGACCCCTTCTGAATTGATGGATGAGATCATCAGCATCCGGGTTTATAATTCTCACTCTCT
GCGGGCAGATTGTCTGATGGGGGAATTTAAGATTGATGTTGGATTGTTTTATGATGAACCTGGCCATGCTGTCTAT
GAGAAAGTGGCTTCTTCTCAATGACCCGGAAGATAACAGTTCAGGTTCTAAAGGTTATATGAAAGTCAGCATGTT
TGTCTTGGGAACCGGAGATGAGCCTCCTCCTGAGAGACGAGATCGTGATAATGACAGTGATGATGTGGAGAGTAA
TTTGTTACTCCCTGCTGGCATTGCCCTCCGGTGGGTGACCTTCTTGCTGAAAATCTACCGAGCTGAGGACATCCC
CCAGATGGATGATGCCTTCTCACAGACAGTAAAGGAAATATTTGGAGGCAATGCAGATAAGAAAAATCTCGTGGA
TCCTTTTGTAGAAGTTTCCTTTGCTGGAAAAAGGTTGTACAAACATAATTGAGAAAAATGCAAAACCAGAGTG
GAATCAGGTGCTCAATCTTCAGATCAAGTTTCCTTCAGTGTTGAAAAAATAAACTAACAATATATGACTGGGA
CCGTCTTACTAAAAATGATGTAGTTGGAACAACATATCTACACCTCTCTAAAATTGCTGCCTCTGGTGGGGAAAGT
GGAAGATTTCTCATCTTCGGGAACCTGGGGCTGCATCATATACAGTAAACACAGGAGAAACAGAGGTAGGCTTTGT
TCCAACGTTTGGACCTTGTTACCTGAATCTTTATGGAAGCCCCAGGGAGTACACGGGATTCCAGACCCCTATGA
TGAGCTGAATACTGGAAGGGGGAAGGAGTTGCCTACAGAGGCAGGATCTTGTTGAATTAGCCACTTTTCTTGA
GAAGACACCACCAGATAAAAAAGCTTGAGCCCATTTCAAAATGATGACCTGCTGGTTGTTGAGAAATACCAGCGAAG
GCGGAAGTACAGCCTGTCTGCCGTGTTTCATTACGCCACCATGTTGCAAGATGTTGGTGAGGCCATTACAGTTTGA
AGTCAGCATTGGGAACATATGGCAACAAGTTTGACACCACCTGTAAGCCTTTGGCATCAACAACCTCAGTACAGCCG
TGCTGTATTTGATGGCAACTACTATTATTACTTGCCTTGGGCCCCACACCAAGCCAGTTGTTACCTGACTTCATA
CTGGGAGGATATTAGTCATCGCCTGGATGCGGTGAACACTCTCCTAGCTATGGCAGAACGGCTGCAACAAATAT
AGAAGCTCTAAAATCAGGGATACAAGGTAAAATTCCTGCAAAACCAGCTGGCTGAATTGTGGCTGAAGCTGATAGA
TGAAGTTATAGAAGACACGAGATACAGTTGCCTCTCACAGAAGGAAAAGCCAACGTCACAGTTCTCGATACTCA
GATCCGAAAGCTGCGGTCCAGGTCTCTCTCCAAATACATGAGGCGGCTGTGAGGATGAGGTCGGAAGCCACAGA
TGTGAAGTCCACACTGGCAGAAATTGAGGACTGGCTTGATAAATTAATGCAGCTGACTGAAGAGCCACAGAACAG
CATGCCTGACATCATCTGATGATCCGGGGAGAGAAGAGACTGGCCTATGCACGAATTCCCGCACATCAGGT
CTTGTACTCCACCAAGTGGTGAGAAATGCATCTGGAATACTGTGGGAAAACCCAAACCATCTTCTGAAGTATCC
ACAGGAGAAAAACAACGGGCCAAAGGTGCCGTGTGGAGTTGCGAGTGAACATCTGGCTAGGCTTAAGTGCTGTGGA
GAAGAAGTTTAAACAGCTTCGCAGAAGGAACCTTCACCGTCTTTGCTGAAATGTATGAAAATCAAGCTCTCATGTT
TGGAATTTTCTGCCTCCAAAAGGCTGGGAATGGGAAGGAGAGTGATAGTTGATCCTGAAAGAAGCTTGCTGAC
TGAGGCAGATGCAGGTACACGGAGTTCACTGATGAAGTCTATCAGAACGAGAGCCGCTACCCCGGGGGCGACTG
GAAGCCGGCCGAGGACACCTACACGGATGCGAACGGCGATAAAGCAGCATCACCCAGCGAGTTGACTTGCTCCTCC
AGGTTGGGAATGGGAAGATGATGCATGGTCTTATGACATAAATCGAGCGGTGGATGAGAAAGGCTGGGAATATGG
AATCACCATTCTCCTGATCATAAGCCCCAAATCCTGGGTTGCAGCAGAGAAAATGTACCACACTCATAGACGGCG
AAGGCTGGTCCGAAAACGCAAGAAAGATTTAACACAGACTGCTTCAAGCACCGCAAGGGCCATGGAGGAATTGCA
AGACCAAGAGGGCTGGGAATATGCTTCTCTAATTGGCTGGAAATTTCACTGGAAACAACGTAGTTTCAAGTACCTT
CCGCCGACAGCTGGAGGAGAAAAATGGCTCCTTCAGAAACACATGGTGCAGCTGCCATCTTTAACTTGAAGG
TGCCCTTGGGGCAGACACTACCGAAGATGGGGATGAGAAGAGCCTGGAGAAACAGAAGCACAGTGCCACCCTGT
GTTCCGAGCAAACACCCCCATTGTTTCTGCAATTTTGACAGAGTCTACATCTACCATCTGCGCTGCTATGTCTA
TCAAGCCAGAAACCTCTTGGCTTTAGATAAGGATAGCTTTTCAGATCCATATGCTCATATCTGTTTCTCCATCG

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FIGURE 3013B

GAGCAAAACCACTGAGATCATCCATTCAACCCTGAATCCCACGTGGGACCAACAATTATATTCGATGAAGTTGA
AATCTATGGGGAACCCCAAACAGTTCTACAGAATCCACCCAAAGTTATCATGGAACCTTTTGGACAATGACCAAGT
GGGCAAAGATGAATTTTTAGGACGAAGCATTCTCTCTCTGTGGTGAAACTGAACTCAGAAATGGACATCACACC
CAAACCTTCTCTGGCACCCAGTAATGAATGGAGACAAAGCCTGCGGGGATGTTCTTGTAACCTGCAGAGCTGATTCT
GAGGGGCAAGGATGGCTCCAACCTTCCCATTCTTCCCCCTCAAAGGGCGCCAAATCTATACATGGTCCCCCAGGG
GATCAGGCCTGTGGTCCAGCTCACTGCCATTGAGATTCTAGCTTGGGGCTTAAGAAATATGAAAACTTCCAGAT
GGCTTCTATCACATCCCCAGTCTTGTGTGGAGTGTGGAGGAGAAAGGGTGGAATCGGTGGTGATCAAAAACCT
TAAGAAGACACCCAACCTTCCAAGTTCTGTTCTCTTCATGAAAGTGTTCTTGCCCAAGGAGGAATTGTACATGCC
CCCCTGGTGATCAAGGTCATCGACCACAGGCAGTTTGGGCGGAAGCCTGTCGTCGGCCAGTGCACCATCGAGCG
CCTGGACCGCTTTTCGCTGTGACCCCTTATGCAGGGAAAGAGGACATCGTCCCACAGCTCAAAGCCTCCCTTCTGTCT
TGCCCCACCATGCCGGGACATCGTTATCGAAATGGAAGACACCAAACCATTAAGCTTCTAAGCTGACAGAAAA
GGAGGAAGAAATCGTGGACTGGTGGAGTAAATTTTATGCTTCTCAGGGGAACATGAAAAATGCGGACAGTATAT
TCAGAAAGGCTATTCCAAGCTCAAGATATATAATTGTGAAGTAAAGTATGATGAGAAATTTGAGGGCTGACAGA
CTTCTCAGATACGTTCAAGTTGTACCGAGGCAAGTCGGATGAAATGAAGATCCTTCTGTGGTTGGAGAGTTTAA
GGGCTCCTTTTCGGATCTACCCCTGTCGGGATGACCCAGCGTGCCAGCCCCCTCCAGACAGTTTCGGGAATTACC
TGACAGCGTCCCACAGGAATGCACGGTTAGGATTTACATTGTTTCGAGGCTTAGAGCTCCAGCCCCAGGACAACAA
TGGCCTGTGTGACCCCTTACATAAAAAATAACACTGGGCAAAAAAGTCATTGAAGACCGAGATCACTACATTCCCAA
CACTCTCAACCCAGTCTTTGGCAGGATGTACGAAGTGAAGTGTACTTACCTCAAGAAAAAGACCTGAAAATTTT
TGTCTATGATTATGACACCTTTACCCGGGATGAAAAAGTAGGAGAAAAAATTATTGATCTGAAAAACCGATTCTT
TTCCCGCTTTGGGTCCCACTGCGGCATACCAGAGGAGTACTGTGTTTCTGGAGTCAATACCTGGCGAGATCAACT
GAGACCAACACAGCTGCTTCAAATGTCGCCAGATTCAAAGGCTTCCCAACAACCCATCCTTTCCGAAGATGGGAG
TAGAATCAGATATGGAGGACGAGACTACAGCTTGGATGAATTTGAAGCCAACAAAATCCTGCACCAGCACCTCGG
GGCCCTGAAGAGCGGCTTGTCTTTCACATCCTCAGGACTCAGGGGCTGGTCCCTGAGCACGTGGAACAAGGAC
TTTGACAGCACCTTCCAGCCCAACATTTCCAGGGAAAACTTCAGATGTGGGTGGATGTTTTCCCAAGAGTTT
GGGGCCACCAGGCCCTCCTTTCAACATCACACCCCGGAAAGCCAAGAAATACTACCTGCGTGTGATCATCTGGAA
CACCAAGGACGTTATCTTGGACGAGAAAAGCATCACAGGAGAGGAAATGAGTGACATCTACGTCAAAGGCTGGAT
TCCTGGCAATGAAGAAAAACAAACAGAAAACAGATGTCCATTACAGATCTTTGGATGGTGAAGGGAATTTTAACTG
GCGATTTGTTTTCCCGTTTGACTACCTTCCAGCCGAACAACCTCTGTATCGTTGCGAAAAAAGAGCATTTCTGGAG
TATTGACCAAACGGAATTTTGAATCCCACCCAGGCTGATCATTCAGATATGGGACAATGACAAGTTTTCTCTGGA
TGACTACTTGGGTTTCTAGAACTTGACTTGCGTCAACAGATCATTCCTGCAAAATCACCAGAGAAATGCAGGTT
GGACATGATTCCGGACCTCAAAGCCATGAACCCCTTAAAGCCAAGACAGCCTCCCTCTTTGAGCAGAAGTCCAT
GAAAGGATGGTGGCCATGCTACGCAGAGAAAGATGGCGCCCGCGTAATGGCTGGGAAAGTGGAGATGACATTGGA
AATCCTCAACGAGAAGGAGGCCGACGAGAGGCCAGCCGGGAAGGGCGGGACGAACCCAACATGAACCCCAAGCT
GGACTTACCAAATCGACCAGAAACCTCCTTCTCTGGTTCACCAACCCATGCAAGACCATGAAGTTTCATCGTGTG
GCGCCGCTTTAAGTGGGTATCATCGGCTTGCTGTTCTGCTTATCCTGCTGCTCTTCGTGGCCGTGCTCCTCTA
CTCTTTGCCGAACCTATTGTCAATGAAGATTGTAAAGCCAAATGTGTAACAAAGGCAAAGGCTTCATTTCAAGAG
TCATCCAGCAATGAGAGAATCCTGCCTCTGTAGACCAACATCCAGTGTGATTTTGTGTCTGAGACCACACCCAG
TAGCAGGTTACGCCATGTCACCGAGCCCCATTGATTCCCAGAGGGTCTTAGTCTGGAAAGTCAGGCCAACAAAGC
AACGTTTGCATCATGTTATCTCTTAAAGTATTAAGTTTTATTTTCTAAAGTTTAAATCATGTTTTTCAAAATAT
TTTTCAAGGTGGCTGGTTCCATTTAAAAATCATCTTTTTATATGTGTCTTCGTTCTAGACTTCAGCTTTTGGAA
ATTGCTAAATAGAAATCAAAAATCTCTGCATCCTGAGGTGATACTTCATATTTGTAATCAACTGAAAGAGCTG
TGCATTATAAAATCAGTTAGAATAGTTAGAACAATTCTTATTTATGCCACAACCATTGCTATATTTTGTATGGA
TGTATAAAAGTCTATTTAACCTCTGTAATGAAACTAAATAAAAAATGTTTCACCTTTAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 3014

MLRVIVESASNIPKTKFGKDPDIVSVIFKDEKKKTKKVDNELNPVWNEILEFDLRGIPLDFSSSLGIIVKDFETI
GQNKLIGHTATVALKDLTGDSRSLPYKLISLLNEKGQDTGATIDLVIGYDPPSAPHPNDLSGPSVPGMGGDGEED
EGDEDRLDNAVRGPGPKGPVGTVSEAQLARRLTQVKNSSRRMLSNKPQDFQIRVRVIEGRQLSGNNIRPVVKVHVC
GQTHRTRIKRGNPPFFDELFFYNVNMTPSELMDEIISIRVYNHSLRADCLMGEFKIDVGFVYDEPGHAVMRKWL
LLNDPEDTSSGSKGYMKVSMFVLGTGDEPPPERDRDNDSDVESNLLLPAGIALRWVTFLLKIYRAEDIPQMDD
AFSQTVEIFGGNADKKNLVDPPFEVVSFAGKKVCTNIEKNANPEWNQVVNLQIKFPSVCEKIKLTIYDWDRLT
NDVVGTTYLHLSKIAASGGEVEDFSSSGTGAASYTNTGETEVGFVPTFGPCYLNLYGSPREYTGFPDPYDELNT
GKGEGVAYRGRILVELATFLEKTPDKKLEPISNDLLVVEKYQRRRKYSLSAVFHSATMLQDVGEAIQFEVSIG
NYGNKFDTTCKPLASTTQYSRAVFDGNYYYLPWAHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALK
SGIQGKIPANQLAELWLKLIDEVIEDTRYTLPLTEGKANVTVLDTQIRKLRSRSLSQIHEAAVRMRSEATDVKST
LAEIEDWLDKLMQLTEEPQNSMPDIIWMIRGEKRLAYARIPAHQVLYSTSGENASGKYCGKTQTIFLKYPQEK
NGPKVPVELRVNIWLGLSAVEKKFNSFAEGTFTVFAEMYENQALMFQKWTSGLVGRHKFSDVTGKIKLKREFFL
PPKGWEWEGEWIVDPERSLLEADAGHTEFTDEVYQNESRYPGGDWKPAEDTYTDANGDKAASPSELTCPPGWEW
EDDAWSYDINRAVDEKGEYGITIPPDHKPKSWAAEKMYHTRRRRLVRKRKDLTQTASSTARAMEELQDQEG
WEYASLIGWKFWKQRSSDTFRRRRWRRKMAPSETHGAAAFKLEGALGADTTEDGDEKSLEKQKHSATTVFGAN
TPIVSCNFDRVYIYHLRCYVYQARNLLALDKDSFSDPYAHICFLHRSKTTEIIHSTLNPTWDQTIIFDEVEIYGE
PQTVLQNPVKVIMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLWHPVMNGDKACGDVLVTAELILRGKD
GSNLPILPPQRAPNLYMVPQGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERVESVVIKNLKKTP
NFPSSVLFMKVFLPKEELYMPPLVIKVIDHRQFGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPC
RDIVIEMEDTKPLLASKLTEKEEEIVDWWSKFYASSGEHEKCGQYIQKGYSKLKIYNCELENVAEFEGLTDFSDT
FKLYRGKSDENEDPSVVGEFKGSFRIYPLPDDPSVPAPPRQFRELPSVPQECTVRIYIVRGLELQPQDNNGLCD
PYIKITLGKKVIEDRDHYIPNTLNPVFGMYELSCYLPQEKDLKISVYDYDTFTRDEKVGETIIDLENRFLSRFG
SHCGIPEEYCVSGVNTWRDQLRPTQLLQNVARFKGFPQPILEDGSRIRYGGRDYSLDEFANKILHQHLGAPEE
RLALHILRTQGLVPEHVETRTLHSTFQPNISQGKLQMWVDVFPKSLGPPGPPFNITPRKAKKYLRVLIWNTKDV
ILDEKSITGEEMSDIYVKGWIPGNEENKQKTDVHYRSLDGEGNFNWRVFVFPFDYLPAEQLCIVAKKEHFWSIDQT
EFRIPRLIIQIWDNDKFSDDYLGFLDLRHTIIPAKSPEKCRLDMIPDLKAMNPLKAKTASLFEQKSMKGWW
PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNPKLDLPNRPETSFLWFTNPCKTMKFIVWRRFK
WVIIGLLFLLILLFVAVLLYSLPNYLSMKIVKPNV

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FIGURE 3015

GTGTGGACAACAGTGAGTATATGGGGAATGGAGACTTCTTACCCACCCGGCTGCAGGCCCAGCAGGATGCTGTCA
ACACAGTTTGTTCATTCAAAGACCCGCAGCAACCCTGAGAACAACGTGGGCCTTATCACACTGGATAATGACTGTG
AAGTGCTGACCACACTCACCCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAACCCAAGGGCAAGA
TCACCTTCTGTCATGGGCATCCACGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAACAATCACAAGATCCGCA
TCATTGCCTTTGTGGGAAACCCGGTGGAGGACAATGAGAAGAATCTGGTGAAACTGGCTAAATGCCTCAAGAAGG
AGAAAGTAAATGTTGACATTATCAATTTTGGGGAAGAGGAGGTGAACACAGAAAAGCTGACAGCCTTTGTAAACA
CGTTGAATGGCAAAGATGGAACCGGTTCTCATCTGGTGACAGTGCCTCCTGGGCCCAGTTTGGCTGATGCTCTCA
TCAGTTTTCCGATTTTGGCTGGTGAAGGTGGTGCCATGATGGGTCTTGGTGCCAGTGACTTTGAATTTGGAGTAG
ATCCCAGTGCTGATCCTGAGCTGGCCTTGGTCCTTCGTGTATTTATGGAAGAGCAGCGGCAGCGGCAGGAGGAGG
AGGCCCGGCAGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAGACTCAGACGATG
CCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCACACTGGGCTTCCTGACCTAAGCAGTATGACTGAGG
AAGAGAAGATTGTTTGTGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCTGGCAGAATCAGCAGACATTG
ATGCCAGCTCAGCCATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGCAAGACCCTGAGT
TCCTTCAGAGTGTCTTAGAGAACCTCCCAGGTGTGGATCCCAACAATGAAGCCATTGAAATGCTGTGGGCTCCC
TGGCCTCCCAGGCCACCAAGGACAGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTGAGACTGGAGGGAAAGGG
TAGCTGAGCCTGCTCAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTTATCTGTAATCATTAT
AGCCTAAATAAAGCTTGGCAA

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FIGURE 3016

GGGGATTTGGCTAGAAAGGCTGGGCCGGCAGCGGTTGTGAGGAGTTAGCTCGCGGCATTGCAGGCTCTGAGAGGAG
GGGACCCCGTTCCCGGGTGAGTGTCCAGGCATGCCAGCGGAACGGCCCGCGGGCAGCGGCGGCTCGGAGGCTCCA
GCAATGGTTGAACAACCTGGACACTGCTGTGATTACCCCGGCCATGCTAGAAAGAGGAAGAACAGCTTGAAGCTGCT
GGACTAGAGAGAGAGCGGAAGATGCTGGAAGGCTCGCATGTCTTGGGATAGAGAGTGCACAGAAATTCGGTAC
CGTAGACTTCAACATTTGCTTGAAAAAGCAATATATACTCCAAATTTTTATTGACGAAAATGGAACAGCAACAA
TTAGAGGAACAGAAGAAGAAAGAAAAATTGGAGAGAAAAAAGGAGTCTTTAAAAGTTAAAAAGGTAAAAATTCA
ATTGATGCAAGTGAAGAGAAGCCAGTTATGAGGAAAAAAGAGGAAGAGAAGATGAATCATACAATATTTTCAGAG
GTCATGTCAAAAGAGGAAATTTTGTCTGTGGCTAAAAAAAATAAAAAGGAGAATGAGGATGAAAACCTCCTCCTCT
ACTAATCTCTGTGTGGAAGATCTTCAGAAAAATAAAGATTGCAATAGTATAATTAAGATAGATTGTCTGAAACG
GTTAGGCAGAATACTAAATTCCTTTTTTGACCCAGTCCGGAAGTGTAATGGTCAGCCAGTACCTTTTCAACAACCA
AAGCACTTCACTGGAGGAGTGATGCGATGGTACCAAGTAGAAGGCATGGAATGGCTTAGGATGCTTTGGGAAAAT
GGAATTAATGGCATTTTAGCAGATGAAATGGGATTGGGTAAGACAGTTTCAGTGCATTGCTACTATTGCATTGATG
ATTCAGAGAGGAGTACCAGGACCTTTTCTGTCTGTGGCCCTTTGTCTACACTTCCTAACTGGATGGCTGAATTC
AAAAGATTTACACCAGATATCCCTACAATGTTATATCATGGAACCCAGGAGGAACGTCAAAAATTGGTAAGAAAT
ATTTACAAACGGAAGGGACTTTGCAGATTCACTCTGTGGTAATCACGTCATTTGAAATAGCCATGAGAGACCGA
AATGCGTTACAGCATTGCTATTGGAAATACTTAATAGTAGATGAAGGACACAGGATTAAGAATATGAAGTGCCGT
CTAATCAGGGAGTTAAACGATTCAATGCTGATAACAACTTCTTTTGAAGTGGTACTCCCTTGCAAAACAATTTA
TCAGAACTTTGGTCATTGCTAAACTTTTTGTTGCCAGATGATTTGATGACTTGAAAAGCTTTGAGTCTTGGTTT
GACATCACTAGTCTTTCTGAAACTGCTGAAGATATTATTGCTAAAGAAAGAGAAACAGAATGTATTGCATATGCTG
CACCAGATTTTAACACCTTTCTTATTGAGAAGACTGAAGTCTGATGTTGCTCTTGAAGTTCCTCCTAAACGAGAA
GTAGTCGTTTATGCTCCACTTTTCAAGAAGCAGGAGATCTTTTATACAGCCATTGTGAACCGTACAATTGCAAC
ATGTTTGGATCCAGTGAGAAAGAAACAATTGAGTTAAGTCCTACTGGTCGACCAAAACGACGAACTAGAAAATCA
ATAAATTACAGCAAAATAGATGATTTCCCTAATGAATTGGAAGAACTGATCAGTCAAAATACAGCCAGAGGTGGAC
CGAGAAAGAGCTGTTGTGGAAGTGAATATCCCTGTAGAATCTGAAGTTAATCTGAAGCTGCAGAATATAATGATG
CTACTTCGTAAATGTTGTAATCATCCATATTTGATTGAATATCCTATAGACCTGTACACAAGAATTTAAGATC
GATGAAGAATTGGTAACAAATCTGGGAAGTCTTGATTTTGGATCGAATGCTGCCAGAACTAAAAAAGAGGT
CACAAGGTGCTGCTTTTTTCAAAATGACAAGCATGTTGGACATTTTGATGGATTACTGCCATCTCAGAGATTTT
AACTTCAGCAGGCTTGATGGGTCCATGTCTTACTCAGAGAGAGAAAAAACATGCACAGCTTCAACACGGATCCA
GAGGTGTTTATCTTCTTAGTGAGTACACGAGCTGGTGGCCTGGGCATTAATCTGACTGCAGCAGATACAGTTATC
ATTTATGATAGTGATTGGAACCCCGATCGGATCTTCAGGCCCAGGATAGATGTCATAGAATTGGTCAGACAAAG
CCAGTTGTTGTTTATCGCCTTGTTACAGCAAATACTATCGATCAGAAAATTGTGGAAAGAGCAGCTGCTAAAAGG
AACTGGAAAAGTTGATCATCCATAAAAAATCATTTCAAAGGTGGTCAGTCTGGATTAAATCTGTCTAAGAATTTT
TTAGATCCTAAGGAATTAATGGAATTATTAATACTAGAGATTATGAAAGGGAAATAAAAGGATCAAGAGAGAAG
GTCATTAGTGATAAAGATCTAGAGTTGTTGTTAGATCGAAGTGATCTTATTGATCAAATGAATGCTTCAGGACCA
ATTAAAGAGAAGATGGGGATATTCAAGATATTAGAAAATCTGAAGATTCCAGTCCTGAATGTTTGTGTTTAAAGT
GGAGCTCAAGAATAGCTTTTTAAAAGTTCTTATTTACATCTAGTGATTTCCCTGTATTGGGTTTGAAATACTGATT
GTCCACTTCACCTTTTTTATTATATCAGTTGACATGTAAGTACTAGTACCATGCGTACTTAAATAGATGGTAATTTTC
TGAGCCTTACCAAGAACAAAGAAAGTATCCATATTAAGTTTAGATTTTCAGTTAATTTTGGAGACTGAGTAGTATT
CTTGGATACAGGCTGATGTGTACTTAACCACTTCAGATTTATACAGTCTTCTGTGGGAAGTTTAGTAAATGTCT
TTTTCCCTCCTTTCTTCTAGTAATGCAGTTTCATGGGCTTTAGGTACTTCAGTTATGAAGTAGGCTTTTCATGGGG
AGAGATTGGGATTATGCTCTCTGTTGTTTAAAGAACTGTTTGATTTTAGAGTCTATTTCTATGAGATAGTTTACC
AAATAAATGTTTCCTTATAAG

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FIGURE 3017

GCCCGCGCCGCGCCGCTCTTTCTCCGACAGCTGCCGGGGGTGCCCTGCAAGCTGTTCCGCGCGTCCTGCCCCGTCT
GTCCCCGCGGGTTCGTGCCCCGCCACAGCCGCGCC**ATG**ACCACCCAGCAGATAGACCTCCAGGGCCCCGGGGCCGTG
GGGCTTCCGCCTCGTGGGCGGCAAGGACTTCGAGCAGCCTCTCGCCATTTCCCGGGTCACTCCTGGAAGCAAGGC
GGCTCTAGCTAATTTATGTATTGGAGATGTAATCACAGCCATTGATGGGGAAAATACTAGCAATATGACACACTT
GGAAGCTCAGAACAGAATCAAAGGCTGCACAGACAACCTTGACTCTCACTGTAGCCAGATCTGAACATAAAGTCTG
GTCTCCTCTGGTGACGGAGGAAGGGAAGCGTCATCCATACAAGATGAATTTAGCCTCTGAACCCCAGGAGGTCTCT
GCACATAGGAAGCGCCCAACAACCGAAGTGCCATGCCCTTTACCGCCTCGCCTGCCCTCCAGCACTACTGCCAGGGT
CATCACAAACCAGTACAACAACCCAGCTGGCCTCTACTCTTCTGAAAATATCTCCAACCTTCAACAATGCCCTGGA
GTCAAAGACTGCTGCCAGCGGGGTGGAGGCGAACAGCAGACCCTTAGACCATGCTCAGCCTCCAAGCAGCCTTGT
CATCGACAAAGAATCTGAAGTTTACAAGATGCTTCAGGAGAAACAGGAGTTGAATGAGCCCCCGAAACAGTCCAC
GTCTTTCTTGTTTTGTCAGGAAATCCTGGAGTCTGAAGAAAAAGGGGATCCCAACAAGCCCTCAGGATTGAGAAG
TGTTAAAGCTCCTGTCACTAAAGTGGCTGCGTCGATTGGAAATGCTCAGAAGTTGCCTATGTGTGACAAATGTGG
CACTGGGATTGTTGGTGTGTTTGTGAAGCTGCGGGACCGTCACCGCCACCCTGAGTGTTATGTGTGCACTGACTG
TGGCACCAACCTGAAACAGAAGGGCCATTTCTTTGTGGAGGATCAAATCTACTGTGAGAAGCATGCCCGGGAGCG
AGTCACACCACCTGAGGGTTATGAAGTGGTCACTGTGTTCCCCAAG**TGAG**CCAGCAGATCTGACCACTGTTCTCC
AGCAGGCCTCTGCTGCAGCTTTTTCTCTCAGTGTTCTGGCCCTCTCCTCTCTTGAAAGTTCTCTGCTTACTTTGG
TTTTCCCTCTGCTTGTAACAAATTGAGTCCCTCCCTGCCTTGTTAATTGACTCACACCAGCTGTGCGATGCC
GCTTTTACAATTAAAGGAAAACGTGTTTTGTTTCAGTGTACCTTGTCAGCAACACTGTGTCCCTTCGCCCCACCGT
TCTTCTCTGCTGCATTTGGACATCAGCCAAATTTGAACCCAATCAAATATAACGTGTCTGACACTGATTTTGTT
TTACTCAATAAATGTATAGACTACAAAAAAAAAAAAA

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FIGURE 3018

MTTQQIDLQGPGPWGFR LVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTS NMTHLEAQNRIGCTD
NLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEV LHIGSAHNRSAMPFTASPASSTTARVITNQYNNPAGL
YSSENISNFNNALESKTAASGVEANSRPLDHAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFLVLQEILES
EEKGDPNKP SGFRSVKAPVTKVAASIGNAQKLPMCDKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF
VEDQIYCEKHARERVTPPEGYEVVTVFPK

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FIGURE 3019

ATGGAAGATTGATGGACATGGACGCCGACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAG
TTATCCTTAAGAACGCCAACAGTTTCCCTTGGGGTCTTTGAAATAACACCACCAGTGCTTTTATGGTTGAAGTGT
GGTTCAGGGCCAGTGCATATTAGTGGACAGCATTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAG
GAGGAGGATGTGAAACTCTTAAGGATATCTGGAAAATTAAAAGGACAAGAATCCTTCAAAAAACAGGAAAAAACT
CGTAAAACACCAAAAGGGCCTAGTTCTGTAGAAGACATTAAATCAAAAATGCAAGCAAGTATAGAAAAAGGTGGT
TCTCTTCCCAAATGGAGGAAGTCTCTTTAG

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FIGURE 3020A

ATTCTGGCTGTGACTCAGTCACTGACACTGAGCCTGAGGACGAGAAGGTTGTTTCCTACTCGAAGCAGCAGAACC
TGCCGACGGTGACTTCACCTGGGAACCTGATGGTGGTGCAGCCGGACCGCATTTCGCTGTGGGGCAGAAACCACTG
TCTATGTTATTGTGAGATGTAAGCTGGATGACAGGGTGGCGACAGAAGCAGAGTTTTCTCCTGAGGATTCTCCCT
CTGTAAGGATGGAAGCCAAGGTGGAGAATGAGTACACCATTTTCAGTGAAGGCTCCCAACCTTTTCATCTGGGAACG
TTTCTCTGAAGATATATTCTGGAGACTTAGTGGTGTGTGAAACCGTTATCAGCTATTATACTGACATGGAAGAAA
TTGGGAATTTATTGTCCAATGCCGCGAATCCTGTGGAATTCATGTGTCAGGCCTTTAAAATTGTGCCCTACAACA
CAGAGACCCCTTGATAAACTGCTAACCGAATCCCTGAAGAACAATATCCCTGCAAGCGGACTGCACCTCTTTGGAA
TCAACCAGCTGGAAGAAGAAGATATGATGACAAATCAGAGGGATGAAGAGCTGCCACCCCTGTTGCATTTTGCTG
CGAAGTATGGACTGAAGAACCTCACTGCCTTGTTGCTCACCTGCCAGGAGCCCTGCAGGCGTACAGCGTGGCCA
ACAAGCATGGCCACTACCCCAACACCATCGCTGAGAAACACGGCTTCAGGGACCTGCGGCAGTTCATCGACGAGT
ATGTGGAACCGTGGACATGCTCAAGAGTCACATTAAAGAGGAACTGATGCACGGGGAGGAGGCTGATGCTGTGT
ACGAGTCCATGGCCACCTTTCCACAGACCTGCTTATGAAATGCTCGCTCAACCCCGGCTGTGACGAGGATCTCT
ATGAGTCCATGGCTGCCTTTGTCCCAGCTGCCACTGAAGACCTCTATGTTGAAATGCTTCAGGCCAGTACATCTA
ACCCAATCCCTGGAGATGGTTTTCTCTCGGGCCACTAAGGACTCTATGATCCGCAAGTTTTTAGAAGGCAACAGCA
TGGAATGACCAATCTGGAGAGAGATCAGTGCCATCTTGGTCAGGAAGAAGATGTTTATCACACGGTGGATGACG
ATGAGGCCTTTTCTGTGGACCTGGCCAGCAGGCCCCCTGTCCCAGTGCCCAGACCAGAGACCACTGCTCCTGGTG
CTCACCAGCTGCCTGACAACGAACCATAACATTTTTTAAAGTTTTTGCAGAAAAAGTCAAGAGCGGCCTGGGAATT
TCTACGTTTTCTCAGAGAGCATCAGGAAGGGCCGCCGTCAGACCATGGAGGGACAGGCCCCAGTCGAGTATAT
ATGACCCTTTTGCGGGAATGAAAACGCCAGGCCAGCGGCAGCTTATCACCTCCAGGAGCAGGTGAAGCTGGGCA
TTGTCAACGTGGATGAGGCTGTGCTCCACTTCAAAGAGTGGCAGCTCAACCAGAAGAAACGATCGGAGTCCTTTC
GTTTTCCAGCAGGAAAAATCTTAAACGGCTAAGAGACAGCATCACCCGAAGACAGAGAGAGAAGCAAAAATCAGGAA
AGCAGACAGACTTGAGATCACGGTCCCAATTTCGGCACTCACAGCACCTGCCTGCAAAAGTGGAGTTTGGAGTCT
ATGAGAGTGGCCCCAGGAAAAGTGTCAATCCCCCTAGGACGGAGCTGAGACGAGGAGACTGGAAAACAGACAGCA
CCTCCAGCACAGCAAGTAGCACAAAGTAACCGCTCCAGCACCCGGAGCCTCCTCAGTGTGAGCAGCGGGATGGAAG
GGGACAACGAGGATAATGAAGTCCCTGAGGTTACCAGAAGTCGCAGTCCAGGCCCCCACAAGTGGATGGGACAC
CCACCATGTCCCTCGAGAGACCCCCCAGGGTGCCTCCGAGAGCTGCCTCACAGAGGCCTCCGACCAGGGAGACCT
TCCATCCTCCTCCACCTGTTCCACCCAGAGGACGCTGATTCCACCTCCTAAAACCTGCCTACTTCAGGACTTTAA
GACTCACAGTCTTCAGCCTGTTAATGATGTCTTCATGTTGAGTTTTATAGCATGACTGTTGACCTTAAGATCCAT
TCTCATTGCTGATAATGCTGCAGCCCTGCTGGTTTTGGGCTTGCCCTCGAAGATTTTATTAAGGCACGAAGAAGTGA
AAAATAAGGGCTTCATTCACCATCACCAAGTATATCGAACCATATACTTGTTGCCAAAAGGATGAAGACTTAA
TCGAAATACTTACCTCTAATTTGCCATATCAGAAGCCTAAAAAGAATGATCATAAATGTACTTCACCAGTGATTT
TACTGAAATGCACCTTATATTAGTCTTTATGTATTTGCTAGTTTCAGCCTGATTTCTAGAAGAGGTTATAGTGTGAG
ACTTGTAGTATTCAAGTAAGATAAGTGACCTAATTTTAAAATAATTCTTCTACTTTTCTGTATATTTCAGCAGGGT
ATTTAAGTGCTAGGGCTGGTCACACACAACCAACTGAAAAAGACTAGAGGGATTAGTACAAACCTCTTTATACA
GAAGGCAAATCTGAGGTTCCACAGAAGTCTGGAACCAAGACTATTTCAGTTGGTTAAATAAAGAGGTTAGTCTAGA
CTGGGCTGCTCATTCTAGGTCACCACATTTTCCATCTCCAAATAGCCAGGCCCTCTCTCCCTCAAGAAATGCCC
AGATGTAGAAATTCATCAGTGCCTATTGGTCTTCCAGAATTTTCCATCTTCCGTATCTCCCAGGCATGAGACTAC
CAAGTTTGTGTTTCTTTTCCAATTTGGGAATTTATACTTCAGTATGGTTTCAACGCAGTTATGTTTCCAGAGA
ACATCTAGAAGTGGCTGGAACCAAGCTGGGGATTCCAGGGACCCCACTTAGTGCTCTATTTCTTTTATAGGT
TTTATTTCTGGTCATAGAGAGAGAAGGACCTTTGACTTTTTCTTCGTTGAGGCTTCTGAGGAGGAAAAACAAACC
TAAATAGAAATACAGTCAGCCTTTCAAATCCATGGGTTCTGTGTCCGTGGATTCAACCAACCTTGGATCAAAAA
TATTTGAAAAAATCTACAAAGTTTCAAAAAGCAAACTTGAATTTGCTGCATGCCAAGAAGTATGTTGAATTC
ATGTAATGAAGTGATGTGTAGGCATTGTATTAGATATTATAAGAAATCTAGAAATGATTTAAAGCATAACAGGAG
GATGTGCATAGGTTATATGCAAATACIATGCTATTTTATATATGGGACTTGAGCATTTGTGGATTTTGATACTGG
GGGATCCTGGAACCAATCCCCATGGATACCAAGTACGACTGTAGTTATCTATTTTTTACATACTTATTATTAC
CACCATGCTCAGTAAGTCCATTTTTGCATGGAATATGGAGCCTTAAACATGTCATGAATTTGGAGTCCCTGGCA
CATAAATCTACCTTCAAATCAGAGGTCCTTAATGATGCCTAAACATACAGTAAATTAGAATCAGAAATACTTCT
TAAAAAATATTCAAATGTGTTTGTTCCTATGGGATTATTCTCTATCCACACGAATGTAAAAAATCCACAT

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FIGURE 3020B

TAATGATCCATTTAAGTATAGTTTTATTGGGTCCTTTTCTAATGATTAAAGGTTCTTTCTCAATTTTCATTCCTCA
GTCCTGCAAGTAAGGACTCATACTGAAGAGTACTGAAACAAGGACTTCTTGTCAGAAACAGCTTCTGGAATCTTG
GGTTTTGTTTTGTTTTTTGACAAAATACACTATTGGCCATGTCCATCACGAGAGTGTTGTAGTAATTAATTAC
CTTGACAGGACCTGGCACTTAGTAGCATTCTTCAAATGTTCCCTCAGTGATCCTTTTACTCTCCTTGTCACCTTA
TTTGGGAGAAATAGGGGCACGTGAGATAAGAAGAAGAATAATTTTGATGTTGGTATGCTTGCCCTGTTACTTATA
GACAGTCTTTGTCATAGGCCAACTTGAATTTGATTTAAAATAGGGCTGGGAAAAATATTCAATAACTGTAAGCCC
CCTTTTGGATGCCAACTTAGAATTTTGTACATTCTCTGATGAACAAGCATTITAGATCGTAACATGGTAAAGCCT
ATTACCAGCCAATGTTGTTAGCATCTTTGTATGCACATCACTGTTTGTGCAATATATGAATATTTTGTTCATTG
TATTCTTATATAAAAATAAGTAGAAAACATAAAATTGAAATTGCTGATGAGAAGCCTTGTCTCGTGAATGTGATA
CACTTGAGACACGGATGGAAGTATCAGGAGTGCCAAGTCAAAGCAGCAGATCTTAAGCCCTCACTGGTTGTTC
CTTTAACATCCAAAATGGTTGGTTATATGTAAAAGAAGAAAATGAAATAATCTGGATGAAACACTGGGACTGTGT
TATCAAAGAATGTCTGTAGTGATGAGGTGAAAATTTTCATTTTCCAGAAACAGAACTGCTCATTTATAACATAAA
TATATTCAACTTCCACA

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FIGURE 3021

MVVQPDRIRCGAETTVYVIVRCKLDDRVATEAEFSPEDSPSVRMEAKVENEYTIISVKAPNLSSGNVSLKIYSGDL
VVCETVISYYTDMEEIGNLLSNAANPVEFMCQAFKIVPYNTETLDKLLTESLKNNIPASGLHLFGINQLEEDMM
TNQRDEELPTLLHFAAKYGLKNLTALLLTCPGALQAYSVANKHGHYPNTIAEKHGFRDLRQFIDEYVETVDMLKS
HIKEELMHGEEADAVYESMAHLSTDLLMKCSLNP GCDEDLYESMAAFVPAATEDLYVEMLQASTSNPIPGDGF SR
ATKDSMIRKFLEGNSMGMTNLERDQCHLGQEEDVYHTVDDDEAFSVDLASRPPVPVPRPETTAPGAHQLPDNEPY
IFKVFAEKSQERPGNFYVSSESIRKGPPVRPWRDRPQSSIYDPFAGMKTPGQRQLITLQEQVKLGIVNVDEAVLH
FKEWQLNQKKRSESRFQQENLKRLRDSITRRQREKQKSGKQTDLEITVPIRHSQHLPKVEFGVYESGPRKSVI
PPRTELRRGDWKTDSTSTASSTSNRSSTRSLLSVSSGMEGDNEDNEVPEVTRSRSPGPPQVDGTPMTSLERPPR
VPPRAASQRPPPTRETFHPPPPVPPRGR

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FIGURE 3022

CGAAGATGGCGGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCGCTGGCGGCCATCGTGG
CTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACA
GAAACAAGTTGAAGTACCTGGCTTTCTCCGCAAGCGGATGAACACCAACCCTTCCCGAGTCCCCCTACCACTTCC
GGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAGCGAGGCCAGGCCGCTC
TGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGGTTCCTGCTGCCC
TCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGT
ACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGC
TCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCC
ACGGACTCCTGGTCTGAGCCCAATAAAGACTGTTAATTCCTAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAA

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FIGURE 3023

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVCCEGINISGNFYRNKLNYLAFLRKRMTSPSRGPYHFRA
PSRVFWRTVRGMLPHKTKRGQAALDRLKVSDGIPPPYDKKKRMVVPAAALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 3024A

GGCACGAGGCACGTGGGTTCTGAGCGTGTCTTCTACGTCCCTGGAAGCCGGTCATTTAAGCTCATTCCTCGCCACG
GCTTAGTCAACATGGGTCGCTCGGGAAAGTTGCCCTCTGGTGTCTCAGCTAAGTTGAAGCGCTGGAAGAAAGGCC
ACAGCAGCGACAGCAACCCCGCCATCTGCCGCCACCGTCAGGCCGCCCGCAGCCGCTTCTTCAGCCGGCCGTCAG
GAAGGAGTGACCTGACAGTCGATGCTGTGAAGTTACATAATGAGCTGCAGTCAGGGTCCTTGCGCTTGGGCAAAA
GCGAAGCCCCCGGAGACGCCCATGGAAGAAGAGGCGGAGCTGGTTCTCACCGAGAAGTCCTCGGGTACCTTCCTGA
GTGGCCTTTCCGACTGCACAAACGTCACCTTCAGCAAAGTACAGCGCTTCTGGGAGTCCAACTCGGCTGCCACA
AGGAGATCTGTGCTGTTCTGGCTGCTGTCACTGAGGTGATTGCTCCCAGGGAGGGAAGGAGACGGAGACTGAGT
ACTTCGCTGCTCTGATGACAACAATGGAAGCAGTGGAGTCCCCGGAGTCCCTGGCCGCCGTTGCTTACCTGCTGA
ACCTTGCTCTGAAGCGTGTTCAGCCCTGTGCTTATTAAGAAGTTCTCTGATACCTCCAAAGCCTTCATGGATA
TCATGTCAGCTCAGGCCAGCAGCGGCTCCACCTCTGTCTCCGATGGGTCTTTCTGCTGCTGGCCACCCTTCTGC
GGAAGCAAGACCTGGAGGCCTGGGGCTACCCCGTGACCCTTCAGGTGTACCATGGGCTGCTGAGCTTCACGGTGC
ATCCCAAGCCCCAAGATCCGGAAGGCTGCCAGCATGGAGTATGCTCAGTCCTCAAGGGCAGTGAATTCATGTTTG
AAAAGGCCCTGCCATCATCCTGCTGCCATTTCCACTGCCAAGTTCTGCATCCAGGAGATTGAGAAGTCTGGAG
GCTCCAAGGAGGCCACCACCAGCTGCACATGCTGACGCTGCTGAAGGACCTGCTGCCCTGCTTCCCGGAAGGCC
TGGTGAAGAGCTGCAGTGAGACTCTCCTCAGGGTCATGACCTTGAGCCATGTGCTGGTGACAGCCTGTGCCATGC
AGGCCTTTCACAGCCTCTTCCAGCCAGGCCTGGCCTGAGCACCTGTGAGCAGAGCTCAACGCCCCAGATCATCA
CGGCCCTGTACGACTATGTTCCAGTGAGAATGATTTACAACCCCTGCTAGCCTGGCTTAAGGTCATGGAGAAAG
CCCACATCAACCTGGTGAGGTTGCAGTGGGACCTGGGGCTAGGCCACCTCCCTCGCTTTTTTGGAACTGCGGTGA
CCTGCCTCCTTTCCCCACACTCGCAAGTGCTGACTGCTGCTACGCAGAGCCTCAAGGAGATCCTGAAGGAATGCG
TGGCTCCCCACATGGCTGACATTGGCTCCGTGACCTCCTCGGCCTCAGGCCCTGCCAATCTGTTGCCAAGATGT
TCAGGGCAGTGGAGGAGGGCCTGACGTACAAATTCCATGCGGCCTGGAGCTCCGTGTTGCAGCTGCTGTGTCT
TCTTCGAGGCGTGTGGGAGACAGGCCACCCTGTGATGAGGAAGTGCTCCAGTCCCTGTGTGACCTGCGCCTCT
CCCCTCATTTCCCCCACAGCGCGCTCTTGACCAGGCAGTGGGGCTGCGGTGACCAGTATGGGACCTGAGGTGG
TGCTGCAGGCTGTGCCTTTGGAAATTGATGGCTCTGAGGAGACTCTGGATTTCCACGGAGCTGGCTGCTGCCTG
TCATCCGAGACCATGTTTCAGGAAACGCGACTTGCTTTTTTACCACCTACTTCTTGCCCTGGCTAACACCCTGA
AGAGCAAAGCCATGGACCTGGCTCAGGCAGGCAGCACAGTGGAAATCTAAGATCTACGACACACTCCAGTGGCAGA
TGTGGACACTCCTGCCTGGGTTCTGCACAAGGCCTACAGATGTGGCCATCTCCTTCAAAGGGCTGGCACGGACGC
TGGGCATGGCCATCAGCGAGCGTCCAGACCTGAGGGTCACCGTGTGCCAGGCCCTGCGCACCTCATCACCAAGG
GCTGCCAGGCAGAGGCTGACCGTGTGAAAGTGAGTCGCTTTGCCAAGAACTTTCTGCCGATCCTCTTCAACCTGT
ATGGGCAGCCGTGGCAGCCGGGGACACTCCAGCCCCCTCGCCGGGCTGTGCTGGAACCATCAGAACTTACCTCA
CCATCACTGACACTCAGTTGGTGAACAGTCTCCTGGAAAAAGCCAGTGAGAAGGTGCTCGACCCTGCCAGCTCTG
ACTTTACCAGATTGTCTGTCTGACCTGGTCTGCTGGCCTTGGCTCCGTGTGCTGACGAAGCTGCCATCAGTAAGC
TATACTCCACCATCCGGCCCTACCTAGAGAGCAAGGCCACGGGGTGCGAAGAAGGCCTACCGAGTGCTGGAGG
AGGTGTGTGCCAGTCTCAGGGCCCCGGGGCCCTCTTCGTGCAGAGCCACCTGGAGGACCTGAAGAAGACACTGC
TGGACTCGCTGCGGAGCACCTCCTCACCCGCCAAGAGGCCCGTTTGAAGTGCTCCTACACATCGTGAGGAAGC
TCTCAGCTGAACACAAGGAGTTCATCACTGCCCTCATCCAGAGGTGATCCTGTGCACCAAGGAGGTGTGCGTGG
GCGCACGGAAGAACGCTTTTGCACTGCTCGTGGAGATGGGCCATGCTTTTCTAAGGTTTGGCTCGAACCAGGAAG
AGGCCCTGCAGTGCTACCTCGTCTGATCTACCCTGGCCTGGTGGGCGCGGTGACCATGGTCAGCTGCAGCATCC
TGGCCCTGACCCACCTCCTTTTCGAGTTTAAAGGTCTGATGGGGACCAGTACAGTGGAGCAGCTGCTGGAGAATG
TGTGCTGCTTCTGGCCTCCCGCACCCGTGACGTGGTCAAGTCTGCACTGGGCTTCATCAAGGTGGCAGTGA
TCATGGACGTGGCGCACCTGGCCAAACATGTGCAGCTGGTGATGGAAGCCATTGGGAAGCTTTCAGATGACATGC
GGCGGCACTTCCGCATGAAGCTTCGGAACCTGTTTACCAAGTTCATCCGCAAGTTTGGATTTGAGCTGGTGAAAA
GGCTGTTGCCCGAGGAGTACCACAGAGTCTGGTCAACATCCGGAAGCTGAGGCCCGGGCCAAGAGGCACCGAG
CCCTGAGCCAGGCTGCCGTGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGCCCGCCAGGGCAAAGGTGACA
GCATTGAGGAGATTTTAGCTGACTCAGAGGACGAGGAGGACAATGAGGAGGAGGAAGAAGCCGAGGCAAGGAGC
AGCGGAAGCTGGCACGACAGAGGAGCCGGGCATGGCTGAAAGAGGGCGGTGGGGACGAGCCCTCAACTTCTTGG
ATCCCAAGGTGGCCCAACGAGTCTGGCCACGCAGCCAGGGCCAGGCCGGGGCAGGAAGAAGGACCACAGCTTCA
AGGTGAGCGCCGATGGCCGGCTGATCATAAGGGAGGAGGCAGACGGCAACAAGATGGAGGAAGAGGAAGGTGCCA

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FIGURE 3024B

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC
CTGTGGCCAAGAAGGCTATGCCTGGGGCTGAATACAAGGCCAAGAAAGCAAAGGTGATGTGAAGAAGAAAGGCC
GGCCGGATCCCTATGCCTACATCCCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC
AGTTCAAAGGCCTGGTGAAGGCTGCCCCGGCGAGGTTCCCAGGTGGGACACAAAAACCGCAGAAAGGATCGTCGAC
CC**TGA**GGCCCAGGGCCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTTCAGCCCCCAGGCTGCCTTGCCACC
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTAGGGCTTGGCTCTCAGAAGTC
CTGGATTTTGGAAGCTCAAATGGAATCACCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCCTCA
GTGCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT
CCATTTCCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTTACTGTGACCAGATGTA
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3025

MGRSGKLP SGVS AKLKR WKKGHSSDSNPAICRHRQAARSRFFSRPSGRSDLTVD AVKLHNELQSGSLRLGKSEAP
ETPMEEEEAE LVLT EKSSGTFLSGLSDCTNVTF SKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETET EYFAA
LMTTMEAVESPE SLAAVAYLLNLVLKRVPSPVLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD
LEAWGYPVTLQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE
ATTTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARPGLSTLSAELNAQIITALY
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAAATQSLKEILKECVAPH
MADIGSVTSSASGPAQSVAKMFR AVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHPV MRKCLQSLCDLRLSPHF
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKS KA
MDLAQAGSTVESKIYDTLQWQMWTL LPGAFCRPTDVAISFKGLARTLGMAISERPDLRVTVCQALRTLITKGCQA
EADRAEVS RF AKNFLPILFNLYGQPVAAGDTPAPRRAVLETIRTYLTITDTQLVNSLLEKASEKVLDPASSDFTR
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEV CASPQGP GALFVQSHLEDLKKTL DLSL
RSTSSPAKRPR LKCLLHIVRKLSAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAF LRF GSNQEEALQ
CYLVLIYPGLVGAVTMVSCSILAL THLLFEFKGLMGTSTVEQ LLENVCLLLASRT RDVVKSALGF IKVAVTVMDV
AHLAKHVQLVME AIGKLSDDMR RHFRMKLRNLFTKFI RKFGFELVKRLLPEEYHRVLVNI RKA EARA KRRH RALSQ
AAVEEEEEEEEEEP AQGKGDSIEEILADSEDEEDNEEEERSRGKEQRKLARQSRRAWLKEGGGDEPLNFLDPKV
AQRVLATQPGPGRGRKKDHSFKVSADGRLI IREEADGNKMEEEEGAKGEDEEMADPMEDVI IRNKKHQKLKHQKE
AEEEELEIPPQYQAGGSGIHRPVAKKAMP GA EYKAKKAKGDVKKKGRPD PYAYIPLNRSKLNRRKKMKLQGGFKG
LVKAARRGSQVGHKNRRKDRRP

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FIGURE 3026

AAAGATTGCGCGGAGAACTTGC GCGGGAGCCGGACTGAGCGGTGCGAGCGCGCAGGCGCGGCCGACGGGGCGGGC
TGCTACTCCGGAATCTGCTAATCCCAGTCGGTGCCGCATCCCCAGCCCGCCGCGCCATGGCCGCCTACAACTGGTG
CTGATCCGGCACGGCGAGAGCGCATGGAACCTGGAGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCG
GCGGGCCACGAGGAGGCGAAGCGCGGCGGGCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACC
TCAGTGCAGAAGAGAGCGATCCGGACCCCTCTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTG
AGGACTTGGCGCCTCAATGAGCGGCACTATGGGGGTCTAACC GGCTCTCAATAAAGCAGAACTGCTGCAAAGCAT
GGTGAGGCCCAGGTGAAGATCTGGAGGCGCTCCTATGATGTCCCACCACCTCCGATGGAGCCCGACCATCCTTTTC
TACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCACAGAAGATCAGCTACCCTCCTGTGAGAGTCTGAAG
GATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAAACGTGTACTG
ATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAG
CTGAACCTGCCGACTGGTATTCCCATTTGTCTATGAATTGGACAAGA ACTTGAAGCCTATCAAGCCCATGCAGTTT
CTGGGGGATGAAGAGACGGTGCGCAAAGCCATGGAAGCTGTGGCTGCCAGGGCAAGGCCAAGAAGTGAAGGCCG
GCGGGGAGGATACTGTCCCCAGGAGCACCCCTCCCTGCCCGTCTTGTCCCTCTGCCCCCTCCACCTGCACATGTCA
CACTGACCACATCTGTAGACATCTTGAGTTGTAGCTGCAGACGGGGACCAGTGGCTCCCATTTTCATTTTAGCCA
TTTTGTGCGCTGCACCCACTCCCTTCATACAATCTAGTCAGAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAA
GCTATGGAAAAGCTCCCCTTATCCAACAGAGTTTAAAAGTAGTGACTTGGGTTTTTGCGAGTGCTTTGTTTACTA
AGGACTTTGGGGAGGAACCATGCTAAGCCATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCG
GAGTCTGTCTCTGTCTTCTGCAGTCAGGTCACTGCCTACTGCCTGGGGGCTCTAGTCATTCCAGTGGAAGACG
AATGTAACCTGCGTGGTGATGTGACAACTGTTTCCCTCCCTGACCCAGAGGATCTGGCTCTAGGTTGGGATCAAT
CCTGAATTTGTTATGTGTTAATTTACTTTTATTAATAAAGTATAGTATATATAATAACAAACAATAACCCTTCT
GGGGTTTTCTGTGGCGGTTGAAATAGTCCCATGTGGTCATCAGAAAATAAGCCATTCTCATACCAATATAGG
ATCAGCTCCTTGACCTCTGAGGGGCAGGAGTGCTTCCCTGGTGTGTGTATTAGAATCCCTTCCCTGCCTTGTTTCAT
GGCAGTGAATGCCTCTTGCTCCTGTCCAAGTGTATCTTTCAGTATTTCTGAATCATGTTCTAGTTGCTTGACC
CTGCCACATGGGTCCAGTGTTTCATCTGAGCATAACTGTACTAAATCCTTTTTTCCATATCAGTATAATAAAGGAGT
GATGTGCAAT

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FIGURE 3027

MAAYKLVLRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTVLDAID
QMWLPVVRTWRLNERHYGGLTGLNKAETAAKHGEAQVKIWRRSYDVPPPPMEPDHFPYSNISKDRRYADLTEDQL
PSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNLPTGIPIVYELDKNLK
PIKPMQFLGDEETVRKAMEAVAAQGKAKK

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FIGURE 3028

GGTTGAGGATGGGCTGGCGGCGGGTCCGGGTCCGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGGTTTGGATT
GAGCCGGGCCCCGGCCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTG
GCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCCGCCTCT
GCCTCCGCCTCCTTCTGCTGCTGGGTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGC
GCTACGGCAAGGTCTGCCTGCGCTCCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCT
TTGAGCCTGTCTACTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTTCGTGGTCCTGGTGATCGTG
TGACAGGCTCCATTGTAGCTATCGCCTACCTGTGTGTCTGCTCTCATCTCCGAACCTACTCAGTGCCACGAC
TCTGCTGGCATTCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTC
CGCCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCCCAAGC
CAGCCCGAACACACCCTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCCTGGCTAAACA
ATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTTCATGACTCTGGGCTGTGTCTACTGCA
GCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAACAGCTCGACAAGAACAAAC
TACAGGCGGTTGCCAACCAGACTTATCACCAGACCCACCCACCCACCTTCTCCTTTGAGAAAGGATGACTCACA
AGAGTCTTGTCTACCTCTGGTTCCCTGTGCAGTTCTGTGGCACTTGCCCTGGGTGCCCTAACTGTATGGCATGCTG
TTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGG
GCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGGACAACCTGGAAGGTATTCTGGGTGTGGATACAGGAA
GGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGCCCCATGGGAATGGAATGAGCTGGGAGCCCCCTC
CCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAGCTGGACTGTGTGAGCCACGACTCGAGCACTCAT
TCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTTTCTCAGAATCCTTGATCAAAAAGAGCCAGTGGG
CCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCTTTTTACCACTGCAGAAGAAAGACACAATGTGGA
GAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAGTTCCAACCCAGACTAGGGGTGAGGCAGCTAGC
TACCTACCTTGCCAGTGCTGACCCGGACCTCCTCCAGGATACAGCACTGGAGTTGGCCACCACCTCTTCTACTT
GCTGTCTGAAAAAACACCTGACTAGTACAGCTGAGATCTTGGCTTCTCAACAGGGCAAAGATAACCAGGCCTGCTG
CTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCACAAATAAAGGTATTTCGATTTTTTAAAGAT

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FIGURE 3029

TCGCGTTATGCGCCGCTGCCGCGGCTGTGGAGGCGGCGGCCTATGGGTGCCCTATGGGGCCTCGTGCACGACTT
CGTCGTGGGTGAGCAAGAGGGCCCCGCTGACCAGGTGGCTGCAGATGTGAAATCTGGCAACTATACAGTGTTACA
AGTTGTGGAAGCCCTTGGGTCTCTCTAGAGAATCCAGAACCCCGAACTCGGGCAGCAGGAATCCAGCTTTTGTG
ACAGGTGCTACTCCACTGTACACCTTGCTCCTGGAGAAGGAAGTGGTACACCTGATACTGTTCTATGAGAACCG
GCTGAAGGACCATCATCTTGTGATCCCATCTGTCTGCAGGGTTTGAAGGCACCTTAGCCTGTGTGTGGCCCTGCC
CCCAGGGCTGGCTGTTTCTGTGCTTAAAGCCATCTTCCAGGAAGTGCATGTACAGTCCCTGCCACAGGTGGACCG
ACACACAGTCTACAATATCATCACCAATTTTATGCGAACCCGGGAAGAAGAGCTAAAGAGCCTAGGAGCTGACTT
CACCTTTGGCTTCATCCAGGTGATGGATGGGGAAAAGGATCCCCGTAATCTTCTGGTGGCCTTCCGCATCGTCCA
TGACCTCATCTCCAGGGACTATAGCCTGGGACCCCTTGTGGAGGAGTTGTTTGAAGTGACATCCTGTTATTTCCC
TATCGATTTTACCCCTCCACCTAATGATCCCCATGGTATCCAGAGAGAAGACCTCATCCTGAGTCTTCGCGCTGT
GCTGGCTTCTACACCACGATTTGCTGAGTTTCTGTGCTGCCCTGTTGATTGAGAAAGTGGATTCTGAGGTTCTGAG
TGCCAAGTTGGATTCTCTACAGACTCTGAATGCTTGCTGTGCTGTGTATGGACAGAAGGAAGTGAAGGACTTCCT
CCCCAGCCTTTGGGCTTCTATCCGCAGAGAGGTGTTCCAGACGGCAAGTGAGCGGGTGGAGGCAGAGGGCCTGGC
GGCCCTCCACTCCCTGACTGCGTGTTTGTCTCGCTCTGTGCTGAGGGCTGATGCTGAGGACCTCCTTGACTCCTT
CCTTAGCAACATTCTACAGGACTGCAGGCACCACTGTGTGAACCGGACATGAAACTGGTGTGGCCTAGTGCAAG
CTGTTGCAGGCAGCTGCAGGTGCATCTGCCCCGGGCTGTGACTCTGTCAACAGCAATGTACTGCCTTTACTGCTG
GAACAGTTCCACAAGCACAGTCAGAGCAGCCAGCGGCGGGACAATCCTTGAAATGCTCCTGGGTTTCTTGAAGCT
GCAGCAGAAATGGAGCTATGAAGACAAAGATCAAAGGCCTCTGAATGGCTTCAAGGACCAGCTGTGCTCACTGGT
ATTCATGGCTCTAACAGACCCAGCACCCAGCTTCAGCTTGTGGCATCCGTACACTGACAGTCTTGGGTGCCCA
GCCAGATCTCCTATCTTATGAGGACTTGGAGCTGGCAGTGGGTACCTGTACAGACTGAGCTTCCTGAAGGAGGA
TTCAGAGTTGCAGGGTGGCAGCACTGGAAGCATCAGGAACCTGGCTGCTCTCTACCCGTGGCCTTCAGCAG
CCACCTCGTACCCAAGCTCGCTGAGGAGCTGCGTGTAGGGGAGTCAAATTTGACTAACGGAGATGAGCCACCCA
ATGCTCCCGCATCTGTGCTGTCTGCAAGCCTGTGCTGATCAACACATCCAGCATCGTCAAGGAGACACT
GCCTCTGCTGCTGCAGCATCTCTGGCAAGTGAACAGAGGGAATATGGTTGCACAATCCAGTGACGTTATTGCTGT
CTGTCAGAGCCTCAGACAGATGGCAGAAAAATGTCAGCAGGACCCTGAGAGTTGCTGGTATTTCACCAGACAGC
TATACCTTGCTGCTTGCCCTTGCTGCTGTCAGGCCTCTATGCCAGAGAAGGAGCCCTCAGTTCTGAGAAAAGTACT
ATTGGAGGATGAGGTGTTGGCTGCCATGGTGTCTGTCTATTGGCACTGCTACAACCCACCTGAGCCCTGAGTTAGC
TGCCAGAGTGTGACACACATTGTGCCCTCTTCTTGGATGGCAACGTGTCTTTCTGCTGAAAACAGCTTCCC
GAGCAGATTCCAGCCATTCCAGGATGGCTCCTCAGGGCAGAGGCGGCTGATTGCACTGCTTATGGCCTTTGTCTG
CTCCCTGCTCGAAATGTGGAAATCCCTCAGCTGAACCAACTCATGCGGGAGCTTTTGGAACTGAGCTGCTGCCA
CAGCTGCCCTTTTCTTCCACCGCTGCTGCCAAGTGTCTTGCAGGACTCCTCAACAAGCACCCCTGCAGGGCAGCA
GCTGGATGAATTCTTCTCTGGGTAACAAAGGCCCTAGTGCTCAGATACCATCCTCTCAGCTCCTGCCTTACAGCCG
GCTCATGGGCCTCCTGAGTGACCCAGAAATTAGGTCCAGCAGCAGCTGATGGCTTCTCTCTGCTCATGTCTGACTG
CACTGATGTGCTGACTCGTGCTGGCCATGCTGAAGTGCGGATCATGTTCCGCCAGCGGTTCTTACAGATAATGT
GCCTGCTTTGGTCCAGGGCTTCCATGCTGCTCCCCAAGATGTGAAGCCAAACTACTTGAAGGGTCTTTCTCATGT
ACTTAACAGGCTGCCCAAGCCTGTACTCTTGCCAGAGCTGCCACGCTTCTTTTCTTCTGCTGCTGGAGGCCCTGTC
CTGCCCTGACTGTGTGGTGCAGCTCTCCACCCTCAGCTGCCTTCAGCCTCTTCTACTGGAAGCACCCCAAGTCAT
GAGTCTTACAGTGGACACCCCTCGTCACCAAGTTTCTGAACCTCAGCTCTAGCCCTTCCATGGCTGTCCGGATCGC
CGCACTGCAGTGCATGCATGCTCTCACTCGCCTGCCACCCCTGTGCTGCTGCCGTACAAACCACAGGTGATTG
GGCCTTAGCCAAACCCCTGGATGACAAGAAGAGACTGGTGCAGCAAGGAAGCAGTGTGAGCCAGAGGGGAGTGGTT
TCTGTTGGGGAGCCCTGGCAGCTGAGCCCTCAGTCTGGCCTAGACTGTTCTGACAATCTAACCTGGGATTACTA
ACTGTTGAGCCATCTTCCCCAAAGCAGGGAAACCACTGGTCTCTGACTGCCTTTCCACAGACACAGCACAAATG
CTAGGCCTCTGTTGCATGGCTGTACAAAGAACATAAGAGTCCATATTTCTAGTGGAATTTGTAATAAGTGTGTG
TGAGACACTTGCGTTTGAAGAAAGATCTAGGGTCTGGGTCTCTTGCAATTTATATGTCAGAAAAGGGGCGATATG
CTGCTGAGGGGTGAGTGCATATGAGTGTGGCCCTGAGGACCAGGGCTGGCAGATGTTGTCTACCTGCTGAG

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FIGURE 3030

MAAAAAVEAAAPMGALWGLVHDFVVGQQEGPADQVAADVKSNGYTVLQVVEALGSSLENPEPRTRARGIQLLSQV
LLHCHTLLLEKEVVHLILFYENRLKDHHLVIPSVLQGLKALSLCVALPPGLAVSVLKAIQEVHVQSLPQVDRHT
VYNIITNFMRTREEELKSLGADFTFGFIQVMDGEKDPRNLLVAFRIVHDLISRDISLGFVEELFEVTSCYFPID
FTPPPNDPHGIQREDLILSLRAVLASTPRFAEFLPLLLIEKVDSEVLSAKLDSLQTLNACCAVYGQKELKDFLPS
LWASIRREVFQTASERVEAEGLAALHSLTACLSRSVLRADAEDLLDSFLSNILQDCRHHLCPEPDMKLVWPSASCC
RQLQVHLPGPVTLSPAMYCLYCWNSSSTSTVRAASGGTILEMLLGFLKLQKQKSYEDKDQRPNGFKDQLCSLVFM
ALTDPSTQLQLVGIRTLTLVLGAQPDLLSYEDLELAVGHLYRLSFLKEDSQSCRVAALEASGTLAALYPVAFSSHL
VPKLAEEELRVGESNLNGDEPTQCSRHLCCQLALS AVSTHPSIVKETLPLLLQHLWQVNRGNMVAQSSDVIACQ
SLRQMAEKCQDPESCWYFHQTAIPCLLALAVQASMPEKEPSVLRKVLEDEVLAAMVSVIGTATTHLSPELAAQ
SVTHIVPLFLDGNVSFLPENSFPSPRFQPFQDGSSGQRRLLALLMAFVCSLPRNVEIPQLNQLMRELLELSCCHSC
PFSSTAAAKCFAGLLNKHPAGQQLDEFLQLAVDKVEAGLGSGPCRSQAFTLLLVWTKALVLRYPHPLSSCLTARLM
GLLSDPELGPAADGFSLMSDCTDVLTRAGHAEVRIMFRQRFFTDNVPALVQGFHAAPQDVKPNYLKGLSHVLN
RLPKPVLLPELPTLLSLLLEALSCPDCVVQLSTLSCLQPLLEAPQVMSLHVDITLVTKFLNLSSSPSMAVRIAAL
QCMHALTRLPTPVLLPYKQVIRALAKPLDDKKRLVRKEAVSARGEWFLLGSPGS

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FIGURE 3031

CGCTGCTTAGGCTCCGCGGCCTCCAAGCTGTAGCTATGACGGCGCGCGGGACTCCGAGCCGCTTCTTGCCAGCG
TTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCT
CGTCTCGCGGCGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACTTCGCCCCGACGGAATCCAGGGGTCGTAATAT
ATGTAAACTCGCGTCCGTGCTGCGTGCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCA
TCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGGCTTGGACGTGATCC
GCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGACCCCTTCACCAACAAGCCGACCAC
GTTCCGCGGGCTACGCCCCGAGAGGTTCAAGGATCCTGCCCCAGCCCAGGTGCAAGCACAGTGAAGAGTTGCCCC
ACCAACTGCAGCCCCAGGCTTTGGACTGTTACTCCGGTAAAGGTGGTTCTTCCCCTTTGGGATTCCAAGCCCAGG
CAAATGGAACCCATCAATGGGCAAGTTGACAGAGGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCAG
TGCCTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTTTTATGCAAGTGGCATCCCTAAAACCTGAGATGAG
GAAGACTTCAAGGGTTTTACAGGGCCCTTGTTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAG
AGGTCTGAAGGCTGGCTTCTGAAGAATCCCTGATGTCTTATTGGAACAACCACTGAGCTACGGAGAGCTCTGCTG
TGATGGGCTAGGCACTTTATATCTGTGTGAATACAGATTTATAAAACAGGTTAATAAACTTATCCAAGGTCA

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FIGURE 3032

MTARGTPSRFLASVLHNGLGRYVQQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPCCVPRV
VAEYLNQAVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWTPSPTSRPRSAGYAPERFRI
LPQPRCKHSEELPHQLQPQALDCYSGKGGSSPLGFQAQANGTHQWAS

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FIGURE 3033

CTGATCAGGAGGAGGTTTCAGCTGGCTGATACAATGTTTGGCCTTACCAAGGTTACAGATGACACACTCAAGCGTT
TCAGTGTGCGATATCTGCGACCTGCTCGCAGTCTTGTCTTCCCTTGGTTCTCCCCCTGGGGGTTTCAGGATTACGAG
GCCTGAAGCTCCTAGAGGCTAAATGCCAGGGGGATGGAGTGAGCTACGAGGAAACCACTATTCCCCGACCCAGCG
CCTACCACAATCTGTTTGGATTACCACTGATTAGTTCGTCGAGATGCTGAGGTGGTACTGACGAGTCGTGAGCTTG
ACAGCCTGGCCTTGAACCACTGACCGGGCTGCCTACCCTTACTCTACCCCGAGGAACGACCTGCTTACCCCTG
CCTTACTCCCTTACCTGGAACAGTTCCGGCGGATTGTATTCTGGTTGGGGGATGACCTTCGGTCCTGGGAAGCCG
CCAAGTTGTTTGCACGAAAACCTGAACCCCAAACGATGCTTCTTGGTGCAGACCAGGAGACCAGCAACCCCGTCCCC
TGGAGGCCCTGAACGGAGGCTTCAATCTTCTCGTATTCTTTCGTACCGCCCTGCCTGCCTGGCACAAGTCCATCG
TATCTTTCGGCAGCTTCGGGAGGAGGTGCTAGGAGAACTGTCGAATGTGGAGCAAGCAGCTGGCCTCCGCTGGA
GCCGCTTTCAGACCTCAATCGTATCTTGAAGGGACATCGAAAGGGCGAGCTGACGGTCTTCACAGGGCCAACAG
GCAGTGGAAAGACGACATTCATCAGTGAGTATGCCCTGGATTTGTGTTCCAGGGGGTGAACACACTGTGGGGTA
GCTTCGAGATCAGCAATGTGAGACTAGCCCGGGTCATGCTGACACAGTTTGCCGAGGGGCGGCTGGAAGATCAAC
TGGACAAATATGATCACTGGGCTGACCGCTTTGAGGACCTGCCCTCTATTTTCATGACTTTCCATGGACAGCAAA
GCATCAGGACTGTAATAGATACAATGCAACATGCAGTCTACGTCTATGACATTTGTCAATGATCATCGACAACC
TGCAGTTCATGATGGGTACGAGCAGCTGTCCACAGACAGGATCGCAGCTCAAGACTACATCATCGGGGTCTTTC
GGAAGTTTGCAACAGACAATAACTGCCATGTGACACTGGTCATTACCCCCGAAAAGAGGATGATGACAAGGAAC
TGCAGACAGCGTCCATTTTTGGCTCAGCCAAAGCAAGCCAGGAAGCAGACAATGTTCTGATCCTGCAGGACAGGA
AGCTGGTAACCGGGCCAGGGAAAACGGTATCTGCAGGTGTCCAAGAACCCTTTGATGGAGATGTAGGTGTCTTCC
CGCTTGAGTTCAACAAGAACTCCCTCACCTTCTCCATTCCACCAAAGAACAAGGCCCGGCTCAAGAAGATCAAGG
ATGACACTGGACCAGTGGCCAAAAAGCCCTCTTCTGGCAAAAAGGGGGCTACGACACAGAAGCTCTGAGATTTGCT
CAGGCCAGGCCCCCACTCCCGACCAGCCAGACACCTCCAAGCGTTCAAAGTGAAGGCCGTCAGAGCTGGTCACT
GAAATGAGCCTGATAGGATAGGCTGGAGCATAAACTCTGCAAGGGCTCCTCTATCCTGTGGTCCTGAGCTGTGT
GCCCTTCTCAGTCTGAGGGGCCTAACCTAGAGCAGGTTTCCATAGTGAGAAAATTCAATGTAGCAGACTACTGAG
AACTACTGTGTTGCTCAGGCTTTGTTTGGGTCCTGTATATACAGCACTGAAAAGAGAGATAAAGTCCCTGCCT
GCATGCATTCTGGCGGAAGAGACAAGCAAGCAATGAACAAATTAGCAGAAAACCTAGTTTTAGTGAAAAATGCTG
TAAAGAAAATAGAAATGCGATAGAGTGCTGGCAGGCTAGTGTAGATAAGTGGTCTGAAAAGGTGTCTCTGAGCCG
AGGGCATGTGAGCTGGGGCCTAAACAACCTAGAAGGAGAGAGCCACGTGAACATCCGGCGAAGGGGACCCAGGCAG
AGAGAAAAGGAAATCCAAGCCCTGAGGTAGGAATGAGCAGGTCAGATTCAAGGCAGTGAGGTCAGGCCGCATGAA
CCTGGAGGGGAATCGGGGACTTCATGCGAAACTCCAGCCTAGGCTTTCAAAGTCAAAGGGTGATACAGTGGGTAC
CAAGCTCCTCTGCTCCCCACTTTGTAGAGCCTAGCATGAGGTGGCATGTACTAGAATTGGATCCTAGGTGCTTAG
CCCTGCAATATCAGGGCCTCACTGGTGGGAGCTGCCTCGGGCTGGGTGCTTGGTCATAGAGCCATAGAAGGAAG
CTGTCAGCCCGAGTGCCTGCCACCTAGACACTGATGCCATTGTGTGCTGCCTCAAGACTGCTGGAGTCAGGACA
TTTTATAGAGCCTTTTCCAGTTTTACTAAAAAATTTTTCCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3034

MFGLTKVTDDTLKRFSVRYLRPARSLVFPWFSPGGSGLRGLKLEAKCQGDGVSYEETTIPRPSAYHNLFGGLPI
SRRDAEVVLTSRELDLALNQSTGLPTLTLPRTTCLPPALLPYLEQFRRIVFWLGDDLRSWEAAKLFARKLNPK
RCFLVRPGDQQPRPLEALNGGFNLSRILRTALPAWHKSIVSFRQLREEVLGELSNVEQAAGLRWSRFPDLNRILK
GHRKGELTVFTGPTGSGKTTFISEYALDLCQGVNTLWGSFEISNVRLARVMLTQFAEGRLEDQLDKYDHWADRF
EDLPLYFMTFHGQQSIRTVIDTMQHAVYVYDICHVIDNLQFMMGHEQLSTDRIAAQDYIIGVFRKFATDNNCHV
TLVIHPRKEDDDKELQTASIFGSAKASQEADNVLILQDRKLVTPGPKRYLQVSKNRFDDGVGVFPLEFNKNSLTF
SIPPKNKARLKKIKDDTGPAKKPSSGKKGATTQNSEICSGQAPTPDQPDTSKRSK

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FIGURE 3035A

CGGGCCGCCCGCCGCGCCGTGGCCCTTTGTGCTGGAACAATGACCAGCTGCCGCTGGCCCCGGGGCCCCGGCTGGG
GTTGAGGGTGACCACCGCCGCCGCGCTCGAGCCGAACCGAGCCCCAGACACGCAGTCACAGGGCGTCGGAGG
GAGGGCTCCCGACTGCCGCCGAGCAGCCCCCTACGTGCGCCCCGGCGGATTTCGCGTGACGCGGGTGCTTGCGCGTG
TCCGCGCCCCGGGGCGGAGACGCCCCCTCGGACCCTCCCCTGCGCGGTGCCGCCACTCGCACCAGGGCGGGGGCTG
GCCAGGGCCGGGGCGCCGCGGAGGCGGAGGCGGGCTGGGCCGGGCAGCTCCGAGTGCGCGCGCGGGGCCAGG
GCCGGGGCCGGGGCCGGGGCCGGAGCCGGAGCCGGGGCCGGGGCGGCGCCTGTGGAGCGCTGGGGCGGGCCTGG
GGCTGAGCATGGAGCAGCGCGCGGAGGTGAGGGGGGCCGGGTCTGGGAGGCGGCCTGGGGAGCCCCAACTTAT
GCGCGGTGGAATCCAGCCGGGGGGACGGCGTTCCCCAGTCGCCCCCACTTTCTGGAAGGGGGCTGGACTCTGGA
GAATGGGTCAGGGGCTCCTGGCTTCCCGCCGAGAATGGGAACCTCGTGATCGCAGACTTGACCCCGCTTGACTGG
TCCTTGAGATTTGGGTGGGAGGGAGACTTTCCCCAACTCTTCAGATCCGTCTCCGGCCCTGAACCAGCTCCAGCC
CTCTGCTCTCCTCAGCCCACTAAAAGGGGGGTGCTCCTGGGCCAGAGTGATTGCTCAGGGAGTGCTGGGGAGAAT
GAGGGGTTCCCATCTCCACAGCCACAAACGCATTTCTCAAAATGGAGCCTCCACTTGCCCCCTCCTTCTCTTTTCG
GGCTCCAAGAGCGGGAGCCGGCCTGGCTGGGCCTGGCTTTCCAGACTCCTGGCTCTGGCTCCCTGGATGTGTGGC
TCTCAGGGCCCGGCTCTGTGGCACTTTGGACTTATGGGCCCTCGGCTCCGTGGGGTTGGGGGGCCCTGGCTCACT
GGGTCCCGCTGGCTGTCCCCTTGTGCGCCTGACCCCTCGGGCCTCTCCGAGTCTTTGTCTCTTTTGGGTCCCTGTC
TTTCTCTGAGCCTGTCTCCTTCTTCAATTTTCACTTTCTCCGTGCTCGCTGAAGTGGGGAAATGCAACAGAGGT
GCCAGCCCCCTTGCCCCCTAAGAAGTCCCTTCCCCACTGTTCACTCCACACCCTGGAGTGGGCCAGAGAGGGG
AGGGGAGGGGGTTCTCTATCTGCTCTGCTGGGGCTGGGGTGTGTGGGGTGGTCTGAGCCCCAGCCCTACAGAGG
GGCCTGTGGTCACTCCCTGCTCCTGGCCTACCCCTCCCCAGCTCCCCGCAGCTCCTGCCCCAGCGTGGACACCT
CTTCTGGTTTCGAGTGTCTTTTGACTTGGGTGGGAAGGAGGGCGGTGGATTTAATGGAGGGCATGCGAGAAAGA
AGGGGAACAGATCAGGCAAAGGAGTTAGATAATGTCCACCTCTCCCCACACGCCGAAGAGAGAAGGAAACAGGC
TCCCCCACCAATGGGCCCTCAAGCCACCCAGGCTCCCCACCACTCTCATACTGCGTGCCACGTTACAGGGCTC
CACTGCACCACTCACCTTCTAGTCACACACAAACACAGGAGCTCACACATAAACTCATGAACCTTACTGACAAGT
CTGTCCAGGCACCGTCTCTCCACACACCACAAATTACTTGTAGATCCACATTTATAACTTTACAGGCTTTC
TAATGACCCCTGATCCACATACTCTTCTAAGATATACACATGTGAATTCACACATGAACCTCATATGTATGTGAAT
GAACTGATATATCAAACATGCATAGACTCACATGATGTTTTACACACATTTTCATACACACGTTGTTTCA
TGCTCCTGTGCATGTAGTCACACAACAAATAACTAAATGCACACACTCCTACTCCCAGTGCAATTTCTGTGCCAC
TTCTTGGCCCCGCTCTGCATGATGACTTCAGCAGATGCCTAAGTCCTGGTCATCAGCGGCCTCGGGACTGGGACT
AGGGAGGGGGTTCCGGGTGGAGGCTTGCAGCTGCTTCCAGGAAGGAGCAGAGCCTGGGGAGGTGGAGCCCTCTTG
CCTGGGCTCTGTGGAAGTGAGGTTTTGGAGCAGCCTCCAGAGGTGAAGGCAGGGCATCTACCTTCTCCCTCAG
GGTTAGTTTGGGGACCTTCTGAAGCTGTAGGGTTTTAGAGAGGTGGCAGTGGGGCAGAGCCTGTGGAGGCTCCT
TCAGGCCTTACAGGCCTCACCGATTGGGTGTGCAGAGGCTAGGAGTTGTGATGGAACTGGTATGAGCCTGCATCC
ACCTCTGGGAGGCAGGAGACCCCAAAGGACACCTGTGGACTCCCTAAGAGCCGCGGGTTTTCTTATTTAGCCAGAT
CGACAGAGAGGCAGTTTAGCCGCCCTTCTGTCTGAGAGAACTGAGGCCAGCAGAGGGAGGCAGGGCACTGCCT
GGCCTTGGCTCTTTGTTCCCTAATTACCATCTGAGGTGCTGATTGCACCCCTGAGGTACCTCTGCCCCAACTGCC
CTGTAATGAGGCCACCTGGCTGAGAGGACCAGGGACCTGTGCTTCAAGCTGGTAGAGAAGGGCCCTCCCTCACCT
GAGTCCTGGCCTCTGTGGAGGATGCAGGATTGGGCTTGGGCCTGGGTCTTTGCTGCCAGGTGGCCCTGCGGTAAT
CATCCAGGCCTCCCATGCCTCTCAGCATCTCTGCTGAGTGAATTACTCCTCAGCCCTGTTTACAGACCAGCATTGG
GCAGTGTGGTTTTGGGGCCAGGGGAATTGAGATTCACTCCAGCACTTGAAGGGGGAGTCTTGGTGGGGATCAGG
GCTTGTACTGATGTCAAGGAGGTGTTTGGTCAGGATCAGTGGGTGAGGAGGGTCTCAAGGTGGAGGGACTCTG
ACACCACTGCCCTGCTTACAGGTCGCTGCGAGGCCGCTGGCCAGGCCTGAGCCTCTGCCACCATGGCCATTGTG
CAGACTCTGCCAGTGCCACTGGAGCCTGCTCCTGAAGCTGCCACTGCCCCACAAGCTCCAGTCA**ATGGG**TAGTGTG
AGCAGCCTTATCTCAGGCCGGCCCTGTCCCGGGGGCCAGCTCCTCCCCGCCACCACGGCCCTCCTGGGCCACC
TTCTTCCGCCAGCAGGATGGCTGCTACGGGGTGGCTATGAGGCACAGGAGCCGCTGTGCCAGCTGTGCCCCCT
AGGAAGGCTGTCCCTGTACCACTTACCTACATCAATGAGGACTTCCGGACAGAGTCAACCCCAAGCCCAAGC
AGTGATGTTGAGGATGCCCGAGAGCAGCGGGCACACAATGCCACCTCCGCGGCCACCACCAAGCTCATCCCT
GTCTCTGGAAGCTGGAGAAGAATGGAGAAGATCCTGATCCGCCCAACAGCCTTCAAGCCAGTGCTGCCCAA
CCTCGAGGGGCTCCGTCCCTGCCTAGCTTCATGGGTCTCGGGCCACCGGGCTGTCTGGGAGCCAGGGCAGCCTG

FIGURE 3035B

[illegible]

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FIGURE 3036

MGSVSSSLISGRPCPGGPAPPRHHGPPGPTFFRQQDGLLRGGYEAQEPLCPAVPPRKAVPVTSFTYINEDFRTESP
PSPSSDVEDAREQRAHNAHLRGPPPKLIPVSGKLEKNMEKILIRPTAFKPVLPKPRGAPSLPSFMGPRATGLSGS
QGSLTQLFGGPASSSSSSSSSSAADKPLAFSGWASGCPSTLSDSGRNSLSSLPTYSTGGAFTTSSPGGHLPSH
GSGRGALPGPARGVPTGPSHSDSGRSSSSKSTGSLGGRVAGGLLGSGTRASPDSSSCGERSPPPPPPPSDEALL
HCVLEGKLRDREAELQQLRDSL DENEATMCQAYEERQRHWQREREALREDCAAQAQRAQRAQQLLQLQVFQLQQE
KRQLQDDFAQLLQEREQLERRCATLEREQRELGPRL EETKWEVCQKSGEISLLKQQLKESQAELVQKGSELVALR
VALREARATLRVSEGRARGLQEAARARELELEACSQELQRHRQEAQLREKAGQLDAEAAGLREPPVPPATADPF
LLAESDEAKVQRAAAGVGGSLRAQVERLRVELQRERRRGEEQRDSFEGERLAWQAEKEQVIRYQKQLQHNYIQMY
RRNRQLEQELQQLSLELEARELADLG LAEQAPCICLEEITATEI

TGTCTGGTAAGTGGTCTATTTCCTGCCACCCCGGGTGACTAGCTTGGCCAGTAGTCGACCCCAACCCGGGACCCG
 ACTCTGGGGGTTGGAGAGACTCTTGGGGCCGGGGTCGGGCACCTCCAGCTTTCTTCTAGCCCCGAGCTGGGATTCC
 CTGGCCTGCGCCAGCTGCGTACACGGCGAGTACACCGCACCTGCCCGGGACTTCACCCGCAGCTGCGAGACTCCT
 CCAITCCCGGAGGGCTCCCCACACCTGCTGCGGGCGTGCCCCATCTCCCCGCAGCTGCGGGCGTGAGCACCCCA
 TGTCTGAGAGGCTGAGACCAGGACAGCAGCCCTGACCAACGCTCCAATAGGCCGGGATCCAGCCATACTTCAATGG
 ATCCCAGGGGTATCTTGAAGGCATTTCCCAAGCGGCAGAAAAATTCATGCTGATGCATCATCAAAAGTACTTGGCAA
 AGATTCTTAGGAGGGAAGAGGGGAGAAGAAGCAGAAGAGTGGCTGAGCTCCCTTCGGGCCCATGTTGTGCGCACTG
 GCATTGGACGAGCCCGGGCAGAACTCTTTGAGAAGCAGATTGTTTCAGCATGGCGGCCAGCTATGCCCTGCCCAGG
 GCCCAGGTGTCACTCACATTGTGGTGGATGAAGGCATGGACTATGAGCGAGCCCTCCGCCTTCTCAGACTACCCC
 AGCTGCCCCCGGGTGCTCAGCTGGTGAAGTCAGCCTGGCTGAGCTTGTGCCTTCAGGAGAGGAGGCTGGTGGATG
 TAGCTGGATTACGATCTTCATCCCCAGTAGGTACTTGGACCATCCACAGCCAGCAAGGCAGAGCAGGATGCTT
 CTATTCTCTGGCACCCATGAGGGCCTGCTTCAGACAGCCCTTTCTCCTCCTCCTCCTCCCACCAGGCCTGTGT
 CTCCTCCCCAAAAGGCCAAAAGAGGCACCAACACCCAAGCCAGCCCATCTCTGATGATGAAGCCAGTGATGGGG
 AAGAAACCCAGGTTAGTGCAGCTGATCTGGAAGCCCTCATCAGTGGCCACTACCCACCTCCCTTGAGGGAGATT
 GTGAGCCTAGCCCAGCCCTGCTGTCTTGATAAGTGGGTCTGTGCACAGCCCTCAAGCCAGAAGGCGACCAATC
 ACAACCTCCATATCACAGAGAAGCTGGAAGTTCTGGCCAAAGCCTACAGTGTTTCAGGGAGACAAGTGGAGGGCCC
 TGGGCTATGCCAAGGCCATCAATGCCCTCAAGAGCTTCCATAAGCCTGTCACCTCGTACCAGGAGGCCTGCAGTA
 TCCCTGGGATTGGGAAGCGGATGGCTGAGAAAAATCATAGAGATCCTGGAGAGCGGGCATTTGCGGAAGCTGGACC
 ATATCAGTGAGAGCGTGCTGTCTTGAGCTCTTCTCCAACATCTGGGGAGCTGGGACCAAGACTGCCCAGATGT
 GGTACCAACAGGGCTTCCGAAGTCTGGAAGACATCCGCAGCCAGGCCTCCCTGACAACCCAGCAGGCCATCGGCC
 TGAAGCATTACAGTGACTTCTGGAACGTATGCCCAGGGAGGAGGCTACAGAGATTGAGCAGACAGTCCAGAAAG
 CAGCCCAGGCCTTTAACTCTGGGCTGCTGTGTGTGGCATGTGGTTTCATACCGACGGGGAAAGGCGACCTGTGGTG
 ATGTGACGTGCTCATCACTCACCCAGATGGCCGGTCCCACCGGGGTATCTTCAGCCGCCTCCTTGACAGTCTTC
 GGCAGGAAGGGTTCTCACAGATGACTTGGTGAGCCAAGAGGAGAATGGTCAGCAACAGAAGTACTTGGGGGTGT
 GCCGGCTCCCAGGGCCAGGGCGGCGGCACCGGCGCTTGACATCATCGTGGTGCCCTATAGCGAGTTTGCCTGTG
 CCTGTCTTACTTCACCGGCTCTGCACACTTCAACCGCTCCATGCGAGCCCTGGCCAAAACCAAGGGCATGAGTC
 TGTGAGAACATGCCCTCAGCACTGCTGTGGTCCGGAACACCCATGGCTGCAAGGTGGGGCCTGGCCGAGTGCTGC
 CCACTCCCCTGAGAAGGATGTCTTCAGGCTCTTAGGCCTCCCTACCGAGAACCTGCTGAGCGGGACTGGTGAAC
 CCATGGCTGGGGGTGCTGAGGAGAGCCGAGTTGGACTGGCTACCCCTCCTGGCCACCCAGTACTCCTCCAGCCT
 CAGCTGGCTGAACCTCGCCGCTCCAACCACCAGCTTCTCAGCGAGCAGGGCCCAGGGCTCTGGGCCTGAAGCAA
 GAGCCAGCCCGGCTCCCAGTGCTGTGCCGGCTCCCAGTGCTGTGCCAGCCCTCTCCAGACAGGAGCAGGCTGCC
 ACCCCTTCTACCTCACCACTGCCCTCGAAGAAATTTGCAAATGGCCCCTTGCCCCATTTTAAGCAGGAGCAGGT
 GGCTGGTTTGAAGCCCCAGGTATCCCCCTTCCCTGCTATGGGAAAGGCCAAGCTGCTGGGTGGGGACAGAAGCTG
 CAGGGGAGAGGGAAGCAGCCGTGCTGTCAACATCATCCGGCACCCCTCTGGGGTAGGAGAACAGCCATTCCACATG
 TGTTCCTCTATCCGTCTGCTTCTTGGGCAGCTGGTGGTGCTGGGAATGGGGTGCCCCAGCCTTGGTGAGGACA
 GTGTTGGGAGGGCCAGGGGGCCAGTAAAGTGCATTTGACATTGAAAAAAAAA

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FIGURE 3038

MDPRGILKAFPKRQKIHADASSKVLAKIPRREEGEEAEWLSSLRAHVVRTGIGRARAELFEKQIVQHGGQLCPA
QGPGVTHIVVDEGMDYERARLLRLPQLPPGAQLVKSAWLSLCLQERRLVDVAGFSIFIPSRYL DHPQPSKAEQD
ASIPPGTHEALLQTALSPPPPPTRPVSPQKAKEAPNTQAQPI SDDEASDGEETQVSAADLEALISGHYPTSLEG
DCEPSPAPAVLDKWVCAQPSSQKATNHNH LITEKLEVLA KAYSVQGDKWRALGYAKAINALKSFHKPVTSYQEAC
SIPGIGKRMAEKIIEILESGLRLKLDHISESVPVLELFSNIWGAGTKTAQM WYQQGFRSLEDIRSQASLT TQQAI
GLKHYSDFLERMPREEATEIEQTVQKAAQAFNSGLLCVACGSYRRGKATCGD VDVLI THPDGRSHRGIFSRL LDS
LRQEGFLTDDLVSQEENGQQQKYLGVCR LPGPGRRHRLDIIVVPYSEFACALLYFTGSAHFNRSMRALAKTKGM
SLSEHALSTAVVRNTHGCKVGPGRVLP TPTEKDVFRLLGLPYREPAERDW

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FIGURE 3039

ATGGCGGCGGCGGCGCGGGGAGGAGGAGGAGGAGGAGGAGGCGGCTCGGGAGTCGGCTGCCCCGCCGCGCGGGG
CCTGCGCTCTGGCGCCTGCCGGAGGAGCTGCTGCTGCTCATCTGCTCCTACCTGGACATGCGGGCCCTCGGCCGC
CTGGCCCAGGTGTGCCGCTGGCTGCGGCGCTTCACCAGCTGCGATCTGCTCTGGCGCCGGATAGCCCGGGCCTCG
CTCAACTCCGGCTTCACGCGGCTCGGCACCGACCTGATGACCAGTGTCCCAGTGAAGGAACGAGTGAAGGTGTCT
CAGAACTGGAGACTGGGGCGCTGCCGAGAGGGGATTCTGCTGAAGTGGAGATGCAGTCAGATGCCCTGGATGCAG
CTAGAGGATGATTCTCTGTACATATCCCAGGCTAATTTTCATCCTGGCCTACCAGTTCCGTCCAGATGGTGCCAGC
TTGAATCGTCGGCCTCTGGGAGTCTTTGCTGGGCATGATGAGGACGTTTGCCACTTTGTGCTGGCCAACTCGCAT
ATTGTTAGTGCAGGAGGGGATGGGAAGATTGGCATTTCATAAGATTACAGCACCTTCACTGTCAAGTACTCGGCT
CATGAACAGGAGGTGAACTGTGTGGATTGCAAAGGGGGCATCATTGTGAGTGGCTCCAGGGACAGGACGGCCAAG
GTGTGGCCTTTGGCCTCAGGCCGGCTGGGGCAGTGCTTACACACCATCCAGACTGAAGACCGAGTCTGGTCCATT
GCTATCAGCCCATTACTCAGCTCTTTTGTGACAGGGACGGCTTGTTGCGGGCACTTCTCACCCTGAGAATCTGG
GACCTCAACAGTGGGCAGCTGATGACACACTTGGGCAGTGACTTTCCCCAGGGGCTGGGGTGCTGGATGTCATG
TATGAGTCCCCTTTCACACTGCTGTCTGTGGCTATGACACCTATGTTGCTACTGGGACCTCCGCACCAGCGTC
CGGAAATGTGTCATGGAGTGGGAGGAGCCCCACGACAGCACCTGTACTGCCTGCAGACAGATGGCAACCACCTG
CTGGCCACAGGTTCTCCTACTACGGTGTGTACGGCTGTGGGACCGGCGTCAAAGGGCCTGCCTGCACGCCTTC
CCGCTGACGTCGACTCCCCTCAGCAGCCCTGTGTACTGCCTGCGTCTCACCACCAAGCATCTCTATGCTGCCCTG
TCTTACAACCTCCACGTCCTGGATTTTCAAAACCC**ATGA**

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FIGURE 3040

MAAAAGEEEEEEAARESAARPAAGPALWRLPEELLLLICSYLDMRALGRLAQVCRWLRRTSCDLLWRRRIARAS
LNSGFTRLGTDLMTSVPVKERVKVSQNWRLGRCREGILLKWRCSQMPWMQLEDDSLYISQANFILAYQFRPDGAS
LNRRPLGVFAGHDEDVCHFVLANSIHVSAGGDGKIGIHKIHSTFTVKYSAHEQEVNCVDCKGGIIVSGSRDRTAK
VWPLASGRLGQCLHTIQTEDRVWSIAISPLLSSFVTGTACCGHFSPLRIWDLNSGQLMTHLGSDFPFGAGVLDVM
YESPFLLSCGYDTYVRYWDLRTSVRKCVMEWEEPHDSTLYCLQTDGNHLLATGSSYYGVVRLWDRRQRACLHAF
PLTSTPLSSPVYCLRLTTKHLAALSYNLHVLDLFQNP

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FIGURE 3041A

AGGCAGCAGCAGAGGGAGAGCTCGGGGCTTGGAGGGGAAACAGCGGAAGACCTAAGATTATCGGGAGGGCAGCAG
AGGCAGAGAACGAGGACAGGACCCTTGGCCGCTCTTCTTCCAGGGAACGAGAGGTCACAGCCTCGCTCTCCGCTTA
GGCTTCTGGCGCCCCAGCTTAAAGCCGAGGCTGCGGCTGACAAAGGGCTCGCGCCGGTGCCGCCGCCCTTCTCAT
CCGGGCATTTCGGGTCCCTGCGGAGAGGGAGGGGGAAGGGCAGAGGGGGAGGGGAAGGAGCCGGAGGGGGCGCACAC
TTGGAGCTGAAGCCCTCTCCAGGGCTCCGGGCCGGTGCCCCAACGGACAGAGGTCGAGGAGGACCCGCAGAGGTG
GCAGCGGCCGGGGGCAGGAGGATGGTGCAGAAGGAGAGTCAAGCGACGTTGGAGGAGCGGGAGAGCGAGCTCAGC
TCCAACCCTGCCGCCTCTGCGGGGGCATCGCTGGAGCCGCCGGCAGCTCCGGCACC CGGAGAAGACAACCCCGCC
GGGGCTGGGGGAGCGGCGGTGGCCGGGGCTGCAGGAGGGGCTCGGCGGTTCTCTGCGGTGTGGTGGAAGGATTT
TATGGAAGACCTTGGGTTATGGAACAGAGAAAAGAACTCTTTAGAAGGCTCCAGAAATGGGAATTAAATACATAC
TTGTATGCCCCAAAAGATGACTACAAACATAGGATGTTTTGGCGAGAGATGTATTAGTGAGGAAGCTGAGCAA
CTTATGACTCTCATCTCTGCTGCACGAGAATATGAGATAGAGTTTATCTATGCGATCTCACCTGGATTGGATATC
ACTTTTTCTAACCCCAAGGAAGTATCCACATTGAAACGTAAATTGGACCAGGTTTCTCAGTTTGGGTGCAGATCA
TTTGCTTTTGCTTTTTGATGATATAGACCATAATATGTGTGCAGCAGACAAAGAGGTATTAGTTCTTTTGCTCAT
GCCCAAGTCTCCATCACAAATGAAATCTATCAGTACCTAGGAGAGCCAGAACTTTCTCTTCTGTCCACAGAA
TACTGTGGCACTTTCTGTTATCCAAATGTGTCTCAGTCTCCATATTTAAGGACTGTGGGTGAAAAGCTTCTACCT
GGAATTGAAGTGCTTTGGACAGGTCCCAAAGTTGTTTCTAAAGAAATTCAGTAGAGTCCATCGAAGAGGTTTCT
AAGATTATTAAGAGAGCTCCAGTAATCTGGGATAACATTGCTAATGATTATGATCAGAAGAGACTGTTTCTG
GGCCCGTACAAAGGAAGATCCACAGAACTCATCCACGGTTAAAGAGAGTCCCTCACTAATCCAAATTGTGAATTT
GAAGCCAACTACGTTGCTATCCACACCCTTGCCACCTGGTACAAATCAAAACATGAATGGAGTGAGAAAAGATGTA
GTGATGACTGACAGTGAAGATAGTACTGTGTCCATCCAGATAAAAATTAGAAAATGAAGGCAGTGATGAAGATATT
GAAACTGATGTACTCTATAGTCCACAGATGGCTCTAAAGCTAGCATTAACAGAATGGTTGCAAGAGTTTGGTGTG
CCTCATCAATACAGCAGTAGGCAAGTTGCACACAGTGGAGCTAAAGCAAGTGATGTTGATGGGACTCCTTTAGTT
GCAGCACCCTCTTTAAATGCCACAACCGTAGTAACAACAGTTTATCAGGAGCCCATTATGAGCCAGGGAGCAGCC
TTGAGTGGTGAGCCTACTACTCTGACCAAGGAAGAAGAAAAGAAACAGCCTGATGAAGAACCCATGGACATGGTG
GTGGAAAAACAAGAAGAAACGGACCACAAGAATGACAATCAAAATACTGAGTGAAATTGTTGAAGCGAAAATGGCA
GAGGAATTGAAACCAATGGACACTGATAAAGAGAGCATAGCTGAATCAAAATCCCAGAGATGTCCATGCAAGAA
GATTGTATTAGTGACATTGCCCCATGCAAACTGATGAACAGACAAACAAGGAGCAGTTTGTGCCAGGTCCAAAT
GAAAAGCCTTTGTACACTGCGGAACCAAGTACCTGGAGGATTTGCAGTTACTTGCTGATCTATTCTACCTTCCT
TACGAGCATGGACCCAAAGGAGCACAGATGTTACGGGAATTTCAATGGCTTCGAGCAAATAGTAGTGTGTGTCAGT
GTCAATTGCAAAGGAAAAGACTCTGAAAAAATTGAAGAATGGCGGTCACGAGCAGCCAAGTTTGAAGAGATGTGT
GGACTAGTGATGGGAATGTTCACTCGGCTCTCCAATTGTGCCAACAGGACAATTCCTTATGACATGTACTCCTAT
GTTTGGGATATCAAGAGTATAATGTCTATGGTGAAGTCTTTTGTACAGTGGTTAGGGTGTGCTAGTCATTCTTCA
GCACAATTCTTAATTGGAGACCAAGAACCCTGGGCCTTTAGAGGTGGTCTAGCAGGAGAGTTCCAGCGTTTGCTG
CCAATTGATGGGGCAAATGATCTCTTTTTTTCAGCCACCTCCACTGACTCCTACCTCCAAAGTTTATACTATCAGA
CCTTATTTTCTTAAGGATGAGGCATCCGTGTACAAGATTTGCAGAGAAATGTATGACGATGGAGTGGGTTTACCC
TTTCAAAGTCAGCCTGATCTTATTGGAGACAAGTTAGTAGGAGGGCTGCTTTCCCTCAGCCTGGATTACTGCTTT
GTCCTAGAAGATGAAGATGGCATAATGTGGTTATGCCTTGGGCACTGTAGATGTGACCCCTTTTATTAATAAATGT
AAAATTTCTTGATCCCCTTCATGCAGGAGAAGTATACCAAGCCAAATGGTGACAAGGAACCTCTCTGAGGCTGAG
AAAATAATGTTGAGTTTCCATGAAGAACAGGAAGTACTGCCAGAACTTTCTTGCTAATTTCCCTTCTCTGATA
AAGATGGACATTCACAAAAAGTAAGTACCCAAAGTGTGGCCAAAAGCATGATGGCTTGCCTCCTGTCTTCACTG
AAGGCTAATGGCTCCCGGGGAGCTTTCTGTGAAGTGAGACCAGATGATAAAGAATTCTGGAATTTTACAGCAAG
TTAGGATGTTTGAATTTGCAAAAATGGAAGGATTTCCAAAGGATGTGGTTATACCTGGTTCGGAGCCTGTGACAT
TTGTTGACACTGTGAAGTGTCCAAAAGTCTCTTAACTGCACCTTGTGAATGGTAGTTGAGGTCTTCATACAGTTC
AGCCTCTAGAATGGTAACAAATCAGCCAATTGGATTGCAACAAAGAAGACTATGTAAACTCACCCATCACACT
TTGAGACTACTCACTGGTTGGAAGAATATAGTATTGCAGCAAACTCCTGTATGAAAGAGAGATGTGGGCTTCCCTT
TTGAGTCTTGTGTTAGGTGCTGAGACCTTTTACATGGGCTTATACAGGGAGAGAGTCTTCAATAAATGTAGTCAG
CACTATTTTCTGCATCCAGTGTGGTTGCGTTTCTCACCTGAGAGTAATCAAGATAACATCTGTATCTTCTCTG
TTTATTGAGTGAAATGCCTCTCAGTCTTAGGGGACATGGCAGAGATGAAAGAAAGAAGAGTGGGTTTTCAGAAGT

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FIGURE 3041B

GTCAGGGTGGAGTGATTCCAAGTGGGATGGTTGTGGCATTAGTTTAAAGCTGAATAAAATAATTTCAATTTGGGGCA
GTTATTCTGCTTTTTTGTAAGCCGTGGCCAATTGTCTCCTGTAATGACTGTTGGTTCAGGCATGTTGTACTTTGT
AGGGACAAATGTGCATTTGTTTGTGGCAAAAGCCTACAATTGACAAACTTGTAATTTCTTTGTATATAAACTAG
CTGTAACCTGACTATCCTTTGTGTTTACTGTTTTTGTAAATTTTTTCTCTATAAAATGAAAGGGTGTGGTTCA
GAATGGCACTTTGAATAATGTAAACCAGTGAAAAGTGGATTTTCTTTACTTTTGTCTTTGGGTTTGGGGTTGTTT
TTGTTCTTTTTGAAGTTTTATTATTTTTAAAGTGCCTCCACCTAGGCGTAGGCCATGACCATTTGGGGTACGAG
AGCCTAATTTTGTAGGACTTAATCTGTTGAAAAGTGCAGTTACTTCTGGAAATTAACCTCAATATTAGGTCAGCA
TGTGAAATGTTGGATTTGACATGTCAGGTAGGGTTCAGGGACTGATTGGTCCCATTTGCCCTCAGGTCAGTTGTT
TAATCTCAAGACCTGTTACTACTGATTTTATTAAATCAGAGTCTTTAATTCTTGCAATGTTTGTATCTAATTTCTG
AATGAATGAGCACACTTTAACCAGTTATTTACAGTTACCTTTTTCTTTAACCGGATTGTGAAAGCTTCATGTAT
TTTAATTTAGATTCTGTGTTTTTAAGGGTTCTGAGCATGAAGCTGGCAGATAGTCGGCAGGACTCATTTTTTTCAT
CATGGCTGGCTGATTTCTCCATAGATTGATAACAGTATTTTGTATCTTGCTTCTCTGTAGTTTGCATCAGCTG
TTTAACCTTTGAGCTGAGTGAGGGGAGAGGGGTAAAGAGAAAGAACTTAAGTTTTCTTTCACAGAACTCCACCAT
TGTGGGCTTTGAGAGAGCCCTAAAGCATTGTACCTAGTGGTACCTAGTGACTTCCAACCAAAGCCTTTGAGTATG
CACTAAATAGGTGAGAAGAAAGGAGAGAAGGTTTTTAGGTTAGAAACCTTTAACCGATAGAAGGATATGGTATGT
TGTAAGCTGGAACCAAGTTTGCATTTTTGAGGGCTTGAGATGAAGGGAAGACTCTTACCAGATAGTAAGACAGC
TGAGTTTTCTCAGTTTTCTCGTCTTAACACTAGTGGACAATTCTAGCATTTTGTGTTGGAGGATTTAGAGTTAA
CCTCATGGAATTCAGGATTTTTTAGCAAGTTTGCTTTTGGTTTTATCTTGGCTTTTAGTAATCATGTTGGCTGGT
CTGGTCACAGGTGACTGTGAAACAGATGCCCTGGTCTTGCTTTTCATCACTCTAGGATCATGAAGTGCTATGCTAT
TTCCTGGTTATGAATATTAAGGTTGGAATTACATTTTTATTGATTGTTTGGATCAGAGCTCAGTTCCTGTAGAAA
ACGAACTGTAAAAGACCATGCAAGAGGCCAAAATAAACTTGAAGTG

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FIGURE 3042A

GCCAGCGATCAGAGCAGCGCTGGGTGTTTCAGGGGCCAAGATGGCGGCGCGCCGGGGACGGAGAGACGGAGTCGCG
CCGCCCCCGAGTGGGGGCCCGGTCCGGACCCTGGCGGGGGAGCCCGCGGCAGTGGTTGGCGAAGTCGAAGCCAA
GCGCCGTATGGGACTTTGGGCGCTGTGAGCGGCGGCGAGCAGGTGCTGCTGCATGAGGAGGCGGGTGATTCTGGC
TTTGTCACTCTCTCTCGGCAGGGCCCCATCTCTGAGGGACAAGGACCTGGAAATGGAGGAGCTAATGCTGCAGGAT
GAGACACTGCTGGGGACCATGCAGAGCTACATGGATGCCTCCCTTATCTCCCTCATTGAGGATTTTGGGAGCCTT
GGAGAGAGCAGGTTATCTCTGGAGGACCACAATGAAGTGTGCTGCTCACGGCTCTGACGGAGATCTTGGACAAT
GCAGATTCTGAGAACCTTTCTCCATTTGACAGCATTCCTGATTTCGGAGCTGCTTGTGTACCCCCGGGAGGGCTCC
TCTCTGCACAAGCTGCTTACTCTCTCTCGGACACCCCCAGAACGTGACCTCATCACCCCAGTTGACCCACTGGGG
CCCAGTACGGGCAGCAGTAGAGGGAGTGGGGTTGAAATGTCTCTTCCAGATCCCTCTTGGGACTTCTCCCCACCC
TCTTTCTTAGAGACCTCTTCCCCCAAGCTTCCTAGCTGGAGACCCCCAAGATCAAGACCACGCTGGGGCCAATCC
CCACCTCCCCAGCAGCGCAGTGATGGAGAAGAAGAGGAGGAGGTGGCCAGCTTCAGTGGCCAGATTCTTGCCGGG
GAGCTTGACAACCTGTGTGAGCAGTATCCCGGACTTCCCCATGCATTTGGCCTGCCCTGAGGAGGAAGATAAAGCA
ACAGCAGCAGAGATGGCAGTGCCAGCAGCTGGTGATGAGAGCATCTCCTCCCTGAGTGAGCTGGTGCGGGCCATG
CACCCATACTGCCTGCCCAACCTCACCCACCTGGCATCACTTGAGGATGAGCTTCAGGAGCAGCCAGATGATTTG
ACACTGCCTGAGGGCTGCGTAGTGCTGGAGATTGTGGGGCAGGCAGCCACAGCTGGCGATGACCTGGAGATCCCA
GTTGTGGTGCGACAGGTCTCTCCTGGACCCCGGCCTGTGCTCCTGGATGACTCGCTAGAGACTAGTTCTGCCTTG
CAGCTGCTTATGCCTACACTGGAGTCAGAGACAGAGGCTGCTGTGCCCAAGGTAACCCTCTGCTCTGAGAAAGAG
GGGTGTGTCATTGAACTCAGAGGAGAAGCTGGACTCAGCCTGCTTATTGAAGCCAGGGAGGTGCTGGAGCCGGTG
GTGCCCAAGGAGCCTCAGAACCCACCTGCCAATGCAGCACCAGGTTCCAGAGAGCTCGAAAGGGCAGGAAGAAG
AAGAGCAAGGAGCAGCCAGCAGCCTGTGTGGAAGGCTATGCCAGGAGGCTGAGGTCATCTTCTCGCGGGCAGTCT
ACTGTAGGTACAGAAGTGACCTCTCAGGTAGACAACCTGCAGAAACAGCCTCAGGAAGAACTTCAAAAAGAGTCT
GGGCTCTCCAGGGTAAGGGGAAGCCCCGGGCTTGGGCTCGGGCCTGGGCAGCTGCCTTGGAGAATTCTAGCCCT
AAGAACTTGGAGAGAAGTGCTGGACAAAGTAGTCTGCTAAAGAAGGCCCTCTAGACCTCTACCCAAAGCTGGCT
GACACTATCCAAACCAATCCTATACCAACCCATCTCTCATTGGTCGACTCTGCCCAAGCCAGCCCCATGCCAGTT
GACTCTGTTGAAGCTGATCCCACTGCAGTTGGCCCTGTTCTAGCTGGCCCTGTACCTGTTGACCCCTGGGTTGGTT
GACCTTGCTTCAACCAGCTCAGAACTGGTTGAGCCTCTCCCGGCTGAGCCAGTGCTGATCAACCCAGTCTGGCT
GACTCAGCAGCAGTTGACCCTGCAGTGGTTCCCATCTCAGATAACTTGCCACCAGTTGATGCTGTCCCGTCTGGC
CCAGCACCAGTTGATCTAGCACTGGTTGACCCTGTTCCCTAATGACCTGACTCCAGTTGACCCAGTGCTAGTTAAG
TCCAGACCAACTGATCCCAGACGTGGTGCACTGTATCAGCCCTGGGGGTTTCCAGCACCACAGTCTCCTCGTGGAG
TCAGAGTCTTGGACCCACCAAAGACCATCATCCCTGAAGTCAAAGAGGTTGTGGATTCTCTGAAAATTGAAAGT
GGTACCAGTGCTACAACCCATGAAGCCAGACCTCGGCCTCTCAGCTTATCTGAGTACCGGCGACGAAGGCAGCAA
CGCCAAGCAGAAACAGAAGAGAGAAGTCCACAGCCCCCAACTGGGAAGTGGCCTAGCCTTCCAGAGACTCCCACA
GGGCTGGCAGACATCCCTTGTCTTGTCTATCCACAGCCCCAGCCAAGAAGACAGCTCTGCAGAGAAGCCCTGAA
ACACCCCTTGAGATTTGCCTTGTGCTGTAGGTCCCAGCCCTGCTTCTCCTAGTCTCTGAGCCACCTGTAAGCAAA
CCTGTGGCCTCATCTCCCACTGAGCAGGTGCCATCCAGGAGATGCCACTGTTGGCGAGACCTTCCCCTCCTGTG
CAGTCTGTGTCCCTGCTGTGCCCCACACCTCCCTCGATGTCTGCTGCCCTGCCTTTCCCTGCAGGTGGGCTTGGC
ATGCCCCCAGTCTGCCCCCACCTCCCTTGACGCTCCTAGTCTTCCATTGTCTATGGGGCCAGTACTACCTGAT
CCGTTTACTCACTATGCCCCCTTGCCATCCTGGCCTTGTTATCCTCATGTGTCCCCTTCTGGCTATCCTTGCCTG
CCCCCCCCACCAACGGTGCCCTAGTGTCTGGTACTCCTGGTGCCTATGCCGTGCCTCCCACTTGCACTGTGCCT
TGGGCACCCCTCCTGCCCCAGTCTCACCTTACAGTTCCACATGTACCTATGGGCCCTTGGGATGGGGCCAGGG
CCTCAACATGCTCCATTCTGGTCTACTGTTCCCCCACCTCCTTTGCCTCCAGCCTCCATTGGGAGAGCTGTTCCC
CAACCTAAAATGGAGTCTAGGGGCACTCCAGCTGGCCCTCCTGAAAATGTACTTCCCTTGTCGATGGCTCCTCCC
CTCAGTCTTGGGCTACCTGGCCATGGAGCTCCTCAGACAGAGCCTACCAAGGTGGAGGTCAAGCCAGTGCCCTGCA
TCTCCCCATCCGAAACACAAGGTGTCTGCCCTGGTGCAAAGTCCCCAGATGAAGGCTCTAGCATGTGTGTCTGCT
GAAGGTGTGACTGTTGAGGAGCCTGCATCAGAGAGGCTAAAGCCTGAGACCCAAGAGACCAGGCCAGGGAGAAG
CCCCCTTGCCCTGCTACCAAGGCTGTTCCACACCAAGGCAGAGCACTGTCCCAAGCTGCCTGCTGTCCACCCA
GCCCGTCTAAGGAAGCTGTCTTCCCTGCCTACCCACGTACTCAGGGTTCTGAAGATGTGGTACAGGCTTTTCATC
AGTGAGATTGGAATTGAGGCATCGGACCTGTCCAGTCTGCTGGAGCAGTTTGAGAAATCAGAAGCCAAAAAGGAG

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FIGURE 3042B

TGTCCTCCTCCGGCTCCTGCTGACAGCTTGGCTGTAGGAACTCAGGCGGCGTTGACATTCCCCAGGAGAAGAGG
CCCCTAGACCGGTTACAAGCCCCAGAACTGGCCAACTGGCAGGGCTCACCCCTCCAGCTACCCCTCCCCACCAG
TTATGGAAGCCCCTGGCTGCTGTCTCACTGCTGGCCAAAGCCAAATCTCCTAAGTCCACCGCCCAGGAGGGAACC
CTGAAGCCTGAAGGAGTTACGGAGGCCAAACATCCAGCTGCAGTTGCGCTCCAAGAAGGGGTCCATGGCCCTAGT
CGAGTCCATGTGGGCTCTGGGGACCATGACTATTGTGTCCGGAGCAGGACCCCCCAAAAAAGATGCCTGCCCTA
GTCATTCCAGAGGTGGGCTCCCGATGGAATGTCAAGCGCCATCAGGACATCACCATCAAACCTGTCTTGTCTTG
GGCCAGCTGCCCTCCGCCCCCATGCATAGCTGCCTCCCGGAGCCGCTTGATCACAGGACTAGCAGTGAGCAG
GCAGATCCCTCAGCACCTGCCTTGCCCCATCCAGCTTGCTGTCCCCTGAGGCCTCACCCCTGCCGGAATGACATG
AACACTAGGACTCCCCCTGAACCCTCAGCCAAGCAGCGGTCAATGCGCTGTTACCGAAAAGCCTGCAGGTCAGCC
AGCCCCTCAAGCCAGGGCTGGCAGGGCCGCCGAGGCCGCAACAGCCGTTCTGTGAGCTCTGGGTCCAACCGGACT
AGCGAAGCATCTTCCTCATCTCATCATCGTCTTCCTCATCCCGATCTCGGTCCAGGTCCCTCTCCCCCCCCACAC
AAGAGGTGGCGAAGGTCCAGCTGTAGTTCTCTGGACGTTCTCGAAGATGCTCTTCCTCTTCTTCGTTCATCATCT
TCCTCTTCGTCTTCCTCATCTCATCATCCAGTTCTCGAAGCCGCTCACGATCCCCATCCCCCGCCGGAGAAGT
GACAGGAGGCGGCGGTACAGCTCTTATCGTTCACATGACCATTACCAAAGGCAAAGAGTGCTACAAAAGGAGCGT
GCAATAGAAGAAAGAAAGGGTGGTCTTCATTGGAAAAGATACCTGGCCGCATGACTCGATCAGAGCTGAAACAGAGG
TTCTCCGTTTTTTGGAGAGATTGAGGAGTGACCATCCACTTCCGTGTCCAAGGGGACAACCTACGGCTTCGTCACT
TATCGCTATGCTGAGGAGGCATTTGCAGCCATTGAGAGTGGCCACAAGCTGCGGCAGGCAGATGAGCAGCCCTTT
GATCTCTGCTTTGGGGGCCGAAGGCAGTTCTGCAAGAGGAGCTATTCTGATCTTGACTCCAACCGGGAAGACTTT
GACCCAGCACCTGTAAAGAGCAAATTTGATTCTCTTGACTTTGACACATTGTTGAAACAGGCCCAGAAGAACCTC
AGGAGGTTAACTTTGGGCCCTTCCTGCTATCCTTTTTCTCCTTTGGAGGTGCCAACCTCCTCCACCCCTTCCC
CTACTCTAGGGGAGAGAGCTGCTAGTGAGATGACTGTTTTATAAAGAAATGGAAAAAGTGAAATAAAAAATATG
TTGAATCAGATTTTTTTAAAAGGGGTATTTGTTTTTTTATAACAGGTATTGAAACAAGTTAACTTGCATTCTATG
TAAGATAGGAGGGGCTGAGGGGATCCCCAGTGTTTGGAACATAAGTCACTATGCAGACTAATAAACATCAACTAG
AGAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3043

MAARRGRRDGVAPPPSGGPGPDFGGGARGSGWRSRSQAPYGTLGAVSGGEQVLLHEEAGDSGFVSLSRQGPSLRD
KDLEMEELMLQDETLTGTMQSYMDASLISLIEDFGSLGESRSLSEDHNEVSLLTALTEILDNADSENLSPFDSIP
DSELLVSPREGSSLHKLLTLSTRTPPERDLITPVDPLGPGSTGSSRSGSGVEMSLPDPSPWDFSPPSFLETSSPKLPSW
RPPRSRPRWGQSPPPQQRSDGEEEEEEVASFSGQILAGELDNCVSSIPDFPMHLACPEEEDKATAAEMAVPAAGDE
SISSLSELVRAMHPYCLPNLTHLASLEDELQEQQPDDLTLPPEGCVVLEIVGQAATAGDDLEIPVVVRQVSPGPRPV
LLDDSLSETSSALQLLMPTLESETEAAVPKVTLCSEKEGLSLNSEEKLD SACLLKPREVVEPVVPKEPQNPPANAA
PGSQRARKGRKKKSKEQPAACVEGYARRLRSSSRGQSTVGTEVTSQVDNLQKQFQEELQKESGPLQGKGKPRAWA
RAWAAALENSSPKNLERSAGQSSPAKEGPLDLYPKLADTIQTNPIPTHLSLVDSAQASMPVDSVEADPTAVGPV
LAGPVVPDPLVDLASTSSELVEPLPAEPVLINPVLADSAAVDPAVVPISDNLPPVDAVPSGPAPVDLALVDPVP
NDLTPVDPVLVKSRPTDPRRGAVSSALGGSAPQLLVESESLDPPKTIIPVKEVVDLSKIESGTSATTHEARPRP
LSLSEYRRRRQQRQAETEERSPOFFTGWKPSLPETPTGLADIPCLVIPPAPAKKTALQSPETPLEICLVPVGPS
PASPSPEPPVSKPVASSPTEQVPSQEMPLLARPSPPVQSVSPAVPTPPSMSAALFFPAGGLGMPPSLPPPLQPP
SLPLSMGPVLPDPFTHYAPLPSWPCYPHVSPSGYPCLPPPPTVPLVSGTPGAYAVPPTCSVPWAPPPAPVSPYSS
TCTYGPLGWGPGPQHAPFWSTVPPPLPPASIGRAVPQPKMESRGTPAGPPENVLPLSMAPPLSLGLPGHGAPQT
EPTKVEVKPVPASPHPKHKVSALVQSPQMKALACVSAEGVTVEEPASERLKPETQETRPREKPPLPATKAVPTPR
QSTVPKLPVHPPARLRKLSFLPTPRTQGSSEVQAFISEIGIEASDLSSLLEQFEKSEAKKECPPPAPADSLAVG
NSGGVDIPQEKRLDRLQAPELANVAGLTPPATPPHQLWKPLAAVSLAKAKSPKSTAQEGTLKPEGVTEAKHPA
AVRLQEGVHGPPSRVHVGSGDHDYCVRSRTPPKMPALVIEVGSRWNVKRHQDITIKPVLISLGAAPPPPCIAAS
REPLDHRTSSEQADPSAPCLAPSSLLSPEASPCRNDMNTRTPPEPSAKQSRMRCYRKACRSASPSSQGWQGRGR
NSRSVSSGSRNTSEASSSSSSSSSSSRSRSRSLSPPHKRWRSSCSSSGRSRRCSSSSSSSSSSSSSSSSSSSSSR
SRSRSPSPRRRSRRRRYSSYRSHDHYQRQVRLQKERAIEERRVVFIGKIPGRMTRSELKQRFVVFGEIEECTIH
FRVQGDNYGFVTYRYAEEFAAIESGHKLRQADEQPFDLFCGGRRQFCKRSYSDLDSNREDFDPAPVKSKFDSL
FDTLKQAQKNLRR

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FIGURE 3044A

GTCGTGCTGCGTCGACAACGGTAGTGACGCGTATTGCCTGGAGGATGGCGGACGCCGGCATTGCGCGCTGGTTCCAGCGACCTGTATCCCCTCGTGCTCGGCTTCTCGCGGATAACCAACTCTCAGAGGTGGCCAATAAGTTCGCCA AAGCGACAGGAGCTACACAGCAGGATGCCAATGCCCTCTTCCCTCTTAGACATCTATAGCTTCTGGCTCAAGTCTG CCAAGGTCCCAGAGCGAAAGTTACAGGCCAAATGGACCAGTGGCTAAGAAAGCTAAGAAGAAGGCCTCATCCAGTG ACAGTGAGGACAGCAGCGAGGAGGAGGAGGAAGTTCAAGGGCCTCCAGCAAAGAAGGCTGCTGTACCTGCCAAGC GAGTCGGTCTGCCTCCTGGGAAGGCTGCAGCCAAAGCATCAGAGAGTAGCAGCAGTGAAGAGTCCAGTGATGATG ATGATGAGGAGGACCAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGCCCCAAGCCAAGGCAGCCAAAGCTCCTC CTAAGAAGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGGATGAGCCACCAAAGAACCAGAAGCCAA AGATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCCTCCCAAACCAGCTCGAGCAGCACCTAAAAATAGCCA ATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGCAGTAGCAGTGATGACTCAGAGGAGGAGAAGGCAG CAGCCACCCCCAAGAAGGTCTGGACCATAACTTCTGTGAGGGCAGAGACTGTACCTAAAAAGCAAGTTGTGGCCA AGGCCCCAGTGAAAAGCAGCTACCACCCCTACCCGGAAGAGTTCTAGCAGTGAGGATTCTCCAGTGACGAGGAAG AGGAGCAAAAAAAACCCATGAAAAATAAACAGGTCCCTACAGTTCAGTCCCCCGCCTTCTGCTCCCCCACCAA AGAAGTCTCTGGGAACCCAGCCTCCCAAGAAGGCTGTGGAGAAGCAGCAGCCTGTGGAAAGCAGTGAAGACAGCA GTGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCCAACTAAGGCAGTAGTCTCTAAAGCAACCACTA AACCACCTCCAGCAAAGAAAGCAGCAGAGAGCTCTTCAGACAGCTCAGACTCTGACAGCTCTGAGGATGATGAAG CTCCTTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAAATAAGCCAGCTGTCACCACCAAGTCACCTGCAGTGA AGCCAGCTGCAGCCCCCAAGCAACCTGTGGGCGGTGGCCAGAAGCTTCTGACGAGAAAGGCTGACAGCAGCTCCA GTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGGTGGCCACCACTAAGCCCAAGGCGACTG CCAAAGCAGCTCTATCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAGTAGGGACAGCAGCTCTGATTGACAGCT CCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCAGTTAAGAAGAAGCCACAGAAGGTAGCAGGAGGTG CAGCCCCCTTCCAAGCCAGCCTCTGCAAAGAAAGGAAAGGCTGAGAGCAGCAACAGTTCTTCTTCTGATGACTCCA GTGAGGAAGAGGAAGAGAAGCTCAAGGGCAAGGGCTCTCCAAGACCACAAGCCCCCAAGGCCAATGGCACCTCTG CACTGACTGCCCAGAATGGAAAAGCAGCTAAGAACAGTGAGGAGGAGGAAGAAGAAAAGAAAAGGCGGCAGTGG TAGTTTCCAAATCAGGTTTCATTAAAGAAGCGGAAGCAGAATGAGGCTGCCAAGGAGGCAGAGACTCCTCAGGCCA AGAAGATAAAGCTTCAGACCCCTAACACATTTCCAAAAAGGAAGAAAGGAGAAAAAAGGGCATCATCCCCATTCC GAAGGGTCAGGGAGGAGGAAATTGAGGTGGATTACAGAGTTGCGGACAACCTCCTTTGATGCCAAGCGAGGTGCAG CCGGAGACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTCACCAAAGGCAAGTCCTTTGGGCATGAGAAAACCA AGAAGAAGCGGGCAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCAATTCTATTAAAGTTTGACAGCGAGTGAC CTGAGGCCATCTTCGGTGAAGCAAGGGTGATGATCGGAGACTACTTACTTTCTCCAGTGGACCTGGGAACCCTCA GGTCTCTAGGTGAGGGTCTTGATGAGGACAGAAGTTTAGAGTAGGTCTTAAGACTTTACAGTGTAACATCCTCTC TGGTCTTTTCTGTGTTTCTAGTTTTGTACAGACTTGTTTTTGAGTGTGAGTAGCAGGGACAAAATAAGGGAAT GTTATTTTTTAAGAAAATTCATTTTCATTGTTGTCTCCTTCTTTCTGTGAAAGTCCTCATACTGAGAAATTTG TATATTTTATATTAAATCACTTACTATTGATTTTTGTGTGATTTTCAAAGGTGGATTCCACAGATAAAATCTT GGCTATTGCCCAAAACATAGTAAAGGTCACGTGTGACTTTTTATAATAGGAAGAAAATTCTGCCTTTGTGAGTG CACATGTCCACATTTTCATCCCTCCTTCCCTCAAACCCCTAGAGAGGGGCATTAAAGAATTGTTGATGTATATGCA ATGTCGTGTTAAGCATGCACTATGTATTTTCATCCTCATTTATTGGGTCTGGGACTGAAGTTTTTAGCCAGCATGGA CCTAACCTACTTTTTTGGGATAAAAATTCCTGTGTTTTGTACAGGCCAAAATTCGGTATGGCGTGAATGCCATGGGT CATTCGTAATATATTTTTTCTGTAATTTTATCATTACACGATGTTTGCAATACGTGCTTTGTTTTTTAATTTGA AAGCAAACCTTTTCTACTGTTGAAAAGACATTTTTTGACAACCTTGACCTTCCTAGTATTGAGTTCTAAGTTGAGGA CTGCATCTTCTCGTTTTTTACAGTATAGAGAACAAAATGACATGAGTTTGAAAAATACATATCACTTGGTATTGC TGTCTTGGTTGCAGTGGTGATACAGAATTGGTTTTCATTAATTCCTACATGGTTGAGAATCACTGATCAAGAAAGT GGGGGGAAAAAAACAAACGTTAAACCTCAATCCTCAGTAGGAAGGTAGATTACATTAGGTGAAATTATAGGTA ATCTATGTATGTGCTAATGGGGTTGGAAGAACCTTACAGAGCATATTACCTGATAAACTGGAGTGGGTTTGGGA GAACAAACTAATAGGATTATTGTGTCTCCTAGTTGGTACCTGGGAGCAATTGACATGCCCCCTTCAGAACCTTAA CTGTTAGTAGCAGTGGCTGTAAACAACACAAACAGTGACCAGAGATAACAGCTTTTAGGCCAAGCTGGCCTGACG GTATGGCTGCAGGAAGTGACTGAGCAGTAGCGGTACTCAGCCAGACCAAGACGGAGAGGGGAAGAGTCCACAGCTT TCTGGAAGCTAAGGCATTCTGGTGGTAGAAAAGTGTGCCCCAAGCCTTCATGGACGAGTTATAGGTCTTAAGATT

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FIGURE 3044B

AGTCTCCTCTTGTTTGGATTCCATACTTGCTAAATAACCTGATAATAACCTGGTTTTCCATGTAACCTGCCTCTAG
GAAGAAAATGTACTGTTTCATGCTGACACAGATATTTTCAGTCTGCATGGTAAAAGTTCTAAATCTTACTACAAAAT
AATAAACTGGCTGGTTTATAATGTG

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FIGURE 3045A

GACAGGGAAGGTACCCGGCTCTACTGCCCCGTCCCGGACGACTCATCCTGGCGGACTGTGCAGTCCCACCCTGACT
TCAGCCTCAATTTCCAGGAAACAGGCTCCTTCTCTTCTCCCATCTGCTACCAGAGCCGGGAGAGCTGCTCGGAGA
CGCCTCCGGGGTGCAGGCTGGACATGAGCAGCGGCTGCCGGTCTGGGACTAGGCCCCGCCATTTTGGATCCGCT
GACAGGTTTGCCAAG**ATG**GTGGATAAGAATATTTACATCATTCAAGGGGAGATTAACATTGTGGTTGGGGCCATC
AAACGAAATGCCCCGATGGAGCACCCATACACCACTGGATGAAGAACGGGATCCTCTGCTGCATAGTTTTCGGTCAT
CTAAAGGAGGTTTTAAACAGTATAACAGAACTCTCAGAAATTGAGCCCAATGTATTCTTCGACCTTTTCTGGAA
GTGATTGCTCTGAAGATAACCACTGGCCCTATCACTGGACTGGCACTCACCTCTGTCAACAAGTTCTGTCTCTAT
GCACTCATAGATCCCACCCATGAGGGCACAGCAGAGGGCATGGAGAACATGGCAGATGCTGTCAACCATGCTCGT
TTTGTGGGCACGGATCCTGCCAGTGATGAAGTTGTCTGATGAAAATCCTTCAGGTTCTACGGACTCTGCTGCTA
ACCCAGTGGGTGCCACCTAACCAATGAATCTGTGTGTGAGATTATGCAGTCTTGCTTCCGGATCTGCTTTGAA
ATGAGGCTCAGTGAGTTATTGAGAAAATCCGCAGAGCACACTCTCGTAGACATGGTGCAGTCTGCTTTCACAAGG
TTACCTCAGTTTAAAGAAGAACCCAAGAACTATGTGGGGACCAACATGAAGAAGCTGAAAATGAGAGCCGGAGGC
ATGAGTGATTATCCAAATGGAAGAAAACAGAAGAGATCCCCTCGGCCCCCACGCCATATGACCAAAAGTCACACCA
GGTTCAGAGCTGCCACTCCCAATGGAACCACTTATCATCTAACCTCACTGGTGGCATGCCCTTCATTGATGTG
CCCCTCCCCTCTCTCTGCAAGTTTCAAGGCTGCCCTCAGCAGTGGTCACTCCCTCTACAGACAGTGGCCTGGAA
TTCTCCTCCCAAACCACTTCCAAGGAAGACCTTACTGATCTAGAGCAACCTGGCTCTCCAGGGTACAGCACAGCT
ACAGAGCCTGGAAGCAGTGAGCTAGGTGTTCCCGAGCAGCCTGACCTCCAGGAAGGGACCCATGTGGAAAAGTCC
CAGTCAGCATCTGTGGAGTCCATCCCTGAAGTGTTAGAGGAGTGCACGTCCCCTGCCGACCACTCTGACTCTGCC
TCTGTCCATGACATGGATTACGTCAATCCCCGGGGCGTGCCTTTACACAGTCTCTCCAGAAAAGGACAGCT
TTGGTCCCCTATGGTCTTCCCTGCATCCGCGAGCTCTTCCGCTTCTCATCTCCCTCACCAATCCACACGACCGC
CATACTCAGAGGTTATGATTACATGGGACTGCATTTGCTGACAGTGGCCCTTGAGTCAGCCCCCTGTAGCCAG
TGCCAGACCTCTTGGGCCTCATCAAGGATGAGATGTGCCGTCACTTATTCCAGCTACTCAGCATAGAGCGACTA
AACCTTTATGCTGCTTCCCTGCGAGTATGCTTCTACTGTTTGAGAGCATGCGAGAGCACCTCAAGTTCCAAATG
GAGATGTACATCAAAAAGCTTATGGAGATCATCACTGTGGAGAACCCCAAGATGCCTTATGAGATGAAGGAGATG
GCACTGGAGGCCATTGTGCAGCTCTGGCGCATCCCCAGCTTTGTACAGAGCTCTACATCAACTATGATTGTGAC
TACTACTGTTCCAACCTCTTTGAGGAACCTACAAAAGCTGCTGTCCAAGAATGCCTTCCCTGTGTCTGGTCAACTC
TATACAACACACCTACTATCTCTTGATGCCCTATTGACAGTGATTGACAGCACCGAGGCCCCACTGCCAGGCTAAA
GTCTCAACAGCCTCACCCAGCAAGAGAAGAAGGAGACAGCCAGACCAAGCTGTGAGATAGTAGATGGCACCCGA
GAAGCTAGCAATACTGAGAGAACTGCCAGCGATGGGAAAGCTGTAGGCATGGCCTCAGACATCCCAGGCCTGCAT
CTGCCAGGTGGAGGGCGGCTGCCACCAGAACATGGGAAATCAGGATGCAGTGATCTGGAGGAAGCTGTTGACTCT
GGGGCTGACAAAAGTTTGCCCGGAAGCCACCCGATTTTCTGTCTCCTGCCAGATCCACGGGAACCTAATTGAA
ATTAACAAACAAAAGAAGCTGCTAATCACTGGCACAGAGCAGTTCAATCAGAAACCAAGAAGGGGATTTCAGTTT
CTGCAAGAGAAAAGGCTCCTCACCATCCCAATGGACAACACAGAGGTTGCTCAGTGGCTCCGAGAGAACCTCGG
CTGGACAAGAAGATGATTGGAGAGTTTGTGAGTGACCGCAAAAACATTGACCTGTTGGAGAGCTTTGTGAGCACC
TTCAGTTTTTCAGGGTCTGCGACTGGACGAAGCCCTCCGCTCTACCTGGAAGCCTTCCGTTTGCCTGGGGAAAGCA
CCAGTCATCCAGAGGTTGCTGGAGGCATTACAGAGCGTTGGATGAATTGTAATGGCTCCCCATTTGCCAATAGC
GATGCCTGCTTTTCCCTGGCCTATGCTGTTCATCATGCTTAATACTGACCAGCACAAACCACAATGTTTCGTAAACAG
AATGCACCCATGACCTGGAGGAGTTTCGCAAAAATCTGAAAGGTGTGAATGGAGGCAAGGACTTTGAGCAAGAC
ATCCTGGAGGACATGTACCATGCCATCAAGAATGAGGAAATTGTAATGCCTGAGGAGCAGACAGGCTTGTTTCGG
GAGAACTATGTGTGAATGTGCTGCTTCATCGAGGTGCCACCCCTGAGGGCATATTCTGCGTGTGCTACTGCC
AGCTATGATCTTGACCTCTTACCATGACCTGGGGCCCCACTATTGCTGCTCTCTCTTATGTCTTTGACAAAAGC
CTTGAGGAGACAATCATCCAGAAAGCCATCTCAGGCTTCAGGAAGTGCGCCATGATCTCCGCCCCACTATGGCCTC
AGCGATGTGTTTGACAATCTCATCTCTCTATGCAAAATTCACAGCTCTCAGCAGTGAGTCTATTGAGAACCTG
CCCAGTGTATTTGGAAGCAACCCTAAAGCCCATATTGCAGCCAAGACAGTATTCCATTTGGCCCCATCGTCATGGT
GACATCCTGCGGGAGGGCTGGAAGAATATCATGGAGGCCATGCTGCAGCTCTTCCGAGCCCAACTACTGCCCAAG
GCTATGATAGAGGTAGAAGATTTCTGTGGATCCCAATGGCAAGATCTCTCTACAGCGGGAAGAGACACCATCAAAC
CGAGGAGAGTCAACAGTGCTGAGCTTTGTGAGCTGGCTAACACTGAGTGGTCTGAGCAGTCTAGTGTTTCGGGGC
CCATCCACTGAAAACCAAGAGGCCAAGAGAGTGGCCTTAGAGTGTATAAAGCAATGTGACCCAGAAAAAATGATC

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FIGURE 3045B

ACAGAAAGCAAGTTCCTCCAGCTGGAGTCACTACAGGAGCTCATGAAGGCTCTGGTCTCAGTGACACCAGATGAA
GAGACATATGATGAGGAAGATGCTGCTTTCTGCCCTAGAGATGCTGCTAAGGATTGTGTTGGAGAACAGGGATCGT
GTGGGCTGTGTGTGGCAGACTGTTTCGAGACCATCTATACCACCTCTGTGTTTCAGGCACAAGATTTCTGCTTCCTT
GTGGAGCGGGCAGTGGTGGGGTTGCTACGCCTGGCCATTTCGGCTTCTCCGGAGAGAAGAGATCAGTGCTCAGGTG
CTGCTCTCCCTGCGCATTTTGTACTGATGAAGCCCAGTGTGCTATCCCGAGTCAGCCACCAGGTTGCGTATGGG
CTCCATGAATCCTGAAGACCAATGCAGCCAACATCCACTCAGGTGATGACTGGGCCACACTCTTCACACTGCTG
GAGTGCATCGGCTCAGGTGTGAAGCCTCCAGTGTCTGTCAGGCCACAGCCAGGGCAGATGCACCTGATGCCGGG
GCCCAGTCAGATAGTGAGCTCCCATCTTACCATCAGAATGACGTGAGCCTGGATCGAGGGTACACTTCCGACTCA
GAGGTCTACACTGACCATGGCAGGCCGGGCAAGATACACCGATCAGCCACAGATGCCGATGTGGTCAACAGTGGT
TGGTTAGTGGTTGGGAAGGATGACGTTGATAACTCCAAGCCAGGGCCCAGCCGCCAGGCCCTTCACCCCTGATC
AATCAATACAGCCTAACAGTGGGACTGGATTTGGGGCCACACGACACTAAGTCTCTGCTTAAGTGTGTGGAATCG
CTGTCCTTCATCGTGCGTGATGCTGCCCCACATCACACCTGACAACCTTTGAGCTCTGCGTCAAGACTCTCCGGATC
TTTGTGGAGGCCAGTCTGAATGGCGGATGCAAGTCCCAGGAGAAACGTGGCAAGAGTCACAAATATGACAGCAAA
GGGAACCGCTTCAAGAAGAAAATCCAAAGAGGGATCAATGCTTCGCCGGCCTCGAACCTCCAGCCAACATGCCTCT
CGGGGCGGGCAGAGTGATGATGATGAGGACGAAGGCGTGCTGCCAGCTACCATACGGTGTCTTTACAGGTGAGT
CAGGACTTGCTAGACCTGATGCACACCTGTCACACGCGGGCAGCCTCTATCTACAGCTCATGGGCGGAGGAGCAA
CGCCACCTGGAGACAGGTGGCCAGAAGATTGAAGCTGATTCTCGCACCTCTGGGCCCACTGCTGGTGGCCTTTA
CTGCAGGGTATTGCCTGCCTGTGCTGCGATGCCCGGCCAGGTACGGATGCAGGCACTGACCTATCTGCAGCGA
GCACTACTTGTACATGATCTGCAAAAGCTAGATGCCCTGGAATGGGAGTCCTGTTTTAACAAGGTGCTGTTTCCT
CTACTTACCAAGCTCTTGGAGAACATCAGCCCTGCAGATGTGGGTGGGATGGAGGAGACCCGGATGAGGGCTTCC
ACATTGCTCTCTAAGGTCTTCCTGCAGCACCTGTCTCCACTGCTGTCACTCTCTACCTTTGCGGCCCTCTGGCTC
ACCATCTTGGACTTCATGGACAAGTACATGCACGCAGGCTCCAGCGACTTACTGTCAGAGGCGATCCCTGAGTCT
CTGAAGAACATGCTTCTGGTGTGGACACAGCGGAGATTTTCCACAGTGCAGATGCACGGGGAGGCGGCCCTCG
GCCCTCTGGGAGATCACCTGGGAACGCATTGACTGTTTTCTCCCTCACCTACGAGATGAACTCTTCAAGCAGACC
GTCATCCAGGACCCCATGCCCATGGAGCCTCAAGGCCAAAAGCCTCTCGCCTCAGCCCACCTGACTTCCGCTGCT
GGCGACACTAGGACACCTGGCCATCCACCGCCCCCAGAGATTCCATCTGAGCTGGGGCCCTGTGACTTTGAGAAG
CCCGAGAGCCCCGAGCCGCCAGCAGCAGCTCCCCAGGATCACCAAGTGGCCTCAAGCCCCAGCAGGCTGAGCCCC
ACCCCCGACGGGCCTCCACCCTTGGCTCAGCCCCCACTGATCCTGCAGCCCTTGGCCTCCCCACTGCAGGTGGGC
GTGCCACCTATGACTCTGCCCATCATCCTCAACCCTGCGCTCATCGAGGCCACCTCACCAGTGCCCCCTCTGGCC
ACACCCCGCCCCACAGATCCCATACCCACCTCTGAGGTCAACTAAGGCAGGTCACTCAGAGATCAGGACCAGTGC
TTCCACAGGCTTTCTTGGACCCCACTTCTGGCTGTCTGCGGGCCACAAGCTCTTCAGGCCAAGTCAGAGCTG
CTGTTGCTGCCACTTGGATGGGGACCTGAAAAAGAGAATGTTGATAGCCCCAGCTAAGACCCCAATCAGCTGTG
GGACCTTTTTCTCTCTGCGCTCCATTCTGGGGTTTACGCTGAGAGTGAATCAGCTGTCTATCTGCAGCCTC
TGCCTCCAGCCCGGCAGCTCTGGGGAGGCATCCGTGTGCCGGCCCTGCAGTGCCTGCCCACGGTCAGGCATTGAA
AACTAAGCCCAACCACTCTGCACTTTGTTTCCCACTCCCATTAGCCCTGGGCCACCTCCTCCAGTTCTTCTCTT
TTACTAATTAGTTGGTCAAGTTTGGAGAGTTGACTGGCACCATGGAGGGTAGGCAGGTGGGGGCTGGGTGGGGGAC
TGCCACAGGAGCATGTACATATGAAAAACAGAACAACAGTGGACTTTTTATGATATAATAAATGTCTTAGTAC
C

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FIGURE 3046

MVDKNIYIIQGEINIVVGAIKRNARWSTHTPLDEERDPLLHSFGHLKEVLNSITELSEIEPNVFLRPFLEVIRSE
DTTGPIITGLALTSVNKFLSYALIDP THEGTAEGMENMADAVTHARFVGTD PASDEVVLMKILQVLR TLLTPVGA
HLTNESVCEIMQSCFRICFEMRLSELLRKS AEHTLVDMVQLLFTRL PQFKEEPKNYVGTNMKKLKM RAGGMSDSS
KWKKQKRSRPPRRHMTKVTPGSELPTPNGTTLSSNL TGGMPIFIDVPTP ISSASSEAA SAVVSPSTD SGLFSSQT
TSKEDLTDL EQPGSPGYSTATEPGSSELGVPEQPD LQEGTHVEKSQSASVESIPEVLEE CTSPADHSDSASVHDM
DYVNPRGVRFTQSSQKEGTALVPYGLPCIRELFRFLISLTNPHDRHNSEVMIHMGHLHLLTVALESAPVAQCQTLL
GLIKDEMCRHLFQLLSIERLNL YAASLRVCFLLFESMREHLKFQMEMYIKKLMEIITVENPKMPYEMKEMALEAI
VQLWRIPSFVTELYINYDCDYCSNLFEELTKLLSKNAFPVSGQLYTTLLSLDALLTVIDSTEAH CQAKVLNSL
TQQEKKETARP SCEIVDGTREASNTERTASDGKAVGMASDIPGLHLPGGGRLPPEHGKSGCSDLEEAVDSGADKK
FARKPPRFSCLLPDPRELIEIKNKKLLITGTEQFNQKPKKGIQFLQEKGLLTIPMDNTEVAQWLRENPRLDKKM
IGEFVSDRKNIDLLESFVSTFSFQGLRLDEALRLYLEAFRLPGEAPVIQRLLEAFTERWMNCNGSPFANS DACFS
LAYAVIMLNTDQHNNHNRKQNA PMTLEEFRKNLKG VNGGKDFEQDILED MYHAIKNEEIVMP EEQTGLVRENYVW
NVLLHRGATPEGIFLRVPTASYDLDTMTWGPTTAA LSYVFDKSLEETIIQKAISGFRKCAMISAHYGLSDVFD
NLIISLCKFTALSSESIENLP SVFGSNPKAHIAAKTVFHLAHRHGDILREGWKNIMEAMLQLFRAQLLPKAMIEV
EDFVDPNGKISLQREETPSNRGESTVLSFVSWLTLSGPEQSSVRGPSTENQEAKRVALECIKQCDPEKMI TESKF
LQLESLQELMKALVSVTPDEETYDEEDAAFCLEMLLRIVLENRDRVGC VQTVRDHLYHLCVQAQDFCFLVERAV
VGLRLRLAIRLLRREEISAQVLLSLRILLMLKPSVLSRVSHQVAYGLHELLKTNAANIHS GDDWATLFTLLECIGS
GVKPPAALQATARADAPDAGA QSDSELPSYHQNDVSLDRGYTSDSEVYTDHGRPGKIHRSATDADV VNSGWL VVG
KDDVDNSKPGPSRPGPSPLINQYSLTVGLDLGPHDTKSLLKCVESLSFIVRDAAHITPDNFELCVKTLRIFVEAS
LNGGCKSQEKRGKSHKYDSKGNRFKKKSKEGSMLRRPRTSSQHASRGGQSD DDEDEGVPA SYHTVSLQVSQD LLD
LMHTLHTRAASIYSSWAE EQRHLETGGQKIEADSRTLWAHCWCPLLQGIACLCCDARRQVRMQALTYLQ RALLVH
DLQKLDAL EWESCFNKVLFPLLTKLLENISPADVGGMEETRMRASTLLSKVFLQHLSP LLSLSTFAALWLTILDF
MDKYM HAGSSDLLSEAIPE SLKNMLLVMDTAEIFHSADARGGGSALWEITWERIDCF LPHLRDEL FKTQTVIQDP
MPMEPQGGKPLASAHLTSAAGDTRTPGHPPPPEIPSELGACDFEKPES PRAASSSSPGSPVASSPSRLSPTPDGP
PPLAQPP LILQPLASPLQVGVPMTLP IILNPALIEATSPVPLLATPRPTDPIPTSEVN

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FIGURE 3047

CTCGTTGGTGGGGCTGGGGGATGAGAGCTGCACCGCGCGGGACAAGTCGCCGGCGGGCGCCCGACGGAGCAGAAGA
GAGAGC**ATG**GAGCTGGAGAGGATCGTCAGTGCAGCCCTCCTTGCCTTTGTCCAGACACACCTCCCGGAGGCCGAC
CTCAGTGGCTTGGATGAGGTCATCTTCTCCTATGTGCTTGGGGTCCTGGAGGACCTGGGCCCCCTCGGGCCCATCA
GAGGAGAACTTCGATATGGAGGCTTTCACTGAGATGATGGAGGCCTATGTGCCTGGCTTCGCCCACATCCCCAGG
GGCACAATAGGGGACATGATGCAGAAGCTCTCAGGGCAGCTGAGCGATGCCAGGAACAAAGAGAACCTGCAACCG
CAGAGCTCTGGTGTCCAAGGTCAGGTGCCCATCTCCCCAGAGCCCCCTGCAGCGGCCCCGAAATGCTCAAAGAAGAG
ACTAGGTCTTCGGCTGCTGCTGCTGCAGACACCCAAGATGAGGCAACTGGCGCTGAGGAGGAGCTTCTGCCAGGG
GTGGATGTACTCCTGGAGGTGTTCCCTACCTGTTTCGGTGGAGCAGGCCCACTGGGTGCTGGCCAAAGCTCGGGGG
GACTTGGAAGAAGCTGTGCAGATGCTGGTAGAGGGAAAGGAAGAGGGGCCTGCAGCCTGGGAGGGCCCCAACCCAG
GACCTGCCCAGACGCCTCAGAGGCCCCCAAAAGGATGAGCTGAAGTCCTTCATCCTGCAGAAGTACATGATGGTG
GATAGCGC**ATAG**TATCAGAAGATTACCGGCCCCATGGCTCCCAAGGAGGCCCCCAAGAAGCTGATCCGATACATC
GACAACCAGGTAGTGAGCACCAAAGGGGAGCGATTCAAAGATGTGCGGAACCCTGAGGCCGAGGAGATGAAGGCC
ACATACATCAACCTCAAGCCAGCCAGAAAAGTACCGCTTCCATTGAGGCACTCGCCGGACTCTGCCCCAGCCTTCT
AGGCTCAGATCCCAGAGGGATGCAGGAGCCCTATACCCCTACACAGGGGCCCCCTAACTCCTGTCCCCCTTCTCT
ACTCCTTTGCTCCATAGTGTTAACCTACTCTCGGAGCTGCCTCCATGGGCACAGTAAAGGTGGCCCAAGGAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 3048

MELERIVSAALLAFVQTHLPEADLSGLDEVIFSYVLGVLEDLGPSGPSEENFDMEAFTMEMEAYVPGFAHIPRGT
IGDMMQKLSGQLSDARNKENLQPQSSGVQGQVPI SPEPLQRPEMLKEETRSSAAAAADTQDEATGAEELLP
VLLVVFPTCSVEQAQWVLAKARGDLEEAVQMLVEGKEEGPAAWEGPNQDLPRRLRGPQKDELKSFILQYMMVDS
A

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FIGURE 3049

GC GCTAGCGGCGGACCCGGCTGGGCAGTTCTTCCCCAGAAGGAGAGATTCTCTGCC**ATG**GAGTCCTACGATGT
GATCGCCAACCAGCCTGTCTGATCGACAACGGATCCGGTGTGATTAAAGCTGGTTTTGCTGGTGATCAGATCCC
CAAACTACTGCTTTCCAACTATGTGGGCGGACCCAAAGCACGTTCTGTGTCATGGCAGGAGCCCTTGAAGGCGACAT
CTTCATTGGCCCCAAAGCTGAGGAGCACCGAGGGCTGCTTTCAATCCGCTATCCCATGGAGCATGGCATCGTCAA
GGATTGGAACGACATGGAACGCATTTGGCAATATGTCTATTCTAAGGACCAGCTGCAGACTTTCTCAGAGGAGCA
TCCTGTGCTCCTGACTGAGGCGCCTTTAAACCCACGAAAAACCGGGAACGAGCTGCCGAAGTTTTCTTCGAGAC
CTTCAATGTGCCCGCTCTTTTCATCTCCATGCAAGCTGTACTCAGCCTTTACGCTACAGGCAGGACCACAGGGGT
GGTGCTGGATTCTGGGGATGGAGTCACCCATGCTGTGCCCATCTATGAGGGCTTTGCCATGCCCCACTCCATCAT
GCGCATCGACATCGCGGGCCGGGACGTCTCTCGCTTCTGCGCTCTACCTGCGTAAGGAGGGCTACGACTTCCA
CTCATCTCTGAGTTTGAGATTGTCAAGGCCATAAAAGAAAGAGCCTGTTACCTATCCATAAAACCCCCAAAAGGA
TGAGACGCTAGAGACAGAGAAAGCTCAGTACTACCTGCCTGATGGCAGCACCATTGAGATTGGTCTTCCCATT
CCGGGCCCCCTGAGTTGCTCTTCAGGCCAGATTTGATTGGAGAGGAGAGTGAAGGCATCCACGAGGTCTTGGTGT
CGCCATTGAGAGTCAGACATGGACCTGCGGCGCACGCTTTTCTCTAACATTGTCTCTCAGGAGGCTCTACCT
GTTCAAAGGTTTTGGTGACAGGCTCCTGAGTGAAGTGAAGAACTAGCTCCAAAAGATGTGAAGATCAGGATATC
TGCACCTCAGGAGAGACTGTATTCCACGTGGATTGGGGGCTCCATCCTTGCCTCCCTGGACACCTTTAAGAAGAT
GTGGGTCTCCAAAAGGAATATGAGGAAGACGGTGCCCGATCCATCCACAGAAAAACCTTCT**TAAT**GTTCGGGACAT
CATCTTCACTCTCTCTGAAGTTAACTCCACTTTAAAACTCGCTTTCTTGAGTCGGAGTGTGTCGAGGAAGTGC
CTGTGTGTGAGTGCGTGTGTGGATATGAGTGTGTGTGCACATGCGAGTGCCGTGTGGCCCTGGGACCTGGGCCC
AGAAAGGACGATGAACTACCTGCAGTGGTGATGGCCTGAGGCCCTGGGGTTGACCACTAACTGGCTCCTGACAGGG
AAGAGCGCTGGCAGAGGCTGTGCTCCCTCCTCAGGTGGCCTCTGGCTGGCTGTGGGGGACTCCGTTTACTACCAC
AGGGAGACAGAGGGAGGTAAGCCATCCCCGGGAGACCTTGCTGCTGACCATCCTAGGCTGGGCTGGCCCCACCC
TCACCCCCACCCCCAGGGTGCCCTGAGGCCCCAGGCAGCTGCTGCCTCCACTATCGATGCCTCCTGACTGCACAC
TGAGGACTGGGACTGGGGTTGAGTTCTGTCTGGTTTTGTGCCATTTTGTTTTGGGAGGCTGGAAAAGCACCCCCA
AGAGCTATTACAGAGACTGGAGTCAGGAGAGAGCAGGAGGCCCTCATGTTTACCAGGGAACAGGACCACACCGGC
CACTGGAGGAGGGCAGGAGCAGTCCTCACTCTGAATGGCTGCAGAGTTAATGTTCCAGCCCAGTCCCCTTTTCGG
GGGCTTTGGGAGAGTTTAAGGCACCTGCTGGTTCCAGGACCTCGCTTTCCATCTGTTCTTGTGCAATGCCATCT
TCAAACCGTTTTATTATTGAAGTGTGTTGTTTCAAGTTAGGGGCTGGAGAGAGGGAGCTTGCTGCCTCCTGCCTTGC
TACACTAATGTTTACAGCACCTAAGCTTAGCCTCCAGGGCCCCACCTCTCCAGCTGATGGTGAGCTGACAGTGT
CCACAGGTTCCAGGACCATTTGAGATTGGAAGCTACACTCAAAGACACTCCCACCAGGCTCTTTCTCCCTTTTCC
TCTTGCTCACTGCCCTGGAATCAACAGGCTGGTTGCTGGTTAGATTTTCTGAAACAGGAGGTAAATTTTTCTTT
GGCAGAGGCCCCTAAGCAAGGGAGGGGTGTTGGAGAGCCAGTGCCCTTAAGACTGGAGAAAGCTGCAATTTACCA
AGTTGCCTTTTGCCACTGTAGCTGACCAGGGGACTAGGTTGTAGAGGTGGGAAGGCCCCCTCTGGGCTGATCTTG
TGCCATTCTTGACCTTGACCTGCTTGTTAAGGAGGGAGTGGGCCAGACCAGAGTGCCAGGAGCTAATGGAGCC
AGGCCTGACTCCTAGGAGTGGTCCAAAGGCCTTCAGCCTAGATGGTGCAAAGCTGGGGCCAGCCTGTCTTACCCG
GCACCTCACCTGTGACACCAAGACCCACCCCAATCCAGACTTCACACAGTATTCTCCCCACGCCGTCTATG
ACCAAAGGCCCCCTGCCAGGTGTGGGCCACAGCAGCAGGTATGTGTGAAAGCAACGTAGCGCCCCGCGGACTGCAG
TGCGCTTAACCAACTACCTCCCTTCTCTTAGCCCAAGCCTGTCCCTCGCACAGCCTCGCACAAACCACATTGCC
TGGTGGGGCCAGTGTACTGAAATAAAGTCGTTCCGATAGACACGTC

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FIGURE 3050

MESYDVIANQPVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVVRVMAGALEGDIFIGPKAEEHRGLLSIRYPM
EHGIVKDWNEMERIWQYVYSKDQLQTFSEEHVLLTEAPLNPRKNRERAAEVFFETFNVPALFISMQAVLSLYAT
GRTTGVLDSGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRLRLYLRLKEGYDFHSSSEFEIVKAIKERACYLS
INPQKDETLETEKAQYYLPDGSTIEIGPSRFRAPPELLFRPDLIGEESEGIHEVLVFAIQSDMDLRRTLF SNIVL
SGGSTLFKGFGDRLLSEVKKLAPKDVKIRISAPQERLYSTWIGGSILASLDTFKKMWVSKKEYEEDGARS IHRKT
F

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FIGURE 3051A

CGCCGTGCGCAGGCGCGGAGCTAGACCTCGCTGCAGCCCCCATCGCCTCGGGGAGTCTCACCACCCGAGTCCGCC
CGCTGGCCCGTCAGTGCTCTCCCCGTCGTTTGCCCTCTCCAGTTCCCCCAGTGCCCTACGCACCCCGATGG
CGGAGCTGCGGCCTAGCGGCGCCCCCGGCCCCACCGCGCCCCCGGGCCCTGGCCCCGACTGCCCCCGGCCTTCG
CTTCGCTCTTTCCCCCGGGACTGCACGCCATCTACGGAGAGTGCCGCCGCTTTACCCTGACCAGCCGAACCCGC
TCCAGGTTACCGCTATCGTCAAGTACTGGTTGGGTGGCCAGACCCCTTGGAATATGTTAGCATGTACAGGAATG
TGGGAGCCCTTCTGCTAACATCCCCGAGCACTGGCACTACATCAGCTTCGGCCTGAGTGATCTCTATGGTGACA
ACAGAGTCCATGAGTTTACAGGAACAGATGGACCTAGTGTTTTGGCTTTGAGTTGACCTTTCGTCTGAAGAGAG
AAACTGGGAGTCTGCCCCACCAACATGGCCCGCAGAGTTAATGCAGGGCTTGGCACGATACGTGTTCCAGTCAG
AGAACACCTTCTGCAGTGGGGACCATGTGTCCTGGCACAGCCCTTTGGATAACAGTGAGTCAAGAATTTCAGCACA
TGCTGCTGACAGAGGACCCACAGATGCAGCCCGTGACAGACCCCTTTGGGGTAGTTACCTTCCTCCAGATCGTTG
GTGCTGCTGCACTGAAGAGCTACACTCAGCCCGAGCAGTGGAAACGGGCAGGGCATCCTGGAGCTGCTGCGGACAGTGC
CTATTGCTGGCGGCCCTTGCTGATAACTGACATGCGGAGGGGAGAGACCATAATTGAGATCGATCCACACCTGC
AAGAGAGAGTTGACAAAGGCATCGAGACAGATGGCTCCAACCTGAGTGGTGTGAGTGCCAAAGTGTGCTGGGATG
ACCTGAGCCGGCCCCCGAGGATGACGAGGACAGCCGGAGCATCTGCATCGGCACACAGCCCCGGCGACTCTCTG
GCAAAGACACAGAGCAGATCCGGGAGACCCCTGAGGAGAGGACTCGAGATCAACAGCAAACCTGTCCTTCCACCAA
TCAACCCTCAGCGGCAGAATGGCCTCGCCACGACCGGGCCCCGAGCCGCAAAGACAGCCTGGAAAGTGACAGCT
CCACGGCCATCATTCCCCATGAGCTGATTGCGACGCGGCAGCTTGAGAGCGTACATCTGAAATTCAACCAGGAGT
CCGGAGCCCTCATTCTCTCTGCTAAGGGGCAGGCTCCTGCATGGACGGCACTTTACATATAAAAGTATCAGAG
GTGACATGGCCATCACGTTTGTCTCCACGGGAGTGGAAGGCGCCTTTGCCACTGAGGAGCATCCTTACGCGGCTC
ATGGACCCTGGTTACAAATTCTGTTGACCGAAGAGTTTGTAGAGAAAATGTTGGAGGATTTAGAAGATTTGACTT
CTCCAGAGGAATTCAAACTTCCCAAAGAGTACAGCTGGCCTGAAAAGAAGCTGAAGGTCTCCATCTGCTGACG
TGGTGTTCGACAGTCCGCTACACTAGCCTGGGCTGGGCCCTGCAGGGGCCAGCAGGGAGCCCAGCTGCTCCCCAG
TGACTTCCAGTGTAACAGTTGTGTCAACGAGATCTCCACAAATAAAAGGACAAAGTGTGAGGAAGACTGCGCAGTG
CCACCCCGCAGCCAGTGGGGTGCCATGCACAGGCCACAGGCCCTCCACCTCACCTCCAGCTCAGGGGGCCGCACC
CCGCCGCTGGCTAAGCCTTGTGACCCATCAGGCCAGTGAGTGGGCAAATGCGGACCCTCCCTGCCTGCAGCCTGC
ACAGATTCTGGTTTGGAGTTTGACTCTGGACCCTGGCTGTGCCCTAGGTGGAGACAGCCCTCTTTCTACCTAC
CCCCTGCCGCACAGCCAGCAGGGAGGGAGCGGACAGCCAGATGCAGAGCGAGTGGATGCATTCCAGCTCATC
TCTGGAAGCCTTTGCTACTCAAGCTCCTCTGGCCGCGGAACAATTCTCTGATCATGTTTGGTTTTCTTCTTCT
TATTTTATTTTGTAGAAACCGGGTGGTATTTTATTGCTCTGCAAAGATGTCCAGAAGCCATGTATATAATGTTTT
TTAAACAGAACTTCATTCCCCGTTGAACTTTCGCATTCTCTGACAGAGGCCCTAGGGCTGTATCTCTCCCTGGGCT
GCCACCAGAGAAGGTGCTTGGTGTTCGCTGCCAGCCAGAGCCCTGGAGGAGCCGGCTGCACAGAGAGGCTTTT
CTTCCAGCTGGGCCTGATGGAGCCCCGGGGCAGGGGAGAGTAGAGACACTCCCTTGTGCAGCTTTGAGCCTAGT
TTAGCTGGGGCCAGGGAGGGGTGCTACTGTTTTCCAAGTGAATGGGTCTCAAAGACTGGTGACCCAGCCTCAT
CTTCTAGGCCTTTTCCATCCAACCAGGCCTACCTGGGAGAGGGTGAGGTTTCAGCACATCACACACCATCCCCACT
GTCATTACAGGGCCTGGGTCTCCAGCTCTGTAACCAGTCTGTCCCATTCTCTCAGTCCCTGGGCCTCCCAGCCTT
CAGGCTGTAGGGCTGCCTTACTAAAATTGAAAAATCCACCTCTTAACATCTCTTCACTTTGGTTTTGCTAACAC
TGCTCTCTGCTGCCCTCCCATCCTCCCTGTATCCATTTCATGCCCTATCTTTCATTCTCCACTCCTAATCCCTCTC
CTTTCTGGCATCCTGGCCTCTCGTGGTCTCAGCCCTCACCCCCAGTACTGCAGATCTCACAGTTTGCCTTCCA
GAAGCCAGCCTATCTCTAGCCCATGGTTTTGGAGTTCTCTCGGGTTATCTCCACGCCCTGACCTGGAACCAGCA
AGCCCCCTTTCTGCTTCTTACCCCCAACTCTAGGGATGGGACTGTTACAATACTTCAAGATCACTCTTTACACC
TCTTCAAAGCAAAGTCATGACAATGCAGGGCTCCTCATTGCTCCCATCTGCCTCTGCTGCACACACAGGCACCAG
CAGGGATGCCACAGGAGTGCCACAGGGTGACAGGACTCCACTGATGAGAGATCCAGCCAAAGAGCTGCCCCCAGG
GGTATGAGGGCACAGCTGGGTCTCCAGGGAGCAGGAGTTGGACCTCCATGGAGCCACTAGGCCTGGCCTCCTC
TACACATCCCCAGGGCTATCTGGTTAATTCCATCAAGCTCAGAGTTAAAAGGCATATCAGCCTGGAGTATTTGGG
AGAGACTGGCTGCAGATCCCCGCCAGCCAAGATGCAAGCCACTCGGGACCTGATGTCGGCAGCTGTGCCTCTACT
GCCCTGAGGACTTACCAGAGGGAGCCCTACTGGCCTTCCCCACCACAGCAGCCCTGCCTGTGAAGCTCTTGTTT
CTGACATTTACAGGCAGAGAGGTGCCATCAGTTGCCTCCATTCTTCCACCATGACCAGCCTCTCCCTGAAC
TCTCTTTGCTCGGGACCTGCCTGAGGGCTCCCTGCTGCAGTTCCCGTACTTCCATCTGCTGGGTGCCTCCATC

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FIGURE 3051B

GTTGGTTGGGTGGGGATGGGGCATTCTTGAGCTAAGCTTTGTCATTAGTTTGTGAAGCACCTGGTCAGCAACCT
GCCCCAGACCTGGAGGGTCTTTGTGGACTGAAGGTAGACACCAGCCAGCATGGTGGCCCTGTTCTGGGGGAGCAG
GGTAAGGCAGGAGGAAGTGGGTGAGCTCCGAGATGATGAGCACATGAAGCCTGTGGCCCTTCGTACCTGCAATA
TGTCAGGAGCCTCACGCTCACCCAAGATCCTGCAGGGGCCAGGCTCCATCTCACTGGCTCTGAGGGCAGGACAGG
GTATCACACATTTCTCACCAGGCCTCCTTTCCCTATGGGCATTGGTGCCTCCCAGAGGTTTCTTGGGCTGCTGGCT
GGTGAGAGAGGACCCTTAAAGAAGATCAAGCCAAGCTGACCTTGGACCCTGTCCAGCACAGCTTCTGGCACAGGA
TGCTTGGTGAATGTACCCTTTCTTTCCCTCCCTGCAGCTCTGAGGGAGCCCTGACCTTGTAGTGGGTGGAGGAG
GTAAGGGGCCTCCCTCCCTAAATCTGCCTCTTCTGCAAGCTACTTGGAGACTTGCTTAGTTGTACCCACCCCTCC
AGGTCCCTGGTGTCTAGAGCTTCTGAGAAGGGCCTTTCCCTTTCTCTTTGCCTGCTATATAAGGCAGGCTCCTGT
GGCTCTGCTGGCTCAGTGTGGGCTGCAGGAGGACTGCAGACTCAGCTGCAATTCTGAGGGGGGTTTGGGAGGCTT
GTGCGAGGTCTCAGGCCTGTGTGGGGAGCTGGTGCCTCTTCCCTGCCCGTATCTTTCTCTTCCAAGGGCAGTGCTC
CAAGGCAGGGACTGGAGAAGCCAAGGGGAGAGTCTAAAAGGGCTAGAGCATTTTTAAAAATAGACACAGGGTCTT
GGGACTGGGGTTTCGGATTGAGTTGCAAGCAGGGAGAAAACCTGAAGGTCGGTGCCCCCTATGGGGCTGACCAGTA
GAGAATTTCTTTACTGTATTTTTGTGTCTGGTCTTCCCTTTCTGGCTTCTAGGACATCCATGCCAGGTGAGGTG
CCTGGGTCCCTGTTACAAGTCAGGAGCCCTGTAGGGAGACCCCTCCTTTTGTACAAGTACCTGAATGCTGCGACA
AGCAGATTTTTGTAAAATTTTATATTAGTTTTTAATGTCAGTGGCGACTCGGTTCCCTGGGGCTGCAGCCAGCCTG
GGACTTTTGTAGAATTTTTGGGTGACTCACTTAGATGTCGTTTCCTTCTTGCCCCCTCTTCCCTCTCTGTAATCT
AAGTGCATTAAACATCTTTGCAG

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FIGURE 3052

MAELRPSGAPGPTAPPAPGPTAPPAFASLFPPGLHAIYGECCRLLYPDQPNPLQVTAIVKYWLGGPDPLDYVSMYR
NVGSPSANIPEHWHYISFGLSDLYGDNRVHEFTGTDGPSGFGFELTFRLKRETGESAPPTWPAELMQGLARYVFQ
SENTFCSGDHVSWHSPLDNSESRIQHMLLTEDPQMOPVQTPFGVVTFLLQIVGVCTEELHSAQQWNGQGILELLRT
VPIAGGPWLITDMRRGETIFEIDPHLQERVDKGIETDGSNLSGVSAKCAWDDLSREPEDDEDSRSICIGTQPRRL
SGKDTEQIRETLRRGLEINSKPVLPPIPNQRQNGLAHDRAPSRKDSLESDSSTAIIPHELIRTRQLESVHLKFNQ
ESGALIPCLCLRGRLHGRHFTYKSITGDMAITFVSTGVEGAFATEEHYPYAAHGFWLQILLTEEFVEKMLEDLEDL
TSPEEFKLPKEYSWPEKKLKVSIPLDVVFDSPH

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FIGURE 3053

AGCAGCGGCGGGGGCCCGAGGGATTCTGAAGGAAGATTTCCATTAGGTAATTTGTTTAAATCAGTGCAAGCGAAAT
TAAGGGGAAA**ATGG**ATGTAGAAAATGAGCAGATACTGAATGTAAACCCTGCAGATCCTGATAACTTAAGTGACTCT
CTCTTTTCCGGTGATGAAGAAAATGCTGGGACTGAGGAAATAAAGAATGAAATAAATGGAAATTGGATTTCAGCA
TCCTCCATTAAACGAAGCTAGAATTAATGCCAAGGCCAAAAAGGCGACTAAGGAAAAACTCATCCCGGGACTCTGGC
AGAGGCGATTTCGGTCAGCGACAGTGGGAGTGACGCCCTTAGAAGTGGATTAACTGTGCCAACCAAGTCCAAAGGGA
AGGTTGCTGGATAGGCGATCCAGATCTGGGAAAGGAAGGGGACTACCAAAGAAAGGTGGTGCAGGAGGCAAAGGT
GTCTGGGGTACACCTGGACAGGTGTATGATGTGGAGGAGGTGGATGTGAAAGATCCTAACTATGATGATGACCAG
GAGAACTGTGTTTATGAACTGTAGTTTTGCCTTTGGATGAAAGGGCATTGAGAAGACTTTAACACCAATCATA
CAGGAATATTTTGAGCATGGAGATACTAATGAAGTTGCGGAAATGTTAAGAGATTTAAATCTTGGTGAAATGAAA
AGTGGAGTACCAGTGTTGGCAGTATCCTTAGCATTGGAGGGGAAGGCTAGTCATAGAGAGATGACATCTAAGCTT
CTTTCTGACCTTTGTGGGACAGTAATGAGCACAACTGATGTGGAATAATCATTGATAAATTGTTGAAAGATCTA
CCTGAATTAGCACTGGATACTCCTAGAGCACCACAGTTGGTGGGCCAGTTTATTGCTAGAGCTGTTGGAGATGGA
ATTTTATGTAATACCTATATTGATAGTTACAAAGGAAGTGTAGATTGTGTGCAGGCTAGAGCTGCTCTGGATAAG
GCTACCGTGCTTCTGAGTATGTCTAAAGGTGGAAAGCGTAAAGATAGTGTGTGGGGCTCTGGAGGTGGGCAGCAA
TCTGTCAATCACCTTGTTAAAGAGATTGATATGCTGCTGAAAGAATATTTACTCTCTGGAGACATATCTGAAGCT
GAACATTGCCTTAAGGAAGTGAAGTACCTCATTTTCACCATGAGCTTGTATATGAAGCTATTATAATGGTTTTA
GAGTCAACTGGAGAAAGTACATTTAAGATGATTTTGGATTTATTAAAGTCCCTTTGGAAGTCTTCTACCATTACT
GTAGACCAAATGAAAAGAGGTTATGAGAGAATTTACAATGAAATTCGGACATTAATCTGGATGTCCACATTCA
TACTCTGTGCTGGAGCGGTTTGTAGAAGAATGTTTTCAGGCTGGAATAATTTCCAAACAACCTCAGAGATCTTGT
CCTTCAAGGGGCAGAAAGCGTTTTGTAAGCGAAGGAGATGGAGGTCGTCTTAAACCAGAGAGCTACT**TGAA**TATAA
GAACTCTTGCAGTCTTAGATGTTATAAAAAATATATATCTGAATTGTAAGAGTTGTTAGCACAAAGTTTTTTTTTT
TTTTTTTTTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTT

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FIGURE 3054

MDVENEQILNVNPADPDNLSDSLFSGDEENAGTEEEKNEINGNWISEASSINEARINAKAKRRLRKNSSRDSGRGD
SVSDSGSDALRSGLTVPTSPKGRLLDRRSRSGKGRGLPKKGGAGGKGVWGTPGQVYDVEEVDVKDPNYDDDQENC
VYETVVLPLDERAFEKTLTPIIQEYFEHGDNEVAEMLRDLNLGEMKSGVPVLAVSLALEGKASHREMTSKLLSD
LCGTVMSTTDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGILCNTYIDSYKGTVDVCVQARAALDKATV
LLSMSKGGKRKDSVWGSQQSVNHLVKEIDMLLKEYLLSGDISEAEHCLKELEVPHFHHELVYEAIIMVLEST
GESTFKMILDLLKSLWKSSTITVDQMKRGYERIYNEIPDINLDVPHSYSVLERFVEECFQAGIISKQLRDLCP
SRGRKRFVSEGDGGRLKPESY

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FIGURE 3055

ATGCCTCCAAAGGTGACTTCAGAGCTGCTTCGGCAGCTGAGACAAGCCATGAGGAACTCTGAGTATGTGACCGAA
CCGATCCAGGCCTACATCATCCCATCGGGAGATGCTCATCAGAGTGAGTATATTGCTCCATGTGACTGTGCGCGG
GCTTTTGTCTCTGGATTTCGATGGCTCTGCGGGCACAGCCATCATCACAGAAGAGCATGCAGCCATGTGGACTGAC
GGGCGCTACTTTCTCCAGGCTGCCAAGCAAATGGACAGCAACTGGACACTTATGAAGATGGGTCTGAAGGACACA
CCAATCAGGAAGACTGGCTGGTGAGTGTGCTTCCTGAAGGATCCAGGGTTGGTGTGGACCCCTTGATCATTCCT
ACAGATTATTGGAAGAAAATGGCCAAAGTTCTGAGAAGTGCCGGCCATCACCTCATTCCTGTCAAGGAGAACCTC
GTTGACAAAATCTGGACAGACCGTCTGAGCGCCCTTGCAAGCCTCTCCTCACACTGGGCCTGGATTACACAGGC
ATCTCCTGGAAGGACAAGGTTGCAGACCTTCGGTTGAAAATGGCTGAGAGGAACGTCATGTGGTTTGTGGTCACT
GCCTTGGATGAGATTGCGTGGCTATTTAATCTCCGAGGATCAGATGTGGAGCACAAATCCAGTATTTTTCTCCTAC
GCAATCATAGGACTAGAGACGATCATGCTCTTCATTGATGGTGACCGCATAGACGCCCCCAGTGTGAAGGAGCAC
CTGCTTCTTGACTTGGGTCTGGAAGCCGAATACAGGATCCAGGTGCATCCCTACAAGTCCATCCTGAGCGAGCTC
AAGGCCCTGTGTGCTGACCTCTCCCCAAGGGAGAAGGTGTGGGTGAGTGACAAGGCCAGCTATGCTGTGAGCGAG
ACCATCCCCAAGGACCACCGCTGCTGTATGCCTTACACCCCCATCTGCATCGCCAAAGCTGTGAAGAATTCAGCT
GAGTCAGAAGGCATGAGGCCGGCTCACATTAAAGATGCTGTTGCTCTCTGTGAACCTCTTAACTGGCTGGAGAAA
GAGGTTCCCAAAGGTGGTGTGACAGAGATCTCAGCTGCTGACAAAGCTGAGGAGTTTCGAGGCAACAGGCAGAC
TTTGTGGACCTGAGCTTCCCAACAATTTCCAGTACGGGACCCAACGGCGCCATCATTCACTACGCGCCAGTCCCT
GAGACGAATAGGACCTTGTCCCTGGATGAGGTGTACCTTATTGACTCGGGTGCTCAATACAAGGATGGCACCACA
GATGTGACGCGGACAATGCATTTTGGGACCCCTACAGCCTACGAGAAGGAATGCTTCACATATGTCCTCAAGGGC
CACATAGCTGTGAGTGCAGCCGTTTTCCGACTGGAACCAAAGGTCACCTTCTTGACTCCTTTGCCCGTTCAGCT
TTATGGGATTACAGGCCTAGATTACTTGACGCGGACTGGACATGGTGTGGGTCTTTTTTGAATGTCCATGAGGGT
CCTTGCGGCATCAGTTACAAAACATTCTCTGATGAGCCCTTGGAGGCAGGCATGATTGTCACTGATGAGCCCGGG
TACTATGAAGATGGGGCTTTTGGAAATTCGCATTGAGAATGTTGTCCTTGTGGTTCCTGTGAAGACCAAGTATAAT
TTTAATAACCGGGGAAGCCTGACCTTTGAACCTCTAACATTGGTTCCAATTCAGACCAAATGATAGATGTGGAT
TCTCTTACAGACAAAGAGTGCAGCTGGCTCAACAATTACCACCTGACCTGCAGGGATGTGATTGGGAAGGAATTG
CAGAAACAGGGCCGCCAGGAAGCTCTCGAGTGGCTCATCAGAGAGACGCAACCCATCTCCAAACAGCATTAA

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FIGURE 3056

MPPKVTSELLRQLRQAMRNSEYVTEPIQAYIIPSGDAHQSEYIAPCDCRRAAFVSGFDGSAGTAIITEEHAAMWTD
GRYFLQAAKQMDSNWTLMKMGLKDTPTQEDWLVSVLPEGSRVGVDPLIIPTDYWKKMAKVLRSAGHHLIPVKENL
VDKIWTD RPERPCKPLLTGLDYTGISWKDKVADLRLKMAERNVMWFVVTALDEIAWLFLNLRGSDVEHNPFVFFSY
AIIGLETIMLFIDGDRIDAPSVKEHLLLDLGLEAEYRIQVHPYKSILSELKALCADLSPREKVWVSDKASYAVSE
TIPKDHRCMPYTPICIAKAVKNSAESEGMRAHIKDAVALCELFNWLEKEVPKGGVTEISAADKAEEFRRQQAD
FVDLSFPTISSTGPNGAIHYAPVPETNRTLSLDEVYLIDSGAQYKDGTTDVTRTMHFGTPTAYEKECFITYVLKG
HIAVSAAVFPTGTGKHLLD SFARSALWDSGLDYLHGTGHGVGSFLNVHEGPCGISYKTF SDEPLEAGMIVTDEPG
YYEDGAFGIRIENVVLVVPVKTKYNFNNGSLTFEPLTLVPIQTKMIDVDSLTDKECDWLNNYHLTCRDVIGKEL
QKQGRQEALWLI RETQPISKQH

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FIGURE 3057

CCGTCCAGAGACTGCTGAACCCCTATCCATCTGCTACCACCACCCACTCTGGACACAGAACATCCAGTCATGGAA
AAAAATGAGCTGGTTTCAGAAGGCCAAACTGGCTGAGCAGGCTGAGCAATATGATAACATGGCAGCCTGCATGAAG
TCTGTAACTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGCTTATAAAAAATGTTGTA
GGAGCCCGTAGGTCATCTTGGAGGGTCATCTCAAGTATTGAACAAAAGACGGAAGGTGTTGAGAAAAAACAGCAG
ATGGCTCGAGAATACAGAGAGAAAAATTGAGATGGAGCTAAGAGATATCTCCAATGATGTACTATCTCTTTTGGAA
AAGTTCTTGATCTCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAAATGAAAGGAGATTACTACCGT
TACTTGGCTGAGGTTGCCGCTGGTGATGGCAAGAAAGGGATTGTGGGTCAGTCACAACAAGCATACCAAGAAGCT
TTTGAAATCAGCAAAAAGGAAATGCAACCAACACATACTGTCAGACTGGGTCTGGCCCTTAAGTTCTCTTGTCT
ATTATGAGATTCTGAACTCCCCAGATAAAGTCTGCTCTCTTGCAAAGATGGCTTTTGATGAAGGCATTGCTGAAC
TTGATACATTAAATGAAGAGTCATACAAAGACAGCACGCTAATAATGCAATTACCGAGAGACAAGTTGACATTGT
GGACACTGGATACCCAAGGAGACAAAGCTGAAGCAGGAGAAAGAGGGGAAAATTAACCGGCCTTCCAAGTTTGT
CTGCCTCTTTCTAAAATTTACACAGTAGACCATTTGTCATCCATGGTGTCACACAAATGGTTTTTTTGTTTACAAT
TTATGGCAGATGTGTGTTACTTTTATTTGAATTTCTATATTTCCCATGTGGTTTTTATGTTTAATATTAGGGGAG
TAGAGCCAGTTAACATTTAGGGAGTTATCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTTATA
CAAGTT

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FIGURE 3058A

AACATTTTTGAAAGATCACTCAGCTTTAACACACCTTGGCTGGGTCTGGATAAAAAAAGTGAGCACTGCAAAT
TTCTAGAAGAAAACATCAGGAGAAGAAAGAGAGAGGGGGATTATTCAAAGTTGTTTCCAATTCCTTCAAAACCT
CAAACCAGGTGGCTATGGTATGGATGTAACCAAGAAAAACAAACGAGATGGAAGTGAAGTCACTGAGAGAATTGT
CACTGAAACAGTAACCACAAGACTTACATCCTTACCACCAAAGGCGGGACCAGCAATGGCTATGCTAAAACAGC
CTCTCTTGGTGGAGGGAGCCGGCTGGAGAAACAAAGCCTGACTCATGGCAGCAGCGGCTACATAAACTCAACTGG
AAGCÀCACGAGGCCATGCCTCCACCTCTAGTTACAGGAGGGCTCACTCACCTGCCTCCACTCTGCCCCAATCCCC
AGGCTCAACCTTTGAAAGGAAAACTCACGTTACCCGCCATGCGTATGAAGGGAGCTCCAGTGGCAACTCTTCTCC
GGAGTACCCTCGGAAGGAATTTGCATCTTCTTCAACCAGAGGACGGAGTCAAACACGAGAGAGTGAAATTCGAGT
TCGACTGCAGAGTGCCTCCCATCCACCCGATGGACAGAATTGGATGATGTTAAGCGTTTGCTCAAGGGGAGTCG
ATCGGCAAGTGTGAGCCCCACCCGGAATTCCTCCAACACACTCCCCATCCCCAAGAAAGGCACTGTGGAGACCAA
AATTGTGACAGCGAGCTCCAGTCGGTGTGAGGCACCTACGATGCAACGATCCTGGATGCCAACCTTCCCTCCCA
TGTGTGGTCTCCACCTGCCCCGCGGGTCTCCATGGGGACCTATCACAACAACATGACAACCCAGAGCTCATC
CCTCTCAACACCAATGCCTACTCTGCGGGATCAGTCTTCGGAGTTCCAAACAACATGGCGTCTGCTACCCAC
TTTGCACCCTGGACTCAGCACATCCTCCTCAGTGTGTTGGCATGCAGAACAAATCTGGCCCCCAGCTTGACCACCT
GTCCCATGGCACCACCACCACTTCCACAGCATATGGGGTGAAGAAAAACATGCCCCAGAGTCTGCGGCTGTGAA
CACTGGCGTTTCCACCTCCGCCCTGCACCACAAGTGTGAGAGCGATGACCTTTTGACAAAGGACTGCAAGTT
CCTGATCCTAGAGAAAGACAACACACCTGCCAAGAAGGAGATGGAGCTGCTCATCATGACCAAGGACAGCGGGAA
GGTCTTTACAGCCTCCCCTGCCAGCATCGCTGCAACTTCTTTTTTCAGAAGACACCCATAAAAAAGAAAAGCAAGC
TGCCTACAATGCTGACTCAGGCCTAAAAGCCGAAGCTAATGGAGACCTGAAGACTGTGTCCACAAAGGGCAAGAC
CACCCTGCAGATATCCACAGCTACGGCAGCAGTGGTGGTGGTGGCAGTGGAGAGGTGGCGGTGTTGGTGGCGC
TGGCGGCGGCCCTTGGGGACCAGCGCCAGCCTGGTGGCCCTGCGGCTCCTGCTGCAGCTGGTGGAAAGTGGCTGCT
GGGCTGCTGCTCACCTGGCTGCTACTCCTGGGGCTGCTCTTCGGCCTCATTGCTCTGGCGGAGGAGGTGAGGAA
GCTGAAGGCGCGTGTGGATGAGCTGGAGAGGATCAGGAGGAGCATACTGCCCTATGGGGACAGCATGGATAGAAT
AGAAAAGGACCGCCTCCAGGGCATGGCACCCGCGGGGAGCAGACCTGGACAAAATTGGGCTGCACAGTGACAG
CCAGGAGGAGCTCTGGATGTTTCGTGAGGAAGAAGCTAATGATGGAACAGGAAAATGGAAATCTCCGAGGAAGCCC
TGCCCTAAAGGTGACATGGGAAGTCCAGGCCCTAAAGGAGATCGAGGGTTCCCTGGGACTCCAGGTATCCCTGG
GCCCTTGGGGCCACCCAGGTCCACAAGGACCAAAGGTCAAAAAGGCAGCGTGGGAGATCCTGGCATGGAAGGCC
CATGGGCCAGAGAGGGCGAGAAGGCCCATGGGACCTCGTGGTGAAGCAGGGCCTCCTGGATCTGGAGAGAAAGG
GGAAAGAGGGGCTGCTGGTGAACCAGGTCTCATGGCCACCTGGTGTCCAGGTTCTGTGGGTCCCAAAGGTTTC
CAGCGGCTCTCCTGGCCACAGGGCCCTCCAGGTCTGTAGGTCTCCAAGGGCTCCGAGGTGAAGTAGGACTTCC
TGGTGTCAAAGGTGACAAAGGACCAATGGGACCACCAGGACCCAAAGGTGACCAGGGTGAGAAAGGACCTCGAGG
CCTCACAGGCGAGCCTGGCATGAGAGGTTTGCTGGTGTGTTGGTGAAGCCGGGGCTAAAGGAGCAATGGGTCC
TGCTGGCCCAGACGGACACCAAGGCCAAAGAGGTGAACAAGGTCTTACTGGGATGCCTGGAATCCGTGGCCCACC
AGGACCTTCTGGAGACCCAGGAAAGCCAGGTCTCACAGGACCCAGGGACCTCAGGGACTTCCCGGTACCCCTGG
CCGACCAGGAATAAAAGGTGAACCAGGAGCTCCAGGCAAGATCGTGAATTCGGAGGGGTTCATCGATGCTCACTGT
CCCAGGCCCCCAGGACCTCCTGGAGCCATGGGACCCCCAGGACCTCCAGGTGCCCCAGGCCCCGCGGGCCACCAGG
GCCTTCCATTCCAGGCCCCACCAGGACCCCCGAGGCCCCACCAGGGGAGGGTTTGCCAGGCCCCACCAGGCCCCACCAGG
ATCGTTCTGTCCAACCTCAGAAACCTTCTCTCCGCCCCCAGGCCCCACCTGGCCCCCAGGTCCCAAGGGAGA
CCAAGGTCCCCCAGGCCCCAGAGGACACCAAGGCGAGCAAGGCCTCCAGGTTTCTCAACCTCAGGGTCCAGTTC
TTTCGGACTCAACCTTACAGGACCAACCAGGCCACCTGGCCCCCAGGGACCCAAAGGTGACAAAGGTGATCCAGG
TGTTCCAGGGGCTCTTGGCATTCTAGTGGTCTTCTGAAGGGGGATCATCAAGTACCATGTACGTGTCAGGCCC
GCCAGGGCCCCCTGGGCCCCCTGGGCCTCCGGGCTCTATCAGCAGCTCTGGCCAGGAGATTACAGCAGTACATCTC
TGAGTACATGCAGAGTGACAGTATTAGATCTTACCTATCCGGAGTTCAGGGTCCCCCAGGCCCCACCTGGTCCCCC
AGGACCTGTCACCACCATCACAGGCGAGACTTTCGACTACTCAGAGCTGGCAAGCCACGTTGTGAGCTACTTACG
GACTTCGGGGTACGGTGTGAGCTTGTCTCGTCTCCATCTCTTCTGAAGACATTCTGGCTGTGCTGCAGCGGGA
TGACGTGCGTCAGTACCTACGTACGTACTTGTATGGGCCCTCGGGTCCGCCAGGGCCACCAGGAGCCAGTGGAGA
TGGGTCCCTCCTGTCTTTGGACTATGCAGAGCTGAGTAGTCGCATTCTCAGCTACATGTGAGTTCTGGGATCAG

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FIGURE 3058B

CATTGGGCTTCCTGGTCCCCCGGGGCCCCCTGGCTTGCCGGAACCTCCTATGAGGAGCTCCTCTCCTTGCTGCG
AGGGTCTGAATTCAGAGGCATCGTTGGACCCCCAGGTCCCCCGGGTCCACCAGGGATCCCAGGCAATGTGTGGTC
CAGCATCAGCGTGGAGGACCTCTCGTCTTACTTACATACTGCCGGCTTGTCATTTCATCCCAGGCCCTCCAGGACC
TCCTGGTCCCCCAGGGCCTCGAGGGCCCCCGGGTGTCTCAGGAGCCCTGGCAACCTATGCAGCTGAAAACAGCGA
CAGCTTCCGGAGCGAGCTGATCAGCTACCTCACAAGTCCTGATGTGCGCAGCTTCATTGTTGGCCCCCAGGCC
TCCTGGGCCGCGAGGGACCCCTGGGGACAGCCGCCTCCTGTCCACGGATGCCTCCACAGTCGGGGTAGCAGCTC
CTCCTCACACAGCTCATCTGTGAGGCGGGGAGCTCCTACAGCTCTTCCATGAGCACAGGAGGAGGTGGTGAGG
CTCCCTGGGTGCAGGCGGTGCCTTTGGTGAAGCTGCAGGAGACAGGGGTCCCTATGGCACTGACATCGGCCCAGG
CGGAGGCTATGGGGCAGCAGCAGAAGGCGGCATGTATGCTGGCAATGGCGGACTATTGGGAGCTGACTTTGCTGG
AGATCTGGATTACAATGAGCTGGCTGTGAGGGTGTGAGAGAGCATGCAGCGTCAGGGCCTACTGCAAGGGATGGC
CTACACTGTCCAGGGCCCACCAGGCCAGCCTGGGCCACAGGGGCCACCCGGCATCAGCAAGGTCTTCTCTGCCTA
CAGCAACGTGACTGCGGACCTCATGGACTTCTTCCAACTTATGGAGCCATTCAAGGACCCCCCTGGGCAAAAAGG
AGAGATGGGCACTCCAGGACCCAAAGGTGACAGGGGCCCTGCTGGGCCACCAGGTCATCCTGGGCCACCTGGCCC
TCGAGGACACAAGGGAGAAAAAGGAGACAAAGGTGACCAAGTCTATGCTGGGCGGAGAAGGAGAAGAAGTATTGC
TGTCAGCCGTGAGCTAGCCATGGCAGGACAGCTCCTGGACCAGGTCTCATAATGCATGTGGCACTTAGGTCCAA
GGTCTCCAGAGGGTGAAAGCTGGAGTCTGTCAATGTCCTACTGAGACAGCACAGCCAACCTAGCTAGCAACATTT
GTTTTAGTCTGAACAATATATACTTATAGAATTCAGTCAAAGATACACAATCTGAAACAGCTTCATGGGGTGGAC
TCTAACAGTAGTTGCAATGTTTTAGAAAGTACTTCTCTGCTATCTAGATCTGAACTCCTTGGCTTCTTTA
CTTAGTTCAAGCCCCAGCCTAGGAAAGCCAGTTACATAAAAGTTGGCTCAGGAGTCTTAGAGCTTTACCTAAATA
TGAGCCCAGAAAACGGAGGATGGGGGTGGGGCGCCTTCCCTGGAGGTGACACTTGATGGGGGTGTGTTCTGGTTAC
TGTTCTAAGGCTGTGCCATCAGCTCCTTCCTCCCCGTTCATTCTGCATTCTCTAGTCAGTTGGCTAAGAAGTGA
CTCTTGCAACTAAAAAATTAAGAAATTCACCTCCCTCTAGGAGGTGATGATAGGGTTTCTAATGGTTATATGT
ATATCACATTCCCATTTGCTTAGAAAGTCTGATTGTAGCTATGATTGTCCGTAGGCCCATAGAGTTCATGGA
TATGTTATACTGAACCAGGCCAGAGCAAACAGAAAAAGAGGTTGAGGGCAATGGACAAGGAAGGAATAAAGGGA
GAAGAGGGAAAAACAGAAAACCTGATGCTGGGGACACAGCATCAGCTCAAGACGTCACCTCCATTCTGCACTCAG
AAAATGGCACTTGGGGGACTGGGCGCAGTTGGTCTTTAACCACTTTTCAATGTCTAAAAACATTTGTTTGTGGTC
TATAAGATGAAACATCATTTCAATCGTAAAAATTTCCCATTAAGAAGTTTTTTTTTCTAA

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FIGURE 3059A

CTGGTCTCCGCGTGTGTGAGTACCGCGGCGCGAGGTTAGTGGTAGCTGGGTGCAGACGCCGTGGCGCTGGAGACC
CAAACATGGCAAACCTGGAAGAAAGCTTCCCCGAGGAGGTACAAGAAAGATCCACAAAACAGAGAAAGCTTTCC
AGCAGTCAGTTGAACAAGACAACCTTATTTGATATTTCTACTGAAGAGGGATCCACCAAAAGAAAAAGAGCCAGA
AGGGGCCAGCAAAAACAAAAAGTTGAAAATCGAAAAGAGAGAAAGCAGCAAGTCCGCAAGAGAGAAGTTTGAAA
TCCTTAGTGTTGAGTCCCTGTGTGAGGGAATGCGTATTTTGGGTTGCGTGAAAGAGGTGAATGAACTGGAAGTGG
TGATTAGTCTCCCCAATGGCCTCCAGGGCTTTGTGCAAGTCACTGAAATCTGTGATGCCTACACCAAAAGCTGA
ATGAGCAGGTGACACAAGAACAACCTCTGAAGGACCTACTTCACTTGCTGAACTTTTCTCACCTGGAATGCTGG
TAAGATGTGTGGTGAGCAGTCTGGGCATCACAGACAGGGGCAAGAAGAGTGTCAAGCTGTCTCTGAACCCCAAAA
ATGTCAACAGAGTGCTGAGTGCTGAGGCCCTGAAGCCTGGCATGCTACTTACAGGTACCGTATCCAGCCTGGAAG
ACCATGGCTACCTAGTGAGCATTGGTGTGATGGGACCAGAGCTTTTCTGCCACTGCTGAAAGCCCAGGAGTACA
TCAGACAGAAGAACAAGGTGCTAAACTAAAGGTGGGTCACTACCTGAACTGCATTGTTGAAAAGGTGAAAGGCA
ACGGAGGAGTTGTTAGTCTGTCTGTTGGTCACTCAGAGGTTTCTACGGCCATTGCTACTGAACAGCAGAGCTGGA
ACCTTAATAAATTGCTACCAGGACTGGTGGTCAAAGCTCAGGTACAGAAGGTGACTCCATTTGGCCTTACGCTAA
ACTTCCTCACATTCTTACAGGGCGTGGTTGACTTTATGCACCTGGATCCCAAGAAAGCTGGAACATATTTCTCAA
ATCAGGCAGTGAGGGCCTGCATCCTTTGCGTCCATCCTCGAACCAGAGTTGTGCACCTGAGCCTGCGCCCCATCT
TCCTACAGCCTGGACGCCCACTACCCGACTCTCTTGCCAGAACCCTGGAGCAGTGCTGGATGATGTTCTGTCC
AGGGTTTTTTTCAAAAAGGCTGGGGCCACCTTTAGGCTGAAGGATGGGGTTCTGGCCTATGCCCGGCTCAGCCATC
TCTCTGATTCTAAGAACGTCTTCAATCCTGAGGCCTTCAAGCCAGGGAACACTCACAAGTGTAGAATTATTGACT
ACAGCCAAATGGATGAACTGGCCTTGCTCTCTCTACGAACGTCTATTATTGAAGCTCAGTACCTTAGATATCATG
ACATCGAACCTGGGGCAGTGGTAAAGGGCACAGTGCTAACCATAAAGTCATATGGGATGCTGGTGAAGGTGGGCG
AGCAGATGAGGGGCTGTACCTCCCATGCACCTGGCTGACATCCTGATGAAGAATCCGGAGAAGAAGTACCACA
TCGGGGATGAGGTCAAGTGCCGGGTTTTGCTTTGTGACCCTGAAGCCAAGAAGCTGATGATGACCCTGAAAAAAA
CCCTGATTGAGTCCAACTACCTGTCAATTACCTGCTATGCCGATGCCAAGCCTGGTCTGCAGACACATGGCTTCA
TCATCAGGGTCAAGGACTATGGCTGCATTGTGAAGTTCTACAACAATGTGCAGGGACTGGTGCCCAAGCATGAGC
TCAGTACTGAGTATATCCCTGACCCGGAGAGAGTTTTTTACACTGGCCAGGTGGTGAAGGTTGTCTGATTGAACT
GTGAGCCATCCAAAGAGAGGATGCTCTTATCCTTCAAGCTGTGAGTGATCCAGAGCCAAAGAAAGAGCCTGCAG
GACACAGTCAGAAGAAAGGAAAAGCCATTAAACATTGGGCAGTTGGTAGATGTGAAGGTTTTAGAGAAGACCAAAG
ATGGGCTGGAGGTGGCTGTCTGCCCCACAACATCCGTGCTTTCTCTCCACATCTCATCTGTCTGAGCCAGAGCG
CCAACGGCCCCATTGTTACATCATTGGCTCCAGGCAGGTGACATCCTTACCGAGTCTGTGTCTGAGCCAGAGCG
AGGGGCGTGTCTTCTTTGAGGAAGCCAGCCTTGGTCTCCACAGTAGAAGGTGGCCAGGATCCCAAGAACTTCT
CAGAAAATCCATCCTGGAATGCTGCTCATTGGTTTTGTGAAGAGCATCAAGGACTATGGCGTGTTCATCCAGTTCC
CCTCAGGTCTTAGCGGACTGGCCCCAAAAGCTATCATGAGTGACAAATTTGTGACCTCCACAAGTGACCACTTTG
TTGAGGGCCAGACAGTAGCGGCAAAGGTGACCAATGTGGATGAGGAGAAGCAGCGGATGCTGCTGTCACTGCGGC
TGTCGGACTGTGGTCTGGGGGACTTGGCTATCACCAGCCTCCTCCTCTGAATCAGTGCCCTGGAGGAGCTGCAGG
GCGTGCGCAGCCTTATGAGCAACCGAGACTCTGTGTTGATCCAGACGCTGGCCGAGATGACCCCAGGAATGTTCC
TTGACCTAGTGGTGCAGGAGGTGTTGGAAGATGGCTCTGTGGTATTCAAGTGGGGGTCCAGTGCCCGACCTGGTCC
TGAAAGCCAGCAGATACCATCGCGCAGGGCAGGAGGTGGAATCTGGGCAGAAAAAGAAGGTGTTATCTTAAATG
TTGATCTTTTGAAGTTGGAAGTGACGTTTTCCCTTACCAGGACTTGGTGAATAGAAAAGCTAGAAAAGCTGAGGA
AAGGCAGCGAACACCAGGCGATTGTGCAGCACTTGGAGAAGTCCTTTGCCATTGCCTCCTTGGTAGAGACGGGCC
ACCTGGCAGCTTTCTCCCTGACCTCTCACCTCAACGACACCTTCCGCTTTGACTCAGAGAAAATTGCAGGTGGGAC
AGGGTGTCTCCCTAACCTCAAGACCACAGAACCAGGAGTGACTGGCCTTCTTTTGGCTGTGGAGGGGGCCGGCTG
CCAAGAGGACCATGAGGCCGACCCAGAAGGACTCTGAGACAGTTGATGAGGATGAAGAAGTGGATCCAGCTCTGA
CTGTAGGGACCATAAAGAAGCACACCTCTCCATCGGGGACATGGTCAAGGGACTGTCAAGTCCATTAAGCCTA
CCCATGTGGTTGTGACTCTGGAAGATGGCATTATTGGCTGTATCCATGCCTCCCACATTCTAGATGATGTTCCAG
AGGGCACCTCTCCTACTACCAAGCTGAAGGTTGGGAAGACGGTCACTGCCCCAGTGATTGGCGGGCGAGACATGA
AGACATTCAAGTATCTCCCAATAAGTCACCCAGATTGCTTGAACCATCCCGGAGCTGAGTGTTCGGCCAAGTG
AGCTGGAGGATGGCCACACTGCTCTTAACACTCACTCTGTTAGCCCCATGGAGAAGATTAAACAGTACCAGGCCG
GCCAGACTGTTACTTGCTTCTTAAAGAAATACAATGTGGTGAAGAAATGGCTTGAGGTGGAGATTGCCCCAGACA

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FIGURE 3059B

TCCGGGGGAGAATTCCCTTATTGCTCACTTCTCTGAGCTTCAAGGTTCTGAAGCATCCAGATAAGAAGTTCCGGG
TTGGCCAGGCCCTGAGGGCCACCGTTGTTGGCCCAGATTCCCTCCAAGACCCCTCTTATGTCTGTCCCTCACAGGTC
CTCACAAGCTTGAGGAAGGGGAAGTGGCCATGGGCCGAGTGGTGAAGGTGACTCCCAACGAGGGGCTGACCGTCT
CCTTCCCCTTTGGGAAGATAGGAACAGTCAGTATATTTACATGAGTGACTCCTACTCCGAGACGCCCCTGGAAG
ACTTCGTCCCCCAGAAGGTTTTAGATGTTACATCCTGTCCACTGCAGACAACGTATTGACTTTGTCGCTGCGAT
CATCCAGAACAACCCGGAGACGAAAAGCAAAGTAGAAGATCCAGAGATTAACCTCCATCCAGGACATTAAGGAAG
GGCAGCTTCTGAGGGGCTATGTAGGGTCCATCCAGCCACACGGTGTGTTCTTTTCGCTTGCCCCCTCCGTTGTGG
GTTTGGCTCGGTACTCCCATGTCTCCCAGCACAGCCCGTCCAAGAAAGCCCTTTATAACAAAACCTCCCTGAAG
GGAAGCTGCTCACAGCCAGGGTCCTACGCCTTAACCACCAGAAGAACCTGGTAGAGCTGTCTTTCTCCCGGAG
ACACTGGGAAGCCAGACGTGCTTTCTGCTTCCTTGGAAGGGCAACTTACAAAGCAAGAGGAGAGGAAAACAGAGG
CTGAGGAGAGAGACCAAAAAGGGGAAAAAGAAAATCAGAAAAGGAACGAGAAGAAGAACAGAGGGGAGGAGG
AGGTGGAGATGCCAGCAAGGAGAAGCAACAGCCCCAGAAGCCACAGGCGCAGAAGCGGGGCGGGCAGGAGTGCC
GGGAGTCTGGGAGTGAGCAGGAAAGAGTGAGCAAGAAGCCAAAGAAAGCCGGCCTGTGAGAGGAGACGACAGCC
TTGTGGACGTGTACTATCGGGAGGGAAAAAGAGGAGGCAGAAGAGACGAATGTGCTGCCCAAGGAGAAGCAAACCA
AGCCAGCAGAAGCGCCCCGGCTGCAGCTGTCTTCAGGCTTCGCTTGGAATGTGGGACTAGACTCTCTGACCCCGG
CCTTGCCACCTCTAGCAGAGAGCTCAGACAGCGAGGAGGATGAGAAGCCACACCAAGCCACGATAAAGAAAAGCA
AGAAAGAAAGGGAGTTGGAGAAGCAGAAGGCAGAGAAGGAAGTGTCCCGCATTGAGGAGGCGCTGATGGATCCTG
GGCGGCAGCCAGAGTCCGCGGATGATTTTGACCGACTGGTGTGAGCTCCCCAACAGCTCCATTCTGTGGCTGC
AGTACATGGCTTTCCACCTGCAGGCCACGGAGATCGAGAAGGCCCGTGCCGTGGCTGAGAGGGCCCTTAAGACCA
TCTCCTTCAGAGAGGAGCAGGAGAAGCTGAACGTGTGGGTGGCTCTGCTGAACCTGGAGAACATGTACGGCTCTC
AGGAGTCCCTGACCAAGGTCTTTGAGCGAGCCGTGCAGTACAACGAGCCTCTCAAAGTCTTTCTCCACCTGGCTG
ACATCTACGCCAAGTCAGAGAAATTCAGGAAGCTGGTGAACCTCTACAACCGGATGCTGAAGCGTTTCCGGCAGG
AGAAAGCTGTGTGGATCAAATACGGCGCCTTCCTTCTGCGGAGGAGCCAGGCTGCAGCCAGTCACCGCGTGTGC
AGCGAGCCCTGGAGTGCTGCCTAGCAAGGAGCATGTGGATGTGATTGCCAAGTTTGCCAGCTTGAGTTTCAGC
TGGGGGATGCAGAGCGGGCCAAAGCCATTTTGAAGAACGCTGAGCACCTACCCAAAGCGCACAGATGTCTGGT
CGGTCTATATCGACATGACCATCAAGCACGGCAGCCAGAAGGACGTCCGGGACATCTTTGAGCGGGTCATTTCATC
TGAGCTTGCCCCCAAGAGAATGAAGTTCTTCTTCAAGCGCTACCTGGACTACGAGAAGCAGCATGGCACTGAGA
AGGATGTGCAGGCAGTCAAGGCCAAGGCCCTGGAGTATGTGGAGGCCAAGAGCTCAGTGCTAGAGGACTAGTGGC
AGGCTGGCTCTGTGGGACACTGTCAACAATGGGCCAGCCCGGCCCGCCTCGAGTGCTGGGCACTCGGAAAACCT
GTTACCTCAGGACTCTATTTAAATGCTGCTTTTTCTGCAGCACGCTTGGGGAAATCCTGTGAGGATGAAAAGGAA
GTTGAGATTTTTTAAATCCCTCTTCGCTTGCTTTATTTTTCAGTACCAACTTGTTATCTTTTTCTTATCTGAGGC
TACCTGGGGATTGTGGGCAGCAGGCCCCCTGGACTCCCAGAAATGCTGAGGGTCCCTCTTCCAGGGGAGTTCCCTG
GGGAGCAAGAGTAGAGGGGCTATTCCCAGGGTCTGTGGTCAAGGTCTGCTTTGTCCCTGGCAGGCTGTGAGT
CCAGCTGGAGGGGGTCAAGTAGGCTCCAGGGAGTGGGCCCTCCCTCCGATCTTGAGTCTCTGGGTGTTCTTCA
GCCTCAGCCTCACTGGTACCTTCTGCCCTTTAGGGGAGGCTATGAGTCTGGGACAGGAGGACAAATTCAGAGCCC
AGAGGGGGAAATGGAGAAACCTGGGCTGCTGAGGAAAGCCACGGGTGTTGGCGTGAAGTATGATGTCTCATCCC
ACGCCCCACTATGGCCACATTACCTAACCTCTCCATATCTGGGCTATTCAAGGTCTTGAGGGCCAGCACAGACCCA
GCTAGTTGTTGAAGCCAGTTCTTTTTTGTCTTGCTCATGAGGGAATTAACGTTTTCTCTGGCAG

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FIGURE 3060

MANLEESFPRGGTRKIHKPEKAFQQSVEQDNLFDISTEEGSTKRKKSQKGPATKKLKIEKRESSKSAREKFEIL
SVESLCEGMRIILGCVKEVNELELVISLPLNGLQGFVQVTEICDAYTKKLNEQVTQEQLKDLLHLPELFSPGMLVR
CVVSSLGITDRGKKSVKLSLNPKNVNRVLSAEALKPGMLLTGTVSSLEDHGVLVDIGVDGTRAFLPFLKAQEYIR
QKNKGAKLKVGQYLNCIVEKVKGNNGGVVSLSVGHSEVSTAIATEQQSWNLNNLLPGLVVKAQVQKVTFFGLTLNF
LTFFTGVVDFMHLDPKKAGTYFSNQAVRACILCVHPRTRVVHLSLRPIFLQPGRPPLTRLSCQNLGAVLDDVPVQG
FFKKAGATFRLKDGVLAYARLSHLSDSKNVFNPEAFKPGNTHKCRIIDYSQMDLALLSLRTSIEAQYLRHYDI
EPGAVVKGTVLTIKSYGMLVKVGEQMRGLVPPMHLADILMKNPEKKYHIGDEVKCRVLLCDPEAKKLMMLTKKTL
IESKLPVITCYADAKPGLQTHGFIIRVKDYGCIVKFYNNVQGLVPKHELSTEYIPDPERVFFYTGQVVKVVVLNCE
PSKERMLLSFKLSSDPEPKKEPAGHSQKKGKAINIGQLVDVKVLEKTKDGLEVAVLPHNIRAFLEPESHLSHDVAN
GPLLHHWLQAGDILHRVLCLSQSEGRVLLCRKPALVSTVEGGQDPKNFSEIHPGMLLIGFVKSIDYGVFIQFPS
GLSGLAPKAIMSDKFVTSTSDHFVEGQTVAAKVTNVDEEKQRMLLSLRLSDCGLGDLAITSLLLLNQCLEELQGV
RSLMSNRDŠVLIQTLAEMTPGMFLDLVVQEVLEDGSVVFSGGPVPDLVLKASRYHRAGQEVESGQKKKVILNVD
LLKLEVHVSLHQDLVNRKARKLRKGSEHQAIIVQHLEKSFAIASLVETGHLAAFSLTSHLNDTFRFDSEKLQVGQG
VSLTLKTTEPGVTGLLLAVEGPAAKRTMRPTQKQDSETVDEDEEVDPALTVGTIKKHTLSIGDMVTGTVKSIPKTH
VVVTLEDGIIGCIHASHILDDVPEGTSPPTTKLVKGKTVTARVIGGRDMKTFKYLPI SHPRFVRTIPELSVRPSEL
EDGHTALNTHSVSPMEKIKQYQAGQTVTCFLKKYNVVKWLEVEIAPDIRGRIPLLLTSLSFVKVLKHPDKKFRVG
QALRATVVGPDSSKTLCLSLTGPHKLEEGEVAMGRVVKVTPNEGLTVSFPGKIGTVSIFHMSDSYSETPLEDF
VPQKVFRCYILSTADNVLTLSLRSSRTNPETKSKVEDPEINSIQDIKEGQLLRGYVGSIQPHGVFFRLGPSVGL
ARYSHVSQHSPSKKALYNKHLPEGKLLTARVLRNLHQKNLVELSFLPGDTGKPDVLSASLEGQLTKQEERKTEAE
ERDQKGEKKNQKRNEKKNQKGQEEVEMP SKEKQQPQKPQAQKRGGRECRESGSEQERVSKPKKAGLSEEDDSL
DVYYREGKEEAETNVLPKEKQTKPAEAPRLQLSSGFAWNVGLDSLTPALPPLAESSDSEDEKPHQATIKKSKK
ERELEKQKAEKELSRIEEALMDPGRQPESADDFDRLVLSSPNSSILWLQYMAFHLQATEIEKARAVAERALKTIS
FREEQEKLNVWVALLNLENMYGSQESLTKVFERAVQYNEPLKVFLHLADIYAKSEKFQEAGELYNRMLKRFRQEK
AVWIKYGAFLLRRSQAAASHRVLQRALECLPSKEHVDVIAKFAQLEFQLGDAERAKAIFENTLSTYPKRTDVWSV
YIDMTIKHGSQKDVRDIFERVIHLSLAPKRMKFFFKRYLDYEKQHGTEKDVQAVKAKALEYVEAKSSVLED

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FIGURE 3061

CCGAGAGGTGGTTACATTCGTTGAAGGACACCAGCTGCGGAATTTGCGGCTTTGGCAGACCCAGCTGAGTCACTG
TCACTGCCTACCAATCTCGACCGGACCTCGACCGGCTCGTCTGTGCTGCCAATCGACTCGGCGTGGCGTCGGTTCG
TGGTAGATAGGCGGTCATGCATACGAATTTTCAGCTCTTGTTCTGGTGACCTTTTGAATACGTCTTGCTCTATAAA
AGAAATTCATGCCTTTGTAAAATACACAGATTGAAATCATGGCAGGTCCAGAAAGTGATGCGCAATACCAGTTCA
CTGGTATTAAAAAATATTTCAACTCTTATACTCTCACAGGTAGAATGAACTGTGTACTGGCCACATATGGAAGCA
TTGCATTGATTGTCTTATATTTCAAGTTAAGGTCCAAAAAACTCCAGCTGTGAAAGCAACATAAAATGGATTTTA
AACTGTCTACGGTTCTTAACCTCATCTGTTAAGTTCCCATGCCTGGAGAAGCTAATGCCAACTCATCATGTGATA
ATTCAATTTGTACAATAAAATTATGAACCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3062

MAGPESDAQYQFTGIKKYFNSYTLTGRMNCVLATYGSIALIVLYFKLRSKKTPAVKAT

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FIGURE 3063

CGGCATGTGGAAGAAGGTGAAGATGGCGGTGGCCAGGGCCGGGGTCTTGGGAGTCCAGTGGCTGCAAAGGGCATC
CCGGAACGTGATGCCGCTGGGCGCACGGACAGCCTCCCACATGACCAAGGACATGTTCCCGGGGCCCTATCCTAG
GACCCAGAAAGAACGGGCCGCCGCCGAAGAAGTATAATATGCGTGTGGAAGACTACGAACCTTACCCGGATGA
TGGCATGGGGTATGGCGACTACCCGAAGCTCCCTGACCGCTCACAGCATGAGAGAGATCCATGGTATAGCTGGGA
CCAGCCGGGCCTGAGGTTGAACTGGGGTGAACCGATGCACTGGCACCTAGACATGTACAACAGGAACCGTGTGGA
TACATCCCCCACACCTGTTTCTTGGCATGTCATGTGTATGCAGCTCTTCGGTTTCCTGGCTTTCATGATATTCAT
GTGCTGGGTGGGGGACGTGTACCCTGTCTACCAGCCTGTGGGACCAAAGCAGTATCCTTACAATAATCTGTACCT
GGAACGAGGCGGTGATCCCTCAAAGAACCAGAGCGGGTGGTTCACTATGAGATCTGAGGAGGCTTCGTGGGCTT
TTGGGTCCTCTAACTAGGACTCCCTCATTCCCTAGAAATTTAACCTTAATGAAATCCCTAATAAAACTCAGTGCTG
TGTTAAAAAAAAA

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FIGURE 3064

MAVARAGVLGVQWLQRASRNVMLGARTASHMTKDMFPGPYPRTPEERAAAAKKYNMRVEDYEPYPDDGMGYGDY
PKLPDRSQHERDPWYSWDQPGLRLNWGEPMHWHLDMYNRNRVDTSPVSWHVMCMQLFGFLAFMIFMCWVGDVY
PVYQPVGPKQYPYNNLYLERGGDPSKEPERVVHYEI

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FIGURE 3065

ACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCTGGCTCGGGGACCTCCACGCACCGCGGCTAGCGCCGACA
ACCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGTACCGGCGGGCTTCGAAACCGCAGTCCTCCGGCGACCCCG
AACTCCGCTCCGGAGCCTCAGCCCCCTGGAAAGTGATCCCGGCATCCGAGAGCCAAGATGCCGGCCCACTTGCTG
CAGGACGATATCTCTAGCTCCTATACCACCACCACCATTACAGCGCCTCCCTCCAGGGTCCTGCAGAATGGA
GGAGATAAGTTGGAGACGATGCCCCCTCTACTTGGAAGACGACATTCGCCCTGATATAAAAGATGATATATATGAC
CCCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTCTG
CTACACTTGGGAGCCCTGTATGGGATCACTTTGATTCTACCTGCAAGTTCTACACCTGGCTTTGGGGGGTATTCT
TACTATTTTGTGAGTGCCCTGGGCATAACAGCAGGAGCTCATCGTCTGTGGAGCCACCGCTCTTACAAAGCTCGG
CTGCCCCCTACGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGAATGATGTCTATGAATGGGCTCGTGAC
CACCGTGCCCAACACAAGTTTTTCAAGAACACATGCTGATCCTCATAATTCCCGACGTGGCTTTTTCTTCTCTCAC
GTGGGTGGCTGCTTGTGCGCAAACACCCAGCTGTCAAAGAGAAGGGGAGTACGCTAGACTTGTCTGACCTAGAA
GCTGAGAAACTGGTGATGTTCCAGAGGAGGTACTACAAACCTGGCTTGCTGATGATGTGCTTCATCCTGCCACG
CTTGTGCCCTGGTATTTCTGGGGTGAACTTTTTCAAAACAGTGTTGTTGTTGCCACTTTCTTGCGATATGCTGTG
GTGCTTAATGCCACCTGGCTGGTGAACAGTGCTGCCCACCTCTTCGGATATCGTCTTTATGACAAGAACATTAGC
CCCCGGGAGAATATCCTGGTTTCACTTGGAGCTGTGGGTGAGGGCTTCCACAACCTACCACCACTCCTTTCCCTAT
GACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCTTCATTGATTGCATGGCCGCCCTCGGT
CTGGCCTATGACCGGAAGAAAGTCTCCAAGGCCGCCATCTTGCCAGGATTAAAAGAACCAGGAGATGGAAGTAC
AAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCTTTTTTCAAAAACCAGCCAGGCAGAGGTTTAAATGTCTGTTTA
TTAACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGTTAACCATTCCAGTACAGTATTCTTTTAAAA
TTCAAAAGTATTGAAAGCC

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FIGURE 3066

TCTCTTGATTCCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCCAGCCTGTCCTG
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA
AATCACGAGTATCTGCCAATCCTGGGCCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC
AGCCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGGAACAGGTGCAC'TTGAATTGGAGCT
GATTTCTTAGCGCGTTGGTACAATGGAACAAACAACAAGAACACACCTGTCTATGTGTCTCACCACCTGGGAG
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGTCCTATCGCTACTGGGATGCAGAGAAGAGA
GGATTGGACCTCCAGGGCTTCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGTTGTCTCCACGCCTGT
GCACACAACCCAACTGGGATTGACCCAACTCCGGAGCAGTGAAGCAGATTGCTTCTGTGCATGAAGCACCGGTTT
CTGTTCCCTTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAAACCTGGAGAGAGATGCCTGGGCCATTTCGC
TATTTTGTGTCTGAAGGCTTCGAGTTCTTCTGTGCCAGTCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA
GTCGGGAATCTGACTGTGGTTGGAAAAGAACCTGAGAGCATCCTGCAAGTCCTTTCCCAGATGGAGAAGATCGTG
CGGATTACTTGGTCCAATCCCCCGCCCAGGGAGCACGAATTGTGGCCAGCACCCCTCTCTAACCTGAGCTCTTT
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACCTCAGGGCACGACTA
GAAGCCCTCAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTTCAGCTTCACTGGGTTGAAC
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCAATCAACGTGAGTGGC
TTAACCAACAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGAAGAAACACC
ACCCGTCCAGTACCACCAAAGTAGTTCTCTGTCTGTGTGTTCCCTGCCTGCACAAACCTACATGTACATACCAT
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTTAAACCGGCCCCACATGAAGAG
AACATCCCTTGAGACGAATTTGGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTTAA
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCTCTCACTAAAAAGGAGTGTGTGTGTGGCGG
CCACGTGCTTCTATGTGGTGTGTTGACTCTGTACAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG
TGTGAATGTGGGTGTGCGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG
CATGGTTGTGTCCCTAGTCCTAAGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG
CACGGACACGTACATATTTAACTGAAACAAGTTTTACCAAACAGTATTTACTCGTGATGTGCGTAGTGCAATTCTG
ATATTTTTGAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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FIGURE 3067

MAPPSVFAEVPQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKVEQKIANDNSLNHEYLPIL
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNAVFS
AGFKDIRSYRYWDAEKRLDLQGFLNDLENAPFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA
YQGFASGNLERDAWAI RYFVSEGFEFFCAQSF SKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP
AQGARIVASTLSNPELFEEWTGNVKT MADRIL TMRSELRARLEALKTPGTWNHITDQIGMFSFTGLNPKQVEYLV
NEKHIYLLPSGRINVSGLT TKNLDYVATSIHEAVTKIQ

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FIGURE 3068A

GGCTGGGGGGCCGCGGGCGGGAGGCGGATAAAAAGGCCCCAGGGCGCCCGGGGAGGGAGCCCGTTAGCGCTGCTC
CGCCGCGGGCGCCCGCCAGCCCCGGACTGTCCGCGCTCCATCTGGTATCTTGGCCTCAGCTGTCCTTGAAGTCAC
CATGGCGAGGTCCCCACCAGCCACCCCTCTTTCTGTTCCCTGCTGCTGCTAGGCCAGCCCCCTCCAGCAGGGCCACA
GTCAGTGGGCACCACTAAGCTCCGGCTGGTGGGCCCAGAGAGCAAGCCAGAGGAGGGCCGCTGGAGGTGCTGCA
CCAGGGCCAGTGGGGCACCGTGTGTGATGACAACCTTTGCTATCCAGGAGGCCACAGTGGCTTGCCGCCAGCTGGG
CTTCGAAGCTGCCTTGACCTGGGCCCACAGTGCCAAGTACGGCCAAGGGGAGGGACCCATCTGGCTGGACAATGT
GCAGTGTGTGGGCACAGAGAGCTCCTTGACCAGTGCGGGTCTAATGGCTGGGGAGTCAGTGACTGCAGTCACTC
AGAAGACGTAGGGGTGATATGCCACCCCGCGGCCATCGTGGCTACCTTTCTGAAACTGTCTCCAATGCCCTTGG
GCCCCAGGGCCGGCGGCTGGAGGAGGTGCGGCTCAAGCCCATCCTTGCCAGTGCCAAGCAGCATAGCCCAGTGAC
CGAGGGAGCCGTGGAGGTGAAGTATGAGGGCCACTGGCGGCAGGTGTGTGACCAGGGCTGGACCATGAACAACAG
CAGGGTGGTGTGCGGGATGCTGGGCTTCCCCAGCGAGGTGCCTGTGACAGCCACTACTACAGGAAAGTCTGGGA
TCTGAAGATGAGGGACCCTAAGTCTAGGCTGAAGAGCCTGACGAATAAGAACTCCTTCTGGATCCACCAGGTCAC
CTGCCTGGGGACAGAGCCCCACATGGCCAAGTCCAGGTGCAGGTGGCTCCAGCCCCGGGGCAAGCTGCGGCCAGC
CTGCCCAGGTGGCATGCATGCTGTGGTTCAGCTGTGTGGCAGGGCCTCACTTCCGCCCCACCGAAGACAAAGCCACA
ACGCAAAGGGTCTTGGGCAGAGGAGCCGAGGGTGCAGCTGCGCTCCGCGGGCCAGGTGGGCGAGGGCCGGGTGGA
AGTGCTCATGAACCGCCAGTGGGGCACGGTCTGTGACCACAGGTGGAACCTCATCTCTGCCAGTGTGCTGTGTCG
TCAGCTGGGCTTTGGCTCTGCTCGGGAGGCCCTCTTTGGGGCCCGGCTGGGCCAAGGGCTAGGGCCCATCCACCT
GAGTGAGGTGCGCTGCAGGGGATATGAGCGGACCCCTCAGCGACTGCCCTGCCCTGGAAGGGTCCCAAGATGGTTG
CCAACATGAGAATGCTGCTGCTGTGAGGTGCAATGTCCCTAACATGGGCTTTTCAAGATCAGGTGCGCTTGGCTGG
TGGGCGTATCCCTGAGGAGGGGCTATTGGAGGTGCAGGTGGAGGTGAACGGGGTCCACGCTGGGGGAGCGTGTG
CAGTGA AAACTGGGGGCTCACCGAAGCCATGGTGGCCTGCCGACAGCTCGGCCTGGGTTTTGCCATCCATGCCTA
CAAGGAAACCTGGTTCTGGTCGGGGACGCCAAGGGCCCAGGAGGTGGTGTGAGTGGGGTGCCTGCTCAGGCAC
AGAGCTGGCCCTGCAGCAGTGCCAGAGGCACGGGCCGGTGCAGTGTCTCCACGGTGGCGGGCGCTTCTCTGGCTGG
AGTCTCCTGCATGGACAGTGCCAGAGCCTGGTGTGAAACGCCAGCTAGTGCAGGAGACGGCCTACTTGGAGGA
CCGCCCCGCTCAGCCAGCTGTATTGTGCCACGAGGAGAACTGCCTCTCCAAGTCTGCGGATCACATGGACTGGCC
CTACGGATACCGCCGCTATTGCGCTTCTCCACACAGATCTACAATCTGGGCCGGAAGTACTTTCTGTC AAAGAC
TGGACGCGATAGCTGGGTTTTGGCACCAAGTGCCACAGGCATTACCACAGCATTGAGGTCTTACCCACTACGACCT
CCTCACTCTCAATGGCTCCAAGGTGGCTGAGGGGCACAAGGCCAGCTTCTGTCTGGAGGACACAACTGCCCCAC
AGGACTGCAGCGCGCTACGCATGTGCCAACTTTGGAGAACAGGGAGTGAAGTGTAGGCTGCTGGGACACCTACCG
GCATGACATTGATTGCCAGTGGGTGGATATCACAGATGTGGGCCCCGGGAATTATATCTTCCAGGTGATTGTGAA
CCCCCACTATGAAGTGGCAGAGTCAGATTTCTCCAACAATATGCTGCAGTGCCGCTGCAAGTATGATGGGACCCG
GGTCTGGCTGCACAACTGCCACACAGGGAATTACATACCCAGCCAAATGCAGAACTCTCCCTGGAGCAGGAACAGCG
TCTCAGGAACAACCTCATCT**TGA**AGCTGTCACTGCACACTCCTAGCTGTGCGGATACACCAGATACCTCAGCTTA
TTGGAGCCATGCCCTTACAGAGTCCCAACTCAGAGGAAAAGGGCCAGTGCCAAGGGGCACCAAGAACCTGCTCA
GGAAGCCTTTTGATGGCAAGATACCAATCCAGATGGTATTGCTCCCTCAGGATGGCTCTGGGCCTGCCCCCTAAG
GGCCTGTGGCCTATGGAATATGTCTCCAGGCTTTGCTCAGCTGAGCTCCTCTTCTGTAAGGAAACCCAGTCATC
CCTGAATCTTGCCACAGAGATCCGGGATTCCAGGAGCTCTCAGTTTCTTAGGGATGGACTATGGCCCAGTCCCCCA
TCTAAGTGGTGCTTTGCAAATGTCTTGGAGGAGTATAGGACAGAGGACCAAATAACACAGCAGGTAGTGTAGCT
CTCTGCTAGGAGCTCAAAGCAACACAACCTTGTATCAAAATCACAACTGGCAGAGAAGCTGGTGGATCCAATCCTT
TCTTCACTGTTGTTATTTAGAACTCACCTCTCACACTCTGTTCTTTAGTGTCTTACCTTTATCTTACCACACA
CATGGGTGTTTTCTATTATCCTTGGAAAGCACAGACCTCGGGCATCCCTTATTGCCTGATGGGCCAACACCAACAG
TTACGGAGTGCTTGAGAAGGGGCAAGTTTTACAGAAATGGCCAGATAGGGCCTTCTACAGAGCAGCAAGAGTAG
GCCAAGCAGAAAGACTGCTGAGGTAAACACGGACCCAGCCCCCTGTCAGGGCCTTGCCAAGGAAATAATATGGAC
CATTTACCTGGCAGGCAGTCTGCTCTCTCAGGATCACACGCATCTCAGGATTGGTCTAAACTTCAAGTCTCA
ACCAAGTGTCTGAAGTGAACCTTTGCATTGAATAAATTTTTGCCATGGAAAGAACATCAACAAGCCACTCATCTC
TACAGAGATAAGAAAACAAGTTTTGGCAGAGCAAGAGACAGAAGACCGTGGAGAAATCAGAAGGGGGAACAGTCAG
TTTAGTTAAGGATGGAACCTGGGAAAGGCCACCATTCCTGCTTGATGGGGCTCTGATTTGCTCTTGCTCAAGTGG
AATAAAACCCCATGGTCTTCTTGACATGATTCTTGATCTTTTCTCCACTGAGACACACTTAAGTGATGATCCTTA

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FIGURE 3068B

CAGGACTGACACCCTAATGCCAATAAAAGTTGCTCATTATGGACTGCTACAAAAAAAAAAAAAAAAA

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FIGURE 3069

MARSPPATLFLFLLLLGQPPPSRPQSLGTTKLRLVGPEKPEEGRLEV LHQGQWGTVCDDNF AIQEATVACRQLG
FEAALTWAHSAKYQGEGPIWLDNVQCVGTESSLDQCGSNGWGVSDCSHSEDVGVI CHPRRHRYLSETVSNALG
PQGRRLEEVRLKPI LASAKQHSPVTEGAVEVKYEGHWRQVCDQGW TMNNSRVVCGMLGFPSEVPVDSHYRKYWD
LKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHVVSCVAGPHFRPPKTKPQ
RKGSWAEEPVRVLRSGAQVGEGRVEVLMNRQWGTVC DHRWNLI SASVVCRLGFGSAREALFGARLQGGLGPIHL
SEVRCRGYERTLSDCPALEGSQNGCQHENA AAVRCNVPNMGFQNVRLAGGRIP EEGLEVVQVEVNGVPRWGSVC
SENWGLTEAMVACRQLGLGF AIHAYKETWFWSGTPRAQEVVMSGVRCSGTELALQQCQRHGPVHCSHGGRFLAG
VSCMDSAPDLVMNAQLVQETAYLED RPLSQLYCAHEENCLSKSADHMDWPYGYRLLRFSTQIYNLGR TDFRPKT
GRDSWVWHQCHRHYHSIEVFTHYD LLLTNGSKVAEGHKASFLED TNCP TGLQRRYACANFGEQGVTVGCWDTYR
HDIDCQWVDITDVGP GNYIFQVIVNPHYEVAESDFSNNMLQCRCKYD GHRVWLHNCHTGN SYPANAELSLEQEQR
LRNNLI

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FIGURE 3070

GAAAGGAGGAGAGGAAGAGAGGACTAAGAGGGGAGCAAGGCGAGGAGGCCGCGGGCGGCAGCGGGCACCTGGG
CCGTGCTGCCCCCGCGAGCAAGGCGCCGCCATTCCGCTGCTCGGGGCGCCGCCGCCGCCGCCACCGCGCCCAGGG
GCCATGCTCCCGCCGCCCCCGCGCCAGCCGCCGCCCCAGGCGCGTGC GGCCCGCGGGCGCGGTGCGCCTGCAGCGG
CCCTTCCTGCGCAGCCCCGCTGGGCGTGTTGCGGCTGCTGCAGCTGCTGGCCGGCGCTGCCTTCTGGATCACTATC
GCCACCAGCAAGTACCAGGGCCCCGTGCACTTCGCGCTCTTCGTGTCCGTGCTCTTCTGGCTGCTCACCCTGGGC
CTCTACTTCCTCACGCTGCTGGGCAAGCACGAGCTGGTCCCCGTGCTGGGCTCGCGCTGGCTCATGGTCAACGTG
GCGCACGATGTGCTGGCGGGCGCGCTCTACGGCGCCGCCACCGGCATCATGAGCGACCAGATGCAGCGCCACAGC
TACTGCAACCTCAAGGATTACCCGCTCCCCTGCGCCTACCACGCCTTCTGGCGGGCCGCGTCTGCGGCGGCGTC
TGCCACGGCCTCTACCTGCTTTCGGCGCTCTATGGCTGCGGGCGTGCCTGCCAGGGCAAGCAGGAGGTGGCGTGA

GGCCGCCCCGCGCCCGCGGGCCCCGATCGGGGCGGGGGAATCCCCGAGACCAGCCTCCTTAATCCCTTCCCCC
GCCGCCGCCCGCGCGGGTGC GCCCTGGCACCTCTCCCTGCCCTCCAGCGTTTCCACTGTCGCCCGCGCCCGG
AACCCTGACGCTCAGCTCCCGCCGACGGCAGCGCCGCCGCCCGCCAGAATCCCAGCCCAGAATCCCAGCCGCCG
CGCCGACGCGCCGTCTCCCGGACAAGCGCAGGCTGCGATCCGAGGGGCTGACACACACTCGCAGACGAGCCGC
CCCGAGGCGAAACCTCGCGGTTCTCTTCCCTTCCCTGCTGAGACTAAGACGTGGACAGGGGGCCGCGCAGATCCG
GGGGAGGCTCCCAAATTGGAACCAGGCTTCTGGCTGCCCTTCCCTCCCGCCCCGTGGTTCGGAAGAGCACTCCC
TTCCCTGGCCCCCTCATCCAGCCTCCGGTGCTGTAAACGCAGGCGCTGGGCCGCGGGCGGAGCTGAGGACAGGCC
TTGGCTGGTCCCAGGATGAGCGACGAGTTTGGTTTTAGCTGGGGATTGTGCTGGCATCCTGCGAAGCTCCTCCCA
GCCGGTCTCTCTGTGCTCGGTTGTCTTGGGGTGGGGCCCATCCGCCGAGGTGGGGACCGATAGGAGAAGCCGGTG
GGTTGTACCTTTACACTTGTGGAGTCTCCTCTTGCTCTACCTACTCCGCCTTTGTCTTAAGTTTTTGCAGGC
CAGTGCCAAACACACACTAAGTGTCTGGCCTCTCCGTGACACAAGTCTCTTCCAGCCTTCTCAGAGGCTTCT
GCCGCCCCCCCTCATCTCCACCCTCCCCCATATCTGTTTGCATTAGGAGTTCCACGACCATGGTGGAATGTTAAGG
TGAACCCACCCCTTCTTACAGATGGGGACCCAGAGCCTGCTCTTGGGAACAGCCAGAGTAAGATTGGAACCCAG
ACTTGCACTCCAGCGCTGTTTGCATTAAAAGGGTGGGTGAGTCAGGACCCCTGGCTCAGGAGCCGCCTCTCCTAA
AAGAGGGTTTCAAGGCCAAATGGGTTTGTCAACGGTGCTGTCTCCCTTTCTTGGAGATGCTCATTAGCTTATCAA
AGACTGAGAAGTCCCGCTGTTACAGAAATAATTTAGTTTGTGTATTAACTGCTCCTGGGCCTGGAGCAGTATTC
CCACCTTAAGATTCCCAGCATCCCTGTGCTGTCCCGCTCTCATTATGCCGAAGGGGCCAACCCATTGGCTGTG
TTCTGTTTGAAGATTGGGGGGCGCCTTCTCTTCTTCCCCAGGGAATTCTCTAGCAGAGGGAGGGGACCCACCC
CAGTGAGGAAGTAGATTGCTGCCTCTAGCCAGAGACCTGAAGTGGGGAATTTGAACATTCTTTTACATTGTTGGA
GAAATGAAGCCAAAGTTATTAGATGGTTTTTCCAGGCTAAAGGAAAGTACCTGCAAGAGATCCCGGCACTGAT
CTGGAGCAGCTGACAGGGTGGGTCTCCCTTACCAAAGAGAAGAACCCTCTCTGGCGCTGGGGTGACCTGCTGGC
TGGGCCTGTAAGTTTCCATGTTGCTGAGGCCATGGAGATTCCCAGAGCTGGTCACACCGACCGCTCTCAGGGCC
CGCTGCCCTGGGCTGGCAACACCATTTGGCCTTGGCCTGCAGAAGCTTTCAGAGTCTTCACTGGCAGTAGGGGG
AGATGGGGAGAGGAATGATCTCTGCCAGCCCCCTTCTTTCCAAACCATGCAATGGAAGAGCCCAGATGGGTGAA
GATTGATTTTGCCTTAACTCAAGAGAATTCTGTCTCTCTTGTGCTATGATTTGGACACAAGATTCTGGATACCT
GGAAGTTAGCTGTGTACTCCTGTACCCTAAACAGTGGATTTGAGTTCCAGCGTTTATTCTTTTTTCTTTTTTCA
GATCACCATCTAAGTTACATCTTTAGCTCAGGTCCATCCTTCTCAAGATCTCCTTCTTAGCCCCCAGCCCCCTGG
TGCTGTCTGTGGTCAGGTGACCTTACTCAGGAGCAGATATCTCCTTGGCCGCCATGGAGCCTCATCCATCCACAC
GTGCCTGTAGCATTCCAGAGCTCACTGCCCTTCTAGATGTGCCTTCCCGCTTGGCTTCCAGCGGCTTGTGCTCAC
TCTGTCTGCCAGGTATGAGAAGAACACGTAAGACCGCCACCACACTCACCTCCCTCAAGGCCCTGTGCCATAGG
GGTGGCCACCCGACCTGCCCCAGAAGTTTGGATACTGGAGGCAAGTGCATAGGTCTCCCTCTCTGGGCACCAG
GACTCAGTCCAGCCCAAGACTACTCTGGGCAGCTCCCATCCAGTCTGGGGCCATTTGCAGACTCAGGAAAGGAT
TTCTACAGTGTCTATAAAAGCCAAAGAGAGAGTGGGTTTGGGAAGAGTGAGGGTGGTTGGGGAGAGGGGACCG
ATGTGCCTCATTTGTTTAGTGGTGATTACAAATATGCTTTTCTGGATAAAGTTTGGTTGTTTGCTCTTAAAAAAA
AAAAAAAAAAAAAACTCGA

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FIGURE 3071

MLPPPPRQPPPQARAARGAVRLQRPFLRSPLGVLRLQLLAGAAFWITIATSKYQGPVHFALFVSVLFWLLTLGL
YFLTLLGKHELVPVLGSRWLMVNVAHDLAAALYGAATGIMSDQMQRHSYCNLDYPLPCAYHAFLAAAVCGGVC
HGLYLLSALYGCGRRCQGKQEVA

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FIGURE 3072

GATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCACAGAAGATCAGCT
ACCCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAATAGTTCCCCAGAT
CAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGCATCTGGAGGGTCT
CTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTGTCTATGAATTGGACAAGAACAAGTG
AAGGCCGGCGGGGAGGATACTGTCCCGAGTGCTTCCTGGTGTGTGTATTAGAATCCCTTCCTGCCTTGTTTCATG
GCAGTGAAATGCCTCTTGGTCCTGTCCAAGTGTATCTTTCACTGATTTCTGAATCATGTTCTAGTTGCTTGACCC
TGCCACATGGGTCCAGTGTTTCATCTGAGCATAACTGTACTAAATCCTTTTTCCATATCAGTATAATAAAGGAGTG
ATGTGCAATA

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FIGURE 3073

GGTTGAGGATGGGCTGGCGGCGGGTCCGGGTCCGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGTTTGGATT
GAGCCGGGCCCCGGCCGGGGCGCCGAGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTG
GCTGACTGGGGAGTCGGCAGGCGGCAGGAACCATGCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCCGCCTCT
GCCTCCGCCTCCTTCTGCTGCTGGGTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGC
GCTACGGCAAGGTCTGCCTGCGCTCCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCT
TTGAGCCTGTCTACTGGCTGGTAGACAACGTGATCCGCTGGTTTGGAGTGGTGTTCGTGGTCCTGGTGATCGTGC
TGACAGGCTCCATTGTAGCTATCGCCTACCTGTGTGTCCTGCCTCTCATCCTCCGAACCTACTCAGTGCCACGAC
TCTGCTGGCATTCTTCTATAGCCACTGGAATCTGATCCTGATTGTCTTCCACTACTACCAGGCCATCACCCTC
CGCCTGGGTACCCACCCAGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACCCCAAGC
CAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCCTGGCTAAACA
ATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTTCATGACTCTGGGCTGTGTCTACTGCA
GCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGAAAATGAAACAGCTCGACAAGAACAAC
TACAGGCGGTTGCCAACCAGACTTATCACCAGACCCACCACCCACCTTCTCCTTTTCGAGAAAGGATGACTCACA
AGAGTCTTGTCTACCTCTGGTTTCCTGTGCAGTTCTGTGGCACTTGCCCTGGGTGCCCTAACTGTATGGCATGCTG
TTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCAACAAGAAGGAGAGACGTCGGCTACAGGCCAAGG
GCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGGACAACCTGGAAGGTATTCCTGGGTGTGGATACAGGAA
GGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGCCCCATGGGAATGGAATGAGCTGGGAGCCCCCTC
CCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAGCTGGACTGTGTGAGCCACGACTCGAGCACTCAT
TCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTTTCTCAGAATCCTTGATCAAAAAGAGCCAGTGGG
CCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCTTTTTTACCCTGCAGAAGAAAGACACAATGTGGA
GAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAGTTCCAACCCAGACTAGGGGTGAGGCAGCTAGC
TACCTACCTTGCCAGTGCTGACCCGGACCTCCTCCAGGATACAGCACTGGAGTTGGCCACCACCTCTTCTACTT
GCTGTCTGAAAAAACACCTGACTAGTACAGCTGAGATCTTGGCTTCTCAACAGGGCAAAGATAACCAGGCCTGCTG
CTGAGGTCAGTGCCACTTCTCACATGCTGCTTAAGGGAGCACAAATAAAGGTATTTCGATTTTTTAAAGAT

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FIGURE 3074A

GGGCGGGAGGACTCGACTCGGTGGGAGCCGCTAGAGCCGGGCGCCCGGGGACGTAGCCTGTAGGGCCACCGGGTC
CCCGTCAGAGGCGGCGGGCGGGAGCAGCGGGGACTGCAGGCCGGGGTGCAGCGAACGCGACCCCGCGGGCTGCGGC
CCGGTGTGTGCGGAGCGTGGCGGGGCGCAGCTTACCGGGCGGAGGTGAGCGCGCGCCGGCTCCTCCTGCGGCGGA
CTTTGGGTGCGACTTGACGAGCGGTGGTTCGACAAGTGGCCTTGCGGGCCGGATCGTCCCAGTGGAAGAGTTGTA
AATTTGCTTCTGGCCTTCCCCTACGGATTATACCTGGCCTTCCCCTACGGATTATACTCAACTTACTGTTTAGAA
AATGTGGCCACGAGACGCTGGTTACTATCAAAAGGAGCGGGGTCGACGGTCCCCTTTCCCCTGAGCCTCAG
CACCTGCTTGTGTTGGAAGGGGTATTGAATGTGACATCCGTATCCAGCTTCCTGTTGTGTCAAACAACATTGCAA
AATTGAAATCCATGAGCAGGAGGCAATATTACATAATTTAGATTCCACAAATCCAACACAAGTAAATGGGTCTGT
TATTGATGAGCCTGTACGGCTAAAACATGGAGATGTAATACTATTATTGATCGTTCCTTCAGGTATGAAAATGA
AAGTCTTCAGAATGGAAGGAAGTCAACTGAATTTCCAAGAAAAATACGTGAACAGGAGCCAGCACGTCGTGTCTC
AAGATCTAGCTTCTCTTCTGACCCTGATGAGAAAGCTCAAGATTCCAAGGCCTATTCAAAAATCACTGAAGGAAA
AGTTTCAGGAAATCCTCAGGTACATATCAAGAATGTCAAAGAAGACAGTACCGCAGATGACTCAAAGACAGTGT
TGCTCAGGGAACAATAATGTTTCACTCCTCAGAACATGCTGGACGTAATGGCAGAAATGCAGCTGATCCCATTTC
TGGGGATTTTAAAGAAATTTCCAGCGTTAAATTAGTGAGCCGTTATGGAGAATTGAAGTCTGTTCCCACTACACA
ATGCTTTGACAATAGCAAAAAAATGAATCTCCCTTTTGGAAAGCTTTATGAGTCAGTGAAGAAAGAGTTGGATGT
AAAATCACAAAAAGAAAATGTCTACAGTATTGTAGAAAATCTGGATTACAACTGATTACGCAACAGAGAAAAGA
AAGTGCTGATGGTTTACAGGGGGAGACCCAAGTGTGGTCTCGCGTAAGTCAAGACCAAAATCTGGTGGGAGCGG
CCACGCTGTGGCAGAGCCTGCTTCACCTGAACAAGAGCTTGACCAGAACAAGGGGAAGGGAAGAGACGTGGAGTC
TGTTCAGACTCCCAGCAAGGCTGTGGGCGCCAGCTTTCCTCTCTATGAGCCGGCTAAAATGAAGACCCCTGTACA
ATATTCACAGCAACAAAATTCTCCACAAAAACATAAGAACAAGACCTGTATACTACTGGTAGAAGAGAATCTGT
GAATCTGGGTAAAAGTGAAGGCTTCAAGGCTGGTGATAAACTCTTACTCCCAGGAAGCTTTCAACTAGAAAATCG
AACACCAGCTAAAGTTGAAGATGCAGCTGACTCTGCCACTAAGCCAGAAAATCTCTCTTCCAAAACAGAGGAAG
TATTCTACAGATGTGGAAGTTCTGCCTACGGAACTGAAATTCACAATGAGCCATTTTTAACTCTGTGGCTCAC
TCAAGTTGAGAGGAAGATCCAAAAGGATTCCCTCAGCAAGCCTGAGAAATTGGGCACTACAGCTGGACAGATGTG
CTCTGGGTACCTGGTCTTAGTTTCACTTGATATCAACAACCTTGGTGATTCCATTAATGAGAGTGAGGGAATACC
TTTGAAGAAGGCGTGTGTCTTTGGTGGGCACCTAAGACCTGAACATTTGATGAAAACCTGCCTCCTAATAC
GCCTCTCAAAAGGGGAGAAGCCCCAACCAAAAGAAAGTCTCTGGTAAATGCACACTCCACCTGTCTGAAGAAAAT
CATCAAGGAACAGCCTCAACCATCAGGAAAACAAGAGTCAGGTTTCAAGAAATCCATGTGGAAGTGAAGGCACAAAG
CTTGGTTATAAGCCCTCCAGCTCCTAGTCCTAGGAAAACCTCAGTTGCCAGTGATCAACGCCGTAGGTCTCTGCAA
AACAGCCCTGCTTCCAGCAGCAATCTCAGACAGAGGTTTCTAAGAGAGGAGGGAGAAAGAGTGGCAACCTGCC
TTCAAAAGAGAGTGCTATCAGCCGAAGTCAACATGATATTTTACAGATGATATGTTCCAAAAGAAGAAGTGGTGC
TTCGGAAGCAAAATCTGATTGTTGCAAAATCATGGGCAGATGTAGTAAAACCTTGGTGCAAAACAAACACAACTAA
AGTCATAAAACATGGTCTCAAAGGTCAATGAACAAAAGGCAAGAAGACCTGCTACTCCAAAGAAGCCTGTGGG
CGAAGTTCACAGTCAATTTAGTACAGGCCACGCAAACTCTCCTTGTACCATAATAATAGGGAAAGCTCATACTGA
AAAAGTACATGTGCCTGCTCGACCCTACAGAGTGCTCAACAACCTTCAATTTCCAACCAAAAAATGGACTTTAAGGA
AGATCTTTTCAAGTAAGCTGAAATGTTCAAGACCCAGTGAAGGAGCAACCGCAGTTGACAAGCACATGTCACAT
CGCTATTTCAAATTCAGAGAATTTGCTTGGAAAAACAGTTTCAAGGAAGTGAATTCAGGAGAAGAACCTCTGCTCCC
CACCTCAGAGAGTTTTGGAGGAAATGTGTTCTTCAGTGCACAGAATGCAGCAAAACAGCCATCTGATAAATGCTC
TGCAAGCCCTCCCTTAAGACGGCAGTGTATTAGAGAAAATGGAAACGTAGCAAAAACGCCCAGGAACACCTACAA
AATGACTTCTCTGGAGACAAAACCTTCAGATACTGAGACAGAGCCTTCAAAAACAGTATCCACTGCAAAACAGGTC
AGGAAGGTCTACAGAGTTTCAAGGAATATACAGAAGCTACCTGTGGAAGTAAGAGTGAAGAAAACAAATACAGAAAT
TGTTGAGTGCATCCTAAAAGAGGTGAGAAGGCAACACTACTACAACAAAGGAGAGAAGGAGAGATGAAGGAAAT
AGAAAGACCTTTTGTAGACATATAAGGAAAATATTGAATTAAGAAAACGATGAAAAGATGAAAGCAATGAAGAG
ATCAAGAACTTGGGGGAGAAATGTGCACCAATGTCTGACCTGACAGACCTCAAGAGCTTGCCTGATACAGAACT
CATGAAAGACACGGCACGTGGCCAGAATCTCCTCAAACCCAAGATCATGCCAAGGCACCAAGAGTGAGAAAGG
CAAAATCACTAAAATGCCCTGCCAGTCATTACAACCAGAACCAATAAACACCCCAACACACACAAAACAACAGTT
GAAGGCATCCCTGGGGAAAGTAGGTGTGAAAGAAGAGCTCCTAGCAGTCGGCAAGTTTACACGGACGTGAGGGGA
GACCACGCACACGCACAGAGAGCCAGCAGGAGATGGCAAGAGCATCAGAACGTTTAAGGAGTCTCAAAGCAGAT

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FIGURE 3074B

CCTGGACCCAGCAGCCCGTGTAAGTGAAGAAAGTGGCCAAGAACGCCTAAGGAAGAGGCCAGTCACTAGA
AGACCTGGCTGGCTTCAAAGAGCTCTTCCAGACACCAGGTCCCTCTGAGGAATCAATGACTGATGAGAAAACCTAC
CAAATAGCCTGCAAATCTCCACCACCAGAATCAGTGGACACTCCAACAAGCACAAAGCAATGGCCTAAGAGAAG
TCTCAGGAAAGCAGATGTAGAGGAAGAATTCTTAGCACTCAGGAACTAACACCATCAGCAGGGAAAGCCATGCT
TACGCCCAAACCAGCAGGAGGTGATGAGAAAGACATTAAAGCATTATGCGAACTCCAGTGCAGAACTGGACCT
GGCAGGAACCTTACCTGGCAGCAAAAGACAGCTACAGACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGC
TGGCTTTAAAGAGCTCTTCCAGACTCCTGGTCACACCGAGGAATTAGTGGCTGCTGGTAAAACCACTAAAATACC
CTGCGACTCTCCACAGTCAGACCCAGTGGACACCCCAACAAGCACAAAGCAACGACCCAAGAGAAGTATCAGGAA
AGCAGATGTAGAGGGGAGAACTCTTAGCGTGCAGGAATCTAATGCCATCAGCAGGCAAAGCCATGCACACGCCTAA
ACCATCAGTAGGTGAAGAGAAAAGACATCATATTTGTGGAACTCCAGTGCAGAACTGGACCTGCAGAGAA
CTTAACCGGCAGCAAGAGACGGCCACAACTCCTAAGGAAGAGGCCAGGCTCTGGAAGACCTGACTGGCTTTAA
AGAGCTCTTCCAGACCCCTGGTCATACTGAAGAAGCAGTGGCTGCTGGCAAACTACTAAAATGCCCTGCGAATC
TTCTCCACCAGAATCAGCAGACACCCCAACAAGCACAAAGAGGAGGCCCAAGACACCTTTGGAGAAAAGGGACGT
ACAGAAGGAGCTCTCAGCCCTGAAGAAGCTCACACAGACATCAGGGGAAACCACACACACAGATAAAGTACCAGG
AGGTGAGGATAAAAGCATCAACGCGTTTGGGAACTGCAAAACAGAACTGGACCCAGCAGCAAGTGTAACTGG
TAGCAAGAGGCACCCAAAACCTAAGGAAAAGGCCAACCCCTAGAAGACCTGGCTGGCTTGAAAGAGCTCTTCCA
GACACAGTATGCACTGACAAGCCACGACTCACGAGAAAACCTACCAAATAGCCTGCAGATCACAACCAGACCC
AGTGGACACACCAACAAGCTCCAAGCCACAGTCCAAGAGAAGTCTCAGGAAAGTGGACGTAGAAGAAGAATTCTT
CGCACTCAGGAAACGAACACCATCAGCAGGCAAAGCCATGCACACACCCAAACCAGCAGTAAGTGGTGAGAAAA
CATCTACGCATTATGCGAACTCCAGTGCAGAACTGGACCTGACAGAGAAGTCTAAGTGGCAGCAAGAGACGGCT
ACAACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGCTGGCTTTAAAGAGCTCTTCCAGACACGAGGTCA
CACTGAGGAATCAATGACTAACGATAAACTGCCAAAGTAGCCTGCAAATCTTACAACCAGACCCAGACAAAA
CCCAGCAAGCTCCAAGCGACGGCTCAAGACATCCCTGGGGAAAGTGGGCGTGAAAGAAGAGCTCCTAGCAGTTGG
CAAGCTCACACAGACATCAGGAGAGACTACACACACACACAGAGCCAACAGGAGATGGTAAGAGCATGAAAGC
ATTTATGGAGTCTCCAAAGCAGATCTTAGACTCAGCAGCAAGTCTAAGTGGCAGCAAGAGGCAGCTGAGAACTCC
TAAGGGAAAGTCTGAAGTCCCTGAAGACCTGGCCGGCTTCATCGAGCTCTTCCAGACACCAAGTCACACTAAGGA
ATCAATGACTAACGAAAAAACTACCAAAGTATCCTACAGAGCTTCACAGCCAGACCTAGTGGACACCCCAACAAG
CTCCAAGCCACAGCCCAAGAGAAGTCTCAGGAAAGCAGACACTGAAGAAGAATTTTATGATTTAGGAAACAAAC
GCCATCAGCAGGCAAAGCCATGCACACACCCAAACCAGCAGTAGGTGAAGAGAAAGACATCAACACGTTTTTGGG
AACTCCAGTGCAGAACTGGACCAGCCAGGAAATTTACCTGGCAGCAATAGACGGCTACAACTCGTAAGGAAAA
GGCCAGGCTCTAGAAGAAGTACTGGCTTCAGAGAGCTTTTCCAGACACCATGCACTGATAACCCACGACTGA
TGAGAAAACCTACCAAAAAAATACTCTGCAAACTCCGCAATCAGACCCAGCGGACACCCCAACAAACACAAAGCA
ACGGCCCAAGAGAAGCCTCAAGAAAGCAGACGTAGAGGAAGAATTTTATGATTTAGGAACTAACACCATCAGC
AGGCAAAGCCATGCACACGCCTAAAGCAGCAGTAGGTGAAGAGAAAGACATCAACACATTTGTGGGGACTCCAGT
GGAGAACTGGACCTGCTAGGAAATTTACCTGGCAGCAAGAGACGGCCACAACTCCTAAAGAAAAGGCCAAGGC
TCTAGAAGATCTGGCTGGCTTCAAAGAGCTCTTCCAGACACCAGGTCACTGAGGAATCAATGACCGATGACAA
AATCACAGAAGTATCCTGCAAATCTCCACAACCAGACCCAGTCAAAACCCCAACAAGCTCCAAGCAACGACTCAA
GATATCCTTGGGGAAGTAGGTGTGAAAGAAGAGGTCTTACCAGTCGGCAAGCTCACACAGACGTCAGGGAAGAC
CACACAGACACACAGAGAGACAGCAGGAGATGGAAAGAGCATCAAAGCGTTTAAAGGAATCTGCAAAGCAGATGCT
GGACCCAGCAAACTATGGAAGTGGGATGGAGAGGTGGCCAAGAACACCTAAGGAAGAGGCCCAATCACTAGAAGA
CCTGGCCGGCTTCAAAGAGCTCTTCCAGACACCAGACACTGAGGAATCAACAAGTATGACAAAACCTACCAA
AATAGCCTGCAAATCTCCACCACCAGAATCAATGGACACTCCAACAAGCACAAAGGAGGCGGCCCAAAACACCTTT
GGGGAAGAGGATATAGTGAAGAGCTCTCAGCCCTGAAGCAGCTCACACAGACCACACACAGACAAAGTACC
AGGAGATGAGGATAAAGGCATCAACGTGTTTCAAGGAACTGCAAAACAGAACTGGACCCAGCAGCAAGTGTAA
TGGTAGCAAGAGGCAGCCAAGAAGTCTAAGGGAAAAGCCCAACCCCTAGAAGACTGGCTGGCTTGAAAGAGCT
CTTCCAGACACCAATATGCACTGACAAGCCACGACTCATGAGAAAACCTACCAAAATAGCCTGCAGATCTCCACA
ACCAGACCCAGTGGGTACCCCAACAATCTTCAAGCCACAGTCCAAGAGAAGTCTCAGGAAAGCAGACGTAGAGGA
AGAATCCTTAGCACTCAGGAAACGAACACCATCAGTAGGGAAAGCTATGGACACACCCAAACCAGCAGGAGGTGA

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FIGURE 3074C

TGAGAAAGACATGAAAGCATTATGGGAACTCCAGTGCAGAAATTGGACCTGCCAGGAAATTTACCTGGCAGCAA
AAGATGGCCACAACTCCTAAGGAAAAGGCCAGGCTCTAGAAGACCTGGCTGGCTTCAAAGAGCTCTTCCAGAC
ACCAGGCACTGACAAGCCCACGACTGATGAGAAAACCTACCAAATAGCCTGCAAATCTCCACAACCAGACCCAGT
GGACACCCCAGCAAGCACAAAGCAACGGCCCCAAGAGAAACCTCAGGAAAGCAGACGTAGAGGAAGAATTTTTAGC
ACTCAGGAAACGAACACCATCAGCAGGCAAAGCCATGGACACACCAAACCAGCAGTAAGTGATGAGAAAAATAT
CAACACATTTGTGGAACTCCAGTGCAGAACTGGACCTGCTAGGAAATTTACCTGGCAGCAAGAGACAGCCACA
GACTCCTAAGGAAAAGGCTGAGGCTCTAGAGGACCTGGTTGGCTTCAAAGAATCTTCCAGACACCAGGTCACAC
TGAGGAATCAATGACTGATGACAAAATCAGAGAATATCCTGTAAATCTCCACAGCCAGAGTCATTCAAACCTC
AAGAAGCTCCAAGCAAAGGCTCAAGATACCCCTGGTGAAAGTGGACATGAAAGAAGAGCCCCCTAGCAGTCAGCAA
GCTCACACGGACATCAGGGGAGACTACGCAAACACACACAGAGCCAACAGGAGATAGTAAGAGCATCAAAGCGTT
TAAGGAGTCTCCAAAGCAGATCCTGGACCCAGCAGCAAGTGTAAGTGGTAGCAGGAGGCAGCTGAGAAGCTCGTAA
GGAAAAGGCCCGTGCTCTAGAAGACCTGGTTGACTTCAAAGAGCTCTTCTCAGCACCAGGTCACACTGAAGAGTC
AATGACTATTGACAAAAACAAAAAATTCCCTGCAAATCTCCCCACCAGAACTAACAGACACTGCCACGAGCAC
AAAGAGATGCCCCAAGACACGTCCCAGGAAAGAAAGTAAAAGAGGAGCTCTCAGCAGTTGAGAGGCTCACGCAAAC
ATCAGGGCAAAGCACACACACACAAAAAGAACAGCAAGCGGTGATGAGGGCATCAAAGTATTGAAGCAACGTGC
AAAGAAGAAACCAAACCCAGTAGAAGAGGAACCCAGCAGGAGAAGGCCAAGAGCACCTAAGGAAAAGGCCAACCC
CCTGGAAGACCTGGCCGGCTTCACAGAGCTCTCTGAAACATCAGGTCACACTCAGGAATCACTGACTGCTGGCAA
AGCCACTAAAATACCCCTGCGAATCTCCCCACTAGAAGTGGTAGACACCACAGCAAGCACAAAGAGGCATCTCAG
GACACGTGTGCAGAAGGTACAAGTAAAAGAAGAGCCTTCAGCAGTCAAGTTCACACAAACATCAGGGGAAACAC
GGATGCAGACAAAGAACCAGCAGGTGAAGATAAAGGCATCAAAGCATTGAAGGAATCTGCAAAACAGACACCGGC
TCCAGCAGCAAGTGTAAGTGGCAGCAGGAGACGGCCAAGAGCACCCAGGGAAAGTGCCCAAGCCATAGAAGACCT
AGCTGGCTTCAAAGACCCAGCAGCAGGTCACACTGAAGAATCAATGACTGATGACAAAACCACTAAAATACCCCTG
CAAATCATCACCAGAAGTAGAAGACACCGCAACAAGCTCAAAGAGACGGCCCAGGACACGTGCCCAGAAAGTAGA
AGTGAAGGAGGAGCTGTTAGCAGTTGGCAAGCTCACACAAACCTCAGGGGAGACCACGCACACCGACAAAGAGCC
GGTAGGTGAGGGCAAAGGCACGAAAGCATTAAAGCAACCTGCAAAGCGGAAGCTGGACGCAGAAGATGTAATTGG
CAGCAGGAGACAGCCAAGAGCACCTAAGGAAAAGGCCCAACCCCTGGAAGATCTGGCCAGCTTCCAAGAGCTCTC
TCAAACACCAGGCCACACTGAGGAACTGGCAAATGGTGCTGCTGATAGCTTTACAAGCGCTCCAAGGAAACACC
TGACAGTGGAAAACCTCTAAAAATATCCAGAAGAGTTCTTCGGGCCCCCTAAAGTAGAACCCGTGGGAGACGTGGT
AAGCACCAGAGACCCCTGTAAAATCACAAGCAAAAGCAACACTTCCCTGCCCCCACTGCCCTTCAAGAGGGGAGG
TGGCAAAGATGGAAGCGTCACGGGAACCAAGAGGCTGCGCTGCATGCCAGCACCCAGAGGAAATTGTGGAGGAGCT
GCCAGCCAGCAAGAAGCAGAGGTTGCTCCCAGGGCAAGAGGCAAAATCATCCGAACCCGTGGTCATCATGAAGAG
AAGTTTGAGGACTTCTGCAAAAAGAATTGAACCTGCGGAAGAGCTGAACAGCAACGACATGAAAACCAACAAAGA
GGAACACAAATTACAAGACTCGGTCCCTGAAAATAAGGGAATATCCCTGCGCTCCAGACGCCAAAATAAGACTGA
GGCAGAACAGCAAAATACTGAGGTCTTTGTATTAGCAGAAAGAATAGAAATAAACAGAAATGAAAAGAAGCCCAT
GAAGACCTCCCCAGAGATGGACATTGAGATCCAGATGATGGAGCCCCGAAACCCATACCTAGAGACAAAGTCAC
TGAGAACAAAAGGTGCTTGAGGTCTGCTAGACAGAATGAGAGCTCCCAGCCTAAGGTGGCAGAGGAGAGCGGAGG
GCAGAAGAGTGCGAAGGTTCTCATGCAGAATCAGAAAGGGGAAAGGAGAAGCAGGAAATTGAGACTCCATGTGCCT
GAGATCAAGAAAGACAAAAAGCCAGCCTGCAGCAAGCACTTTGGAGAGCAAATCTGTGCAGAGAGTAACGCGGAG
TGTCAGAGGTGTGCAGAAAATCCAAAGAAGGCTGAGGACAATGTGTGTGTCAAGAAAATAAGAACCAGAAGTCA
TAGGGACAGTGAAGATATTTGACAGAAAAATCGAAGTGGGAAAAATATAATAAAGTTAGTTTTGTGATAAGTTCT
AGTGCAGTTTTTTGTCATAAAATTACAAGTGAATTCTGTAAGTAAGGCTGTCAGTCTGCTTAAGGGAAGAAAACCTT
GGATTTGCTGGGTCTGAATCGGCTTCATAAACTCCACTGGGAGCACTGCTGGGCTCCTGGACTGAGAATAGTTGA
ACACCGGGGGCTTTGTGAAGGAGTCTGGGCCAAGGTTTGCCCTCAGCTTTGCAGAATGAAGCCTTGAGGTCTGTC
ACCACCCACAGCCACCCTACAGCAGCCTTAAGTGTGACACTTGCCACACTGTGTCGTCGTTTTGTTTGCCTATGTC
CTCCAGGGCACGGTGGCAGGAACAACTATCCTCGTCTGTCCCAACACTGAGCAGGCACTCGGTAAACACGAATGA
ATGGATGAGCGCACGGATGAATGGAGCTTACAAGATCTGTCTTTCCAATGGCCGGGGGCATTTGGTCCCCAAATT
AAGGCTATTGGACATCTGCACAGGACAGTCCTATTTTTGATGTCCTTTTCTTTCTGAAAATAAAGTTTTGTGCTT
TGGAGAATGACTCGTGAGCACATCTTTAGGGACCAAGAGTGACTTTCTGTAAGGAGTGACTCGTGGCTTGCCTTG

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FIGURE 3074D

GTCTCTTGGAATACTTTTCTAACTAGGGTTGCTCTCACCTGAGACATTCTCCACCCGCGGAATCTCAGGGTCCC
AGGCTGTGGGCCATCACGACCTCAAACCTGGCTCCTAATCTCCAGCTTTCCTGTCAATTGAAAAGCTTCGGAAGTTTA
CTGGCTCTGCTCCCGCTGTTTTCTTTCTGACTCTATCTGGCAGCCCGATGCCACCCAGTACAGGAAGTGACACC
AGTACTCTGTAAAGCATCATCATCCTTGAGAGACTGAGCACTCAGCACCTTCAGCCACGATTTTCAGGATCGCTT
CCTTGTGAGCCGCTGCCTCCGAAATCTCCTTTGAAGCCCAGACATCTTTCTCCAGCTTCAGACTTGTAGATATAA
CTCGTTCATCTTCATTTACTTTCCACTTTGCCCCCTGTCCTCTCTGTGTTCCTTCCCAAATCAGAGAATAGCCCGCCA
TCCCCCAGGTCACCTGTCTGGATTCTTCCCCATTACCCACCTTGCCAGGTGCAGGTGAGGATGGTGCACCAGAC
AGGGTAGCTGTCCCCCAAATGTGCCCTGTGCGGGCAGTGCCCTGTCTCCACGTTTGTTCCTCCAGTGTCTGGCG
GGGAGCCAGGTGACATCATAAATACTTGCTGAATGAATGCAGAAATCAGCGGTACTGACTTGTACTATATTGGCT
GCCATGATAGGGTTCTCACAGCGTCATCCATGATCGTAAGGGAGAATGACATTCTGCTTGAGGGAGGGAATAGAA
AGGGGCAGGGAGGGGACATCTGAGGGCTTCACAGGGCTGCAAAGGGTACAGGGATTGCACCAGGGCAGAACAGGG
GAGGGTGTTCAAGGAAGAGTGGCTCTTAGCAGAGGCACCTTTGGAAGGTGTGAGGCATAAATGCTTCCTTCTACGT
AGGCCAACCTCAAAACTTTTCAGTAGGAATGTTGCTATGATCAAGTTGTTCTAACACTTTAGACTTAGTAGTAATT
ATGAACCTCACATAGAAAAATTTTCATCCAGCCATATGCCTGTGGAGTGAATATTCTGTTTTAGTAGAAAAATCCT
TTAGAGTTCAGCTCTAACCCAGAAATCTTGCTGAAGTATGTCAGCACCTTTTCTCACCCCTGGTAAGTACAGTATTT
CAAGAGCACGCTAAGGGTGTTTTTCATTTTACAGGGCTGTTGATGATGGGTAAAAATGTTTCATTTAAGGGCTAC
CCCCGTGTTTTAATAGATGAACACCACCTTCTACACAACCCTCCTTGGTACTGGGGGAGGGAGAGATCTGACAAATA
CTGCCCATTTCCCCTAGGCTGACTGGATTTGAGAACAAATACCCACCCATTTCCACCATGGTATGGTAACTTCTCT
GAGCTTCAGTTTCCAAGTGAATTTCCATGTAATAGGACATTCCCATTAATAACAAGCTGTTTTTACTTTTTTCGCC
TCCCAGGGCCTGTGGGATCTGCTCCCCAGCCTCTCTTGGGCTTTTCTTACACTAACTCTGTACCTACCATCTCCT
GCCTCCCTTAGGCAGGCACCTCCAACCACCACACACTCCCTGCTGTTTTCCCTGCCTGGAACTTTCCCTCCTGCC
CCACCAAGATCATTTTCATCCAGTCCTGAGCTCAGCTTAAGGGAGGCTTCTTGCCTGTGGGTTCCTCACCCTCAT
GCCTGTCTCTCCAGGCTGGGGCAGGTTCTTAGTTTGCCTGGAATTGTTCTGTACCTCTTTGTAGCACGTAGTGTG
TGAAACTAAGCCACTAATTGAGTTTCTGGCTCCCCTCCTGGGGTTGTAAGTTTTGTTTCATTCATGAGGGCCGAC
TGCAATTCCTGGTTACTCTATCCCAGTGACCAGCCACAGGAGATGTCCAATAAAGTATGTGATGAAATGGTCTT

3339/6881
FIGURE 3075

CGCGGACGGGGCGCGGGCGGACGATGGAACCTCCACATCTGGAGCACCGGCTGCAAGTTGCCAGCGTCGCCAAGGA
GAGTATCCCGCTGTTACCTACGGCCTGATCAAACCTTGCCCTTCTGTCTCCAAGACCAGAAGATGATGATTATT
CTCCACCGTCTAAGAGACCAAAGGCCAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGC
GGAAAGTGAGGGAGTTCAACTTCGAGAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGT
TTGAAAGGAAATATGCTCAAGCCATAAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCTAGTCTCATG
TTGAAGATCTTTATGTAGAAGGACTTCCTGAAGGAATTCCTTTTGAAGGCCATCTACTTACGGAATTCCTCGCC
TGGAGAGGATATTACTTGCAAAGGAAAGGATTTCGTTTTGTGATTAAGAAACATGAGCTTCTGAGTTCAACACGTG
AAGATTTACAGCTTGATAAGCCAGCTTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGA
TGGTGGATCAGCTTTTCTGCAAAAAATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAA
AATTTGAGGCACACCCGAATGATCTGTACGTGGAAGGACTGCCAGAAAACATTTCCTTTCCGAAGTCCCTCATGGT
ATGGAATCCCAAGGCTGGAAAAAATCATTCAAGTGGGCAATCGAATTAATTTGTTATTAAAGACCAGAACTTC
TGACTCACAGTACCACTGAAGTTACTCAGCCAAGAACGAATACACCAGTCAAAGAAGATTGGAATGTCAGAATTA
CCAAGCTACGGAAGCAAGTGAAGAGATTTTTAATTTGAAATTTGCTCAAGCTCTTGGACTCACCGAGGCAGTAA
AAGTACCATATCCTGTGTTTGAATCAAACCCGGAGTTCTTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCC
GAAGCCCTACCTGGTTTTGGAATTCACGACTTGAAAGGATCGTCCACGGGAGTAATAAAATCAAGTTTCGTTGTTA
AAAAACCTGAACTAGTTATTTCTACTTGCCTCCTGGGATGGCTAGTAAAATAAACACTAAAGCTTTGCAGTCCC
CCAAAAGACCACGAAGTCTTGGGAGTAATTCAAAGGTTTCCTGAAATTGAGGTCACCGTGAAGGCCCTAATAACA
ACAATCCTCAAACCTCAGCTGTTTCAACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGA
GAGAGTTTTCTTTGAGGCCTGGAATGCCAAAATCACGGACCTAAAACAGAAAGTTGAAAATCTCTTCAATGAGA
AATGTGGGGAAGCTCTTGGCCTTAAACAAGCTGTGAAGGTGCCGTTCGCGTTATTTGAGTCTTTCCCGGAAGACT
TTTATGTGGAAGGCTTACCTGAGGGTGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGA
TACTCAGAAAACAAAGCCAAAATTAAGTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAAGGAGAGCA
CCTCCTCTAAGAGCCCTCCCGAATAAATTCATCACCCAATGTTAATACTACTGCATCAGGTGTTGAAGACC
TTAACATCATTACAGGTGACAATTCCAGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAGCTAGACAGCTAA
GAGAACAAGTGAATGACCTCTTTAGTCGGAAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCT
ACAGGAAAATCACAATTAACCTTGGCTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGCCCCCA
GCTACCTGGAAATCAGCTCCATGAGAAGGATCTTAGACTCTGCCGAGTTTATCAAATTCACGGTCATTAGACCAT
TTCCAGGACTTGTGATTAATAACCAGCTGGTTGATCAGAGTGAGTCAAAGGCCCGGTGATACAAGAATCAGCTG
AACCAAGCCAGTTGGAAGTTCCAGCCACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAAC
CAGACCCACAGTGGTAGACCTCTTCCCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTCGGACCTGTT
ACTACCCCAAGCTGTGTAATATACTTGTATAACAGAAATACCTTCTATACAAACCTTTTTTTCTACTTTTAGATA
GAAATGTCTACTTTTTTCAGCAGTTCTGTGAATTAAGAGCAGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTT
GGGAATGTACTATCAGGATTTTACAGCAATGCTGGGAAATGACAGGGAAAATGACAGGAATGAATCTCACCAGAT
TTTTTATGTACTCAGCAGAGCCTTGAGTTACGGTGTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCT
ACTGGAACATCTCAGCTTCTGCAGTGAAGAAAAATTCCTGTGATAGTTTCAAGTTCTTTAGTTTTTCTATTTGAAAA
AAAAAATCATTAAATGATCCTTTGTTACGGCTCTCCTTAATGACTGAGTGAACAGTTCCCTATCTGTATATTT
GACTAAACCTTTTCTAAGCTATCTCTCATGGTTCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGA
TCACCTAACAGTCAGAGGTCAGTATCTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTTTT
ACTTTTCGTCCAAATAAAATGCATGGTGTACCAGAAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGAC
ACTAAGGCCCAACATCGCGGGACCTGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCA
GGGGTTCGCGTGGCCGGCATTATTTCTAGTTCTTCTTGTAAACCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGG
TCAGGGGGCTAAGGATGCAACCTCTGACGTTCTGCGCCTTCTAGGAGAGTCTTACATGTGTTGAGATTTACAA
GCAATGCGAGTTGTAAATACCAGCTCTACAAGAAGCTAGGCTCTGTGACGGCATAGTTTTTCAGTAGCTTTATCA
CAATATTCACAATGGAGAATTATATGACATGCTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTC
AAATTGTAGATATAGGGTAATCAATAAAATCCATCCATGCCTTTCACACACT

3340/6881
FIGURE 3076

AATTCCTGTCCTCAGGCGCTGTCAGATCTGTGGTTTTTCTACTTGAAGGACACA**ATG**TTTTCCAAACTAGCACAT
TTGCAGAGGTTTGCTGTACTTAGTCGCGGAGTTCATTCTTCAGTGGCTTCTGCTACATCTGTTGCAACTAAAAAA
ACAGTCCAAGGCCCTCCAACCTCTGATGACATTTTTGAAAGGGAATATAAGTATGGTGCACACAACCTACCATCCT
TTACCTGTAGCCCTGGAGAGAGGAAAAGGTATTTACTTATGGGATGTAGAAGGCAGAAAATATTTTGACTTCCTG
AGTTCTTACAGTGCTGTCAACCAAGGGCATTGTCACCCCAAGATTGTGAATGCTCTGAAGAGTCAAGTGGACAAA
TTGACCTTAACATCTAGAGCTTTCTATAATAACGTACTTGGTGAATATGAGGAGTATATTACTAAACTTTTTCAAC
TACCACAAAGTTCTTCTATGAATACAGGAGTGGAGGCTGGAGAGACTGCCTGTAAACTAGCTCGTAAGTGGGGC
TATACCGTGAAGGGCATTACAGAAATACAAAGCAAAGATTGTTTTTGCAGCTGGGAACCTTCTGGGGTAGGACGTTG
TCTGCTATCTCCAGTTCCACAGACCCAACCAGTTACGATGGTTTTGGACCATTTATGCCGGGATTTCGACATCATT
CCCTATAATGATCTGCCCGCACTGGAGCGTGCTCTTCAGGATCCAAATGTGGCTGCGTTTCATGGTAGAACCAATT
CAGGGTGAAGCAGGCGTTGTTGTTCCGGATCCAGGTTACCTAATGGGAGTGCAGAGCTCTGCACCAGGCACCAG
GTTCTCTTTATTGCTGATGAAATACAGACAGGATTGGCCAGAAGTGGTAGATGGCTGGCTGTTGATTATGAAAAT
GTCAGACCTGATATAGTCCTCCTTGGAAAAGGCCCTTTCTGGGGGCTTATACCCTGTGTCTGCAGTGCTGTGTGAT
GATGACATCATGCTGACCATTAAGCCAGGGGAGCATGGGTCCACATACGGTGGCAATCCACTAGGCTGCCGAGTG
GCCATCGCAGCCCTTGAGGTTTTAGAGAAGAAAACCTTGCTGAAAATGCAGACAAATTGGGCATTATCTTGAGA
AATGAACTCATGAAGCTACCTTCTGATGTTGTAACGCGTAAGAGGAAAAGGATTATTAAACGCTATTGTCATT
AAAGAAAACCAAAGATTGGGATGCTTGGAAGGTGTGTCTACGACTTCGAGATAATGGACTTCTGGCCAAGCCAACC
CATGGCGACATTATCAGGTTTTCGCCTCCGCTGGTGATCAAGGAGGATGAGCTTCGAGAGTCCATTGAAATTATT
AACAAGACCATCTTGCTTTT**CGAG**GGTAGCCAGCTGTTTTAGTGGTCCCTGGGAGCCAGCTGGAGACAGGTGG
TCCTGTAAAAGCTTTATTCCTAATGTGGGCACATTCCACTCCCATGAGTCTTCAAAAACCTTTTTTTTGAATATA
TTTTTTTCAGTTGATACATAATAGAACAACGTTTATGAACCTGCCGTTTGCTTTGTAACGTAACATAAATAATGTA
ATGGCATCTATATTCAGTTGAAGTGTGTTTATGATGTGCATGTGTAATTCCTAAGGTGAAATGCATCTATATACAGAC
AGCCTCTAAATCAAGTCCTTCAGTATAATTGATATATGTTTTTATAATTTCTCACTGGTATAAGTGTTCATAT
TTGAAAAAGTTATCTCTGGGTATTGCATAAAAGGCTTCATCTTATAAAGTGAAATCATTGTTATTGAATTTTAGG
AAGGATTAATGTTAAGTGTATATAAAATACTAATATTAAGTAACTTCATATTGGCCAACACCAGGGTTGTATT
CTATGGATGTCATTATTTTGAATTAAGAATTAGTGTTAACATTCCTAAATTGTTTTGAGTGCTTGATTATAATT
TGTAATAAATGTTTATTTTCAATACTTCTTTAAATTTAAATAAAGCTTATATTTCAAATGTC

3341/6881
FIGURE 3077

MFSKLAHLQRFAVLSRGVHSSVASATSVATKKTVQGPPTSDDIFEREYKYGAHNYHPLPVALERGKGIYLWDVEG
RKYFDFLSSYSAVNQGHCHPKIVNALKSQVDKLTLSRAFYNNVLGEYEEYITKLFNYHKVLPMTGVEAGETAC
KLARKWGYTVKGIQKYKAKIVFAAGNFWGRTLSAISSSTDPTSVDGFGPFMPGFDIIPYNDLPALERALQDPNVA
AFMVEPIQGEAGVVVPDPGYLMGVRELCTRHQVLFIADIEIQTGLARTGRWLAVDYENVRPDIVLLGKALSGGLYP
VSAVLCDDDIMLTIKPGEHGSTYGGNPLGCRVAIAALEVLEENLAENADKLGIIILRNELMKLPSDVVTAVRGKG
LLNAIVIKETKDWDWKVCLRLRDNGLLAKPTHGDIIRFAPPLVIKEDELRESIEIINKTILSF

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FIGURE 3078

GCCGCCGCCGCCACACCGGCCCTTCGGGAGCGTCTGAGGAGGCGCGGGCCGCTGCGGGCTCGGGCGCCGCAGCGC
GCCGCCCGAGCCCCTGGACGAGGCCACGGAGCCGCTCGCCCCGACCCAGCCGCCCGATGTCCTCAAAATGGAG
GCAGCGGGGGCGCGGGCGTGAAGAAAGCGGCGCTGTGGGCGCGGGAGTAGGGGGCCGGGCGGAGGCGGTGGCGGG
ATGGGGCTGCTGCTCATGATCCTGGCGTCGGCCGTGCTGGGTTCCCTTCCTCACGCTCCTCGCCCAGTTCTTCCTG
CTGTACCGCAGACAGCCCCGAGCCGCCGGCGGACGAGGCCGCCCGCGCGGGCGAGGGCTTCCGCTACATCAAGCCA
GTGCCGGGCTGCTCCTAAGGGAGTACCTTTATGGCGGCGGGCGGGATGAGGAGCCCTCCGGAGCGGCCCTGAG
GGCGGCGGACCCCCACCGCGGCCCCCGAGACCCCCGCCCGCGGACGCGGGAGACTTGCTACTTCCCTCAACGCC
ACCATCCTATTTCCTGTTCCGGGAGTTGCGGGACACCGCGCTGACCCGCCGCTGGGTCACCAAGAAGATCAAGGTG
GAGTTCGAGGAGCTGCTGCAGACCAAGACGGCCGGGCGCCTGCTGGAGGGGCTGAGCCTGCGGGACGTGTTCCCTG
GGCGAGACGGTGCCCTTCATCAAGACCATCCGGCTCGTGCGGCCAGTCGTGCCCTCGGCCACCGGGGAGCCCGAT
GGCCCTGAAGGGGAGGCGCTGCCCCGCGCCTGCCCCGAGGAGCTGGCCTTCGAGGCGGAGGTGGAGTACAACGGG
GGCTTCCACCTGGCCATCGACGTGGACCTGGTCTTCGGCAAGTCCGCCTACTTGTTTGTCAAGCTGTCCCGCGTG
GTGGGAAGGCTGCGCTTGGTCTTTACGCGCGTGCCCTTACCCACTGGTTCTTCTCCTTCGTGGAAGACCCGCTG
ATCGACTTCGAGGTGCGCTCCAGTTTGAAGGGCGGCCCATGCCCCAGCTCACCTCCATCATCGTCAACCAGCTC
AAGAAGATCATCAAGCGCAAGCACACCCTACCGAATTACAAGATCAGGTTGAATTAATAAAAGGAAATTTACAAA
GTGTTGGACTTACACTTCGTCTTGTCCAGTCAACTGATGGGTATGCTGGGCACGTATCATTGAAACTGTGGCTC
CAAACCTCGCCTGCTGCAATTGCAGATCTTCAGCGGGGAGATCGACTTATCGCCATTGGAGGTGTGAAAATCACAT
CAACACTGCAAGTGTGAAAGCTTATCAAGCAGGCTGGTGACCGAGTCCTGGTGTACTATGAAAGGCCTGTTGGCC
AGAGTAATCAAGGTGCAGTGCTGCAAGATAACTTTGGCCAGTTGGAAGAAAACTTTTTGTCAAGCTCATGCCAAT
CGGGTTATGAAGAGGAAGCTGCCGGGTTGACAGTAGATACTGAAAGTAGAGAGCTGGATTCTGAATTTGAAGACT
TGGCAAGTGATGTCAGAGCACAAAATGAGTTCAAAGATGAGGCACAATCATTAAGTCATAGTCCCAAACGTGTTT
CAACAACACTTTCTATTAAACCCCTTGGAGCTATATCACCAGTTTAAACCGTAAATTAGCTGTAGGAAGTCACC
CACTACCACCGAAAATTCAGTCCAAAGATGGAAATAAACCTCCACCCCTAAAAACTTCTGAGATAACAGACCCAG
CACAAGTGTCAAAACCAACCCAAGGATCTGCTTTCAAACCACTGTGCCACCACGACCACAAGCGAAAAGTTCCCTT
TGCCTTCCGCCGATGCTCCAAATCAGGCAGAACCAGATGTTCTCGTTGAAAAGCCAGAGAAGGTGGTGCCACCTC
CTCTTGTAGATAAATCTGCTGAAAAGCAAGCAAAAAATGTGGATGCCATAGACGATGCAGCTGCACCTAAGCAAT
TTTTAGCAAAGCAAGAAGTGGCCAAAGATGTCACCTTCAGAACTTCCCTGCCCTACTAAGGACAGTTCCGACGACC
GTCAAACATGGGAATCATCAGAAATTCCTTATCGTAATAAGCTAGGAAAATGGACAAGAACCAGAGCATCCTGTT
TGTTTGACATAGAAGCCTGTACAGGTACTTAAACATTGCATTGTGGTGCAGGGATCCTTTCAAGTTGGGAGGTG
TCATCTGTTTGGGGCATGTTAGTTTAAACTTGAAGATGTGGCTTTAGGATGCCTAGCTACATCAAACACGGAAT
ACCTTTCCAAATTGAGACTGGAAGCCCCCTCACCTAAGGCTATAGTCACTAGAACCGCACTACGCAATCTGAGTA
TGCAAAAAGGGATTCAATGACAAATTTTGCTATGGTGACATTACTATTCAATATTTGAAAGAAGGAGAAT
CAGACCACCATGTAGTTACTAACGT

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FIGURE 3079

MGLLLMILASAVLGSFLTLLAQFFLLYRRQPEPPADEAARAGEGFRYIKPVPGLLLREYLYGGGRDEEPSGAAP
GGATPTAAPETPAPPTRETCYFLNATILFLFRELRDTALTRRWVTKKIKVEFEELLQTKTAGRLLEGLSLRDVFL
GETVPFIKTIRLVRPVVP SATGEPDGPEGEALPAACPEELAFEAEVEYNGGFHLAIDVDLVFGKSAYLFVKLSRV
VGRRLRVFTRVPFTHWFFSFVEDPLIDFEVRSQFEGRPMPQLTSIIVNQLKKI IKRKHTLPNYKIRLN

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FIGURE 3080

AATCAAGAGGTTCCAATCTTTGTGTTCACTTTAAGAACACCATGAAACTGCTCAGGCCATCAAGGGTATACATAT
ATGAAAAGCCAAGAAGTATCTGAAAGATGTCACTTTACAGAAACAGTGTGTACCATTCTACGTTACAATGGTGG
AGTTAGCAGGTGTACGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCCAAAAGAGTGCTGAATTCTC
TGGTCATTGAGCACATCCAAGTGAACAAAACACCTAAGATGCGCCGCCGGACCCACAGAGCTCATGGTCGGATTA
ACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTCTAAATCAGAAG
AGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACTTATGGCACAGGAGTAAATTC
AGCATTAAAATAAATGTAATTAAAGG

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FIGURE 3081

MSLYRNSVYHSYVTMVELAGVRRPSSGAGHKVGGPKRVLNSLVIEHIQVNKTPKMRRRTHRAHGRINPYMSSPCH
IEMILTEKEQIVPKSEEEVAQKKKISQKKLKKQKLMAQE

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FIGURE 3082A

GGCGACTGCTGGCGAGGCGCGTGGGACCTTACGCTGGTTCCCTTCGTCTCCTCTCCCGGCCCGGGCCACTAGAG
AGTTCGCTGACGCCGGGTGAGCTGAGCCTGCCGCCAAGATGCCGGCCTATTTTCAGAGGCCGAAAATGCCCTCA
AACGCGCCAACGAATTTCTTGAGGTTGGCAAAAAGCAGCCTGCTCTGGATGTTCTTTATGATGTTATGAAAAGTA
AAAAACATAGAACATGGCAAAAAGATACACGAACCAATTATGTTGAAATACTTGGAACCTTTCGCTGGATCTTCGCA
AGAGCCACTTGGCAAGGAGGGGTTATACCAGTATAAGAACATTTGTCAACAGGTGAACATAAAATCTCTGGAGG
ATGTTGTTAGGGCATATTTGAAAATGGCAGAGGAAAAAACTGAAGCTGCTAAAGAAGAATCTCAGCAGATGGTCT
TAGATATAGAGGATCTAGATAATATTCAAACCTCTGAGAGTGTTCTCCTAAGTGCTGTAAGTGGTGAAGACACTC
AGGATCGTACTGACAGATTACTTTTAACTCCATGGGTTAAATTCCTGTGGGAGTCTTACAGGCAGTGTTTGGACC
TTCTTAGAAACAATTCTAGAGTAGAGCGCCTGTACCATGATATTGCCCAGCAAGCTTTCAAATTCCTGCCTCCAAT
ACACGCGTAAGGCTGAATTCGTAACCTGTGTGACAATTTGAGAATGCACTTATCGCAGATTACAGGCCACCATA
ACCAAAGTACGGCAATCAATCTTAATAATCCAGAGAGCCAGTCCATGCATTTGGAACCAGACTTGTTTCAGCTGG
ACAGTGCTATCAGCATGGAATTGTGGCAGGAAGCATTCAAAGCTGTGGAAGATATTCACGGGCTATTCTCCTTGT
CTAAAAAACCACTAAACCTCAGTTGATGGCAAATTACTATAACAAAAGTCTCAACTGTGTTTTGGAAATCTGGAA
ATGCTCTTTTTTCATGCATCTACACTCCATCGTCTTTACCATCTCTCTAGAGAAATGAGAAAGAATCTCACACAAG
ATGAGATGCAAGAATGTCTACTAGAGTCCTTTTAGCCACTCTTTCCATCCCTATTACTCCTGAGCGTACGGATA
TTGCTCGACTTCTGGATATGGATGGCATTATAGTTGAAAAACAGCGTCGCCTTGCAACACTACTAGGTCTTCAAG
CCCCACCGACACGAATTGGCCTTATTAATGATATGGTCAGATTTAATGTACTACAATATGTTGTCCAGAAAGTGA
AAGACCTTTACAATTGGCTTGAAGTAGAATTTAACCATTAAAACTCTGTGAGCGAGTCACAAAGGTTCTAAATT
GGGTTAGGGAACAACCTGAAAAGGAACCGGAATTGCAGCAGTATGTGCCACAAGTGAACAAACACCATCCTCC
GCCTTCTGCAGCAGGTGTACAGATTTATCAGAGCATTGAGTTTTCTCGITTTGACTTCTTTGGTTTCTTTTGTG
ATGCTTTTCCAAGTGAACGGGCCATAGTAGATGCAGCCAGGCATTGCGACTTGCAGGTTTCGTATTGATCACACTT
CTCGGACCCTGAGTTTTGGATCTGATTTGAATTATGCTACTCGAGAAGATGCTCCGATTGGTCTCATTTCGAAA
GCATGCCTTCAGAGCAGATAAGAAACCAGCTGACAGCCATGTCTCAGTACTTGCAAAGCAGTTGAAGTCATTA
AACCAGCTCATATACTGCAAGAGAAAGAAGAACAGCATCAGTTGGCTGTCACTGCATACCTTAAAAATTCACGAA
AAGAGCACCAGCGGATCCTGGCTCGCCGCCAGACAATTGAGGAGAGAAAAGAGCGCCTTGAGAGTCTGAATATTC
AGCGTGAGAAAGAAGAATTGGAACAGAGGGAAGCTGAACTCCAGAAAGTGCAGGAAGGCTGAGGAAGAGAGGCTGC
GCCAGGAAGCAAAGGAGAGAGAGAAGGAGCGTATCTTACAGGAACATGAACAAATCAAAAAGAAAAGTGTCCGAG
AGCGTTTGAGCAGATCAAGAAAACAGAACTGGGTGCCAAAGCATTCAAAGATATTGATATTGAAGACCTTGAGG
AATTGGATCCAGATTTTATCATGGCTAAACAGGTTGAACAACTGGAGAAAGAAAAGAAAGAACTTCAAGAAGCC
TAAAGAATCAAGAAAAGAAGATTGACTATTTTGAAAGAGCCAAACGTTTGGAAGAAATTCCTTTGATAAAGAGCG
CTTACGAGGAACAGAGAATTAAAGACATGGATCTGTGGGAGCAACAAGAGGAAGAAAGAATTACTACAATGCAGC
TAGAACGTGAAAAGGCTCTTGAACATAAGAATCGAATGTCACGAATGCTTGAAGACAGAGATTTATTCTGAATGC
GACTCAAAGCTGCACGGCAGTCTGTTTATGAGGAAAACTTAAACAGTTTGAAGAGCGATTAGCAGAAGAAAGGC
ATAATCGATTGGAAGAACGGAAAAGGCAGCGTAAAGAAGAACGCAGGATAACATACTATAGAGAAAAAGAGAGG
AGGAGCAGAGAAGGGCAGAAGAACAATGCTAAAAAGAGCGGGAAGAGAGAGAGCGCGCCGAACGAGCAAAACGCG
AGGAAGAGCTACGAGAGTATCAGGAGCGGGTGAAGAAATTAGAAGAAGTGGAAAGGAAAAACGCCAAAGGGAGT
TGGAATTTGAAGAACGAGAACGGCGTAGAGAGGAAGAGAGAAGACTTGCGGATAGTTCCCTTTCTAGAAAAGGACT
CTCGTTGGGGAGATAGAGATTCAGAAGGCACCTGGAGAAAAGGACCTGAAGCAGATTCTGAGTGGAGAAGAGGCC
CGCCAGAGAAGGAGTGGAGACGTGGAGAAGGGCGAGATGAGGACAGGTCTCATAGAAGAGATGAAGAGCGGCCCC
GGCGTCTGGGGGATGATGAAGATAGAGAGCCCTCTCTTAGACCAGACGATGATCGGGTTCCCCGGCGTGGCATGG
ATGATGACAGAGGCCCTAGACGTGGTCTGAGGAAGATAGGTTCTCTCGTCTGGGGCAGACGATGACCGGCCTT
CCTGGCGTAACACAGATGATGACAGGCCTCCAGACGAATTGCCGATGAAGACAGGGGAACTGGCGTCTATGCGG
ATGATGACAGACCACCTAGACGAGGACTGGATGAGGACAGAGGAAGCTGGCGAACAGCTGATGAGGACAGAGGAC
CAAGACGTGGGATGGATGATGACCGGGGGCCGAGGCGAGGAGGCGCTGATGATGAGCGATCATCCTGGCGTAATG
CTGATGATGACCGGGGTCCAGGCGAGGGTTGGATGATGATCGGGGTCCAGGCGAGGCATGGATGATGACCGGG
GTCCCAGGCGAGGCATGGATGATGACCGGGGTCCAGGCGAGGCATGGATGATGACCGGGGTCCAGGCGAGGGT
TGGATGATGATCGAGGACCTTGGAGGAACGCCGATGATGACAGAATTCAGGCGTGGTGCAGAGGATGACAGGG
GCCCTTGGAGAAACATGGATGATGATCGCCTTTCAAGACGTGCTGATGATGATCGGTTTCCAGACGGGGTGATG

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FIGURE 3082B

ACTCAAGACCTGGTCCTTGAGACCATTAGTCAAGCCAGGTGGATGGAGAGAGAAAAGAAAAAGCCAGAGAGGAGA
GCTGGGGTCCACCTCGAGAATCAAGGCCATCAGAAGAACGTGAATGGGACAGAGAAAAAGAAAGGGACAGAGATA
ATCAAGATCGGGAGGAGAATGACAAGGACCCTGAGAGAGAAAGGGACAGAGAGAGAGATGTGGATCGAGAGGATC
GCTTCAGAAGACCTAGGGATGAAGGTGGCTGGAGAAGAGGACCAGCTGAGGAATCTTCAAGCTGGAGAGACTCAA
GTCGCCGGGACGATAGGGATAGGGATGACCGTCGCCGTGAGAGGGATGACCGGCGTGATCTAAGAGAAAGACGAG
ATCTAAGAGACGACAGGGACCGAAGAGGACCTCCACTCAGATCAGAACGTGAAGAAGTAAGTTCTTGGAGACGTG
CTGATGACAGGAAAGATGACCGGGTGAAGAGCGGGACCCTCCTCGTCGAGTTCCTCCCCAGCTCTTTCAAGAG
ACCGAGAAAGAGACCGAGACCGAGAAAGAGAAGGTGAAAAAGAGAAGGCCTCATGGAGAGCTGAGAAAGATAGGG
AATCTCTCCGTCTACTAAAAATGAGACTGATGAAGATGGATGGACCACAGTACGACGT~~TAA~~GTCTCAAGATAAT
GGATTTAAACTGGTGTCTTAAATAGGTTTGATCACATTCAAGGATTATTATACTTGTGCTTCAACCAATCTAAAT
TGGATTCTTTAATGTTGTTTCACCATAACACAAAAAGCATGAACCTGTATTAATCCTATATAATAGATTGATCAT
GCACCATATCCACAGGAGGTTGGAAAAACCATGCCATTTTCTGGAATTTAAGGGTGTTCATTATTTTCATCAATC
ATTTGTTGACAAAAAGAAAAACTAAAAATAAATTTAAATGTGACCCTTCAGGTATTGAGTAACACCTTTATC
TTGGTATAGAACTGATACTTTTTTTTTTGATTTTGAAATATCTGATAATAATTTGGAATGAAGTAAGGTTCTGTTA
AAATATATTTGAAGACCCTTTAAAGCAGTGAATCTGAAACAATTTTCACACCCTTAAGTGGTTGATACGTACCTA
TTTTAGGTATTTTGAGGTATTTACCATAAACTAAATTTAGAAATTTTTTAGATTCACTTGAAGTAAACATTACAA
ACATTGGATACGGTGGGGTTTTCTTTAGATTTTACTTGAGAGAAGGTGAGTACAAAGCAATTTGCAGTTGTTGTA
ATGACAAGATTACTGCGCAAGTGTGAATCCAAACAGTATAGCTTTTAAATTTTAAAGCATTGGTAAATTATCGC
TGAGTTTTTTTCTGTTGCCAATAGCAAACCTGCTTTTCCATTAAATGGAGAATTCATGCCTTTCAAGCATTTTAAAT
ATGACAATATTTATAAATGTATGGTTTGGAGGAATCGTTTAAATTCTCTTTCCCTAATTTTCTTTCTTTGAAGAT
AGATTCTTTCAACAAGTAATTTGTAGTAATGACTGTGTTGACTTCAATTTTGGAGCGCAGTAGCTATGTTAAAGA
TGAACTATTTGGTCTCATTGAAGCCAACACAGAACTTGCTGCTGTGTTTTTTCTTCAGTGATAAATAAAATACTT
ACAG

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FIGURE 3083

MPAYFQRPENALKRANEFLEVGGKKQPALDVLYDVMKSKKHRTWQKIHEPIMLKYLELCVDLRKSHLAKEGLYQYK
NICQQVNIKSLEDVVAYLKMAEEKTEAAKEESQQMVLDIEDLDNIQTPEVLLSAVSGEDTQDRTDRLLLLTPWV
KFLWESYRQCCLLLRNNSRVERLYHDI AQQAFKFCLQYTRKAEFRKLCNLRMHLSQIQRHHNQSTAINLNNPES
QSMHLETRLVQLDSAISMEWQEAFAKVEDIHGLFSLSKKPPKQQLMANYYNKVSTVFWKSGNALFHASTLHRLY
HLSREMKNLTQDEMORMSTRVLLATLSIPITPERTDIARLLDMDGIIVEKQRRLATLLGLQAPPTRIGLINDMV
RFNVLYQYVPEVKDLYNWLEVEFNPLKLCERVTKVLNWVREQPEKEPELQQYVPQLQNNITILRLQQVSQIYQSI
EFSRLTSLVPFVDAFQLERAIVDAARHCDLQVRIDHTSRTLSFGSDLYATREDAPIGPHLQSMPSSEQIRNQLTA
MSSVLAKALEVIKPAHILQEKEEQHQLAVTAYLKNSRKEHQRI LARRQTIEERKERLESINI QREKEELEQREAE
LQKVRKAEERLRQEAKEREKERILOEHEQIKKKTVERERLEQIKKTELGAFAFKDIDIEDLEELDPDFIMAKQVE
QLEKEKKELQERLKNQEKKIDYFERAKRLEEIPLIKSAEYEEQRIKMDLWEQEEERITTMQLEREKALEHKNRM
SRMLEDRDLFVMRLKAARQSVYEEKLKQFEERLAEERHNRLEERKRQRKEERRITYYREKEEEEQRRAEEQMLKE
REERERAERAKREEELREYQERVKKLEEVERKKRQRELEIEERERRREEERRLGDSSLSRKDSRWGDRDSEGTWR
KGPEADSEWRRGPPEKEWRRGEGRDEDRSHRRDEERPRRLGDDEDREPSLRPDDDRVPRRGMDDDRGP RRGP
RFSRRGADDDRP SWRNTDDDRP PRRRIADEDRGNWRHADDDRP PRRGLDEDRG SWRTADEDRGP RRGMDDDRGP
GGADDERSSWRNADDDRG PRRGLDDDRGP RRGMDDDRGP RRGMDDDRGP RRGLDDDRGP WRNADD
DRIPRRGAEDDRGPWRNMDDRLSRRADDDRFPRRGDDSRPGPWRPLVKPGGWREKEKAREESWGPPRESRPSEE
REWDREKERDRDNQDREENDKDPERERDRERDVRDREDFRRPRDEGGWRRGPAEESSWRDSSRRDDDRDRDRR
ERDDRRDLRERRDLRDDDRDRGPPLRSEREEVSSWRRADDRKDDRVEERDPFRRVPPPALSRRDRERDRERE
KEKASWRAEKDRESLRRTKNETDEDGWTTVRR

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FIGURE 3084

CTCCACGCGCGGCCTGGCGGCGGCGGCCACTCTAACCAGCGCAAA**ATG**TCCCTGGAACAGGAGGAGGAAACGCAA
CCTGGGCGGGTCTCTAGGACGCAGAGACGCCGTCCCCGCCCTTCATTGAGCCCAACGTGCGCTTCTGGATCACCGAG
CGCCAATCCTTTATTTCGACGATTTCTTCAATGGACAGAATTATTAGATCCTACAAATGTGTTCATTTTCAGTTGAA
AGTATAGAAAACCTCGAGGCAACTATTGTGCACAAATGAAGATGTTTCCAGCCCTGCCTCGGCGGACCAAAGGATA
CAAGAAGCTTGGAAGCGGAGTCTTGCAACAGTGCATCCCGACAGCAGCAACCTGATCCCCAAGCTTTTTTCGACCT
GCAGCGTTCCTGCCTTTTCATGGCACCCACGGTATTTTTGTCAATGACGCCACTGAAAGGGATCAAGTCCGTGATT
TTACCTCAGGTTTTCTCTGTGCCTACATGGCAGCGTTCAACAGCATCAATGGAAACAGAAGTTACACTTGTAAAG
CCACTAGAAAGATCATTACTAATGGCGGGAGCCGTTGCTTCTTCAACTTTCTTAGGAGTAATCCCTCAGTTTGTGTC
CAGATGAAGTATGGCCTGACTGGCCCTTGGATTAAAAGACTCTTACCTGTGATCTTCTCGTGCAAGCCAGTGGA
ATGAATGTCTACATGTCCCGAAGTCTTGAATCCATTAAGGGGATTGCGGTCATGGACAAGGAAGGCAATGTCCTG
GGTCATTCCAGAATTGCTGGGACAAAGGCTGTTAGAGAAAACGCTAGCATCCAGAATAGTGCTGTTTGGGACCTCA
GCTCTGATTCTTGAAGTCTTCACCTACTTTTTTAAAAGGACCCAGTATTTTCAGGAAAAACCCAGGGTCATTGTGG
ATTTTGAAACTGTCTTGTACTGTCCTGGCAATGGGACTGATGGTGCCATTTTCTTTTAGTATATTTCCACAGATT
GGACAGATACAGTACTGTAGTCTTGAAGAGAAAAATTCAGTCTCCAACAGAAGAAACAGAAATCTTTTATCACAGA
GGGGTGT**TAG**GCGTGAGTTTTAGGTGAATTTATGTGGTTCCCTGCTTGAAAACCTTCCCCTCTCCAGGTTTCGGTTTA
GAGAACTTTGCCACAGGTCTTCTGGGGTTTTTAAGGCTGGCTGGAGAAGACAGTGGGAGGGTGCCCCGTCTGACA
CCCCTGGGGTTGCTGAGGGAACGGTTGGAGTGGGGATCGGCCTGCGAAAGGATACTGTGAAATCACTAATTAAC
AATAAACCTGTCTCAAGTTGAGGATTTGAAGAAA

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FIGURE 3085

MSLEQEEETQPGRLLGRRDAVPAFIEPNVRFWITERQSFIRRFLOWTELLDPTNVFISVESIENSRLCTNEDV
SSPASADQRIQEAWKRSLATVHPDSSNLIPKLFRPAAFLPFMAPTVFLSMTPLKGIKSVILPQVFLCAYMAAFNS
INGNRSYTCKPLERSLLMAGAVASSTFLGVIPQFVQMKYGLTGPWIKRLLPVIFLVQASGMNVYMSRSLESIKGI
AVMDKEGNVLGHSRIAGTKAVRETLASRIVLFGTSALIPFVFTYFFKRTQYFRKNPGSLWILKLSCTVLAMGLMV
PFSFSIFPQIGQIQYCSLEEKIQSPTEETEIFYHRGV

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FIGURE 3086

CTGAAGATGGCGGCTGCTGTAGGACGGTTGCTCCGAGCGTCGGTTGCCCGACATGTGAGTGCCATTCCCTGGGGC
ATTTCTGCCACTGCAGCCCTCAGGCCTGCTGCATGTGGAAGAACGAGCTTGACAAATTTATTGTGTTCTGGTTCC
AGTCAAGCAAAATTATTTCAGCACCAGTTCCTCATGCCATGCACCTGCTGTCACCCAGCATGCACCCTATTTTAAAG
GGTACAGCCGTTGTCAATGGAGAGTTCAAAGACCTAAGCCTTGATGACTTTAAGGGGAAATATTTGGTGCTTTTC
TTCTATCCTTTGGATTTACCTTTGTGTGTCCTACAGAAATTGTTGCTTTTAGTGACAAAGCTAACGAATTTTAC
GACGTGAAGTGTGAAGTTGTGCGAGTCTCAGTGGATTCCCACTTTAGCCATCTTGCTTGGATAAATACACCAAGA
AAGAATGGTGGTTTGGGCCACATGAACATCGCACTCTTGTGAGACTTAACTAAGCAGATTTCCCGAGACTACGGT
GTGCTGTTAGAAGGTTCTGGTCTTGCACTAAGAGGTCTCTTCATAATTGACCCCAATGGAGTCATCAAGCATTG
AGCGTCAACGATCTCCAGTGGGCCGAAGCGTGAAGAAACCCCTCCGCTTGGTGAAGGCGTTCCAGTATGTAGAA
ACACATGGAGAAGTCTGCCCAGCGAAGTGGACACCGGATTCTCCTACGATCAAGCCAAGTCCAGCTGCTTCCAAA
GAGTACTTTTCAAGGTAAATCAGTAGATCACCCATGTGTATCTGCACCTTCTCAACTGAGAGAAGAACCACAGT
TGAAACCTGCTTTTATCATTTTCAAGATGGTTATTTGTAGAAGGCAAGGAACCAATTATGCTTGTATTTCATAAGT
ATTACTCTAAATGTTTTGTTTTGTAAATCTGGCTAAGACCTTTTAAACATGGTTAGTTGCTAGTACAAGGAATC
CTTTATTGGTAACATCTTGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCTCTATAGAAGGCTATTCT
TAGATCATGTCTCAATGGAAACACTCTTCTTTCTTAGCCTTACTTGAATCTTGCCTATAATAAAGTAGAGCAACA
CACATTGAAAGCTTCTGATCAACGGTCCTGAAATTTTCATCTTGAATGTCTTGTATTAACTGAATTTTCTTTT
AAGCTAACAAAGATCATAATTTTCAATGATTAGCCGTGTAACCTCTGCAATGAATGTTTATGTGATTGAAGCAAA
TGTGAATCGTATTATTTTAAAAAGTGGCAGAGTGAAGTAACTGATCATGCATGATCCCTCATCCCTGAAATTGAG
TTTATGTAGTCATTTTACTTATTTTATTTCATTAGCTAACTTTGTCTATGTATATTTCTAGATATTGATTAGTGTA
ATCGATTATAAAGGATATTTATCAAATCCAGGGATTGCATTTTGAAATTATAATTATTTTCTTTGCTGAAGTATT
CATTGTAAACATACAAAATAACATATTTTAAA

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FIGURE 3087

MAAAVGRLLRASVARHVSAIPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAPYFKGT
AVVNGEFKDLSDLDFKGKYLVLFFYP LDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVDSHFSLAWINTPRKN
GGLGHMNIALLSDLTKQISR DYGVLL EGSGLALRGLFIIDPNGVIKHL SVNDLPVGRSVEETLRLVKAFQYVETH
GEVCPANWTPDSPTIKPSPAASKEYFQKVNQ

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FIGURE 3088

CAGAGGGAGGAAGAAGCGGCGGGCGGCGGGCGGGCGGGCGGGCTCCTCTTTGCAGAGGGGGAACTCTTGGGCT
GAGAGCAGGAATAATGCGGTAGGCAAGGCGGGCTGCTGGCTCCCCCGGCTCCGGCAGCAGCGGCGGCAGCCCGAG
CAGCGGCAGCAGCAGCGGCAGCACCCCAGGCGCTGACAGCCCCGCGGGCGGGCTCCGTTGCTGACCGCCGACTGT
CAATGGAGCTGGAAAACATCGTGGCCAACACGGTCTTGCTGAAAGCCAGGGAAGGGGGCGGAGGAAAGCGCAAAG
GGAAAAGCAAGAAGTGGAAAGAAATCCTGAAGTTCCCTCACATTAGCCAGTGTGAAGACCTCCGAAGGACCATAG
ACAGAGATTACTGCAGTTTATGTGACAAGCAGCCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTGAAACCAGGC
CTGGGCTGGAGTGTTACATTCAGTTCCTGGACTCCGTGGCAGAATATGAAGTTACTCCAGATGAAAACTGGGAG
AGAAAGGGAAGGAAATTATGACCAAGTACCTCACCCCAAAGTCCCCTGTTTTCATAGCCCAAGTTGGCCAAGACC
TGGTCTCCCAGACGGAGGAGAAGCTCCTACAGAAGCCGTGCAAAGAACTCTTTTCTGCCTGTGCACAGTCTGTCC
ACGAGTACCTGAGGGGAGAACCATTCCACGAATATCTGGACAGCATGTTTTTTGACCGCTTCTCCAGTGGAAAGT
GGTTGGAAAGGCAACCGGTGACCAAAAACACTTTCAGGCAGTATCGAGTGCTAGGAAAAGGGGGCTTCGGGGAGG
TCTGTGCCTGCCAGGTTTCGGGCCACGGGTAAAATGTATGCCTGCAAGCGCTTGGAGAAGAAGAGGATCAAAAAGA
GGAAAGGGGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAGGTCAACAGTCAGTTTGTGGTCAACCTGG
CCTATGCCTACGAGACCAAGGATGCACTGTGCTTGGTCTGACCATCATGAATGGGGGTGACCTGAAGTTCCACA
TCTACAACATGGGCAACCCTGGCTTCGAGGAGGAGCGGGCCTTGTTTTATGCGGCAGAGATCCTCTGCGGCTTAG
AAGACCTCCACCGTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTTAGATGATTATGGCCACA
TTAGGATCTCAGACCTGGGCTTGGCTGTGAAGATCCCCGAGGGAGACCTGATCCGCGGCCGGGTGGGCACTGTTG
GCTACATGGCTCCAGAGGTCTGAACAACAGAGGTACGGCCTGAGCCCCGACTACTGGGGCCTTGGCTGCCTCA
TCTATGAGATGATCGAGGGCCAGTCGCCGTTCCGCGGCCGCAAGGAGAAGGTGAAGCGGGAGGAGGTGGACCGCC
GGGTCTTGAGACGGAGGAGGTGTACTCCACAAGTTCTCCGAGGAGGCCAAGTCCATCTGCAAGATGCTGCTCA
CGAAAGATGCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGGCTGCAGAGGTCAAGAGACACCCCTTCTTCAGGA
ACATGAACTTCAAGCGCTTAGAAGCCGGGATGTTGGACCCCTCCCTTCGTTCCAGACCCCCGCGCTGTGTACTGTA
AGGACGTGCTGGACATCGAGCAGTTCTCCACTGTGAAGGGCGTCAATCTGGACCACACAGACGACGACTTCTACT
CCAAGTTCTCCACGGGCTCTGTGTCCATCCCATGGCAAAACGAGATGATAGAAACAGAATGCTTTAAGGAGCTGA
ACGTGTTTGGACCTAATGGTACCCTCCCGCCAGATCTGAACAGAAACCACCCTCCGGAACCGCCCAAGAAAGGGC
TGCTCCAGAGACTCTTCAAGCGGCAGCATCAGAACAAATTCGAAGAGTTCGCCCAGCTCCAAGACCAGTTTTTAACC
ACCACATAAACTCAAACCATGTCAGCTCGAACTCCACCGGAAGCAGCTAGTTTTCGGCTCTGGCCTCCAAGTCCAC
AGTGGAAACCAGCCCAGACCCTTCTCCTTAGAAGTGGAAGTAGTGGAGCCCCTGCTCTGGTGGGGCTGCCAGGGGA
GACCCCGGGAGCCGGGGAAGGAGGCCGTCCATCCCGTCGACGTAGAACCCTCGAGGTTTCTCAAAGAAATTTCCAC
TCAGGTCTGTTTTCCGAGGCGGCCCGGGCGGGGTGGATTGGATTGTCTTTGGTGAACATTGCAATAGAAATCC
AATTGGATACGACAACCTGCACGTATTTTAATAGCGTCATAACTAGAACTGAATTTTGTCTTTATGATTTTTAAA
GAAAAGTTTTGTAAATTTCTCTACTGTCTCAGTTTACATTTTGTATATTTGTATTTAAATGAAAGTGAGACTTTG
AGGGTGTATATTTTCTGTGCAGCCACTGTTAAGCCATGTGTTCCAAGGCATTTTAGCGGGGAGGGGGTTATCAA
AAAAAAAAAATGTGACTCAAGACTTCCAGAGCCTCAAATGAGAAAATGTCTTTATTAAATGTAGAAAGTGATCCA
TACTTC

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FIGURE 3089

GCGTGATCGGTTTTCCGGTCAGTGGTGTGGTACCGGGTACCCGGAGACGTGTATCGGACGGTGGGCCGCAGCCATG

GCCGAGAGAAAACCTAACGGTGGCAGCGGCGGCCTCCACTTCCTCATCGGGCACTAACTTACTTTTTCTCCTCC
TCGGCCACGGAGTTCAGCTTCAATGTGCCCTTCATCCAGTCACCCAGGCCCTCCGCTTCTCCGGCCTCCCTGCTC
TTACCGGGAGAGGATTCCACAGATGTTGGTGAGGAGGACAGCTTCCTTGGTCAGACTTCTATTACACATCTGCC
CCACAGACATTTAGTTACTTCTCTCAGGTATCAAGCAGCAGTGATCCTTTTGGGAATATTGGACAGTCACCATTA
ACAACCTGCAGCAACCTCAGTTGGACAATCAGGATTCCCAAGCCCCCTGACTGCTCTCCCTTTTACAACCTGGATCC
CAAGATGTCTCGAATGCATTTTCACCATCCATTTTGAAGGCTCAACCTGGTGTCTCCACCTTCCTCACTGATGGGA
ATAAATTCCTTATCTGCCTTCTCAGCCAAGTAGTCTCCCTCCTTCATATTTTGGGAACCAACCCCAAGGAATTCCC
CAACCAGGATACAATCCATATCGCCATACCCCTGGCAGCAGCAGGGCTAATCCTTACATTGCACCACCCAGCTG
CAGCAGTGCCAAACACCAGGCCCTCCTGCTCATCTCCACCTTCTGGACCCCTGTTTCAAGATGTACCAGATGCCT
CCAGGATCTTTGCCACCGGTTCTTCTTCAAGTGCAGTCACCGGCACAGCAGCAGGTACCTGCCAGACCTGGGGCT
CCCTCTGTTCAAGTGCCATCTCCTTTTCTACTTCAAACCAATATGAGCCTGTTTCAAGCCCACTGGTTTTACTGC
AAGGAGGTAGAATACAAACAACTGTGGATGCCTTTTAGTGTGTTTCAAGTCTTTGAATCTTGAAGAAATCTATAAT
TCAGTTTCAAGCAGATCCGGAGAGCGTGGTTCTTGGCAGGATGGAGGGCGCTACGATGTTTACCTCTATGACCGA
ATAAGGAAGGCTGCCTACTGGGAAGAGGAGCCAGCCGAAGTGAGACGCTGTACTTGGTTTTACAAGGGGGACACA
GATAGTCGATTTATTCCCTATACTGAGGAGTTCAGTGAAAACTAGAGGCTGAATATAAAAAAGCTGTAAACCACT
AATCAGTGGCACCAGGAAGATTAGAGTTTCCAAGTGGAGAGACAATTGTTATGCACAATCCAAAGGTTATTGTTTCA
TTCCAGCCCTCCTCAGTGCCAGATGAATGGGGCACCACGCAAGATGGACAGACAAGGCCAGGGTTGTAAAGCGT
GGAATTGATGATAACCTTGATGAAATCCCGACGGGGAGATGCCTCAAGTTGACCATTGTTGTTGTTGTTGTTGTTG
GGCATTGGACCTGTGTGTGACTTACGCTTTAGGAGCATTATTGAGTGTGTGGATGATTTTAGGGTGGTTTTCTCTC
AAATTGCTGCGGACACATTTCAAGAAATCTTTAGATGACGGGAAAAGTAAGCAGAGTGGAGTTCTTCCAGTTTCA
TGGCATAGTTCTTTGGGTGGGGACGCCACAGGTGTGGACAGGAATATTAAGAAAATCACTTTGCCAAGTATTGGT
CGATTTTCGTCACCTTACCAATGAAACTTTGCTAGATATTTTATTTTATAACAGCCCCACCTACTGTGACACAATT
GTGGAAAAAGTAGGAATGGAGATAAACCATCTGCATGCACCTCTTTATGAGTCGGAACCCAGACTTCAAAGGAGGT
GTCTCTGTTGCTGGTCACAGTTTAGGTTCTTTAATATTGTTTGAATCTTCTGCTAATCAAAAAGATTGAAATTA
TCAAAGTGCCTTGGACCTCTTGGCTGTTGCTAATGGAGTTGTGAAGCAGCTACATTTTCAAGAAAAGCAGATGCCT
GAAGAGCCAAAGCTGACTTTGGATGAGTCGTATGACCTTGTGTTGAAAATAAAGAAGTCCTAAGTTTGAAGAA
ACTCTGGAAGCACTTAGCCTCTCTGAATATTTTAGCAGCTTTTGAAGAGGAAAAGATTGATATGGAGTCCCTGCTT
ATGTGTACAGTTGATGACCTGAAGGAAATGGGGATACCCCTTGGACCCAGAAAGAAGATAGCTAAGTTTGTAGAA
CATAAAGCAGCCAACTGAAAAAAGCAGCGTCAGAAAAGAAGGCAGTGGCGGCCACTTCTACAAAAGGACAAGAG
CAAAGTGGCCAGAAGACTAAAGACATGGCTTCCCTCCCTCAGAAATCCAATGAGCCAAAGAGGAACTTCCAGTT
GGTGCTTGGCTGTCTTCTGTGTGTGTAATTATGAATCTTTTGAAGTTGGCGCCGGACAGGTTTCTGTTGCTTAC
AACTCATTAGATTTTGAACCAGAGATATTCTTTGCCTTGGGGTCTCCAATTGCTATGTTTCTCACTATTGAGGA
GTTGATAGGATAGATGAGAATTACAGCCTTCCCTACCTGTAAAGGGTTCTTCAATATTTATCATCCGCTTGATCCA
GTGGCATATAGATTAGAACCTATGATTGTTCCAGATTTGGACCTAAAAGCTGTTCTCATTCCACATCACAAAGGC
AGAAAAAGACTTCATTTAGAATTGAAAGAGAGTCTCTCTCGTATGGGATCTGATTTGAAGCAGGGTTTTATTAGC
TCTCTCAAAAAGTGCTTGGCAGACATTAAATGAGTTTGCCCGTGCTCATACGCTTCAACCCAGTTGCAAGAAGAA
TTGGAGAAAGTTGGCCAATCAGATCAAAGAAGAAGAAGAAAAGCAAGTAGTTGAAGCAGAAAAGGTTGTTGAAAGT
CCAGATTTTTTCCAAGGATGAGGACTACTTAGGAAAGGTTGGAAATGTTAAATGGAGGCCGCCGAATTGACTACGTT
CTCCAAGAAAAACCAATAGAGAGTTTTTAATGAATACCTTTTCGCTCTTCAGAGTCACTTATGCTATTGGGAATCT
GAAGATACTGCTCTGTTACTACTTAAAGAAATTTATCGAACAATGAACATTAGTCCAGAACAGCCCCAGCATTGA
TCAAACCTCAGTT

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FIGURE 3090

MAERKPNGSGGASTSSSGTNLLFSSSSATEFSFNVPFIPVTQASASPASLLLPGEDSTDVGEEDSFLGQTSIH
TSAPQTFSYFSQVSSSSDPFGNIGQSPITTAATSVGQSGFPKPLTALPFTTGSQDVSNFSPSISKAQPGAPSSLM
GINSYLPSQPSSLPPSYFGNQPGIPQPGYNPYRHTPGSSSRANPYIAPPQLQQCQTPGPPAHPPPSGPPVQMYQM
PPGSLPPVPSSVQSPAQQQVPARPGAPSVQVPSPFLLQNQYEPVQPHWFYCKEVEYKQLWMPFSVFDNLNLEEIY
NSVQPDPESVVLGTDGGRYDVYLYDRIRKAAYWEEPAEVRRTWIFYKGDTSRFIGPYTEEFSEKLEAEYKKAVT
TNQWHRRLFPSETIVMHNPKVIVQFQPSVPDEWGTQDQGQTRPRVVKRGIDDLNDEIPDGEMPQVDHLVFFV
HGIGPVCDLRFRSIIIECVDDFRVVSLLKLLRTHFKKSLDDGKVSERVEFLPVHWHSSLGGDATGVDRNIKKITLPSI
GRFRHFTNETLLDILFYNSPTYCQTIVEKVGMEINHLHALFMSRNPDKGGVSVAGHSLGSLILFDILSNQKDLN
LSKCPGPLAVANGVVKQLHFQEKQMPFEPKLTLDSEYDLVENKEVLTQETLEALSLSEYFSTFEKEKIDMESL
LMCTVDDLKEMGIPLGPRKKIANFVEHKAALKKAASEKKAVAATSTKGQEQSAQKTKDMASLPSESNEPKRKL
PVGACVSSVCVNYESFEVGAGQVSVAYNSLDFEPEIFFALGSPIAMFLTIRGVDRIDENYSLPTCKGFFNIYHPLD
PVAYRLEPMIVPDLDLKAVALIPHHKGRKRLHLELKESSLRMGSDLKQGFISLKS AWQTLNEFARAHTSSTQLQE
ELEKVANQIKEEEEEKQVVEAEKVVESPDFSKDEDYLGKVGMLNGGRRIDYVLQEKPIESFNEYLFALQSHLCYWE
SEDTALLLLKEIYRTMNISPEQPQH

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FIGURE 3091

GAACCGCCATCTTCCAGTAATTCGCCAAA~~ATC~~CACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACATATATGCGAATCTATAAGAAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCA~~TAA~~TAGGTGTTAAAAA
AAAAAATAAAGGACCTCTGGGCTACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3092

MTNKGKRRGTRYMFSRPFRKHGVVPLATYMRIYKKGDIVDIKMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV
VKNQVKGKILAKRINVRIEHIKHSKSRDSFLKRVKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRTNGKEPEL
LEPIPYEFMA

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FIGURE 3093

GAAGCAAGGAGGCGGCGGGCCGAGCGAGTGGCGAGTAGTGGAACGTTGCTTCTGAGGGGAGCCCAAGATGAC
CGGTTCTAACGAGTTCAAGCTGAACCAGCCACCCGAGGATGGCATCTCCTCCGTGAAGTTCAGCCCCAACACCTC
CCAGTTCCTGCTTGTCTCCTCCTGGGACACGTCCGTGCGTCTCTACGATGTGCCGGCCAACTCCATGCGGGCTCAA
GTACCAGCACACCGGCGCGCTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCA
TCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTTGTTGGGACCCATGATGCCCTATCAGATGTGT
TGAATACTGTCCAGAAGTGAATGTGATGGTCACTGGAAGTTGGGATCAGACAGTTAAACTGTGGGATCCCAGAAC
TCCTTGTAATGCTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGAGACCGGCTGATTGT
GGGAACAGCAGGCCGCGAGAGTGTGGTGTGGGACTTACGGAACATGGGTTACGTGCAGCAGCGCAGGGAGTCCAG
CCTGAAATACCAGACTCGCTGCATACGAGCGTTTCCAAACAAGCAGGGTTATGTATTAAGCTCTATTGAAGGCCG
AGTGGCAGTTGAGTATTTGGACCCAAGCCCTGAGGTACAGAAGAAGAAGTATGCCTTCAAATGTCACAGACTAAA
AGAAAATAATATTGAGCAGATTTACCCAGTCAATGCCATTTCTTTTACAAATATCCACAATACATTTGCCACAGG
TGGTTCTGATGGCTTTGTAAATATTTGGGATCCATTTAACAAAAAGCGACTGTGCCAATTCATCGGTACCCAC
GAGCATCGCATCACTTGCCTTCAGTAATGATGGGACTACGCTTGCAATAGCGTCATCATATATGTATGAAATGGA
TGACACAGAACATCCTGAAGATGGTATCTTCATTGCGCAAGTGACAGATGCAGAAACAAAACCCAAAGTCACCATG
TACTTGACAAGATTTTCATTTACTTAAGTGCCATGTTGATGATAATAAAAAAATTCGTACTCCCCAATGGTGGATT
TATTACTATTAAGAAAACCAGGGAAAATATTAATTTTAATATTATAACAACCTGAAAATAATGGAAGAGGTTT
TTGAATTTTTTTTTTTTAAATAAACACCTTCTTAAGTGCATGAGATGGTTTGATGGTTTGCTGCATTAAAGGTATT
TGGGCAACAAAATTTGGAGGGCAAGTGACTGCAGTTTTGAGAATCAGTTTTGACCTTGATGATTTTTTTGTTTCCA
CTGTGGAAATAAATGTTTGTAAATAAGTGTAAATAAAAAATCCCTTTGCATTCTTTCTGGACCTTAAATGGTAGAGG
AAAAGGCTCGTGAGCCATTTGTTTCTTTTGCTGGTTATAGTTGCTAATTCTAAAGCTGCTTCAGACTGCTTCATG
AGGAGGTAAATCTACAATTAAACAATATTTCTCCTGGCCGTCCATTATTTTCTGAAGCAGATGGTTTCATCATTT
CCTGGGCTGTAAACAAAGCGAGGTTAAGGTTAGACTCCTGGGAATCAGCTAGTTTTCAATCTTATTAGGGTGCA
GAAGGAAAATAATAAGAAAACCTCCTAATATCATTTTGTGACTGTAAACAATTATTTATTAGCAAACAATTGAT
CCCAGAAGGGCAAATTTGTTTGAGTCAGTAATGAGCTGAGAAAAGACAGAGCATATCTGTGTATTTGGAAAAATAA
TTGTAACGTAATTGCAGTGCATTTAGACAGGCATCTATTTGGACCTGTTTCTATCTCTAAATGAATTTTTTGGAAA
CATTAAATGAGGTTTACATATTTCTCTGACATTTATATAGTTCTTATGTCCATTTTCAAGTTGACCAGCCGCTGGTGA
TTAAAGTTAAAAAGAAAAAAATTATAGTGAGAATGAGATTCATTTCAATGTAATGCACTAAAGCAGAACACGAAC
TTAGCTTGGCCTATTCTAGGTAGTTCCAAATAGTATTTTTGTTGTCAAACCTTTAAAATTTATATTAATTTGCAA
TGTATGTCTCTGAGTAGGACTTGGACCTTTCTGAGATTTATTTTATCCGTGATGTATTTTTTTTAAATCTTTTG
ATACAGAGAAGGGTCTTTTTTTTTTAAAGTATTTTCAAGTAAAGTGGTGTAAAGTCTGAACCCATCTTTTGAAAT
GTATTTTCTTCATTGCAGGTCCACCTAATCATCCTGTGAAAGTGGTTTCTCTATGGAAAGCTTTGTTTGCTTCCT
ACAAATACATGCTTATTCCTTAAGGGATGTGTTAGAGTTACTGTGGATTTCTCTGTTTTCTGTCTTACAAGAAAC
TTGTCTATGTACCTTAATACTTTGTTTAGGATGAGGAGTCTTTGTGTCCCTGTACAGTAGTCTGACGTATTTCCC
CTTCTGTCCCCTAGTAAGCCCAGTTGCTGTATCTGAACAGTTTGAGCTCTTTTGTAAATATACTCTAAACCTGTT
ATTTCTGTGCTAATAAACGAGATGCAGAACCCTTGAAAAA

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FIGURE 3094

MTGSNEFKLNQPPEDGISSVKFSPNTSQFLLVSSWDTSVRLYDVPANSMRLKYQHTGAVLDCAFYDPTHAWSGGL
DHQLKMHDNLNTDQENLVGTHDAPIRCVEYCPEVNVMTGSDQTVKLWDPRTPCNAGTFSQPEKVYTLSVSGDRL
IVGTAGRRVLVWDLRNMGYVQQRRESSLKYQTRCIRAFPKNQGYVLSSIEGRVAVEYLDPSPEVQKKKYAFKCHR
LKENNIEQIYPVNAISFHNIHNTFATGGSDFVNIWDPFNKKRLCQFHRYPTSIASLAFSNDGTTLAIASSYME
MDDTEHPEDGIFIRQVTDATKPKSPCT

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FIGURE 3095

ATTTTCCACGCTGTACCGGCGGAAATTCAAGCACTGGAAGAGAGGTTCCGGGGCTGGGCTGGCCTGACTGAAGGC
GGCGGA**ATG**GAGACGCGGACCGAGGACGGGGGCCTCACCCGCCGCCCCACGCTGGCCTCTTCTTGGGATGTTGCA
GGCGGGGCCCTGACCCACAGCCTCCTCCTCACCCGGGCCGGTCTCGGCCCCGGTGACTTCGACTGGGAGGAGCTG
CTGGCACCGCCTGCTCCAGGTCAGGATCTGGTGATTTTGAAGAGAAACCACAACGACAAAGATGAAAACCCCTGC
TTCCTTTACCTGAGGTGTGGCCCTGATGGAGGTGAAGAAATCGCTTCTATTGGCATTTTAAGTTCAGCAAGAAAT
ATGGAAGTGTACTTAGGAGAGGAGTACTGTGGAACAGTAGGGGCAAGAATGTTTGTACTGTCCTGGATGACAGT
GAACATGAAAAGATCATTTTGTATAAAAAAATCTAAATTGGAGTCCTCCACACATGCTTGTAAAATAAAGTTG
CTCTCCTTTGGCGAAAGGCAGTGTGTGTTTCATCAGTAAAGTTGTGGTACACATGAGATCAGTTTTTGCAAATTCT
TCAACAAGCTCTCCTGCTCTAGGATCAAGGATAGACCTTGACAAGGTCCAAACCATAATGGAGTCCATGGGGTCA
AAGTTATCTCCTGGAGCTCAGCAGTTGATGGATATGGTTAGGTGTGACGAGCGGAATTGTATTCCCATTGGAGAG
CAGCTTCAGTCGGTGTGGGCAATTCTGGATACAAGCATATGATTGGACTACAATCCTCATCTACCTTAGGAACC
TTAAACAAGTCGTCTCCACACCTTTTCCTTTTAGAACTGGATTGACATCTGGGAACGTGACTGAAAACCTTACAA
ACTTACATTGATAAAAGTACACAACCTGCCTGGTGGAGAGAATTCTACCAAGCTTGATGAGTGTAAAGTTATGCCT
CAAAACCATTCCTTTCTTGAAAAATGATCTTAAAAATGCAATGGCCTCTTTCTTACCAAAGAAAGTAAGTGACAAC
TCAAATATAACCAACTCCGAGTTGCTGCCTTTTCTCCAGAATTTATGTAGTCAAGTTAATCATCTCCATGTGGGA
AATAAGACCGAGTGTGAGGAAAACATCACCAAGCATGGTGAACGCATTCTTGGTGTGGGAATGGAAGAGCAATCT
ATTTGCTCCTACTTGGAAGAAAGATTCTTTCTAAAAATATGGAAGTATGGAAAAGAACTTATGGATTACATTGAT
CAGCGAATACATGAAGTCCAGGAGCACATTGATGATAAGATTGCTTTGTTACTGGATTGTGCTGCAAAATCCTAAC
TCCCCGCCCACTGGGATACCTCTAAGACATTATGACTCTGGAGAAAAGACTTTCAAATGGAGAAAAGAT**TAAG**CTCTC
AACATAAACAGTGTACTGCAGATATTTATTACATATTTATTACAAAGCCAAAACCCAAAAATATTTATAAAAAAGC
AAGTATTTAATGTCCTTTGAGGGATCATTGTCTTACACAAAGTGACCTCAGTTTTCGTTTTTACTACACTTGTTA
TTTTAAATCCAGTACTGTACACTGAGTTAATATGATACAGTCAAATTATTTTTGCTCACGATATTTTTTCACTCTT
ACAGAAATGTATGTATATTTGTGTTAAGAGTTTAAATGCTTGAGGATTTCTAATACAGTTTATTAGTTTGTATT
GTATATGTGTTTAAGTATAATTTTTATTTATACAAAGATCTTATAGTCTTAGAAGTATGAAAATAATGCTTAAG
AGTATTTGATTTTTTTCTTTTTCTAATTATCTTGGAAAATTGGTACTTAAGACTTGGAGCCTTTACTTCAGATT
ACCAGTTTACATTTTGTATTGCTTGTGTGAGATAATGAATAAGATGTGATATTTGGCATGTGTAACTTAGTTCA
CTCTGGGGTTGTTAATATTATTTGTTTCATTACAGAGTAGCTGTAGGTAGGAAAGTAAACATCAGAACTAGCCTA
GTCCTTGTTACGATTAGTACTTTGGATTTGATTTTTCTGTAAAACAGATGCAGTCATCTTGTTTGACCTCAGTA
ACCCAGACAGTTTAAGAAAACCTCTCCTTTTGAGCTGATACAGGTTTTTTCCCAAGATCCTTTTCTGGCATGT
TTATTGTATGAAATAATGAGGCTCTCCATGGAAGGATGAACACATATGAGTCAAGGGATTGCAATTCCTCTCTGAT
AGACTTAGTTTTTCAGACCTTATAACTATTGTATATGCATTGAAGGGTGATATATTTGCATATAAAAAATAAACGCA
CCTGCTCTGGG

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FIGURE 3096

METRTEDGGLTRRPTLASSWDVAGGALTHSLLLTRAGLGP GDFDWEELLAPPAPGQDLVILKR NHNDK DENPCFL
YLRCGPDGGEEIASIGILSSARNMEVYLGE EYCGTSRGKNVCTVLD DSEHEKIILYKKNLKLESSTHACKIKLLS
FGERQCVFISKVVVHMRSVFANSSTSSPALGSRIDL DKVQTIMESMGSKLSPGAQQLMDMVRCQQRNCIP IGEQL
QSVLGNSGYKHMIGLQSSSTLGT LNKSSSTPFPFRTGLTSGNV TENLQTYIDKSTQLP GGENSTKLDECKVMPQN
HSFLENDLKNAMASFLPKKVDNSNIPNSELLPFLQNLCSQVNH LHVGNKTECQENITKHGERILGVGMEEQSIC
SYLEKILSKNMELMEKKLMDYIDQRIHELQEHIDDKIALLLDLLQNP NSPPTGIPLRHYDSGERLSNGER

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FIGURE 3097

GTGAGCGGCAACATGGCGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTTCCGCAGCCGCCGGATCCCCCA
GTCCAGCGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAG
GATGAAGAGGACGAGGTCAATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATTCCTATCAGATAATGATTAT
GACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAGATCTCTTA
ATTCAACAGAACCATATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGATGATATGGATGAA
GATGAGGTTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGTACCCAGTGTGTTGAACAAATTCAA
GAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAACAGCTGGACAAGTTTTTAAATGAC
ACCACCAAGCCTGTGGGCCTTCTCCTAAGTGAAGATTCAATTAATGTCCCTCCACAGATCGCTCTGCCCATGTAC
CAGCAGCTTCAGAAAGAACTGGCGGGGGCACACAGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTG
ATTAGTAAGACATTTGTGGAAGCAGGAAAAACAATTCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTA
ATGTTTGCAAATGCAGAGGAAGAATTTTTCTATGAGGAGCAGGGAAAACCTGAGGTGCTTGGAGGTCCAGACACA
AGAAGAGGATTGGAACCAGTTCCGATACAGCACAAATGGTGGTTACGGGGGCAAGTGACAGCCCTGGTTTCTCTG
AAGGCTGGACTAATTCAATCAAGATCAACTCTAAGTGATTTCCAGGGAACCTTCATGACTGTTGGAATTGCTCTG
TCATTAAAGTCAGGGATATTTAGGAGGCTCATAGTCTCCTGGAGGGATAAAACATCTCGGCACCTAGTAATGGT
AAATTAGTCAATATTTGTTAGTTTCGTTTGAGATCTCAAATGTTAGGATTTTCTGAAGTCTCAGTGTCTTTCAGA
GTTTGAGATACCTTGTTTTCATTTTTTCTAATTTTTAATTTAAAGTAATAAAGAATATTTTGTAATGATTAGGA
TGAAAATTTTATCGTCAATTATAAGCCAAAATTTGCTAAAATTAAAGTCAGTATACTTGGAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 3098

MASRSKRRAVESGVPQPPDPPVQRDEEEEKEVENENEDEDDSDKEKDEEDEVIDEEVNIEFEAYSLSDNDYDGIK
KLLQQFLKAPVNTAELTDLLIQQNHIGSVIKQTDVSEDSNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVL
RFCEKNCEKSMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQQLQKELAGAHRTNKPCGKCYFYLLISK
FVEAGKNNSSKKKPSNKKKAALMFANAEFFFYEEQGKPEVLGGPDTRRGLEPVPIQHNGGSRGQVTALVSLKAGL
IQSRSTLSDFQGTFMTVGIALS

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FIGURE 3099

GCGGAGCGAGCCCTGAAAGGCTATAGGCGAGGGGGCGGCTCCGCGGGGCGGGGCGAGGAGTCCAGAGAGCC**ATGG**
CCGCCCTGCGTGTCCTGCTGCTCCTGCGCCCGCGGCCCGCTGAGGCCCGGTTGCTGTCCCGCCTGGCGTCCCT
TCGCCTCGGGTGCTAACTTTGAGTACATCATCGCAGAAAAAGAGGGAAGAATAACACCGTGGGGTTGATCCAAC
TGAACCGCCCCAAGGCCCTCAATGCACTTTGCGATGGCCTGATTGACGAGCTCAACCAGGCCCTGAAGATCTTCG
AGGAGGACCCGGCCGTGGGGGCCATTGTCCTCACCGGCGGGGATAAGGCCTTTGCAGCTGGAGCTGATATCAAGG
AAATGCAGAACCTGAGTTTCCAGGACTGTTACTCCAGCAAGTTCTTGAAGCACTGGGACCACCTCACCCAGGTCA
AGAAGCCAGTCATCGCTGCTGTCATGGCTATGCCTTTGGCGGGGGCTGTGAGCTTGCCATGATGTGTGATATCA
TCTATGCCGGTGAGAAGGCCAGTTTGCACAGCCGGAGATCTTAATAGGAACCATCCCAGGTGCGGGCGGCACCC
AGAGACTCACCCGTGCTGTTGGGAAGTCGCTGGCGATGGAGATGGTCCTCACCGGTGACCGGATCTCAGCCCAGG
ACGCCAAGCAAGCAGGTCTTGTGTCAGCAAGATTTGTCTGTTGAGACACTGGTGGAAGAAGCCATCCAGTGTGCAG
AAAAAATTGCCAGCAATTCTAAAATTGTAGTAGCGATGGCCAAAGAATCAGTGAATGCAGCTTTTGAAATGACAT
TAACAGAAGGAAGTAAGTTGGAGAAGAACTCTTTTATTCAACCTTTGCCACTGATGACCGGAAAAGAAGGGATGA
CCGCGTTTGTGGAAAAGAGAAAGGCCAACTTCAAAGACCAG**TGA**GAACCAGCTGCCCCTGCTTCACACCTCTGCT
TGGAGAGGACAAGTGCAGCCTGTCAGTTTTAGAAGCAAGTAAATCATCCTCTTTTCAAGAGCAGTGTCCGTGGTG
TGCAGTTCCTCTCCAATTGCTGCGTGCTGCTGGCCCGACCTCTCACGGCATGACAGCCTTCGTCACCCAGCCTGT
GAGGGTCCTGACTGGAGCACCTTCTAAATCTAAGATTCTGCTGAGGAGCCCCGCTGGTCCCTCTGGGCATGCTG
TGCTCGGACGGAAGCGGGGCCTGCGGGTCCTTGTGTCCCTGCCGCTGAAGAATGGGGCTGCTCTGAGGGAAACG
CTGTCTGCTGCCTTCATACAGATGCTGATTAAAGTGATAGCGATTCAGATT

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FIGURE 3100

MAALRVLLSCARGPLRPPVRCPAWRPFASGANFEYIIAEKRGKNNTVGLIQLNRPKALNALCDGLIDELNQALKI
FEEDPAVGAIIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKHWDHLTQVKKPVIAAVNGYAFGGGCELAMMCD
IIYAGEKAQFAQPEILIGTIPGAGGTQRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQC
AEKIASNSKIVVAMAKESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ

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FIGURE 3101

GGCGGAAGTGGCTCCGGGACTGCGGAGAACATATTGTGATGTTTCGTGCCTCAGAGCTAAAACTATGAGTGAATTT
CGGATTACCATGACGTCAATGAACTGCTTAGCCTGCTGCGTGTCCACGGAGGAGATGGGGCTGAGGTCTACATT
GACCTGCTTCAAAAGAACAGGACCCCGTACGTCACTACCACTGTCTCTGCTCACAGTGCCAAGGTTAAAATTGCA
GAGTTTTCTCGTACTCCAGAAGACTTTCTAAAGAAATATGATGAACTGAAATCTAAAAATACAAGGAACCTTGAC
CCGCTGGTGTACCTGTTGTCAAAGCTCACGGAAGACAAAGAGACTCTGCAGTACTTACAACAGAATGCAAAAGAA
AGAGCTGAGCTTGAGCCGCTGCTGTGGGCAGCAGTACCACCAGCATCAACGTCCCTGCCGCGGCCTCCAAGATC
TCCATGCAGGAGCTTGAGGAAGTGAAGGAGCAGCTTGGCAGCGTGGCCACAGGCTCCACGCTGCAGCAGTCTCTG
GAACTTAAAAGAAAGATGCTTCGAGACAAGCAGAACAAAAAAATTCAGGCCAGCACCTCCCCATCTTCCCAGCA
TGGGTGTATGAGAGACCTGCCCTGATCGGGGATTTCTTGATTGGTGTGCTGGCATCAGCACAGACACCGCTTTGCCG
ATAGGCACGTTGCCCCCTGGCCTCGCAGGAGTCGGCCGTTGGTGGAGGACCTGCTGTACGTGCTGGTGGGCGTGGAC
GGGAGGTACGTCACTGCTCAGCCCCCTGGCTGGGAGGCAGAGCCGACCTTCTCGTGGACCCCAACCTGGACCTG
TCCATCAGGGAGCTGGTGCACAGGATCCTCCAGTGGCCGCCAGCTACTCCGCTGTGACCAGGTTCAATTGAAGAG
AAGTCTTCTTCGAGTACGGGCAGGTGAACCACGCCCTGGCGGCCGCCATGCGCACCCCTGGTGAAGGAGCACCTG
ATTCTGGTGTACAGCTGGAGCAGCTGCACAGGCAGGGCCTCCTTTCGCTGCAGAAGCTCTGGTTCTACATCCAG
CCAGCCATGCGCACCATGGACATCCTGGCCTCCCTCGCCACCTCGGTGGACAAAGGCGAATGTCTTGGGGGGTCC
ACGCTGAGCCTGCTCCACGACAGGAGCTTCAGCTACACAGGGGACAGCCAGGCGCAGGAGCTATGCCTGTACCTA
ACCAAGGCGGCCAGTGCTCCCTACTTTCGAGGTTCTGGAGAAGTGGATCTACAGGGGCATCATCCACGACCCATAC
AGTGAGTTTATGGTCGAGGAGCACGAGCTGCGGAAGGAGAGGATCCAGGAGGATTACAACGACAAGTACTGGGAC
CAGCGGTACACCATCGTCCAGCAGCAGATCCCGTCTTCTCGCAGAAAATGGCGGACAAGATCCTCAGCACAGGA
AAATATCTAAATGTGGTCAGAGAGTGTGGCCATGACGTACCTGCCCGGTGGCTAAAGAGATCATCTACACGTTA
AAAGAGCGGGCGTATGTGGAGCAGATCGAGAAGGCGTTTAACTACGCCAGCAAGGTGCTGCTGGACTTCTTGATG
GAGGAGAAGGAGCTGGTGGCTCACCTCAGGTCCATCAAGCGCTACTTCTCATGGACCAGGGCGACTTCTTCGTG
CACTTCATGGACCTCGCGGAGGAGGAGCTCCGGAAGCCGGTGGAGGACATCACGCCCCCTCGCCTGGAAGCGCTC
CTGGAGCTGGCGCTGCGCATGAGCACGGCCAACACTGACCCCTTCAAGGACGACCTCAAGATCGACCTGATGCC
CATGACCTCATCACTCAGCTCTTGCGCGTCTTGCCATCGAGACCAAGCAGGAGAAGGCGATGGCGCACGCCGAC
CCCACGGAGCTGGCGCTGAGCGGCCTGGAGGCCTTCTCTTTCGACTACATCGTCAAGTGGCCCCCTTTCGCTCATC
ATCAACAGGAAAGCCCTCACTCGCTACCAGATGCTCTTCAGGCACATGTTCTATTGCAAGCACGTGGAGCGGCAG
CTCTGCAGCGTCTGGATCAGCAACAAAACCGCCAAGCAGCACTCGCTGCACTCCGCCCAGTGGTTTGTGTTGGGCT
TTCACCTCTGCGGCAGCGAATGCTCAACTTCGTCCAGAATATTCAATACTACATGATGTTTGAAGTGATGGAACCG
ACCTGGCACATCCTGGAGAAAAACCTGAAATCCGCCTCCAACATTGACGACGTCCTTGGCCACCACACAGGCTTC
CTGGACACCTGCCTGAAGGACTGCATGCTACCAACCCCCGAGCTGCTGAAGGTCTTCTCCAAGCTCATGTCTGTG
TGCGTCATGTTACCAACTGCATGCAGAAATTTACACAGAGCATGAAATTAGATGGCGAGCTGGGCGGGCAGACG
CTGGAGCACAGCACCGTCTTGGGGCTGCCCCGAGGGGCCGAGGAGCGGGCCCGGAAGGAGCTCGCCAGGAAGCAC
CTGGCTGAGCACGCAGACACTGTGCAGCTGGTGTCCGGCTTCGAGGCCACCATCAACAAGTTTGACAAGAACTTC
TCAGCCCACCTGCTGGACCTCCTGGCCCGGTGAGCATCTATAGCACCAGTGACTGTGAGCACGGCATGGCCAGC
GTCATCTCCAGGCTTGACTTCAATGGTTTCTACACGGAGCGCCTGGAGCGCCTGTCTGCAGAGAGGAGCCAGAAG
GCCACCCCCCAAGTGCTGTCTGCGGGGGCCCCCGGCTCCTGCACCCAGGGTCGCAGTCACCGCACAGTGAAGCC
CTGGCTGTGACAGGAAGGAAGGTGTGGGGTCAGCAGGGACTGGTGCAAATGGGTCCAGAATTTTCAAATC

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FIGURE 3102

MSEFRIHHDVNELLSLLRVHGGDGAEVYIDLLQKNRTPYVTTTSAHSAKVKIAEF SRTPEDFLKKYDELKSKNT
RNLDPLVYLLSKLTEDKETLQYLQQNAKERAELAAAAGVSSSTTSINVPAAASKISMQEELELRKQLGSVATGSTL
QQSLELKRKMLRDKQNKKN SGQHLPIFFPAWVYERPALIGDFLIGAGISTDTALPIGTLPASQESAVVEDLLYVL
VGVDGRYVSAQPLAGRQSRFTFLVDPNLDLSIRELVHRILPVAASYS AVTRFIEEKSSFEYGQVNHALAAAMRTL
KEHLILVSQLEQLHRQGLLSLQKLWFIQIPAMRTMDILASLATSVDKGECLEGGSTLSLLHDSFSYTGDSQAQEL
CLYLTKAASAPYFEVLEKWIYRGIIHDPYSEFMVEEHELKRIQEDYNDKYWDQRYTIVQQQIP SFLQK MADKI
LSTGKYLNVVRECGHDVTCPVAKEIIYTLKERAYVEQIEKAFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQG
DFFVHFMDLAEELRKPVEDITPPRLEALLELALRMSTANTDPFKDDLKIDLMPHDLITQLLRVLAIETKQEKAM
AHADPTELALSGLEAFSFDYIVKWPLSLI INRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHSLSAQW
FAGAFTLRQRM LN FVQNIQYYMMFEVMEPTWHILEKNLKSASNIDDLGHHTGF LDTCLKDCMLTNPELLKVFSK
LMSVCVMFTNCMQKFTQSMKLDGELGGQTLEHSTVLGLPAGAEERARKELARKHLAEHADTVQLVSGFEATINKF
DKNFSAHLDDLARLSIYSTSDCEHGMAVISRLDFNGFYTERLERLSAERSQKATPQVPVLRGPPAPAPRVAVT
AQ

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FIGURE 3103

GACCCGGCCATGCGCGGCCTCGGGCTCTGGCTGCTGGGCGCGATGATGCTGCCTGCGATTGCCCCAGCCGGCCC
TGGGCCCTCATGGAGCAGTATGAGGTGCTGTTGCCGTGGCGTCTGCCAGGCCCCCGAGTCCGCCGAGCTCTGCC
TCCCACCTTGGGCCTGCACCCAGAGAGGGTGAGCTACGTCTTGGGGCCACAGGGCACAACCTTACCCCTCCACCTG
CGGAAGAACAGGGACCTGCTGGGCTCCGGCTACACAGAGACCTATACGGCTGCCAATGGCTCCGAGGTGACGGAG
CAGCCTCGCGGGCAGGACCACTGCTTCTACCAGGGCCACGTAGAGGGGTACCCGGACTCAGCCGCCAGCCTCAGC
ACCTGTGCCGGCCTCAGGGGTTTCTTCCAGGTGGGGTCAGACCTGCACCTGATCGAGCCCCCTGGATGAAGGTGGC
GAGGGCGGACGGCACGCCGTGTACCAGGCTGAGCACCTGCTGCAGACGGCCGGGACCTGCGGGGTGAGCGACGAC
AGCCTGGGCAGCCTCCTGGGACCCCGACGGCAGCCGTCTTCAGGCCTCGGCCCGGGGACTCTCTGCCATCCCGA
GAGACCCGCTACGTGGAGCTGTATGTGGTCTGTGGACAATGCAGAGTTCCAGATGCTGGGGAGCGAAGCAGCCGTG
CGTCATCGGGTGCTGGAGGTGGTGAATCACGTGGACAAGCTATATCAGAACTCAACTTCCGTGTGGTCTCTGGTG
GGCCTGGAGATTTGGAATAGTCAGGACAGGTTCCACGTGAGCCCCGACCCAGTGTACACTGGAGAACCTCCTG
ACCTGGCAGGCACGGCAACGGACACGGCGGCACCTGCATGACAACGTACAGCTCATCACGGGTGTGACTTCACC
GGGACTACCGTGGGGTTTGGCAGGGTGTCCGCCATGTGCTCCACAGCTCAGGGGCTGTGAACCAGGACCACAGC
AAGAACCCCGTGGGCGTGGCCTGTACCATGGCCCATGAGATGGGCCACAACCTGGGCATGGACCATGATGAGAAC
GTCCAGGGCTGCCGTGCCAGGAACGCTTCGAGGCGGGCCGTGCATCATGGCGGGCAGCATTTGGCTCCAGTTTC
CCCAGGATGTTTCACTGACTGCAGCCAGGCCTACCTGGAGAGCTTTTTGGAGCGGCCGAGTCGGTGTGCCTCGCC
AACGCCCCCTGACCTCAGCCACCTGGTGGGCGGCCCGTGTGTGGGAACCTGTTTGTGGAGCGTGGGGAGCAGTGC
GACTGCGGGCCCCCGAGGACTGCCGGAACCGCTGCTGCAACTCTACCACCTGCCAGCTGGCTGAGGGGGCCAG
TGTGCGCACGGTACCTGCTGCCAGGAGTGCAAGGTGAAGCCGGCTGGTGAGCTGTGCCGTCCCAAGAAGGACATG
TGTGACCTCGAGGAGTTCTGTGACGGCCGGCACCCCTGAGTGCCCGGAAGACGCCTTCCAGGAGAACGGCACGCCC
TGCTCCGGGGGCTACTGCTACAACGGGGCCTGTCCACACTGGCCAGCAGTGCCAGGCCTTCTGGGGGCCAGGT
GGGCAGGCTGCCGAGGAGTCTGCTTCTCCTATGACATCCTACCAGGCTGCAAGGCCAGCCGGTACAGGGCTGAC
ATGTGTGGCGTTCTGCAGTGCAAGGGTGGGCAGCAGCCCCCTGGGGCGTGCCATCTGCATCGTGGATGTGTGCCAC
GCGCTCACCACAGAGGATGGCACTGCGTATGAACCACTGCCCGAGGGCACCCGGTGTGGACCAGAGAAGGTTTGC
TGGAAGGACGTTGCCAGGACTTACAGTTTACAGATCCAGCAACTGCTCTGCCAGTGCCACAACCATGGGGTG
TGCAACCACAAGCAGGAGTGCCACTGCCACGCGGGCTGGGCCCCGCCCCACTGCGCGAAGCTGCTGACTGAGGTG
CACGCAGCGTCCGGGAGCCTCCCCGTCTTCGTGGTGGTGGTTCTGGTGCTCCTGGCAGTTGTGCTGGTCAACCCTG
GCAGGCATCATCGTCTACCGCAAAGCCCGGAGCCGCATCCTGAGCAGGAACGTGGCTCCCAAGACCACAATGGGG
CGTCCAACCCCTGTTCCACCAGGCTGCCAGCCGCGTGCCGGCCAAGGGCGGGGCTCCAGCCCCATCCAGGGGC
CCCCAAGAGCTGGTCCCCACCAACCCGGGCCAGCCCGCCCCGACACCCGGCCTCCTCGGTGGCTCTGAAGAGG
CCGCCCCCTGCTCCTCCGGTCACTGTGTCCAGCCACCCCTTCCAGTTCTGTCTACACCCGGCAGGCACCAAAG
CAGGTCATCAAGCCAACGTTTCGACCCCCAGTGCCCCAGTCAAACCCGGGGCTGGTGCGGCCAACCTTGGTCCA
GCTGAGGGTGCTGTTGGCCCCAAAGGTTGCCCTGAAGCCCCCATCCAGAGGAAGCAAGGAGCCGAGCTCCACAG
CACCTAGGGGGGCACCTGCGCCTGTGTGGAAATTTGGAGAAGTTGCGGCAGAGAAGCCATGCGTTCCAGCATTC
CACGGTCCAGCTAGTGCCGCTCAGCCCTAGACCCCTGACTTTGCAGGCTCAGCTGCTGTTCTAACCTCAGGAATGC
ATCTACCTGAGAGGCTCCTGCTGTCCACGCCCTCAGCCAATTCCTTCTCCCCGCTTGGCCACGTGTAGCCCCAG
CTGTCTGCAGGCACCAGGCTGGGATGAGCTGTGTGCTTGCGGGTGCGTGTGTGTACGTGTCTCCAGGTGGCCG
CTGGTCTCCCGCTGTGTTTCAAGAGGCCACATATACAGCCCCCTCCAGCCACACCTGCCCCCTGCTCTGGGGCCTGC
TGAGCCGGCTGCCCTGGGCACCCGGTTCCAGGCAGCACAGACGTGGGGCATCCCCAGAAAGACTCCATCCCAGGA
CCAGGTTCCCCTGCGTGCTCTTCGAGAGGGTGTGAGTGAGCAGACTGCACCCCAAGCTCCCGACTCCAGGTCCCC
TGATCTTGGGGCCTGTTTCCCATGGGATTCAAGAGGGACAGCCCCAGCTTTGTGTGTGTTTAAAGCTTAGGAATCG
CCTTTATGGAAAGGGCTATGTGGGAGAGTCAGCTATCTTGTCTGGTTTTTCTTGAGACCTCAGATGTGTGTTTACG
AGGGCTGAAAGCTTTTATTCTTTAATAATGAGAAATGTATATTTTACTAATAAATTATTGACCGAGTTCTGTAGA
TTCTTGTTAGA

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FIGURE 3104

ATGGGCCAGAATGTTGCAGATTACATGTGCTACTTAATGCAAGAAGATGAAGATGCTTACAAGAAACAGTTCTCT
CAATACATAAAGAACAGCGTAACTCCAGACATGAGAGATAAGAAAGCTCATGCTGCTCTACAAGAGAATCCAGGC
TATGAGAAGAAGCCCAAGAAAGAAGTTCGAAAGAAGAGGCAAAACCGTCCCAAATGGCCTTGCTCAGAAGAAA
GTTCTGGGTAGCTCAAAGAAGGCAAGCTTCCTTGGAGCTCAGGAGCTGCTTGA

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FIGURE 3105

MGQNVADYMCYLMQEDEDAYKKQFSQYIKNSVTPDMRDKKAHAALQENPGYEKKPKKEVRKKRQNRPKMAFAQKK
VRVAQRRQASLELRSC

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FIGURE 3106

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCACTGATTCTACATTATGGTGAGTTCTATGATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGATCATGACTCACAATGGCCTATTTAGGCCCATACCCTACGTAC
GGCAGCCTCCACAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCAGGTC
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCAGCCCAGCATCTACCTCACTTGGACCCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTTGGCAGCCTCTCCAGGCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 3107

CGGCCGCCCCCGCGACTGCGCCACGTCTGAGGCGGGCTGTGGCCACGTCTGAGGCGGGCTGTGGCCGCGTCGGTGTC
CGCGTCGAGGAGCCGGGGCAGGGCACGATGGCGGACTGGGCTCGGGCTCAGAGCCCGGGCGCTGTGGAAGAGATT
CTAGACCGGGAGAACAAGCGAATGGCTGACAGCCTGGCCTCCAAAGTCACCAGGCTCAAATCGCTCGCCCTGGAC
ATCGATAGGGATGCAGAGGATCAGAACCGGTACCTGGATGGCATGGACTCGGATTTACAAGCATGACCAGCCTG
CTTACAGGGAGCGTGAAGCGCTTTCCACAATGGCAAGGTCCGGACAAGACAACCGGAAGCTTCTATGTGGCATG
GCCGTGGGTCTAATTGTGGCCTTCTTCATCCTCTCCTACTTCTTGTCAGGGCAAGGACGTGAGCCAGTGGGAGC
TGGTGTCTGTGGGTGCCAAGGGCAGCCAGCGGTCTTCCCTGCCTGGTGTTTTGGGCTCCACAGGACTTACCTACA
AAATACTCCTTTGCAATGAT

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FIGURE 3108

MADWARAQSPGAVEEILDRENKRMADSLASKVTRLKSLALDIDRDAEDQNRYL DGMDSDFTSMTSLLTGSVKRFS
TMARSGQDNRKLLCGMAVGLIVAFFILSYFLSRART

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FIGURE 3109

CGGGGCCGGCGAACTGCGGCCCCGGAACGGCTGAGGAAGGGCCCGTCCCGCCTTCCCCGGCGCGCC**ATG**GAGCCCC
GGGCGGTTGCAGAAGCCGTGGAGACGGGTGAGGAGGATGTGATTATGGAAGCTCTGCGGTCATACAACCAGGAGC
ACTCCCAGAGCTTCACGTTTGATGATGCCCAACAGGAGGACCAGGAAGAGACTGGCGGAGCTGCTGGTCTCCGTCC
TGGAACAGGGCTTGCCACCCTCCCACCGTGTCTGCTGGCTGCAGAGTGTCCGAATCCTGTCCCGGGACCGCAACT
GCCTGGACCCGTTACCAGCCGCCAGAGCCTGCAGGCCTAGCCTGCTATGCTGACATCTCTGTCTCTGAGGGGT
CCGTCCCAGAGTCCGCAGACATGGATGTTGTACTGGAGTCCCTCAAGTGCCTGTGCAACCTCGTGCTCAGCAGCC
CTGTGGCACAGATGCTGGCAGCAGAGGCCCGCCTAGTGGTGAAGCTCACAGAGCGTGTGGGGCTGTACCGTGAGA
GGAGCTTCCCCACGATGTCCAGTTCCTTGACTTGCGGCTCCTCTTCTGCTAACGGCACTCCGCACCGATGTGC
GCCAGCAGCTGTTTCAGGAGCTGAAAGGAGTGCGCCTGCTAACTGACACACTGGAGCTGACGCTGGGGGTGACTC
CTGAAGGGAACCCCCACCCACGCTCCTTCTTCCCAAGAGACTGAGCGGGCCATGGAGATCCTCAAAGTGCTCT
TCAACATCACCCCTGGACTCCATCAAGGGGGAGGTGGACGAGGAAGACGCTGCCCTTTACCGACACCTGGGGACCC
TTCTCCGGCACTGTGTGATGATCGCTACTGCTGGAGACCGCACAGAGGAGTTCCACGGCCACGCAGTGAACCTCC
TGGGGAACCTGCCCCCTCAAGTGTCTGGATGTTCTCCTCACCCCTGGAGCCACATGGAGACTCCACGGAGTTCATGG
GAGTGAATATGGATGTGATTTCGTGCCCTCCTCATCTTCTTAGAGAAGCGTTTGCACAAGACACACAGGCTGAAGG
AGAGTGTAGCTCCCGTGTGCTGAGCGTGTGACTGAATGTGCCCGGATGCACCGCCAGCCAGGAAGTTCCTGAAGG
CCCAGGTGCTGCCCCCTCTGCGGGATGTGAGGACACGGCCTGAGGTTGGGGAGATGCTGCGGAACAAGCTTGTCC
GCCTCATGACACACCTGGACACAGATGTGAAGAGGGTGGCTGCCGAGTTCTTGTTTGTCTGTGCTCTGAGAGTG
TGCCCCGATTTCATCAAGTACACAGGCTATGGGAATGCTGCTGGCCTTCTGGCTGCCAGGGGCCTCATGGCAGGAG
GCCGGCCCCGAGGGCCAGTACTCAGAGGATGAGGACACAGACACAGATGAGTACAAGGAAGCCAAAGCCAGCATAA
ACCTGTGACCGGGAGGGTGGAGGAGAAGCCGCCTAACCTATGGAGGGCATGACAGAGGAGCAGAAGGAGCACG
AGGCCATGAAGCTGGTGACCATGTTTGACAAGCTCTCCAGGAACAGAGTCATCCAGCCAATGGGGATGAGTCCCC
GGGGTCATCTTACGTCCCTGCAGGATGCCATGTGCGAGACTATGGAGCAGCAGCTCTCCTCGGACCCCTGACTCGG
ACCTTGACT**TGA**GGATGGCAGCTCTTCTGCTCCCCCATCAGGACTGGTGTGCTTCCAGAGACTTCCTTGGGGTTG
CAACCTCGGGAAGCCACATCCCACTGGATCCACACCCGCCCCCACTTCTCCATCTTAGAAAACCCCTTCTCTTGAC
TCCCGTTCTGTTTCATGATTTGCCTCTGGTCCAGTTTCTCATCTCTGGACTGCAACGGTCTTCTTGTGCTAGAACT
CAGGCTCAGCCTCGAATTCCACAGACGAAGTACTTTCTTTTGTCTGCGCCAAGAGGAATGTGTTTCAGAAGCTGCT
GCCTGAGGGCAGGGCCTACCTGGGCACACAGAAGAGCATATGGGAGGGCAGGGGTTTGGGTGTGGGTGCACACAA
AGCAAGCACCATCTGGGATTGGCACACTGGCAGAGCCAGTGTGTTGGGGTATGTGCTGCACTTCCCAGGGAGAAA
ACCTGTTCAGAACTTTCCATACGAGTATATCAGAACACACCCCTTCCAAGGTATGTATGCTCTGTTGTTTCTGTCT
GTCTTCACTGAGCGCAGGGCTGGAGGCTCTTAGACATTCTCCTTGGTCTCGTTTCAGCTGCCCCTGTAGTATC
CACAGTGCCCGAGTTCTCGCTGGTTTTTGGCAATTAAACCTCCTTCTTACTGGTTTACTACTACACTTACAACAAGG
AAAATGCCCCCTCGTGTGACCATAGATTGAGATTTATACCACATACCACACATAGCCACAGAAACATCATCTTGAA
ATAAAGAAGAGTTTTTGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3110

MEPRAVAEAVETGEEDVIMEALRSYNQEHSQSFTFDDAQQEDRKRLAELLVSVLEQGLPPSHRVIWLQSVRILSR
DRNCLDPFTSRQSLQALACYADISVSEGSVPESADMDVVLESCLKCLCNLVLSSPVAQMLAAEARLVVKLTERVGL
YRERSFPHDVQFFDLRLLFLLTALRTDVRQQLFQELKGVRLTDTLELTGVTPEGNPPPTLLPSQETERAMEIL
KVLFNITLDSIKGEVDEEDAALYRHLGTLLRHCVMIATAGDRTEEFHGHAVNLLGNLPLKCLDVLLTLEPHGDST
EFMGVNMDVIRALLIFLEKRLHKTHRLKESVAPVLSVLTECARMHRPARKFLKAQVLPPPLRDVTRPEVGEMLRN
KLVRLMTHLDTDVKRVAAEFLFVLCSESVPRFIKYTGYNAGLLAAGLMAGGRPEGQYSEDEDTDDEYKEAK
ASINPVTGRVEEKFPNPMEGMTEEQKEHEAMKLVMTFDKLSRNRVIQPMGMSPRGHLTSLQDAMCETMEQQLSSD
PDSDPD

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FIGURE 3111

TTTCCGGCAGCCATCCCCGCGGTGCTGACATCCCGGTTGTTCTTCTGTGCCGGGGGTCTTCCTGCTGTC**ATGAAG**
GACGTACCGGGCTTCCTACAGCAGAGCCAGAGCTCCGGGCCCGGGCAGCCCGCTGTGTGGCACCGTCTGGAGGAG
CTCTACACGAAGAAGTTGTGGCATCAGCTGACACTTCAGGTGCTTGATTTTGTGCAGGATCCGTGCTTTGCCCAA
GGAGATGGTCTCATTAAAGCTTTATGAAAACCTTTATCAGTGAATTTGAACACAGGGTGAATCCTCTGTCCCTCGTG
GAAATCATTCTTCACGTAGTTAGACAGATGACTGATCCTAATGTGGCTCTTACTTTTCTGGAAAAGACTCGTGAG
AAGGTGAAAAGTAGTGATGAGGCAGTGATCCTGTGTAAACAGCAATTGGAGCTCTAAAATTAAACATCGGGGAC
CTACAGGTTACAAAGGAAACAATTGAAGATGTTGAAGAAATGCTCAACAACCTTCCTGGTGTGACATCGGTTTAC
AGTCGTTTCTATGATCTCTCCAGTAAATACTATCAAACAATCGGAAACCACGCGTCCTACTACAAAGATGCTCTG
CGGTTTTTGGGCTGTGTTGACATCAAGGATCTACCAGTGTCTGAGCAGCAGGAGAGAGCCTTCACGCTGGGGCTA
GCAGGACTTCTCGGCGAGGGAGTTTTTAACCTTTGGGAGAACTCCTCATGCACCCTGTGCTGGAGTCCCTGAGGAAT
ACTGACCGGCAGTGGCTGATTGACACCCTCTATGCCTTCAACAGTGGCAACGTAGAGCGGTTCCAGACTCTGAAG
ACTGCCTGGGGCCAGCAGCCTGATTTAGCAGCTAATGAAGCCAGCTTCTGAGGAAAATTGAGTTGTTGTGCCTC
ATGGAGATGACTTTACACGACCTGCCAATCACAGACAACCTCACTTTTGAAGAAATTGCCAAAAGTGCTAAAATC
ACAGTGAATGAGGTGGAGCTTCTGGTGATGAAGGCCCTTTCCGGTGGGGCTGGTGAAAGGCAGTATAGACGAGGTG
GACAAACGAGTCCACATGACCTGGGTGCAGCCCCGAGTGTGGATTGCAACAGATCAAGGGAATGAAGGACCGC
CTGGAGTTCTGGTGCACGGATGTGAAGAGCATGGAGATGCTGGTGGAGCACCAGGCCCATGACATCCTCACCT**TAG**

GGCCCCCTGGTTCCCCGTCGTGTCTCCTTTGACTCACCTGAGAGAGGCATTTGCAGCCAATGAAGCTGGCTGCTC
AGACGGTCGACATTGAATTTGGGTGGGGGTGGGATCCTGTCTGAAGTACAGACTGTCCCTGCTCTAAAACAGG
ACTGTCCCTGATGGGAGCCAGGCCACAGGGAGGAGGCTTCTTTGTGGGTCTCTCCTGCAGAGGGTGGGGGTCTCA
GGGTCTTAGGTGATACGGGAGAGAAAGAACGTGCCAGGCAGGAGGCCCTTGAAGTCTGTGTACTCCGAGGTGGA
TCTCCATCCCCATCCACCTGTACGGACATCTTTCCGTTGTGGTTTGAGAATGTTTCTATAATAAACCCCTCTGC
TTTGTT

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FIGURE 3112

MKDVPGFLLQSSSGPGQPAVWHRLEELYTKKLWHQLTLQVLDFVQDPCFAQGDGLIKLYENFISEFEHRVNPLS
LVEIILHVVRQMTDPNVALTFLEKTRKVKSSDEAVILCKTAIGALKLNIGDLQVTKETIEDVEEMLNNLPGVTS
VHSRFYDLSSKYYQTIGNHASYYKDALRFLGCVDIKDLPVSEQQERAFTLGLAGLLGEGVFNFGEMLMHPVLES
RNTDRQWLIDTLYAFNSGNVERFQTLKTAWGQQPDLAANEAQLLRKIQLLCLMEMTFTRPANHRQLTFEEIAKSA
KITVNEVELLMKALSVGLVKGSIDEVDKRVHMTWVQPRVLDLQQIKGMKDRLEFWCTDVKSMEMLVEHQAHDI
T

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FIGURE 3113

CAACACAGGGGCAGTCTCCAGGACCTCCACACCATTAAACAAGATGAGCCTTGTGCTCCCTTGGGCTCTAGAGAGG
AAGCCCCCTCTGAGCCCTCAGCCCCCTCTTTCCCTCCCTCTCCTAAAGTAATTTGATCCTCAGGAATTTGTTCTGCCC
TCATCTGGCCCTGGCCAGCTCTGCATTTGACAAATGCCAGGAAGAGGAAACTGTTGAGAAAACGGAACACTACTGGG
GAAAGGGAGGGGCTCACTGAGAACCATCCCGGTAACCCGACCGCCGCTGGTCACCATGAACCACATTGTGCAAACC
TTCTCTCCTGTCAACAGCGGCCAGCCTCCCAACTACGAGATGCTCAAGGAGGAGCAGGAAGTGGCTATGCTGGGG
GGGCCCCACAACCCTGCTCCCCGACGTCCACCGTGATCCACATCCGCAGCGAGACCTCCGTGCCTGACCATGTC
GTCTGGTCCCTGTTCAACACCCTCTTCATGAACACCTGCTGCCTGGGCTTCATAGCATTCGCCTACTCCGTGAAG
TCTAGGGACAGGAAGATGGTTGGCGACGTGACCGGGGCCAGGCCTATGCCTCCACCGCCAAGTGCCTGAACATC
TGGGCCCTGATTTTGGGCATCTTCATGACCATTCTGCTCGTCATCATCCCAGTGTTGGTTCGTCCAGGCCAGCGA
TAGATCAGGAGGCATCATTGAGGCCAGGAGCTCTGCCCGTGACCTGTATCCCACGTACTCTATCTTCCATTCCCTC
GCCCTGCCCCCAGAGGCCAGGAGCTCTGCCCTTGACCTGTATTCCACTTACTCCACCTTCCATTCCCTCGCCCTGT
CCCCACAGCCGAGTCCTGCATCAGCCCTTTATCCTCACACGCTTTTCTACAATGGCATTCAATAAAGTGATATG
TTTCT

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FIGURE 3114

MNHIVQTFSPVNSGQPPNYEMLKEEQEVAMLGPHNPAPPTSTVIHIRSETSVDPDHVVWSLFNTLFMNTCCLGFI
AFAYSVKSRDRKMVGDTVGAQAYASTAKCLNIWALILGIFMTILLVIIPVLVVQAQR

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FIGURE 3115

TTTAACACCCATAGTAGGCCTAAAAGCAGCCACCAATTAAGAAAGCCACAGCACGTACACCCACTCCAGGGATCT
GCCAGCACCCCTGTGGGGCCAGACTACAGGCTGATGCGCGGAGGCTTCGAGTGACCCGGGTGCTGAGGAGCGGGAA
GAGTTGCTGGGGCCCACTGCTCAGTGAGCGTGGAGGACGAGGAGGAGGCCGTCCACGAGCAATGCCAGCATGAG
AGAGACAGGCAGCTTCAGGCCCAGGACGAGGAGGGAGGCGGCCATGTCCCCGAGCGGCCGAAGCAGGAGATGCTC
CTCAGCCTGAAGCCCTCGGAGGCCCTGAACTGGATGAGGACGAGGGCTTTGGCGACTGGTCCCAGAGGCCAGAG
CAGCGGCAGCAGCACGAGGGGGCGCAGGGCGCCTTGACAGCGGAGAGCCCCCAGTGCAGGAGTCCTGAGGGG
GAGCAAGAGGACAGGCCCCGGCCTGCATGCCTACGAAAAGGAGGACAGTGATGAAGTCCACCTGGAGGAGTTGAGT
CTGAGCAAGGAGGGGCCAGGCCCAGAGGACACTGTCCAGGACAACCTGGGGGCCGAGGGGCTGAGGAGGAACAG
GAGGAGCACCAGAAATGTCAGCAGCCCAGGACACCCAGCCCCCTTGGTCTTGAGGGGGACCATCGAACAGAGCTCG
CCTCCCCTGAGCCCTACCACCAAACCTCATCGACAGGACCGAGTCCCTAAACCGCTCCATAGAGAAGAGTAACAGT
GTGAAGAAATCCCAGCCAGACTTGCCCATCTCCAAGATTGATCAGTGGCTGGAACAATACACCCAGGCCATCGAG
ACCGCTGGCCGGACCCCCAAGCTAGCCCGCCAGGCCTCCATAGAGCTGCCAGCATGGCTGTGGCCAGTACCAAG
AGTCGGTGGGAGACGGGTGAGGTACAGGCTCAGTCTGCGGCCAAGACTCCGTCCTGCAAGGATATTGTGGCTGGA
GACATGAGCAAGAAAAGCCTCTGGGAGCAGAAGGGAGGCTCCAAGACCTCATCAACAATTAAGAGCACCCCATCT
GGGAAGAGGTATAAGTTTGTGGCCACCGGGCATGGGAAGTATGAGAAGGTGCTTGTGGAAGGGGGCCCGGCTCCC
TAGGCGTCCCATCTCGCTTCCTGGGTCTGCAGGTCCAGCCGGCTGGCACCCCTCCATGTACCCAGGGGAGATTCCA
GCCAGACACCCGCCCCCGGCCCTGGCTAAGAAGTTGCTTCCTGTTGCCAGCATGACCTACCCTCGCCTCTTTGA
TGCCATCCGCTGCCACCTCCTTTTGTCTCTGGACCCTTTAGCCTCTCTGCCCTTCCACTCTCTGACCACCGCCCC
CGCCCTCCCCACCCAGCTCCGCTTCTTGTACTTGGGGGAGGAAAGAACTCCTGATCATTGGCCAAAGGGACTT
ACCCCTGGAGAGGCCAAGTGCCTTCTAGGAAGTTAGGAGGTTGAGGCACAGCCTGTGCAGAGAGGGTGGGTCACC
CCCCCAGATCCAAGGGGAAACTGCAGGTCAAGGGCTGATAACGGCCATGCAGGATGCTTGATGCTGCGTCCCCCG
CTGCTTGCCGCCCCCACCCGCCATTTTGTATAATAAAGCTCCCTGTGTATTCTC

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FIGURE 3116

MAEASSDPGAEEEREELLGPTAQWSVEDEEEAVHEQCQHERDRQLQAQDEEGGGHVPERPKQEMLLSLKPSEAPEL
DEDEGFGDWSQRPEQRQQHEGAQGALDSGEPPQCRSPEGEQEDRPGLHAYEKEDSDEVHLEELSLSKEGPGPEDT
VQDNLGAAGAEEREEHQCQQRTPSPPLVLEGTIEQSSPPLSPTTKLIDRTESLNRSIEKSNSVKKSQPDLPIS
KIDQWLEQYTQAIETAGRTPKLARQASIELPSMAVASTKSRWETGEVQAQSAAKTPSCKDIVAGDMSKKSLWEQK
GSKTSSTIKSTPSGKRYKFVATGHGKYEKVLVEGGPAP

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FIGURE 3117

TTGCTGTAACAGTGTTTTATTGATGATGAGTCCAGGGCTCCTGCTGAAGCCCTGGTGGGGAGGGGCACAGAGCGAG
ATGGGGCGTAATGGAATGCTTGAAGGCTGCTCCGTGATGTCGGTCGGAGCTTCCAGACTAGGCGAGGGCAGGGTG
AGGCCTCGGGCACACAGCCGGCGCCAGTCACCCGGCCAGATGGAGGGCGGGCCGGCCCTGCACAGGCACTTGC
CAAGGTGGCTCACACTCACGCACACTCGTACTGAGACTCAAGGCCGTCTCCACAACCTCAACCAGTGCAAATGAC
TTAGTGCAAATTAAATTTCAGAAGGGACGGGGGAAACAGAGTCGTGGAGGCTTTGAATCTCTCAGAAAAAAGGAAA
GACAGGAAAGCTCAGAAACAAAGAGACAGAAGGATGAAAAAGAAGAAGAGGGAGGTGGTGGGGACGGCGTCATCC
CGCTGGAGGAGCTCAGCTCTGGGATGATGTGGTGGCTGGTGGTCAACCGTCCGCCGCAGGGGGTGGCCATGAAGA
TGGAGTCGCCGGTGC GG GTGGGTGCTGCGGGCGCTGCTGTTCCGATGGTGTCTTTGATGTTGGGCTGATGAGGT
CTGGTTCCTCTAGCTTCCAGAGCCGATTCTGAGTCAGGTAGTGCAGTGGTTGTAAAGTGCAGCATATTCATTTTC
CAAGCTAGAGGGTTTTGTGTCCGGATTCAAAGGCCCAGGCTTGAGCTGGGTAGCACCATTCTTTTCATGTTGTGG
GTTCTGGGAGCCCAGAGGGCAGCCATAGTGTGCCGACTCCGTGGAGGAAGTAAAGAAACAGACCCGCTTCTTGCC
GCAGCCCCACCAGCCTAAGGTGTTTCAGGAAGGCCGGACGCGCCTCCTCTGTCCTCGCCGTCACACCGGACCATGT
CATGTCCTGCTTGTACGTCCACCGGACCTGGCGTCTTGGCCTTCGGCAGCTGGTGGGCACGTCCACCCAGCTG
GAGACCTGGCCTCGTCTCCAGCCCGAACGCTGAGGCAACGATCCCGGCTCCGTGCGCGCCCGCGAGGCCCGCCTT
GGCCACGGGCTCTGGAGGCCAGTGCTCCCGCTCGCCGCCCGCTGCGCTCCTCACCCCTGCCTGCACCATCCTCC
CTCCTGAGAGCTCATTCACTCCGCCCCGCCCCGCTCGCCTAGTCTGGTCTCGCCCCATGCCCTTGACTCCCCCTGG
ATGCTGTACTGTCTGCCAAGCCAGCCCCAGGGGCTGAGCGGTGAGGGCATAACAGCGTCACCAAGTCCACTGTGGG
CCCTCTCCGCACCAGACCCTGGGCGCAGTGCCCTCGTGGGAC

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FIGURE 3118

MMSPGLLLLKPWWGGAQSEMGRNGMLEGCSVMSVGASRLGEGVRPRAHSRRPVTRPRWRAAGPCTGTCQGGSHSR
TLVLRRLKAVSTTPTSANDLVQIKFRRDGGNRVVEALNLSEKRRKDRKAQKQRDRRMKKKKREVVGTIASSRWRSSAL
G

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FIGURE 3119

GGGGCCAGACGCCAAGAGGGGCGCGGGGAGCACAGAGAAGCGGAGGGAAGGGCGCCACGTCGAGGGGCCGGGGGA
GGCGGTGACTGGGGGGCGGAGTGGAGGCTGCACCCGGACCGCGGGCGCCCAGCTCGGTTTGGGCCGACGGAGCCC
TCTGCCGTCGCGAGCCCGGGCCTCGGGAGGGGGACAGGCGGTGGCGGCACCGGGGCCGCTCCGGGACGCAGCGCG
GAAAGGGGAGCGGCCCCGAGGCTGCGCGCCGGGGGGAGGGCTGGAGGGGGAGCGCTTTGGGGGGTTACAACGCCGG
CGGCCTGCGAGCCGGA CTGCTGCGGGGGGAACCGCCTCCTCGGGCGAAGCGGGGATGGGGGGAGTTGAGGTAGA
TGAAGAGGAGGCGGCGGGGAATCCGCAGGCCCGGCGGAGCGCGACCCCGCGGACGGCGCCCGGGACGGGAGTCAG
CAGCGAGGCAGCGGGCGGCGTCGACGCGGGGCCCTTGCCCCGATGGAGGCGCTGGTGGGCAGAGCGCGGGCAGG
CGTGGGCCAGGAGGCGGGGGCGGCCGGAAGGGGGGGGCCGGGGCCGGCCGGGCCTCACGCAGCTCCGCCG

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FIGURE 3120

TTCTCCCGCAACCTTCCCTTCGCTCCCTCCCGTCCCCCCAGCTCCTAGCCTCCGACTCCCTCCCCCCTCACGC
CCGCCCTCTCGCCTTCGCCGAACCAAAGTGGATTAAATTACACGCTTTCTGTTTCTCTCCGTGCTGTTCTCTCCCG
CTGTGCGCCTGCCCGCCTCTCGCTGTCTCTCTCCCCCTCGCCCTCTCTTCGGCCCCCCCCCTTTCACGTTCACTC
TGTCTCTCCCCTATCTCTGCCCCCTCTATCCTTGATACAACAGCTGACCTCATTTCCCGATACCTTTTCCCCC
CCGAAAAGTACAACATCTGGCCCCGCCCGAGCCCGAAGACAGCCCGTCCTCCCTGGACAATCAGACGAATTCTCCC
CCCCCCCCCAAAAAAAAAAGCCATCCCCCGCTCTGCCCCGTGCGCACATTTCGGCCCCCGGACTCGGCCAGAGCG
GCGCTGGCAGAGGAGTGTCCGGCAGGAGGGCCAACGCCCGCTGTTTCGGTTTGCGACACGCAGCAGGGAGGTGGGC
GGCAGCGTCGCCGGCTTCCAGACACCAATGGGAATCCCAATGGGGAAGTCGATGCTGGTGCTTCTCACCTTCTTG
GCCTTCGCCTCGTGCTGCATTGCTGCTTACCGCCCCAGTGAGACCCTGTGCGGCGGGGAGCTGGTGACACCCCTC
CAGTTCGTCTGTGGGGACCGCGGCTTCTACTTCAGCAGGCCCGCAAGCCGTGTGAGCCGTGCGAGCCGTGGCATC
GTTGAGGAGTGCTGTTTCCGCAGCTGTGACCTGGCCCTCCTGGAGACGTACTGTGCTACCCCCGCCAAGTCCGAG
AGGGACGTGTGACCCCTCCGACCGTGCTTCCGGACAACCTCCCCAGATACCCCGTGGGCAAGTTCTTCCAATAT
GACACCTGGAAGCAGTCCACCCAGCGCCTGCGCAGGGGCCTGCCTGCCCTCCTGCGTGCCCGCCGGGGTCACGTG
CTCGCCAAGGAGCTCGAGGCGTTCAGGGAGGCCAAACGTACCGTCCCCCTGATTGCTCTACCCACCCAAGACCCC
GCCACGGGGGCGCCCCCCCAGAGATGGCCAGCAATCGGAAGTCAGCAAAAAGTCCCGCAAGTCTGCAGCCCGGCG
CCACCATCCTGCAGCCTCCTCCTGACCACGGACGTTTCCATCAGGTTCCATCCCGAAAATCTCTCGGTTCCACGT
CCCCCTGGGGCTTCTCCTGACCCAGTCCCCGTGCCCGCCTCCCCGAAACAGGCTACTCTCTCGGCCCCCTCCA
TCGGGCTGAGGAAGCACAGCAGCATCTTCAAACATGTACAAAATCGATTGGCTTTAAACACCCTTCACATACCT
CCCCC

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FIGURE 3121

MGIPMGKSMVLVLLTFLAFASCCIAAYRSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVEECCFRSC
DLALLETYCATPAKSERDVSTPPTVLPDNFPRYPVGKFFQYDTWKQSTQRLRRGLPALLRARRGHVLAKELEAFR
EAKRRHRPLIALPTQDPAHGGAPPEMASNRK

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FIGURE 3122

CATACATGAACACAGCTCACAGCACACAAACACGCAGCCCGACTAGCAGTCTAGAGGCCTGAGGCTTCTGGGTCC
TGGTGACGGGGCTGGCATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGC
GCCCTGTGAGTGGGCCATTTCGGAACATTGGACAGAAGCCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACAT
TGGCCTGAGATCCAAAACGCTTCGAGGCACCCCAAATTACCTGCCCATTTCGTCAGGACACCCACCCACCCAGTGT
TATATTCTGCCTCGCCGGAGTGGGTGTTCCCGGGGGCACTTGCCGACCAGCCCCCTTGGGTCCCCAGGTTTGCAGC
TCTCCCCTGGGCCACTAACCATCCTGGCCCGGGCTGCCTGTCTGACCTCCGTGCCTAGTCGTGGCTCTCCATCTT
GTCTCCTCCCCGTGTCCCAATGTCTTCAGTGGGGGGCCCC

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FIGURE 3123

MTPGVVHASPPQSQRVPRQAPCEWAI RNIGQKPKEPNCHNCGTHIGLRSKTLRGTPNYLP I RQDTHPPSVIFCLA
GVGVPGGTCTRPAPCVPRFAALFWATNHPGPGCLSDLRA

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FIGURE 3124

CCAAATTAAACCCCCCCCCCATGTAACAGGGGGGCGAGTGACAAAAGCAAGAACGCACGAAGCCAGCCTGGAGACC
ACCACGTCCTGCCCCCGCCATTTATCGCCCTGATTGGATTTTGTTCATCTGTCCCTGTTGCTTGGGTTGAG
TTGAGGGTGGAGCCTCCTGGGGGGCACTGGCCACTGAGCCCCCTTGGAGAAGTCAGAGGGGAGTGGAGAAGGCCA
CTGTCCGGCCTGGCTTCTGGGGACAGTGGCTGGTCCCCAGAAGTCCTGAGGGCGGAGGGGGGGGTGGGCAGGGT
CTCCTCAGGTGTCAGGAGGGTGCTCGGAGGCCACAGGAGGGGGCTCCTGGCTGGCCTGAGGCTGGCCGGAGGGGA
AGGGGCTAGCAGGTGTGTAAACAGAGGGTTCCATCAGGCTGGGGCAGGGTGGCCGCCTTCCGCACACTTGAGGAA
CGGCGGGTCTGAGCCACAGAGCAGGAGAGCTGCCAGGTCTGCCCATCGACCAGGTTGCTTGGGCCCCGGAGCCC
ACGGGTCTGGTGATGCCATAGCAGCCACCACCGCGGCGCCTAGGGCTGCGGCAGGGACTCGGCCTCTGGGAGGTT
TACCTCGCCCCCACTTGTGCCCCAGCTCAGCCCCCTGCACGCAGCCGACTAGCAGTCTAGAGGCCTGAGGCT
TCTGGGTCTTGGTGACGGGGCTGGCATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCC
TCGGCAAGCGCCCTGTGAGTGGGCCATTTCGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGG
AACCACATTGGCCTGAGCCCACCCAGTGTTATATTCTGCCTCGCCGGAGTGGGTGTTCCCGGGGGCACTTGCCG
ACCAGCCCCTTGCGTCCCCAGGTTTGCAGCTCTCCCCTGGGCCACTAACCATCCTGGCCCCGGGCTGCCTGTCTGA
CCTCCGTGCCTAGTCGTGGCTCTCCATCTTGTCTCCTCCCCGTGTCCCAATGTCTTCAGTGGGGGGCCCCCTCT
TGGGTCCCCT

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FIGURE 3125

CAGGAGGGTGCTCGGAGGCCACAGGAGGGGGCTCCTGGCTGGCCTGAGGCTGGCCGGAGGGGAAGGGGCTAGCAG
GTGTGTAAACAGAGGGTTCCATCGACCAGGTTGCTTGGGCCCCGGAGCCCACGGGTCTGGTGATGCCATAGCAGC
CACCACCGCGGCGCCTAGGGCTGCGGCAGGGACTCGGCCTCTGGGAGGTTTACCTCGCCCCACTTGTGCCCCCA
GCTCAGCCCCCCTGCACGCAGCCCGACTAGCAGTCTAGAGGCCTGAGGCTTCTGGGTCTGGTGACGGGGCTGGC
ATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGCGCCCTGTGAGTGGGCC
ATTCGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACATTGGCCTGAGATCCAAA
ACGCTTCGAGGCACCCCAAATTACCTGCCCATTCGTGAGGACACCCACCCACCCAGTGTTATATTCTGCCTCGCC
GGAGTGGGTGTTCCCGGGGGCACTTGCCGACCAGCCCTTGCGTCCCCAGGTTTGCAGCTCTCCCCTGGGCCACT
AACCATCCTGGCCCGGGCTGCCTGTCTGACCTCCGTGCCTAGTCGTGGCTCTCCATCTTGTCTCCTCCCCGTGTC
CCCAATGTCTTCAGTGGGGGGCCCCCTCTTGGGTCCC

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FIGURE 3126

MTPGVVHASPPQSQRVPRQAPCEWAI RNIGQKPKEPNCHNCGTHIGLRSKTLRGTPNYLP I RQDTHPPSVIFCLA
GVGVPGGTCTRPAPCVPRFAALPWATNHPGPGCLSDLRA

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FIGURE 3127

AGTGCCCTTAGATTCCAGCGAGCTACGCAAGCAATCCTGGCCCAGCCGAGCTTGCTTCCCCAAATCCCGTAATCCT
TGACCTTATTCCCCCAAAGAAGCGGCCTCCCGGGAAGGAGCGCCCTGGCGGAGAAGACTCGAACGGCTCCACAG
CCGGGCGTTGGGGGAAAGGCATGAAGAACTCTTGACTGACAGAAACGGAGGGTGTGTCCAAAGTTTTGAGGACGG
CCGAGCGGCGCTCCAAAACCCGTCCTCACAGCCTCGCCCCGTTCGCCTCAGCTACAACAAATCATCGTCAACCTG
TTCCACCTTCTCCAGTCTGGTAGCAAAAAGGGGTGTCTCAGGCCACTCTTCACCTCCACCATGAGCCTGGACATC
CAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGC
CAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAGGACATCAGCTCTGCACTTCGAGTCAAC
CCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGATGTGCGCGTGCATTGCGTGCTCCAGGGCCTG
CAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGAACTGCTGCCTGACGGGGGCGGGCTGCGGGGTCCTG
TCCAGCACACTACGCACCCTGCCCACCCTGCAGGAGCTGCACCTCAGCGACAACCTCTTGGGGGATGCGGGCCTG
CAGCTGCTCTGCGAAGGACTCCTGGACCCCCAGTGCCGCTGGAAAAGCTGCAGCTGGAGTATTGCAGCCTCTCG
GCTGCCAGCTGCGAGCCCTGGCCTCCGTGCTCAGGGCCAAGCCGGACTTCAAGGAGCTCACGGTTAGCAACAAC
GACATCAATGAGGCTGGCGTCCGTGTGCTGTGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAG
CTGGAGAGCTGCGGTGTGACATCAGACAACCTGCCGGGACCTGTGCGGCATTGTGGCCTCCAAGGCCTCGCTGCGG
GAGCTGGCCCTGGGCAGCAACAAGCTGGGTGATGTGGGCATGGCGGAGCTGTGCCAGGGCTGCTCCACCCAGC
TCCAGGCTCAGGACCCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGGATCTGTGCCGTGTCTC
AGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGGCCGGCAACGAGCTGGGGGATGAGGGTGCCCGACTGCTGTGT
GAGACCCTGCTGGAACCTGGCTGCCAGCTGGAGTCGCTGTGGGTGAAGTCCTGCAGCTTACAGCCGCCTGCTGC
TCCCACCTTCAGCTCAGTGCTGGCCCAGAACAGGTTTCTCCTGGAGCTACAGATAAGCAACAACAGGCTGGAGGAT
GCGGGCGTGCGGGAGCTGTGCCAGGGCCTGGGCCAGCCTGGCTCTGTGCTGCGGGTGCTCTGGTTGGCCGACTGC
GATGTGAGTGACAGCAGCTGCAGCAGCCTCGCCGCAACCCTGTTGGCCAACCACAGCCTGCGTGAGCTGGACCTC
AGCAACAACCTGCCTGGGGGACGCCGGCATCCTGCAGCTGGTGGAGAGCGTCCGGCAGCCGGGCTGCCTCCTGGAG
CAGCTGGTCTGTACGACATTTACTGGTCTGAGGAGATGGAGGACCGGCTGCAGGCCCTGGAGAAGGACAAGCCA
TCCCTGAGGGTCATCTCCTGAGGCTCTTCTGCTGCTGCTCTCCCTGGACGACCGGCCTCGAGGCAACCCTGGGG
CCCACCAGCCCCTGCCATGCTCTCACCTGCATATCCTAGGTTTGAAGAGAAACGCTCAGATCCGCTTATTTCTG
CCAGTATATTTTGGACACTTTATAATCATTAAGCACTTTCTTGGC

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FIGURE 3128

MSLDIQSLDIQCEELSDARWAEELLPLLQQCQVRLDDCGLTEARCKDISSALRVNPALAE LN LRSNELGDVG VHC
VLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLPTLQELHLS DN LLGDAGLQLLCEGLLDPQCRLEKLQLE
YCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCGVTSDNCRDLCGIVAS
KASLRELALGSNKLGDVGMAELCPGLLHPSSRLRTLWIWECGITAKGCGDL CRVLRAKESLKELSL AGNELG DEG
ARLLCETLLEPGCQLES LWVKSCSFTAACCSHFSSVLAQNRFLLELQISNNRLEDAGVRELCQGLGQPGSVLRVL
WLADC DVSDSSCSLAATLLANHSLRELDLSNNCLGDAGILQLVESVRQPGCLLEQLVLYDIYWSEEMEDRLQAL
EKDKPSLRVIS

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FIGURE 3129

CACCCCACCCACCCCTCCCCGCATTGTGGCATCAGTGCTGCTGCTTCCAGGGAGCCTTCCTGGCCATCCAAGCCT
CCTCTCCAGGTTCTCTGCCCTGCTGTAGTCCCCAGGCCAGTGCTTGGCAGGTGCTCAGGGAATGTATCCACCAACC
AAGGTTTGGGGTGGCTGTCTCTGCCTGACCACCTTCCCCAGGCCCCCTGGCGGGTACCTGAGCTGTGCTCTCAGGG
CCTCAGGAACCTCCTTCCATATTCAGGGCCTGTGCCTGGGGAGGCTTCAGGGTGTAGCAGCTGTGCCCATCCCAG
GCTGACCCACCCAGCTTGCTGGTAGCCCAGCCTCTGGGCTAGTGTGCCGTGGGGCAGGGGATGTGCTGTAGCCT
GGTGCAGAGTCCCCAACCCAGAAGGGGGCCATGGAAGCTGACACCCCAAGTGGCCGCCCCCTGCTCTGTCTTG
CTTCGGACACTGTGGCCGGGTCCAGGATCCTGGCATCCTGGGAGGTCTCTGGCTTTGTGGGCAGCCTGCCTGGCC
CGCACAGTCTGCCTGTCTGAGGGTGAGACACAGGTCAAGCCCCACAGACCCCTTGCTCCCCTGCTGGGGCCTCC
AGGCTCACAGACCACCCACCCTACCCTGTCTTGCCCAAGCAAATGAGAGGCAGGGGCTTCCCGGGCTGCTGCT
GTCCCGCCCTCTGTGGGGCAGGAGGAGGTGCCACAGAGGCTGGGTGGTGATAGCCAGGAGATGGGCTGGCATCT
GCATTACCCAAGCTCTGCTGCCCATGGTGGCCTTTCTGGGGGTGGGTGATGGTCCCTGCCCCCTGCCCCACCCGT
GATGTCTGCTCCAGAGACAAAGGTGGGGAGGGTGCTGAAGAGGAAGTGTTTGCCAGGGAGAGGCTGCGGCTCCT
CCTGAAACATCAGCCCTGTGGGTCTGTTTGCAGAACTCTCCGGCTGTGAACTGTGAGGGGATTGCGCCAAGAC
GTCCTCTTCCCTCTGCCTCCCACCCAGGCCACTCTTACCTCCACCATGAGCCTGGACATCCAGAGCCTGGACAT
CCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGCCAAGTGGTCAGGTA
CGCTTGCTCTCGGGGTGGCCTTGGGGTGCTGGTGGGGCAGGCTGGCGGGTGGCGGCTCCCTCTGAAGGGTGCATT
GCTCTGGAACGCCTTGTTTGTGGACATGAAGTATGAATTCTGTGCAGCTACCACGTGCATGAGATGTGATTCTTG
TGTTTCTTTTGGACAATTTAGGAATGTAAAACCCATTCCAGGCTCATGCAGCATGGGCTGAGGTGGGCGGGCCGA
GGTGGGCGGCCACTGGCCAGTGGGTCTCTGGCTCCGGTGTCTCAGCTCCTCTCCCTCCCTTGGAGACACGAGGGC
AGGACACAGCTTGGGTCCCCTCCGTGAGCCTCCATGGGGCGCTGCTTGTCCCTGCCAAGCTGGGGGCTGGGAGTC
CTCGGCCCTCGAGGTCTCACAACCCAGCAGCTTCACAAGCAGGACACGAGTGCCTGGGTGGGCCGCATCTTTT
CTCTTTTACCTGGTGATTTCAAGTAGTGTGAGGTTTTCGGAGGAGTTACGAGGACCGGACGGGGCTCCCTGGTG
AGGTGGTCCTGTGTACCTGCGGACGCTAGCTCTGGCCAGCACCTCCAGGCAGGGTCTGCTTTTCCGCCCTGCC
TTTTCGTCTTCTCACTGGTCCAGGATTGCGTGGCCCTCAGCCCTCTGTCTCCTTAGCCCTCTCCCGTCTGTGAC
TGTCCCCCTGCTCTCTGCGTTCTTGGTGGTCTGAGGGTCTGGCCAGGCTCCTGCAGGACGTCTCTGTTGGGGC
TTGTCTGGTGGTTTCTTGTGGTTGAAGTCCTACAGTTTTTGGCAGGAATGCAGGGAGATGCCGTGGGGCCTGCCAG
GAGCGTCTGTACAGGCGCCGTCTGCCACCTCTCCACTGTGACGCCACTGCCTTTCTCTCTGTGACTGATCAG
TGCCTTCGAGAGATACTTTAAATTCTTTTTATTTTTAGAGACAGGGCATTGCTCTGTACCCAGGCTGGAGTGGC
TCCCTCATGGCTTATGCGGCCTCAACCTCCTGGGCTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA
TTATGGGCATGCGCCACCACGCGCGGCTACTTTTGTATTTTTAGTAAAGACGGGGTTTCTCCATGTTGGTCAGGT
TGGTCTTGAATCCCCGACCTCAGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA
CCGCGCCTGGCC

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FIGURE 3130

MSLDIQSLHIQCDDLTDARWAELLLLLHNCQVDRLLDDCGLTEARCKDISSALRVNPALAE LNLR SNELGDVG VHC
VLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLPTLQELHLS DNLLGDAGLQLLCEGLLDPQCRLEKLQLE
YCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCGVTSDNCRDL CGIVAS
KASLRELALGSNKLACTTFTGLRRWRTGCRPWRTSHP

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FIGURE 3131A

AGAGTGAAGCCACCACTCGCTCTCGAATCGCGCGGACGCTGGGCCTGCGCAGGCCTGTTACAGCAGCTGCATCC
CGTCAGTGTGAAGCCAGTGGAGCCCTCTTTGGGGCTGCTGAGAGCGGATATTGGAGCTGCCTCTCTGTCTCTGT
TTGGAGATCCTTATGAGCTGGATCCCTTCGACAGCAGTGAAGAGCTTTCTGCAAACCTCTTTCCCTCTGAGTG
CCAAGAGACGGGCTCTGTCCCGGTGAGCCCTGCAGTCCACCAGCCCGTGGCCAGGCCCGTCTCCGTGGGGCTTT
CCAGGAGGCGCCTCCCTGCGCGGTGCCAGAGCCAGACTTGGAGGAGGAGCCAGTGCCTGACCTGCTGGGCAGCA
TCCTGTGCGGGCCAGAGCCTCCTGATGCTGGGCAGCAGTGTATGTCATCATCCACCGCGACGGCTCCCTCAGCGCCA
AGAGGGCGGCTCCAGTTTCTTTTCAGCGAACTCAGGCAGTCTGTCCAGAGGGGAAGAAGGATTCAAGGGCTGCC
TGCAGCCCCGAGCACTGCCCTCCGGGAGCCCGGCCAAGGCCCGTCAAGAAACAGGCCACAGAGCACAGGGCTCA
GCTGTCAAGGCAGGTCCCGCACCCCCGCCCGCACCGCGGGGGCGCCTGTGAGGCTGGACTTGCCAGCAGCCCTG
GGGCGGTTTACGGCTCGGAACCTTGTCAAATGGGAGTGTGCTTGGCTTCAGACAGAGCCACAGCCCTGGTTCAACG
GCACCAACAAGCACACCTTGCCCCCTGCTTGTGCGCGTCTAAGATCTCAAGCAGAGATTCTAAGCCCCATGTC
GCAGTGTGGTGCCGGGGCTCCCTGAAGCCAGCGCCAGAAAGAACAGACATCTCTGAGCTACCCAGGATACCAA
AGATCAGGAGAGATGACGGTGGTGGCAGACGGGATGCGGCCCGGCCACGGGCAGAGCATTGAGATCCCCAGTG
CCTGCATCAGCCGACTGACTGGCAGGGAGGGCACCGGGCAGCCAGGGCGAGGCACACGGGCAGAGAGCGAGGCCA
GCAGCAGGGTGCCCCGGGAGCCCCGGGTGCACACGGGCAGCTCCCGGCCCCAGCCCCAGCTCCCATGGCAGTT
TGGCCCCACTGGGACCATCAAGAGGGAAAGGGTTCGGGTGCACCTTTGAGAGCTTCCGGATCAATATTCTGGAA
ACATGGCACATTCCAGCCAGCTCTCCAGCCCTGGCTTCTGTAACACGTTCCGGCCTGTGGACGATAAGGAGCAGA
GGAAGGAGAACCCCTCACCCCTCTTCTCCATCAAGAAGACGAAGCAGCTGCGGAGCGAGGTCTACGACCCATCCG
ACCCACCGGCTCCGACTCCAGCGCCCCCTGGCAGCAGCCCCGAGAGGTCTGGCCCCGGCTCCTGCCCTCTGAGA
TCACACGAACCATCTCCATCAACAGCCCCGAAGGCCAGACGGTGCAGGCTGTGCGCTGCGTCACCTCCTACACGG
TGGAGAGCATCTTTGGTACAGAGCCCGAACCCCTCTCGGACCGTCTCCGCCATGTCCAAGCTCCGGGGTGCAG
TGGCTGCCGAGGGGGCTCTGACACGGAGCGAGAGGAGCCACAGAGAGCCAGGGCCTGGCTGCCCGGCTGCGGA
GGCCATCCCCCCCAGAGCCCTGGGATGAGGAGGATGGGGCGTCTTGACGACCTTCTTTGGCTCTGAGGAGCGGA
CGGTGACCTGTGTGACTGTGCTGGAGCCGGAAGCCCCACCCAGCCCGACGTGCTGCAGGCTGCCACCCACAGAG
TCGTGGAGCTCAGGCCCCCTTCCCGGTCCCGCTCCACATCCAGCTCCCGCAGCAGGAAGAAGGCCAAGAGGAAGA
GGGTGTCCAGGGAGCACGGACGGACGCGCTCTGGGACGCGCTCTGAATCCAGGGACAGGAGCTCGAGGTTCAGCGT
CACCATCAGTGGGTGAGGAGCGCCCCAGGAGGCAGCGGTCCAAGGCCAAGAGCCGGCGGTCTTCCAGTGACCGCT
CCAGCAGCCGAGAGCGAGCTAAGAGGAAGAAAGCCAAAGGACAAGAGCAGGGAGCACAGGCGGGGGCCCCCTGGGGCC
ACAGCCGGAGGACGTCCCGGTGCGGGTCCGGGGAGCCCTGGCAGCTCTTCTATGAGCACTATGAGAGTAGGAAGA
AGAAGAAAAGGAGATCAGCGTCCAGACCTCGGGGAAGGGAGTGTCTCCCCACCCAGCAGCCTGGAGAGGCTCTGCA
GGCACAAGCATCAGCGGGAACGCAGCCACGAGCGGCCAGACAGGAAGGAGAGTGTGGCGTGGCCCCGAGACCGGA
GGAAGCGGAGGTCCCGGTCCCCAAGCTCGGAGCACAGGGCACGGGAGCACAGGCGGGCTCGGTCCCGTGAGAAGT
GGCCGAGACCCGCTCCATTCCCCAGAGAGGAAGGGGGCTGTGAGGGAGGCTTCCCCAGCGCCCCCTTGACAGG
GGGAGCCAGGGCGGGAAGACCTCCCCACCAGGTTGCCAGCCTTGGGGGAAGCACATGTCTCGCCGGAGGTGGCTA
CGGCCGACAAGGCCCCCCCTGCAGGCTCCCCCTGTCTGGAGGTGGCAGCTGAGTGTGAGCCGGACGACCTGGACC
TGGATTATGGCGACTCCGTGGAGGCCGGACACGTCTTTGATGATTTCTCAAGCGACGCCGTTTTTCATCCAGCTCG
ATGACATGAGCTCGCCACCTTCTCCCGAAAGCACAGACTCTTCCCCGGAGCGAGACTTCCCACTGAAGCCTGCGT
TGCCCCCAGCCAGCCTGGCCGTGGCCGCCATCCAGAGGGAGGTGTGATTGATGCACGATGAAGACCCTTCGCAGC
CCCCACCCCTGCCAGAGGGCACCCAGGAGCCACATTTGCTCAGGCCGGACGCGGCTGAGAAGGCTGAGGCACCCA
GTTCCCCGGATGTGGCGCCTGCGGGGAAGGAAGACAGCCCTCTGCGAGTGGGAGGGTACAGGAGGCAGCCCGGC
CTGAGGAGGTGGTTTCGCGAGACCCCCCTGCTGCGGTCCAGAGCCCTGGTGAAGCGGGTACCTGGAACCTGCAGG
AGTCGGAGAGCAGCGCCCCCGCGAGGACAGAGCCCCCGGGCACCACTTCACAGGCCACAGAAGCCCCGAGAAG
GAGCCTGGGACATGGAGGATGTGGCCCCCACAGGGGTGAGGCAGGTGTTCTCCGAGCTGCCCTTTCCAGTCACG
TGCTTCCGGAACCCGGGTTCAGACACAGACCCCTCTCAGGTTTACAGCCCCGGCCTGCCGCTGCCCGGGCCC
AGCCCTCAAGCATCCACCCCTGCGCACTGGTCAGCCAGCCACGGTCCAGTTTCATCCTTCAGGGGAGCCTGCCGC
TAGTGGGCTGTGGGGCAGCACAGACCTGGCCCCAGTGGCCGCTGCCCTGACCCAGCCTCAGAGCCAGCCAGTC
AAGCCACTGCAGCCAGCAACTCGGAGGAGAAGACCCCGGCCCCAGGCTAGCTGCGGAGAAAACCAAGAAGGAGG
AGTACATGAAGAAGCTGCACATGCAGGAGCGTGCTGTGGAGGAGGTGAAGCTGGCCATCAAGCCCTTCTACCAGA

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FIGURE 3131B

AGAGGGAGGTGACCAAGGAGGAGTACAAGGACATCCTGCGCAAGGCCGTGCAGAAGATCTGCCACAGCAAGAGTG
GAGAGATCAACCCCGTGAAGGTGGCCAACCTGGTGAAGGCGTACGTGGACAAGTACAGGCACATGCGCAGGCACA
AGAAACCAGAGGCCGGGGAGGAGCCGCCACGCAGGGGGCCGAGGGCTGAGGCCAGGCAATCACGGGCTATGCCC
GGGGAGCTGTCTGGGAGTGGCGGGAATCGGGGCCATGCCCGGGGAGCTGTCTGGGAGTGGCGGGAATCGGGGCCATG
CCCGGGGAGCTGTCTGGGAGTGGCGGGAATGGGGGGCATCACCATGCCTGCCGTCTGGGTTCTCTGCGCTGACACCT
GGTCTGTGCACCTGTGTTGCTCACAGTTGAAAACCTGGACACTTTTGTATGTATATTATAGAGACACTGTTTCCAT
TCTAATTTATCAAAAATGGATTATCTTTAGAAACCTCTTGATTGACTTACTACTTGGAAGATAAAGCACTTGGTG
ATCAAGAGGGGCTCCTGGTGGGGTGGCGCGTCCTTGATAAATCTCTAGGTGGCCTCCCGCCAACAGCTGCTGTGT
ACCTTTGGCTCTGAATTAGGAATATCTTTACTTTCTCTTTTCC

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FIGURE 3132

MDDDSLDELVARSPGPDGHPQVGPADPAGDFEESSVGSSESGDSDSEHGDGTDGEDEGASEEEDLEDRSGSED
SEDDGETLLEVAGTQGKLEAAGSFNSDDDAESCPICLNAFRDQAVGTPENCAHYFCLDCIVEWSKNANSCFVDRT
LFKCICIRAQFGGKILRKIPVENTKASEEEEEEDPTFCEVCGRSDREDRLLLCDGCDAGYHMECLDPPLQEVVPVDEW
FCPECAAPGVVLAADAGPVSEEEVSLLLADVPTTSRLRPRAGRTRAIARTRQSERVRATVNRNRISTARRVQHT
PGRLGSSLLDEAIEAVATGLSTAVYQRPLTPRTPARRKRKTRRRKKVPGRKKTPSGPSAKSKSSATRSKKRQHRV
KKRRGKKVKSEATTRSRIARTLGLRRPVHSSCIPSVLKPVEPSLGLLRADIGAASLSLFGDPYELDPFDSSEELS
ANPLSPLSAKRRLSRSALQSHQPVARFVSVGLSRRRLPAAVPEPDLEEEFVPDLLGSILSGQSLMLGSSDVI I
HRDGSLSAKRAAPVVSFQRNSGSLSRGEEGFKGCLQPRALPSGSPAQGPSGNRPQSTGLSCQGRSRTPARTAGAPV
RLDLPAAPGAVQARNLSNGSVPGFRQSHSPWFNGTNKHTLPLASAASKISSRDSKPPCRSVVPGPPLKPAPRRTD
ISELPRIPKIRRDDGGGRRDAAPAHGQSIEIPSACISRLTGREGTGQPRGTRAESEASSRVPREPGVHTGSSRP
PAPSSHGSLAPLGPSRGKGVGSTFESFRINIPGNMAHSSQLSSPGFCNTFRPVDDKEQRKENPSPLFSIKKTKQL
RSEVYDPSDPTGSDSSAPGSSPERSGPGLLPSEITRTISIKQPEGPDGAGCALRHAPTLVESIFGTEPEPPLGPS
SAMSKLRGAVAAEGASDTEREPTESQGLAARLRPSPEPWDEEDGASCSTFFGSEERTVTCVTVVEPEAPPSP
DVLQAATHRVVELRPPSRSRSTSSSRSRKKAKRKRVSREHGRTRSGTRSESRDRSSRSASPVGEEPRRQRSKA
KSRRSSSDRSSSRERAKRKKAKDKSREHRRGPWGHSSRRTSRSRSGSPGSSSYEHYESRKKKKRRSASRPRGRECS
PTSSLERLCRHKHQERERSHERPDRKESVAWPRDRRKRSSRSPSEHRAREHRRPRSREKWPQTRSHSPERKGAVR
EASPAPLAQGEPEGREDLPTRLPALGEAHVSPEVATADKAPLQAPPVLEVAACEPDLDLDYGDSEAGHVFDDE
SSDAVFIQLDDMSPPSPPESTDSSPERDFPLKPALPPASLAVAAIQREVSLMHDEDEPSQPPPLPEGTQEPHLLRP
DAAEKAEPSSPDVAPAGKEDSPSASGRVQEAARPEEVVSQTPLLRSRALVKRVTWNLQESSESSAPAEDRAPRAP
LHRPQKPREGAWDMEDVAPTGVQAFSELFPFPHVLPEPGFPDTPDSQVYSPGLPPAPAQPSIIPCALVSQPTV
QFILQGSPLVGCAGAAQTLAPVPAALTPASEPASQATAASNSEEKTPAPRLAAEKTKEEYMKKLHMQERAVEEV
KLAIKPFYQKREVTKEEYKDILRKAVQKICHKSKEINPVKVANLVKAYVNKYRHMRRHKKPEAGEEPPTQGAEG

[illegible]

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FIGURE 3134

MQPSSLLPLALCLLAAPASALVRIPLHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAVPAVTEGPIPEVLKNYM
DAQYYGEIGIGTPPQCFTVVFDTGSSNLWVPSIHCKLLDIACWIIHHKYNSDKSSTYVKNGTSFDIHYGSGSLSGY
LSQDTVSVPCQSASSASALGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQQKLVD
QNIFSFYLSRDPDAQPGGELMLGGTDSKYYKGSLSYLNVTRKAYWQVHLDQVEVASGLTLCKEGCEAIVDTGTSL
MVGPVDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPAILTKLGGKGYKLSPEDYTLKVSQAGKTLCLSGFMGMDI
PPPSGPLWILGDVFIGRYYTVFDRDNNRVGF AEAARL

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FIGURE 3135

GCGCGCAACGGCGGGCGACGGCGGGCGACCCACCGCACATCCTGCCAGGCCTCCGGCGCCCAGGGCGCACGGCGCG
CCCCCGTGCCGGCGGGCCCCCTGCGCCCATTTCTTGGCGCCCCCGCCCGGTGCGCCCGCCAGGCCCTTTGCCGGCC
ACCAGCCAGGCCCGCGCCCGGCCCGCCCGCCCGCCAGGACGGGCCCGCGCCCCGAGGCCCGCCCGCCCGCCGCGC
CGCCATGGGAGTGGAGGGCTGCACCAAGTGCATCAAGTACCTGCTCTTCGTCTTCAATTCGTCTTCTGGCTGGC
TGGAGGCGTGATCCTGGGTGTGGCCCTGTGGCTCCGCCATGACCCGCAGACCACCAACCTCCTGTATCTGGAGCT
GGGAGACAAGCCCGCGCCCAACACCTTCTATGTAGGCATCTACATCCTCATCGCTGTGGGCGCTGTCATGATGTT
CGTTGGCTTCCTGGGCTGCTACGGGGCCATCCAGGAATCCCAGTGCCTGCTGGGGACGTTCTTCACCTGCCTGGT
CATCCTGTTTTGCCTGTGAGGTGGCCGCCGGCATCTGGGGCTTTGTCAACAAGGACCAGATCGCCAAGGATGTGAA
GCAGTTCTATGACCAGGCCCTACAGCAGGCCGTGGTGGATGATGACGCCAACAACGCCAAGGCTGTGGTGAAGAC
CTTCCACGAGACGCTTGACTGCTGTGGCTCCAGCACACTGACTGCTTTGACCACCTCAGTGCTCAAGAACAATTT
GTGTCCCTCGGGCAGCAACATCATCAGCAACCTCTTCAAGGAGGACTGCCACCAGAAGATCGATGACCTCTTCTC
CGGGAAGCTGTACCTCATCGGCATTGCTGCCATCGTGGTCGCTGTGATCATGATCTTCGAGATGATCCTGAGCAT
GGTGCTGTGCTGTGGCATCCGGAACAGCTCCGTGTACTGAGGCCCCGCAGCTCTGGCCACAGGGACCTCTGCAGT
GCCCCCTAAGTGACCCGGACACTTCCGAGGGGGCCATCACCGCCTGTGTATATAACGTTTCCGGTATTACTCTGC
TACACGTAGCCTTTTTACTTTTGGGGTTTTGTTTTTGTCTGAACCTTCCTGTTACCTTTTTCAGGGCTGACGTCA
CATGTAGGTGGCGTGTATGAGTGGAGACGGGCCTGGGTCTTGGGGACTGGAGGGCAGGGGTCTTCTGCCCTGGG
GTCCAGGGTGCTCTGCCTGCTCAGCCAGGCCTCTCCTGGGAGCCACTCGCCAGAGACTCAGCTTGGCCAACTT
GGGGGGCTGTGTCCACCCAGCCCGCCCGTCTGTGGGCTGCACAGCTCACCTTGTTCCCTCCTGCCCCGGTTCTGA
GAGCCGAGTCTGTGGGCACTCTCTGCCTTCATGCACCTGTCCTTTCTAACACGTCGCCTTCAACTGTAATCACAA
CATCCTGACTCCGTCAATTAATAAAGAAGGAACATCAGGCATGCT

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FIGURE 3136

CTTGCTCGCGGAGAGAGGAGCTAGGAGCCTCGGCCAATGGGAGCCGGCGTTGTTGGAGGCCACGGCGGCGCAGCC
CCAAAGCGAGCGAAGCTAGGGTCGCCGCCACTGCCGCAGGAGGCGTGAGGGGATAAAAAACATTGAGATGGCAGAT
CACAGTTTTTCAGATGGGGTTCCTTCAGATTCCGTGGAAGCTGCTAAAAATGCAAGTAACACAGAAAAGCTCACA
GATCAGGTGATGCAGAATCCTCGAGTTCTGGCAGCTTTACAGGAGCGACTTGACAATGTCCCTCACACCCCTTCC
AGCTACATCGAAACTTTACCTAAAGCAGTAAAAAGAAGAATTAATGCATTGAAACAACCTTCAGGTGAGATGTGCT
CACATAGAAGCCAAGTTCTATGAAGAGGTACATGACTTGGAAAGAAAGTATGCAGCGCTATAACCAGCCTCTCTTT
GACAAGAGAAGAGAATTTATCACCGGCGATGTTGAACCAACAGATGCGGAATCGGAATGGCACAGTGAAAATGAA
GAGGAAGAGAAATTGGCTGGAGACATGAAAAGTAAAGTAGTCGTACAGAAAAAGCAGCGGCAACGGCTGAAGAG
CCAGATCCCAGGAATTCCAGAGTTCTGGTTTACCATCTTCAGAAATGTGGACATGCTGAGTGAATTAGTCCAG
GAATATGATGAACCAATCTTGAAACACCTGCAGGATATTAAAGTGAAATTTTCTGACCCTGGACAGCCTATGTCT
TTTGTGTTAGAGTTCCACTTTGAACCCAACGACTACTTTACCAACTCAGTCCTGACAAAAACCTACAAGATGAAA
TCAGAACCAGATAAGGCTGATCCCTTTTCCCTTTGAAGGTCTTGAGATTGTGGACTGTGACGGGTGTACTATTGAC
TGGAAGAAAGGAAAGAATGTTACTGTCAAAACCATCAAGAAAAAGCAGAAGCATAAGGGTCGAGGCACTGTTAGA
ACAATTACGAAACAAGTACCCAATGAGTCCTTTTCAACTTCTTCAATCCATTGAAAGCATCCGGGGATGGAGAA
TCACTGGATGAAGATTCTGAATTCACATTAGCCTCTGATTTTGAATTTGGACACTTTTTCCGTGAGCGGATAGTC
CCGCGGGCTGTGCTGTACTTCACTGGGGAGGCCATAGAAGATGATGACAATTTTGAAGAAGGTGAAGAAGGAGAA
GAGGAGGAATTAGAAGGTGACGAGGAGGGAGAAGACGAGGATGATGCGGAAATTAACCCCAAGGTGTAATTTTGT
TCTGTTAATCATTACATCGTTTCTAGAAGGAACCCAGCCAGCCGGCGGAATGCAAGCAGCAGTAGGAAGCGGAGG
CGGGTGCCTGGCAGACCGGCTGTGCGGACTCCAGGCCTGTGGGCGGGGCCTCGGTCCTTGCCGCAGCACAAATCCC
GTGGACAGAGCTTACTCCATCTAACTCGTTTTCAAGTGCATGATTTTCACTTTCACTTTTCTTTTCTTTATTA
TTTTGCTTAACCTGTACAGTGGCAACTGAAATGCATTTGAGAAATAGGAGGTTTCGTCCAGCACCTCTGCAGCC
TTGGTGCCTGTAGCTCTGGACTTCCCTGGGCCTTTCCCTGTGGGAGGGCCCTGTAGACCACATCAGGGTGGGGTG
GGGGTCACTTGGCAAAAAGGGCCGAGGTCTGGTGATGTGGTTCCCAGGATCTGGAACCTCTCCCACCCCTCCTGC
AGTTGGACTGAATTTCTCCCTTTCATCCGAAGAAACCCACTTGCTGTTTCCAGCCGCTGAATCTGCTGAGTGTGC
AGCCTGCATCACCTGCTGTATGCCGATCATCTCAGAAAGGGCTGTGTAGAGTAGGGCCCTGTTCTCCTTAGGATG
TTGCTTCTTCATTTTTTTTTTTTTTTAGGGGTGGGTGAGGGTTGTGACACACCAGCCAGGTGAGAGCTGCTGCG
GGTCACCTCATATTTATTTATCCCTTCTTGCTGTGAGGACTGCGGCTTTTCGCTGTGGCTCGTCCTTAACGTTT
CTGAACCACCTTGGTGCCCTGAGCAGGAAGATGTGCCACTTCCTAGCAGGCGCAAGGCCTGTGCGGAAGAAACGC
CGCTCCCTGCCACCAGGGCTGAAGATGCGAGCCCCGTCTCATGACGCAGGCGCCACCCTGCTGCCGGAGCCGGGC
TTCGGCAGTCTTCTCCACTGAGGGACTGGGCTGGGAAGTCCTGCGTTTCAGTGGAGCGTATGAGCGTCAAGTCCT
GCTTTCTCAGTAGCCCCATTGCGGGGCCCCACCATTCATCCTGTCTGAAGGTCCTGGGTTTGGTGTGACCGCTTG
GCGGCTGGTGGGTGGGGTTTTCAAGTGGGTGACGGCGCTCTCCGGCAGCCGGGGATGGCCGTGTCCGCACTGACC
AGGCCTGTGGAGAGTGCTCGGCCTAACCTTAGAACACATTTGTAAGTGAATACAGTGTTCATTTGTACAGAA
TAGTTAGAATATTCTATTAAAGTGGTGAAACATTG

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FIGURE 3137

CCGGGGCGGCGGTTGCATCAGATTCTAGGAAGTGTCTGTAGCCGCAGCTGCGGGTCCGGGATTCCCAGCC**ATGGC**
AGATTCCCTCCGGGCAGCAGGGCAAAGGCCGGCGTGTGCAGCCCCAGTGGTCCCCTCCTGCTGGGACCCAGCCATG
CAGACTCCACCTTTACAACAGCCTCACCAGGAACAAGGAAGTGTTTCATACCTCAAGATGGGAAAAAGGTGACGTG
GTATTGCTGTGGGCCAACCGTCTATGACGCATCTCACATGGGGCAGCCAGGTCTTACATCTCTTTTGATATCTT
GAGAAGAGTGTTGAAGGATTACTTCAAATTTGATGTCTTTTATTGCATGAACATTACGGATATTGATGACAAGAT
CATCAAGAGGGCCCCGGCAGAACACCTGTTTCGAGCAGTATCGGGAGAAGAGGCCCTGAAGCGGCACAGCTCTTGGA
GGATGTTTCAGGCCGCCCTGAAGCCATTTTCAGTAAAATTAAATGAGACCACGGATCCCGATAAAAAGCAGATGCT
CGAACGGATTTCAGCACGCAGTGCAGCTTGCCACAGAGCCACTTGAGAAAGCTGTGCAGTCCAGACTCACGGGAGA
GGAAGTCAACAGCTGTGTGGAGGTGTTGCTGGAAGAAGCCAAGGATTTGCTCTCTGACTGGCTGGATTCTACACT
TGGCTGTGATGTCACTGACAATTCCATCTTCTCCAAGCTGCCCAAGTTCTGGGAGGGGGACTTCCACAGAGACAT
GGAAGCTCTGAATGTTCTCCCTCCAGATGTCTTAACCCGGGTAGTGAGTATGTGCCAGAAATTGTGAACCTTTGT
CCAGAAGATTGTGGACAACGGTTACGGCTATGTCTCCAATGGGTCTGTCTACTTTGATACAGCGAAGTTTGCTTC
TAGCGAGAAGCACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGAGATCAGAAAGCCCTTCAAGAAGGGGAAGG
TGACCTGAGCATCTCTGCAGACCGCTGAGTGAGAAGCGCTCTCCAACGACTTTGCCTTATGGAAGGCCTCTAA
GCCCCGAGAACCCTCTGGCCGTGCCCTTGGGGAAAGGGTCGTCCGGGTGGCATATCGAGTGCTCGGCCATGGC
AGGCACCCTCCTAGGGGCTTCGATGGACATTACGGAGGTGGGTTCGACCTCCGGTTCCCCCACCATGACAATGA
GCTGGCACAGTCGGAGGCCTACTTTGAAAACGACTGCTGGGTGAGTACTTCTGCACACAGGCCACCTGACCAT
TGCAGGCTGCAAAATGTCAAAGTCACTAAAAAATTTCATCACCATTAAAGATGCCTTGAAAAAGCACTCAGCACG
GCAGTTGCGGCTGGCCTTCCTCATGCACTCGTGGAAGGACACCCTGGACTACTCCAGCAACACCATGGAGTCAGC
GCTTCAATATGAGAAGTTCTTGAATGAGTTTTTCTTAAATGTGAAAGATATCCTTCGCGCTCCTGTTGACATCAC
TGGTCAGTTTGAGAAGTGGGGAGAAGAAGAAGCAGAACTGAATAAGAATTTTATGACAAGAAGACAGCAATTCA
CAAAGCCCTCTGTGACAATGTTGACACCCGCACCGTCATGGAAGAGATGCGGGCCTTGGTCAGTCAGTGCAACCT
CTATATGGCAGCCCCGAAAGCCGTGAGGAAGAGGCCCAACCAGGCTCTGCTGGAGAACATCGCCCTGTACCTCAC
CCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCTGGGATTCCCGGTCGGAGGGCCTGGAACCAG
CCTCAGTCTCGAGGCCACAGTCATGCCCTACCTTCAGGTGTTATCAGAATTCGAGAAGGAGTGCGGAAGATTGC
CCGAGAGCAAAAAGTCCCTGAGATTCTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGT
GCGGTTTGAAGACCACGAAGGACTGCCCACAGTGGTGAACTGGTAGACAGAAACACCTTATTAAAAGAGAGAGA
AGAAAAGAGACGGGTTGAAGAGGAGAAGAGGAAGAAGAAGAGGAGGCGGCCCGGAGGAAAACAGGAACAAGAAGC
AGCAAAGCTGGCCAAGATGAAGATTCCCCCAGTGAGATGTTCTTGTCAGAAACCGACAAATACTCCAAGTTTGA
TGAAAATGGTCTGCCACACATGACATGGAGGGCAAAGAGCTCAGCAAAGGGCAAGCCAAGAAGCTGAAGAAGCT
CTTCGAGGCTCAGGAGAAGCTCTACAAGGAATATCTGCAGATGGCCCAGAATGGAAGCTTCCAG**TGAG**GGGGGCAC
AGGACTGACTTTTTTAACCATTTGTGGACTAGTGGCTGCTGTCTGCCTCAGTGACAATGTCCCAGCGCTCCTATCA
TGTTTACAGTCACCCCTGGGTCCTAAATTAAGAGTTGTGTTTCATGTAGGTTTCGTGTCGTGCTGGCTCTGAGACA
TTGATAATAAATTTTTCTCAACAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3138

MADSSGQQGKGRRVQPQWSPPAGTQPCRLHLYNSLTRNKEVFIPQDGKKVTWYCCGPTVYDASHMGHARSYISFD
ILRRVLKDYFKFDVFCMNITDIDDKIIKRARQNHLEQYREKRPEAAQLLEDVQAALKPFSVKLNETTDPDKKQ
MLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVEVLLEEAKDLLSDWLDSTLGCDVTDNSIFSCLPKFWEGDFHR
DMEALNVLPDPVLTRVSEYVPEIVNFVQKIVDNGYGYVSNQSVYFDTAKFASSEKHSYGKLVPEAVGDQKALQEG
EGDLSISADRLSEKRSPNDFALWKASKPGEPSPWPCPWGKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHD
NELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNF ITIKDALKKHSARQLRLAFLMHSWKDTLDYSSNTME
SALQYEKFLNEFFLNVDILRAPVDITGQFEKWGEEEAELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQC
NLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSLLEATVMPYLQVLSEFREGVRK
IAREQKVPEILQLSDALRDNILPELGVRFEDEHGLPTVVKLVDRNTLLKEREKRRVEEEKRKKKEEAARRKQEQ
EAAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHMEGKELSKGQAKKLKKLFEAQEKLYKEYLQMAQNGSFQ

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FIGURE 3139

ATGTCCATCAGGGTAACCCAGAAGTCCTACGAGGTGTCCACCTCTAGCCCCCAGGACTTCAGCAGCCGCTCCTA
CACGAGTGGACCTGGTGCCTGCATCAGCTCCTCAAGCTTTTCCCCAGTGGTACCAGCAGCTTCCGGGGTAGCCTG
GGTGGAGGTTATGACAAGGTACGGTTCCTGGAGCAGCATAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAG
CAGCAGAAGACAGCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAACTGGAC
ACTCTGGGCCAGGAGAAGCTGAAGCTTGGCAACATGCAAGGGCTGATGGAGAAGTGCAGAACAAGTATGAGGAT
GAGATCAATAAGTGTGCAGAGCTGGAGAATGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTAACATGAAC
AAGGTAGAGCTGGAGTCTCTCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAG
ATCCAGAGCTGCAGTCCAGATTTTCGGACACATCTGTGGTGCTGTCCATGGACAGCAGCCGCTCCCTGGACATG
GACAACACTATCGCTGAGGTCAAGGCGCAGTACAAGGTGATCTCCAACCGCAGCCGGGCGGAGGCTGAGAGCATG
CACCAGATCAACTCCTTCAGCCACACCAGCTCCACCAGGGCCGTGTTGTGAAGAATATCGAGACCCACGAAGGG
AAGCTGGTGTCCGAGTCCTCTGACGTCCTGCCCAAGTGA

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FIGURE 3140

MSIRVTQKSYEVSTSSPPGLQQPLLHEWTWCLHQLLKLFPSTSSFRGSLGGGYDKVRFLEQHNKMLETKWSLLQ
QQKTARSNMDNMFESYINNLRQLDTLGQEKLLGNMQGLMENCKNKYEDEINKCAELENEFVLIKKDVDEANMN
KVELESLLLEGLTDEINFLRQLYEEIPELQSQISDTSVVLSDSSRSLDMDNTIAEVKAQYKLHGYQELMKVKLA
LDIEIATYRKLLDGEESRLDSFSHTSSTRAVVVKNIETHEGKLVSESSDVLPK

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FIGURE 3141

GGGAAGGGGATTGATTGTTGCGCCTCTGCTCTGAAGAAAGTGCTGTCTGGCTCCAACTCCAGTTCTTTCCCCT
GAGCAGCGCCTGGAACCTAACCCCTTCCCCTCTGTACCTTCTCGATCCCGCCGGCGCTTTAGAGCCGCAGTCCA
GTCTTGATCCTTCAGAGCCTTAGCCACTAGCTGCGATGCATGTGATCAAGCGAGATGGCCGCCAAGAACGAGTC
ATGTTTGACAAAATTACATCTCGAATCCAGAAGCTTTGTTATGGACTCAATATGGATTTTGTGATCCTGCTCAG
ATCACCATGAAAGTAATCCAAGGCTTGACAGTGGGGTCACCACAGTGGAAGTACTTGGCTGCTGAAACA
GCTGCAACCTTGACTACTAAGCACCCCTGACTATGCTATCCTGGCAGCCAGGATCGCTGTCTCTAACTTGCACAAA
GAAACAAAGAAAGTGTTCACTGATGTGATGGAAGACCTCTATACTACATAAATCCACATAATGGCAAACACTCT
CCCATGGTGGCCAAGTCAACATTGGATATTGTTCTGGCCAATAAAGATCGCCTGAATTCTGCTATTATCTATGAC
CGAGATTTCTCTTACAATTACTTCGGCTTTAAGACGCTAGAGCGGTCTTATTTGTTGAAGATCAATGGAAAAGTG
GCTGAAAGACCACAACATATGTTGATGAGAGTATCTGTTGGGATCCACAAAGAAGACATTGATGCAGCAATTGAA
ACATATAATCTTCTTTCTGAGAGGTGGTTTACTCATGCTTCGCCCTCTCTTCAATGCTGGTACCAACCGCCCA
CACTTTCTAGCTGTTTTCTTCTGAGTATGAAAGATGACAGCATTGAAGGCATTTATGACACTCTAAAGCAATGT
GCATTGATTTCTAAGTCTGCTGGAGGAATTGGTGTGCTGTGAGTTGTATTTCGGGCTACTGGCAGCTACATTGCT
GGGACTAATGGCAATTCCAATGGCCTTGACCGATGCTGAGAGTATATAACAACACAGCTCGATATGTGGATCAA
GGTGGGAACAAGCGTCCTGGGGCATTGCTATTTACCTGGAGCCTTGGCATTTAGACATCTTTGAATTCCTTGAT
TTAAAGAAGAACACAGGAAAGGAAGAGCAGCGTGCCAGAGATCTTTTCTTTGCTCTTTGGATTCCGGATCTCTTC
ATGAAACGAGTGGAGACTAATCAGGACTGGTCTTTGATGTGTCCAAATGAGTGTCTGCTGGTCTGGATGAGGTTTGG
GGAGAGGAATTTGAGAACTATATGCAAGTTATGAGAAACAAGGTCGTGTCCGCAAAGTTGTAAGGCTCAGCAG
CTTTGGTATGCCATCATTGAGTCTCAGACGGAACAGGCACCCCGTATATGCTCTACAAAGATTCCTGTAATCGA
AAGAGCAACCAGCAGAACCTGGGAACCATCAAATGCAGCAACCTGTGCACAGAAATAGTGGAGTACACCAGCAAA
GATGAGGTTGCTGTTTGTAATTTGGCTTCCCTGGCCCTGAATATGTATGTCACATCAGAACACACATACGACTTT
AAGAAGTTGGCTGAAGTCACTAAAGTCGTTGTGCCGAACTTGAATAAAATTATTGATATAAACTACTATCCTGTA
CCAGAGGCATGCCTATCAAATAAACGCCATCGCCCCATTGGAATTGGGGTACAAGGTCTGGCAGATGCTTTTATC
CTGATGAGATACCCCTTTTGAGAGTGCAGAAGCCAGTTACTGAATAAGCAGATCTTTGAACTATTTATTATGGT
GCTCTGGAAGCCAGCTGTGACCTTGCCAAGGAGCAGGGCCCATACGAAACCTATGAGGGCTCTCCAGTTAGCAAA
GGAATTCCTCAGTATGATATGTGGAATGTTACTCTACAGACCTATGGGACTGGAAGGTTCTCAAGGAGAAGATT
GCAAAGTATGGTATAAGAAACAGTTTACTTATTGCCCCGATGCCTACAGCTTCCACTGCTCAGATCCTGGGGAAT
AATGAGTCCATTGAACCTTACACCAGCAACATCTATACTCGCAGAGTCTTGTGAGGAGAATTCAGATTGTAAAT
CCTCACTTATTGAAAGATCTTACCGAGCGGGGCCTATGGCATGAAGAGATGAAAAACCAGATTATTGCATGCAAT
GGCTCTATTTCAGAGCATACCAGAAATTCCTGATGACCTGAAGCAACTTTATAAACTGTGTGGGAAATCTCTCAG
AAAACCTGTTCTCAAGATGGCAGCTGAGAGAGGTGCTTTTATTGATCAAAGCCAATCTTTGAACATCCACATTGCT
GAGCCTAACTATGGCAAACTCACTAGTATGCACTTCTACGGCTGGAAGCAGGGTTTGAAGACTGGGATGTATTAT
TTAAGGACAAGACCAGCGGCTAATCCAATCCAGTTCACTCTAAATAAGGAGAAGCTAAAAGATAAAGAAAAGGTA
TCAAAAGAGGAAGAAGAGAAGGAGAGGAACACAGCAGCCATGGTGTGCTCTTTGGAGAATAGAGATGAATGTCTG
ATGTGTGGATCCTGAGGAAAGACTTGGAAGAGACCAGCATGTCTTCAGTAGCCAACTACTTCTTGAGCATAGAT
AGGTATAGTGGGTTTGCTTGAGGTGGTAAGGCTTTGCTGGACCCTGTTGCAGGCAAAAGGAGTAATTGATTTAAA
GTACTGTTAATGATGATAATGATTTTTTTTTTAACTCATATATTGGGATTTTACCAAAATAATGCTTTTGAAA
AAAAGAAAAAAGGATATATTGAGAATCAAAGTAGAAGTTTTAGGAATGCAAAATAAGTCATCTTGCATAC
AGGGAGTGGTTAAGTAAGGTTTCATCACCCCTTTAGCACTGCTTTTCTGAAGACTTCAGTTTTGTAAAGGAGATT
TAGTTTTACTGCTTTGACTGGTGGGTCTCTAGAAGCAAACTGAGTGATAACTCATGAGAAGTACTGATAGGACC
TTTATCTGGATATGGTCCTATAGGTTATTCTGAAATAAAGATAAACATTTCTAAGTG

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FIGURE 3142

ACACTCGCTTCTGGAACGTCTGAGATTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTACAGAGGAGG
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCC
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA
AGGGCACCTTTGCCCAGCTGAGTGAAGTGCAGTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGG
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTGCGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA
AGATGGTGACTGCAGTGGCCAGTGCCCTGTCCTCCAGATACCACTGAGCCCTCTTGCCCATGATTCAGAGCTTTCA
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTGAGAGATCAC

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FIGURE 3143

MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDA
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMTAVASALSSRYH

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FIGURE 3144

ACACTCGCTTCTGGAACGTCTGAGGTTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTACAGAGGAGG
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCC
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA
AGGGCACCTTTGCCCAGCTGAGTGAAGTGCAGTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGG
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA
AGATGGTGACTGGAGTGGCCAGTGCCCTGTCCTCCAGATACCACTGAGCTCACTGCCCATGATGCAGAGCTTTCA
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTAAGAGATCAC

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FIGURE 3145

MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDA
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH

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FIGURE 3146

CAACAAAAAGAGCCTCAGGATCCAGCACACATTATCACAACTTAGTGTCCATCCATCACTGCTGACCCTCTCC
GGACCTGACTCCACCCCTGAGGACACAGGTCAGCCTTGACCAATGACTTTTAAGTACCATGGAGAACAGGGGGCC
AGAACTTCGGCAGTAAAGAATAAAAGGCCAGACAGAGAGGCAGCAGCACATATCTGCTTCCGACACAGCTGCAAT
CACTAGCAAGCTCTCAGGCCTGGCATCATGGTGCATTTTACTGCTGAGGAGAAGGCTGCCGTCCTAGCCTGTGG
AGCAAGATGAATGTGGAAGAGGCTGGAGGTGAAGCCTTGGGCAGACTCCTCGTTGTTTACCCCTGGACCCAGAGA
TTTTTTGACAGCTTTGGAAACCTGTCGTCTCCCTCTGCCATCCTGGGCAACCCCAAGGTCAAGGCCCATGGCAAG
AAGGTGCTGACTTCCTTTGGAGATGCTATTAAAAACATGGACAACCTCAAGCCCGCCTTTGCTAAGCTGAGTGAG
CTGCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGGGTAACGTGATGGTGATTATTCTGGCT
ACTCACTTTGGCAAGGAGTTCACCCCTGAAGTGCAGGCTGCCTGGCAGAAGCTGGTGTCTGCTGTGCCATTGCC
CTGGCCCATAAAGTACCACTGAGTTCTCTTCCAGTTTGCAGGTCTTCTGTGACCCTGACACCCTCCTTCTGCACA
TGGGGACTGGGCTTGGCCTTGAGAGAAAGCCTTCTGTTTAATAAAGTACATTTTCTTCAGTAATC

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FIGURE 3147

MVHFTAEKAAVTSLSKMNVEEAGGEALGRLLVVYPWTQRFFDSFGNLSSPSAILGNPKVKAHGKKVLTSFGDA
IKNMDNLKPAFAKLSELHCDKLHVDPENFKLLGNVMVILATHFGKEFTPEVQAAWQKLVSAVAIALAHKYH

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FIGURE 3148

CTCTTCTCCCCTGATTCAAGACTCCTCTGCTTTGGACTGAAGCACTGCAGGAGTTTGTGACCAAGAACTTCAAGA
GTCAAGACAGAAGGAAGCCAAGGGAGCAGTGCAATGGATTTCTCAGTAAAGGTAGACATAGAGAAGGAGGTGACC
TGCCCCATCTGCCTGGAGCTCCTGACAGAACCTCTGAGCCTAGATTGTGGCCACAGCTTCTGCCAAGCCTGCATC
ACTGCAAAGATCAAGGAGTCAGTGATCATCTCAAGAGGGGAAAGCAGCTGTCCTGTGTGTCAGACCAGATTCCAG
CCTGGGAACCTCCGACCTAATCGGCATCTGGCCAACATAGTTGAGAGAGTCAAAGAGGTCAAAGATGAGCCACAG
GAGGGGCAGAAGAGAGATGTCTGTGAGCACCACGGAACCAACTCCAGATCTTCTGTAAGGAGGATGGAAGATC
ATTTGCTGGGTTTGTGAAGTGTCTCAGGAACACCAAGGTCACCAAACATTCCGCATAAACGAGGTGGTCAAGGAA
TGTCAGGAAAAGCTGCAGGTAGCCCTGCAGAGGCTGATAAAGGAGAATCAAGAGGCTGAGAAGCTGGAAGATGAC
ATCAGACAAGAGAGAACCGCCTGGAAGATCGAGAGACAGAAGATTCTGAAAGGGTTCAATGAAATGAGAGTCATC
TTGGACAATGAGGAGCAGAGAGAGCTGCAAAAGCTGGAGGAAGGTGAGGTGAATGTGCTGGATAACCTGGCAGCA
GCTACAGACCAGCTGGTCCAGCAGAGGCAGGATGCCAGCACGCTCATCTCAGATCTCCAGCGGAGGTTGACGGGA
TCGTCTAGTAGAGATGCTGCAGGATGTGATTGACGTCATGAAAAGGAGTGAAAGCTGGACATTGAAGAAGCCAAAA
TCTGTTTTCCAAGAACTAAAGAGTGTATTCCGAGTACCAGATCTGAGTGGGATGCTGCAAGTTCTTAAAGAGCTG
ACAGATGTCCAGTACTACTGGGTGGACGTGATGCTGAATCCAGGCAGTGCCACTTCGAATGTTGCTATTTCTGTG
GATCAGAGACAAGTGAAAACCTGTACGCACCTGCACATTTAAGAATTCAAATCCATGTGATTTTTCTGCTTTTGGT
GTCTTCGGCTGCCAATATTTCTCTTCGGGGAAATATTACTGGGAAGTAGATGTGTCTGGAAAGATTGCCTGGATC
CTGGGCGTACACAGTAAAATAAGTAGTCTGAATAAAAGGAAGAGCTCTGGGTTTGCTTTTGATCCAAGTGTAAT
TATTCAAAAGTTTACTCCAGATATAGACCTCAATATGGCTACTGGGTTATAGGATTACAGAATACATGTGAATAT
AATGCTTTTGAGGACTCCTCCTCTCTGATCCCAAGGTTTTGACTCTCTTTATGGCTGTGCTCCCTGTCGTATTG
GGGTTTTCTAGACTATGAGGCAGGCATTGTCTCATTTTTCAATGTCAAAACCACGGAGCACTCATCTACAAGT
TCTCTGGATGTGCTTTTTCTCGACCTGCTTATCCGTATTTCAATCCTTGGAAGTGCCTAGTCCCCATGACTGTGT
GCCCACCGAGCTCCTGAGTGTCTCATTCCTTTACCCACTTCTGCATAGTAGCCCTTGTGCTGAGACTCAGATTC
TGCACCTGAGTTTCATCTCTACTGAGACCATCTCTTCCTTTCTTTCCCTTCTTTTACTTAGAATGTCTTTGTATT
CATTTGCTAGGGCTTCCATAGCAAAAGCATCATAGATTGCTGATTTAAACTGTAATTGTATTGCCGTACTGTGGGC
TGGAATCCCAAATCTAGATTCCAGCAGAGTTGGTTCTTTCTGAGGTCTGCAAGGAAGGGCTCTGTTCCATGCCT
CTCTCCTTGGCTTGTAGAAGGCATCTTGTCCCTATGACTCTTCACATTGTCTTTATGTACATCTCTGTGCCCAAG
TTTTCCCTTTTTTATTAAGACACCAGTCATACTGGCTCAGGGCCACCCTAATGCCTTAATGAAATCATTTTAAC
ATTATATTCTCTACAAAGACCTTATTTCCAAATAAGATAATATTTGGAGGTATTGGGAATAAAAACCTCCAACATA
TAAATTTGAGGAAGGCACGATTTCACTCATAACAATCTTACCCTTTCTTGCAAGAGATGCTGTACATAATTTTC
CTAATACCTTGGTTTCACTAGTAGTAAACATTATTATTTTTTTTATATTTGCAAAGGAAACATATCTAATCCTTC
CTATAGAAAGAACAGTATTGCTGTAATGTCCTTTTCTTTCTCCTCATTTCCTCTGCCCCTTAAAAGATTGAAG
AAAGAGAACTTGTCAACTCATATCCACGTTATCTAGCAAAGTACATAAGAATCTATCACTAAGTAATGTATCCT
TCAGAATGTGTTGGTTTACCAGTGACACCCCATATTATCACAAAATTAAAGCAAGAAGTCCATAGTAATTTATT
TGCTAATAGTGGATTTTTAATGCTCAGAGTTTCTGAGGTCAAATTTTATCTTTTCACTTACAAGCTCTATGATCT
TAAATAATTTACTTAATGTATTTTGGTGTATTTTCTCAAATTAATATTGGTGTTCAGACTATATCTAATTCCT
CTGATCACTTTGAGAAACAACTTTTATTAATGTAAGGCACTTTCTATGAATTTTAAATATAAAAATAAATAT
TGTTCTGATTATTACTGAAAAGATGTCAGCCATTTCAATGTCTTGGGAAACAATTTTTTGTTTTTGTCTGTTTT
CTTTTTGCTTCAATAAAACAATAGCTGGCTCT

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FIGURE 3149

GGCACGAGGCTGAGCGCTCCGACTTCCAGAGGAGCGCTGTGCACGTGGAGAAGAGCGGGGACTCGGGCGACCCTGC
CCTCCCGACCCTC**ATG**TTTGAAGAGCCTGAGTGGGCCGAGGCGGCCCCAGTAGCCGCGGGCCTTGGGCCCGTAAT
CTCACGACCTCCGCCTGCGGCCTCCTCGCAAAACAAGGGCTCCAAGCGCCGCCAGCTCTTGGCCACATTACGGGC
CCTAGAGGCAGCATCTCTTTCCAGCATCCCCCAGCCTATGTATAAGTGAAGTCTGAGGAGGAGGAGGAGGAAAG
GAAGAAGAAATGCCCCAAAAAGGCATCATTTGCCAGTGCCTCTGCTGAAGTAGGGAAGAAAGGGAAGAAGAAATG
TCAAAAACAGGGCCACCTTGCAGTGAAGTCTGAGGAAGAAGTAGAAAGGAAGAAGAAATGCCACAAACAGGCTCT
TGTTGGCAGTGAAGTCTGCTGAAGATGAGAAAAGAAAGAGGAAATGCCAGAAACATGCCCCATAAAATTCAGCCCA
GCACCTGGACAATGTTGACCAACAGGTCCCAAAGCCTGGAAGGGTAGTACTACAAATGATCCACCAAGCAAAG
CCCTGGGTCCACTTCCCTAAACCCCTCATACATTAAGCCGCAAGCAGTGGCGGAACCGGCAAAAGAATAAGAG
AAGATGTAAGAACAAGTTTCAGCCACCTCAGGTGCCAGACCAGGCCCCAGCTGAGGCCCCACAGAGAAGACAGA
GGTGTCTCCTGTTCCAGGACAGACAGCCATGAGGCTCGGGCAGGGGCTTTGCGAGCCCGCATGGCACAGCGGCT
GGATGGGGCCCGATTTGCTACCTCAATGAACAGTTGTACTCAGGGCCAGCAGTGTGTCACAGCGTCTCTTCCA
GGAAGACCCTGAGGCTTTTCTTCTTACCACCGCGCTTCCAGAGCCAAGTGAAGAAGTGGCCACTGCAGCCAGT
GGACCGCATCGCCAGGGATCTTCGCCAGCGGCCTGCATCCCTAGTGGTGGCTGACTTCGGCTGTGGGGATTGCCG
CTTGGCTTCAAGTATCCGGAACCCCTGTGCATTGCTTTGACTTGGCTTCTCTGGACCCTAGGGTCACTGTGTGTGA
CATGGCCCAGGTTTCTCTGGAGGATGAGTCTGTGGATGTGGCTGTGTTTTGCCTTTCAGTATGGGAACCAACAT
CAGGGACTTCCTAGAGGAGGCAAATAGAGTACTGAAGCCAGGGGTCTCCTGAAAGTGGCTGAGGTGAGCAGCCG
CTTTGAGGATGTTTGAACCTTTTCTGCGGGCTGTGACCAAGCTAGGCTTCAAGATTGTCTCCAAGGACCTGACCAA
CAGCCATTTCTTCTTGTGTTTGAATTTCCAAAAGACTGGGCCCCCTCTGGTAGGGCCCAAGGCTCAGCTTTAGGCCT
GCAGCTTCAGCCATGTCTCTACAAGCGCAGG**TGAC**CTCTGGATCTTCTTGAAGGGGAGGCAGATCTCAAATC
CAGGCTCAGAACTGTGAAGACTGTTTCCAGCCTGGCTGTGAGCCAAGACCTGGTTTCTGGTGGACCCTGAGGACA
AAGTGTGATAAAACCTCTGGCTCAGACTTGCTCTACTGAAGGCTTCTTGGTTATAAGATGCATAAAGTCACTGGG
GCTAGCTAAACAATAAAGAGTTTATTGTGAGAAAAA

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FIGURE 3150

MFEEPEWAEAAPVAAGLGPVISRPPPAASSQNKGSKRRQLLATLRALEAASLSQHPPSLCISDSEEEEEERKKKC
PKKASFASASAEVGKKGKKKCQKQGPPCSDSEEEVERKKCHKQALVGSDSAEDEKRKRKCQKHAPINSAQHLDN
VDQTGPKAWKGSTTNDPPKQSPGSTSPKPPHTLSRKQWRNRQKNKRRCKNKFQPPQVPDQAPAEAPTEKTEVSPV
PRTDSHEARAGALRARMARLDGARFRYLNEQLYSGPSSAAQRLFQEDPEAFLLYHRGFQSQVKKWPLQPVDRIA
RDLRQRPASLVVADFGCGDCRLASSIRNPVHCFDLASLDPRVTVCDMAQVPLEDESVDVAVFCLSLMGTNIRDFL
EEANRVLKPGGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLTNSHFFLFDFQKTGPPLVGPKAQLSGLQLQP
CLYKRR

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FIGURE 3151

ACGGGAGTTCCCCGGAGAAGGATCCTGCAGCCCCGAGTCCCCGAGGATAAAGCTTGGGGTTCATCCTCCTTCCCTGG
ATCACTCCACAGTCCTCAGGCTTCCCCAATCCAGGGGACTCGGCGCCGGGACGCTGCTATGGACGACATTTTCAC
TCAGTGCCGGGAGGGCAACGCAGTCGCCGTTTCGCCTGTGGCTGGACAACACGGAGAACGACCTCAACCAGGGGGA
CGATCATGGCTTCTCCCCCTTGCACTGGGCCTGCCGAGAGGGCCGCTCTGCTGTGGTTGAGATGTTGATCATGCG
GGGGGCACGGATCAATGTAATGAACCGTGGGGATGACACCCCCCTGCATCTGGCAGCCAGTCATGGACACCGTGA
TATTGTACAGAAGCTATTGCAGTACAAGGCAGACATCAATGCAGTGAATGAACATGGGAATGTGCCCTGCACTA
TGCTGTTTTTTGGGGCCAAGATCAAGTGGCAGAGGACCTGGTGGCAAATGGGGCCCTTGTGAGCATCTGTAACAA
GTATGGAGAGATGCCTGTGGACAAAGCCAAGGCACCCCTGAGAGAGCTTCTCCGAGAGCGGGCAGAGAAGATGGG
CCAGAATCTCAACCGTATTCCATACAAGGACACATTCTGGAAGGGGACCACCCGCACTCGGCCCCGAAATGGAAC
CCTGAACAAACACTCTGGCATTGACTTCAAACAGCTTAACTTCCTGACGAAGCTCAACGAGAATCACTCTGGAGA
GCTATGGAAGGGCCGCTGGCAGGGCAATGACATTGTCTGTAAGGTGCTGAAGGTTTCGAGACTGGAGTACAAGGAA
GAGCAGGGACTTCAATGAAGAGTGTCCCCGGCTCAGGATTTTCTCGCATCCAAATGTGCTCCCAGTGCTAGGTGC
CTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATCACACACTGGATGCCATATGGATCCCTCTACAATGTACT
ACATGAAGGCACCAATTTTCGTCGTGGACCAGAGCCAGGCTGTGAAGTTTGCTTTGGACATGGCAAGGGGCATGGC
CTTCCTACACACACTAGAGCCCCTCATCCCACGACATGCACTCAATAGCCGTAGTGTAATGATTGATGAGGACAT
GACTGCCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCCTGGTCGCATGTATGCACCTGCCTGGGT
AGCCCCCGAAGCTCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAGACATGTGGAGTTTTGCAGTGCT
TCTGTGGGAAC TGGTGACACGGGAGGTACCCTTTGCTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATT
GGAAGGCCTTCGGCCTACCATCCCACCAGGTATTTCCCCTCATGTGTGTAAGCTCATGAAGATCTGCATGAATGA
AGACCCTGCAAAGCGACCCAAATTTGACATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAGTAGGACTGGAA
GGTCCTTGCTGAACTCCAGAGGTGTGGGACATGGTTGGGGGAATGCACCTCCCCAAAGCAGCAGGCCTCTGGT
TGCTCCCCCGCCTCCAGTCATGGTACTACCCACAGCCATGGGGTCCATCCCCTTCCCCCATCCCTACCACTGTGG
CCCCAAGAGGGGCGGGCTCAGAGCTTTGTCACTTGCCACATGGTGTCTCCCAACATGGGAGGGATCAGCCCCGCC
TGTCACAATAAAGTTTATTATG

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FIGURE 3152

ACATGACAGCAGATCCGCGGAAGGGCAGAATGGGACTCCAAGCCTGCCTCCTAGGGCTCTTTGCCCTCATCCTCT
CTGGCAAATGCAGTTACAGCCCGGAGCCCGACCAGCGGAGGACGCTGCCCCAGGCTGGGTGTCCCTGGGCCGTG
CGGACCCTGAGGAAGAGCTGAGTCTCACCTTTGCCCTGAGACAGCAGAATGTGGAAAGACTCTTGGAGCTGGTGC
AGGCTGTGTGCGATCCCAGCTCTCCTCAATACGGAAAATACCTGACCCTAGAGAATGTGGCTGATCTGGTGAGGC
CATCCCCACTGACCCTCCACACGGTGCAAAAATGGCTCTTGGCAGCCGGAGCCCAGAAGTGCCATTCTGTGATCA
CACAGGACTTTCTGACTTGCTGGCTGAGCATCCGACAAGCAGAGCTGTGCTCCCTGGGGCTGAGTTTCATCACT
ATGTGGGAGGACCTACGGAGACCCATGTTGTAAGGTCCCACATCCCTACCAGCTTCCACAGGCCCTTGGCCCCC
ATGTGGACTTTGTGGGGGGACTGCACCGTTTTCCCCAACATCATCCCTGAGGCAACGTCCTGAGCCGACGGTGA
CAGGGACTGTAGGCCTGCATCTGGGGGTAAACCCCTCTGTGATCCGTAAGCGATACAACCTTGACCTCACAAGACG
TGGGCTCTGGCACCAGCAATAACAGCCAAGCCTGTGCCAGTTTCTGGAGCAGTATTTCCATGACTCAGACCTGG
CTCAGTTTCATGCGCTCTTCGGTGGCAACTTTGCACATCAGGCATCAGTAGCCCGTGTGGTTGGACAACAGGGCC
GGGGCCGGGGCCGGATTGAGGCCAGTCTAGATGTGCACTACCTGATGAGTGCTGGTGCCAACATCTCCACCTGGG
TCTACAGTAGCCCTGGCCGGCATGAGGGACAGGAGCCCTTCCTGCAGTGGCTCATGCTGCTCAGTAATGAGTCAG
CCCTGCCACATGTGCATACTGTGAGCTATGGAGATGATGAGGACTCCCTCAGCAGCGCCTACATCCAGCGGGTCA
ACACTGAGCTCATGAAGGCTGCCGCTCGGGGTCTCACCTGCTCTTCGCTCAGGTGACAGTGGGGCCGGGTGTT
GGTCTGTCTCTGGAAGACACCAGTTCCGCCCTACCTTCCCTGCCTCCAGCCCCATGTCAACACAGTGGGAGGCA
CATCCTTCCAGGAACCTTTCTCATCACAAATGAAATGTTGACTATATCAGTGGTGGTGGCTTCAGCAATGTGT
TCCCACGGCCTTCATACCAGGAGGAAGCTGTAACGAAGTTCCCTGAGCTCTAGCCCCACCTGCCACCATCCAGTT
ACTTCAATGCCAGTGGCCGTGCCTACCCAGATGTGGCTGCACCTTTCTGATGGCTACTGGGTGGTCAGCAACAGAG
TGCCCATTCATGGGTGTCCGGAACCTCGGCCTCTACTCCAGTGTGTTGGGGGGATCCTATCCTTGATCAATGAGC
ACAGGATCCTTAGTGGCCGCCCCCTCTTGGCTTTCTCAACCCAAGGCTCTACCAGCAGCATGGGGCAGGACTCT
TTGATGTAACCCGTGGCTGCCATGAGTCTGTCTGGATGAAGAGGTAGAGGGCCAGGGTTTCTGCTCTGGTCCTG
GCTGGGATCCTGTAACAGGCTGGGGAACACCCAACCTTCCAGCTTTGCTGAAGACTCTACTCAACCCCTGACCCT
TTCCTATCAGGAGAGATGGCTTGTCCCCTGCCCTGAAGCTGGCAGTTCAGTCCCTTATTCTGCCCTGTTGGAAGC
CCTGCTGAACCTCAACTATTGACTGCTGCAGACAGCTTATCTCCCTAACCTGAAATGCTGTGAGCTTGACTTG
ACTCCCAACCTTACCATGCTCCATCATACTCAGGTCTCCCTACTCCTGCCTTAGATTCTCAATAAGATGCTGTA
ACTAGCATTTTTTGAATGCCTCTCCCTCCGCATCTCATCTTTCTCTTTTCAATCAGGCTTTTCCAAAGGGTTGTA
TACAGACTCTGTGCACTATTTCACTTGATATTCACTCCCCAATTCAGTGAAGGAGACCTCTACTGTCAACGTTT
ACTCTTTCTTACCCTGACATCCAGAAACAATGGCCTCCAGTGCATACTTCTCAATCTTTGCTTTATGGCCTTTCC
ATCATAGTTGCCCACTCCCTCTCCTTACTTAGCTTCCAGGTCTTAACTTCTCTGACTACTCTTGTCTTCTCTCT
CATCAATTTCTGCTTCTTTCATGGAATGCTGACCTTCATTGCTCCATTTGTAGATTTTTGCTCTTCTCAGTTTACT
CATTGTCCCTTGAACAAATCACTGACATCTACAACCAATTACCATCTCACTAAATAAGACTTTCTATCCAATAAT
GATTGATACCTCAAATGTAAGATGCGTGATACTCAACATTTCACTGTCACCTTCCCAACCCCAACAATTCAT
CTCGTTTCTTCTTGGTAAATGATGCTATGCTTTTTTCCAACCAAGCCAGAAACCTGTGTCTATCTTTTACCCCCACC
TTCAATCAACAAGTCCCTCAATCAACAAGTCTACTGACTGCACATCTTAAATATATCTTTATCAGTCCACAAGTC
CTTCCAATTATATTTCCCAAGTATATCTAGAAGTATCCACTTATATCCCACTGCTACTACCTTAGTTTAGGGC
TATATTCTCTTGAAAAAAGTGTCTTACTTCTGCAATCCCCAAGTCATCTTCCAGAGTAAAATGCAAATCCC
ATCAGGCCACTTGGATGAAAACCCCTTCAAGGATTACTGGATAGAATTCAGGCTTTCCCTCCACCCCCCAATCAT
AGCTCACAACCTTCCCTGCTATTTGTTCTTAAGTAAAAAATCATTTTCTCCTCCCTCCCCAACCCCAAGGA
ACTCTCACTCTTGCTCAAGCTGTTCCGTCCCCTTACCACCCCTGATACAAGTCCAGGTAAATTTCCAGAATTCT
TGCAAGACTCAGTTCAGAAGTCACCTTCTTTCGTGAATGTTTTGATTCCCTGAGGCTACTTTATTTTGGTATGGC
TGAAAAATCCTAGATTTTCTAAACAAAACCTGTTTGAATCTTGGTTCTGATATGGACTAGGAGAGAGACTGGGTC
AAGTAAGCTTATCTCCCTGAGGCTGTTTCTCGTCTGTGAAGTGTGAATATCAATACCTGCCTTTCATAATCACC
AGGGAATAAAGTGAATAATGTTGATAACAGTGTGTCACCTGGAAGTAGGTGGCAGATGTTAACGCCCTTCTCT
CCCTTGCACTGCGCCCCCTGTGCCCTACCTCTAGCATTGTAACGACCACATAGTATTGAAATGGCCAGTTTACTTG
TCTGCCCTTCTTTCCAAGACCGTTGGTGCCTAGAGGACTAGAATCGTGTCTTATTTAACTTTGTGTTCCAGGTC
CTAGCTCAGGAGTTGGCAAATAAGAATTAAATGTCTGCTACACCGAAA

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FIGURE 3153A

GCTGTGCAGGAGSCGGCGCCCCGGGCGTCAGCGGACGGACCGATCGCCGGCCAAGGGCGCGCGGTCCGACGGCGGC
TGCCCCGAGGGGATCGCGGGCCTCGGAGACAGCGACTGCGGACGATGCGCGGCTTCAGGCCCGCGCGAGCGGGC
GCTGCCCGGGGGGCTGACCGCGGCCGGACGGCGCCCCAGCACCGGGCGAGGGAGCCCGCTCGCGCGGAGGTACAG
GGAGCCTGAGCTGGAGCCAGGGCCCCAGTGGGACCTGACCCAAAGTCTGAGGTCAAAGTGGGCCAGAGCCTGGC
CTGGAGCTGGAGCCCCAAGGCACAGCTGGACTACCTTGTATGCAGAAGGAGCTGGGCATTGTGCCTTCCTGCCC
TGGCATGAAGAGCCCCAGGCCCCACCTCCTGCTACCAATTGCTGCTGCTGCTGCTGCTGCTGCTGGGGGCTGGGGT
GCCAGGTGCCTGGGGTACAGCTGGGAGCCTGGACTTGACAGATTGATGAGGAGCAGCCAGCGGTACACTGATTGG
CGACATCAGTGCGGGGCTTCCGGCAGGCACGGCAGCTCCTCTCATGTACTTCATCTCTGCCCAAGAGGGCAGCGG
CGTGGGCACAGACCTGGCCATTGACGAACACAGTGGGGTTCGTCCTACAGCCCGTGTCTTGGACCGTGAGCAGCG
GGACCGCTACCGCTTCACTGCAGTCACTCCTGATGGTGCCACCGTAGAAGTTACAGTGCAGTGGCTGACATCAA
CGACCATGCTCCAGCCTTCCCACAGGCTCGGGCTGCCCTGCAGGTACCTGAGCATAACAGCTTTTGGCACCCGCTA
CCCCTGGAGCCTGCTCGTGATGCAGATGCTGGGCGTCTGGGAACCCAGGGCTATGCGCTATCTGGTGATGGGGC
TGGAGAGACCTTCCGGCTGGAGACACGCCCCGGTCCAGATGGGACTCCAGTACCTGAGCTGGTAGTTACTGGGGA
ACTGGACCGAGAGAACCCTCACACTATATGCTACAGCTGGAGGCCTATGATGGTGGTTACCCCCCGGAGGGC
CCAGGCCCTGCTGGACGTGACACTGCTGGACATCAATGACCATGCCCCGGCTTTCAATCAGAGCCGCTACCATGC
TGTGGTGTCTGAGAGCCTGGCCCCCTGGCAGTCTGTCTTGCAGGTGTTTCGCATCTGATGCCGATGCTGGTGTCAA
TGGGGCTGTGACTTACGAGATCAACCGGAGGCAGAGCGAGGTGATGGACCTTCTCCATCGACGCACACACGGG
GCTGCTGCAGTTAGAGCGGCCACTGGACTTTGAGCAGCGGCGGGTCCATGAACTGGTGGTGCAAGCACGAGATGG
TGGGGCTCACCTGAGCTGGGCTCGGCCTTTGTGACTGTGCATGTGCGAGATGCCAATGACAATCAGCCCTCCAT
GACTGTCTCTTTCTCAGTGCAGATGGCTCCCCCAAGTGTCTGAGGCCGCCCCACCTGGACAGCTCGTTGCTCG
CATCTCTGTGTCAGACCCAGATGATGGTGACTTTGCCCATGTCAATGTGTCCCTGGAAGGTGGAGAGGGCCACTT
TGCCCTAAGCACCCCAAGACAGCGTCATCTATCTGGTGTGTGTGGCTCGGCGGGCTGGATCGAGAGGAGAGGGATGC
CTATAACTTGAGGGTTACAGCCACAGACTCAGGCTCACCTCCACTGCGGGCTGAGGCTGCCCTTTGTGCTGCACGT
CACTGATGTCAACGACAATGCACCTGCCTTTGACCGCCAGCTCTACCGACCTGAGCCCCCTGCCTGAGGTTGCGCT
GCCTGGCAGCTTTGTAGTGCGGGTGAAGTGTGCTCGGGATCCTGACCAAGGCACCAATGGTCAGGTCACTTATAGCCT
AGCCCCTGCGCGCCACACCCACTGGTTCTCCATTGACCCACCTCAGGCATTATCACTACGGCTGCCTCACTGGA
CTATGAGTTGGAACCTCAGCCACAGCTGATTGTGGTGGCCACAGATGGTGGCCTGCCCCCTCTAGCCTCCTCTGC
CACAGTTAGCGTGCCCTGCAAGATGTGAATGATAATGAGCCCCAATTCCAGAGGACTTTCTACAATGCCTCACT
GCCTGAGGGCACCCAGCCTGGAACCTTGCTTCCCTGCAGGTGACAGCCACAGACGCGGATAGTGGCCCATTTGGCCT
CCTCTCCTATTCTTGGGTGCTGGACTTGGGTCTCCGGATCTCCCCCATTCGCGATTGATGCCACAGCGGTGA
TGTGTGCACAACCCGGACCTGGACCGTGACCAGGGGGCCCTCAAGCTTTGACTTCACAGTGACAGCTGTGGATGG
GGGAGGCCTCAAGTCCATGGTATATGTGAAGGTGTTTCTGTGACAGAGAATGACAACCTCCTCAGTTTTATCC
ACGGGAGTATGCTGCCAGTATAAGTGCCAGAGTCCACAGGCACAGCTGTGCTGAGGTTGCGTGCCCATGACCC
TGACCAGGGATCCCATGGGCGACTCTCCTACCATATCCTGGCTGGCAACAGCCCCCACTTTTTACCTTGGATGA
GCAATCAGGGCTGTTGACAGTAGCCTGGCCCTTGCCAGACGGGCCAATTCTGTGGTGCAGCTGGAGATCGGGGC
TGAGGACGGAGGTGGCCTACAGGCAGAACCCAGTGCCCGAGTGGACATCAGCATTGTGCCTGGAACCCCCACACC
ACCCATATTTGAGCAACTACAGTATGTTTTTCTGTGCCAGAGGATGTGGCACCAGGCACCAGTGTGGGCATAGT
CCAGGCACACAACCCACCAGGTGCTTGGCACCTGTGACCTTTCCCTATCAGGTGGGGATCCCCGAGGACTCTT
CTCCCTAGATGCGGTATCAGGACTGTTGCAAACACTTCGCCCTCTGGACCGGGAGCTACTGGGACCAGTGTGGGA
GCTGGAGGTGCGAGCAGGCAGTGGAGTGCCCCAGCTTTGCTGTAGCTCGGGTGCGTGTGCTGCTGGATGATGT
GAATGACAACCTCCCTGCCTTTCTGACCTGAAGACACGGTATTGCTACCACCAAACACTGCCCCAGGGACTCC
CATCTATACACTGCGGGCTCTTGACCCGACTCAGGTGTTAACAGTCGAGTCACCTTTACCCTGCTTGGTGGGG
TGGTGGAGCCTTACCGTGACCCCAACACAGGCCATGTACGGCTTATGAGGCCTCTGGGGCCCTCAGGAGGGCC
AGCCCATGAGCTGGAGCTGGAGGCCCGGATGGGGCTCCCCACCACGCACCAGCCACTTTCGACTACGGGTGGT
GGTACAGGATGTGGGAACCCGTGGGCTGGCTCCCCGATTCAACAGCCCTACCTACCGTGTGGACCTGCCCTCAGG
CACCCTGCTGGAACCTCAGGTCTGCAAGTGCAGGCCCAAGCACAGATGGGGGCCCTATCACCTATCACCTTGC
AGCAGAGGGAGCAAGTAGCCCCCTTGGCCTGGAGCCACAGAGTGGGTGGCTATGGGTGCGGGCAGCACTAGACCG
TGAGGCCCAGGAATTGTACATACTGAAGGTAATGGCAGTGTCTGGGTCCAAGCTGAGTTGGGGCAGCAGACAGG

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FIGURE 3153B

CACAGCCACCGTGAGGGTCAGCATCCTCAACCAGAATGAACACAGTCCCCGCTTGTCTGAGGATCCCACCTTCCT
GGCTGTGGCTGAGAACCAGCCCCAGGGACCAGCGTGGGCCGAGTCTTTGCCACTGACCGAGACTCAGGACCCAA
TGGACGTCTGACCTACAGCCTGCAACAGCTGTCTGAAGACAGCAAGGCCTTCCGCATCCACCCCCAGACTGGAGA
AGTGACCACACTCCAAACCCTGGACCGTGAGCAGCAGAGCAGCTATCAGCTCCTGGTGACAGGTGCAGGATGGAGG
GAGCCACCCCGCAGCACCACAGGCACTGTGCATGTTGCAGTGCTTGACCTCAACGACAACAGCCCCACGTTTCCT
GCAGGCTTCAGGAGCTGCTGGTGGGGGCTCCCTATACAGGTACCAGACCGCGTGCTCCAGGAACACTGGTGAC
GACTCTGCAGGCGAAGGATCCAGATGAGGGGGAGAATGGGACCATCTTGACACGCTAACTGGTCTGGCTCAGA
GCTTTTCTCTCTGCACCCTCACTCAGGGGAGCTGCTCACTGCAGCTCCCTGATCCGAGCAGAGCGGCCCACTA
TGTGCTGACACTGAGTGCTCATGACCAAGGCAGCCCTCCTCGAAGTGCCAGCCTCCAGCTGCTGGTGACAGGTGCT
TCCCTCAGCTCGCTTGGCCGAGCCGCCCCAGATCTCGCAGAGCGGGACCCAGCGGCACCACTGCTGCTGCTGCT
GACGGTGACAGCAGCTGAGGGACTGCGGCCCGGCTCTCTGTTGGGCTCGGTGGCAGCGCCAGAGCCCGCGGGTGT
GGGTGCACTCACCTACACACTGGTGGGCGGTGCCGATCCCGAGGGCACCTTCGCGCTGGATGCGGCCTCAGGGCG
CTTGACCTGGCGCGGCCCTGGACTTCGAAGCTGGCCCGCGTGGCGCGCGCTACGGTACGCGCTGAGGGGCC
GGGAGGCGCGGGCGCGCGGCTGCTGCGAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCA
GCGCGACCCGCTGGCGCTGGCGCTGCCAGAGAACC CGGAGCCCGGCGCAGCGCTGTACACTTTCCGCGCGTCGGA
CGCCGACGGCCCCGGCCCCAATAGCGACGTGCGCTACCGCCTGCTGCGCCAGGAGCCGCCCCGTGCCGGCGCTTCG
CCTGGACGCGCGCACCGGGGCGCTCAGCGCTCCGCGCGGCTGGACCGAGAGACCACTCCCGCGCTGCTGCTGCT
GGTGGAAGCCACCGACCGGCCCGCCAACGCCAGCCCGCGTCTGTCAGCGCGCGTTTCAGCGCGCGTCTTCGTAC
GGATGAGAATGACAACGCGCCTGTCTTCGCTCGCGTACGCGTGCAGCTCCAGAGGACCAGCCGCTGGGCC
CGCGGCCCTGCAGTGCTAGCCCGGGACCCGGATCTGGGCGAGGCTGCACGCGTGTCTATCGGCTGGCATCTGG
CGGGGACGGCCACTTCCGGCTGCACTCAAGCACTGGAGCGCTGTCCGTGGTGCGGCCGTTGGACCGGAACAACG
AGCTGAGCACGTACTGACAGTGGTGGCCTCAGACCACGGCTCCCCGCGCGCTCGGCCACGCAGGTCTTGACCGT
CAGTGTCGCTGACGTCAACGACGAGGCGCCTACTTCCAGCAGCAGGAGTACAGCGTCTCTTGCGTGAGAACAA
CCCTCCTGGCACATCTCTGCTCACCTGCGAGCAACCGACCCGACGTGGGGGCCAACGGGCAAGTGACTTATGG
AGGCGTCTCTAGCGAAAGCTTTTCTCTGGATCCTGACACTGGTGTCTCACGACTCTTCGGGGCCCTGGATCGAGA
GGAACAGGAGGAGATCAACCTGACAGTGTATGCCCAGGACAGGGGCTCACCTCCTCAGTTAACGCATGTCACTGT
TCGAGTGGCTGTGGAGGATGAGAATGACCATGCACCAACCTTTGGGAGTGCCATCTCTCTTGAGAGTGCCTGA
GGGCCAGGACCCCAAGACCTTACCATGCTTCGGGCTCTGATCCAGATGTGGGAGCCAATGGGCAGTTGCAGTA
CCGCATCCTAGATGGGGACCCATCAGGAGCCTTTGTCTAGACCTTGCTTCTGGAGAGTTTGGACCATGCGGCC
ACTAGACAGAGAAGTGGAGCCAGCTTTCCAGCTGAGGATAGAGGCCCGGATGGAGGCCAGCCAGCTCTCAGTGC
CACGCTGCTTTTGACAGTGACAGTGCTGGATGCCAATGACCATGCTCCAGCCTTTCTGTGCTGCTGCTACTCGGT
GGAGGTGCCGGAGGATGTGCTGCGAGGACCTGCTGCTGCGAGTACAGGCTCATGACCTGATGCTGGAGCTAA
TGGCCATGTGACCTACTACCTGGGCGCCGGTACAGCAGGAGCCTTCTGCTGGAGCCCAGCTCTGGAGAACTGCG
CACAGCTGCAGCCTTGAGACAGAGAACAGTGTCCAGCTACACCTTTCTGTGAGTGCAAGTGGATGGTGCAGCTGC
TGGGCCCCTAAGCACCACAGTGTCTGTACCATCACGGTGCAGGATGTCAATGACCATGCACCCACCTTCCCCAC
CAGTCTCTGCGCCTACGTCTGCCCCGCCCAGGCCCCAGCTTACGTACCCCAACCCTGGCTCTGGCCACACTGAG
AGCTGAAGATCGTGATGCTGGTGCCAATGCTTCCATTCTGTACCGGCTGGCAGGCACACCACCTCCTGGCACTAC
TGTGGACTCTTACACTGGTGAAATCCGCGTGGCCCGCTCTCCTGTAGCTCTAGGCCCCGAGATCGTGTCTCTT
CATTGTGGCCACTGATCTTGGCCGTCCAGCTCGCTCTGCCACTGGTGTGATCATTGTTGGACTGCAGGGGGAAGC
TGAGCGTGGAACCCGCTTTCCCCGGGCTAGCAGTGAGGCTACGATTCTGTGAGAATGCGCCCCAGGGACTCCTAT
TGTCTCCCCACGGCCGTCCATGCAGGAGGCACAAATGGACCCATCACCTACAGCATTCTCAGTGGGAATGAGAA
AGGGACATTCTCCATCCAGCCTAGTACAGGTGCCATCACAGTTCGCTCAGCAGAGGGGCTAGACTTCGAGGTGAG
TCCACGGCTGCGACTGGTGTGTCAGGCAGAGAGTGGAGGAGCCTTTGCCTTCACTGTGCTGACCTGACCTGCA
AGATGCCAACGACAATGCTCCCCGTTTCTGCGGCCCAATTATGTGGCCTTCTTCTGAGTCCCGGCCCTTGGA
GGGGCCCCCTGCTGCAGGTGGAGGCGGATGACCTGGATCAAGGCTCTGGAGGACAGATTTCTACAGTCTGGCTGC
ATCCAGCCGGCACGTGGATTGTTCCACGTAGACCCAAACCACAGGCACTATCACTACCACAGCCATCCTGGACCG
TGAGATCTGGGCTGAAACACGGTTGGTGTGATGGCCACAGACAGAGGGAGCCAGCCCTGGTGGGCTCAGCTAC
CTTGACGGTGATGGTCACTGACACCAATGACAATCGCCCCACCATCCCCAACCTGGGAGCTCCGAGTGTGAGA

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FIGURE 3153C

AGATGCGTTATTGGGCTCAGAGATTGCACAGGTAACAGGGAATGATGTGGACTCAGGACCCGTGCTGTGGTATGT
GCTAAGCCCATCTGGGCCCCAGGATCCCTTCAGTGTGGCCGCTATGGAGGCGTGTCTCCCTCACGGGGCCCCCT
GGACTTTGAGCAGTGTGACCGCTACCAGCTGCAGCTGCTGGCACATGATGGGCCTCATGAGGGCTGTGCCAACCT
CACAGTGCTTGTGGAGGATGTCAATGACAATGCACCTGCCTTCTCACAGAGCCTCTACCAGGTAATGCTGCTTGA
GCAACACACCCCCAGGCAGTGCCATTCTCTCCGTCTCTGCCACTGATCGGGACTCAGGTGCCAACGGTCACATTTTC
CTACCACCTGGCTTCCCCCTGCCGATGGCTTCAGTGTGACCCCAACAATGGGACCCTGTTACAATAGTGGGAAC
AGTGGCCTTGGGCCATGACGGGTACGGAGCAGTGGATGTGGTGTGGAAGCACGAGACCACGGGGCTCCAGGCCG
GGCAGCACGAGCCACAGTGCACGTGCAGCTGCAGGACCAGAACGACCACGCCCCGAGCTTCACATTGTCACACTA
CCGTGTGGCTGTGACTGAAGACCTGCCCCCTGGCTCCACTCTGCTCACCCTGGAGGCTACAGATGCTGATGGAAG
CCGCAGCCATGCCGCTGTGGACTACAGCATCATCAGTGGCAACTGGGGCCGAGTCTTCCAGCTGGAACCCAGGCT
GGCTGAGGCTGGGGAGAGTGTGGACCAGGCCCCCCGGGCCTGGGCTGCCTGGTGTGCTTGAACCTCTAGACTT
TGAAAGCCTGACACAGTACAATCTAACAGTGGCTGCAGCTGACCGTGGGCAGCCACCCCAAGCTCAGTCGTGCC
AGTCACTGTCACTGTACTAGATGTCAATGACAACCCACCTGTCTTTACCCGAGCATCCTACCGTGTGACAGTACC
TGAAGACACACCTGTTGGAGCTGAGCTGCTGCATGTAGAGGCCTCTGACGCTGACCCTGGCCCTCATGGCCTCGT
GCGTTTCACTGTCACTCAGCTCAGGCGACCCATCAGGGCTCTTTGAGCTGGATGAGAGCTCAGGCACCTTGCAGCTGGC
CCATGCCCTGGACTGTGAGACCCAGGCTCGACATCAGCTTGTAGTACAGGCTGCTGACCCTGCTGGTGCACACTT
TGCTTTGGCACCAGTGACAATTGAGGTCCAGGATGTGAATGATCATGGCCAGCCTTCCCACTGAACCTACTCAG
CACCAGCGTGGCCGAGAATCAGCCTCCAGGCACTCTCGTGACCACTCTGCATGCAATCGACGGGGATGCTGGGGC
TTTTGGGAGGCTCCGTTACAGCCTGTTGGAGGCTGGGCCAGGACCTGAGGGCCGTGAGGCATTTGCACTGAACAG
CTCAACAGGGGAGTTGCGTGCAGGAGTGCCCTTTGACTATGAGCACACAGAAAGCTTCCGGCTGCTGGTGGGTGC
TGCTGATGCTGGGAATCTCTCAGCCTCTGTCACTGTGTCGGTGTCTAGTACTGGAGAGGATGAGTATGACCTGT
ATTTCTGGCACCAGCTTTTCACTTCCAAGTGCCGAAGGTGCCGGCGTGGCCACAGCTTGGGTCACTGCAGGC
CACAGATGAGGATGGGGGTGCCGATGGCCTGGTTCTGTATTCCCTTGCCACCTCTTCCCCCTATTTTGGTATTAA
CCAGACTACAGGAGCCCTGTACCTGCGGGTGACAGTCGGGCACCAGGCAGCGGAACAGCCACCTCTGGGGGTGG
GGGCCGACCCGGCGGGAAGCACACGGGAGCTGAGGCTGGAGGTGATAGCACGGGGGCTCTGCCTGGTTCCCG
GAGTGCCACAGTGCCCTGTGACCGTGGATATCACCCACACCGCACTGGGCCTGGCACCTGACCTCAACCTGCTATT
AGTAGGGGCGCTGGCAGCCTCCTTGGGAGTTGTGGTGGTGTGCTGCACTGGCAGCCCTGGTCTTAGGACTTGTTCG
GGCCCGTAGCCGCAAGGCTGAGGCAGCCCCCTGGCCCAATGTACAGGCAGCACCCCTAGCCAGTGACTCACTGCA
GAACTGGGCCGGGAGCCACCTAGTCCACCACCCTCTGAGCACCTCTATCACCAGACTCTTCCCAGCTATGGTGG
GCCAGGAGCTGGAGGACCCTACCCCCGTGGTGGCTCCTTGGACCCTTCACATTCAAGTGGCCGAGGATCAGCAGA
GGCTGCAGAGGATGATGAGATCCGCATGATCAATGAGTTCCCCCGTGTGGCCAGTGTGGCCTCCTCTCTGGCTGC
CCGTGGCCCTGACTCAGGCATCCAGCAGGATGCAGATGGTCTGAGTGACACATCCTGCGAACCACCTGCCCTGA
CACCTGGTATAAGGGCCGAAAGGCAGGGCTGCTGCTGCCAGGTGCAGGAGCCACTCTCTACAGAGAGGAGGGGCC
CCCAGCCACTGCCACAGCCTTCTTGGGGGGCTGTGGCCTGAGCCCTGCACCCACTGGGGACTATGGCTTCCCAGC
AGATGGCAAGCCATGTGTGGCAGGTGCGCTGACAGCCATTGTGGCCGGCGAGGAGGAGCTCCGTGGCAGCTATAA
CTGGGACTACCTGCTGAGCTGGTGGCCTCAGTTCCAACCACTGGCCAGTGTCTTACAGAGATCGCTCGGCTCAA
GGATGAAGCTCGGCCATGTCCCCCAGCTCCCCGTATCGACCCACCACCCCTCATCACTGCCGTGGCCCACCCAGG
AGCCAAGTCTGTGCCCCCAAGCCAGCAAAACACAGCTGCAGCCCGGGCCATCTTCCCACCAGCTTCTCACCGCTC
CCCCATCAGCCATGAAGGCTCCCTGTCTCAGCTGCCATGTCCCCCAGCTTCTCACCCTCTCTGTCTCCTCTGGC
TGCTCGCTCACCCGTTGTCTCACCATTGTTGGGGTGGCCAGGGTCCCTCAGCCTCAGCACTCAGCGCAGAGTCTGG
CCTGGAGCCACCTGATGACACGGAGCTGCACATCTAGCTGTGGCCAGGCTGGGCCCCGACCTGGGATGCGCACA
GTGTCCCCAACGCAGGCCCCACTCTGAGCCTGCCCTGGGCAGCCTCGGACTATGACTGGCTACGGGGAGGCCACC
ACCAGGCCCCAGCTCTCCACCCTGAACTCCCCAGCCCCCTCAGAGTACTAGGACCACAGAAGCCCTGTTGCTCAC
TGACCTGTGACCAGGTCCAATGTGGGGAGAAATATGAAGGAGGTAGCAGCCCTGGGTTCTCCTCAGTGAGGGATC
CCTGCCCTGCACCAGCACCTGAGATGGAGCTGAGACTTTATTTATTGGGGGTAGGGGGATGGAGGAGGTCCCTC
CAACATGTTTGGACCCAGCTCCTTTGGGTTTCACTGACACCCCTGCCCTGCCCTGCCGAGAACCAAGTGCCAT
TTCTCACTCTGGAGCCTTAATAAACTGCAATTTGT

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FIGURE 3154

MKAPCPQLPCPPASHPLCLLWLLAHPLSHHLGWPRVPQPQHSASLAWSHLMTR SCTSSCGPGWAPTWDAHSVPN
AGPTLSLPWAASDYDWLRGGHHQAPALHPELPSPLRVLGPKPCCSLTCDQVQCGEKYEGGSSPGFSSVRDPCPA
PAP

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FIGURE 3155

CTTTTTCGTCTGGGCTGCCAACATGCCATCCAGACTGAGGAAGACCCGGAAACTTAGGGGGCCACGTGAGCCACGG
CCACGGCCGCATAGGCAAGCACCGGAAGCACCCCGCGCGCCGCGGTAATGCTGGTGGTCTGCATCACCACCGGAT
CAACTTCGACAAATAACCACCCAGGCTACTTTGGGAAAGTTGGTATGAAGCATTACCACTTAAAGAGGAACCAGAG
CTTCTGCCCAACTGTCAACCTTGACAAATTGTGGACTTTGGTCAGTGAACAGACACGGGTGAATGCTGCTAAAAA
CAAGACTGGGGCTGCTCCCATCATTGATGTGGTGCGATCGGGCTACTACAAAGTTCTGGGAAAGGGAAAGCTCCC
AAAGCAGCCTGTCATCGTGAAGGCCAAATTCTTCAGCAGAAGAGCTGAGGAGAAGATTAAGAGTGTTGGGGGGGC
CTGTGTCCTGGTGGCTTGAAAGCCACATGGAGGGAGTTTCATTAAATGCTAACTACTTTTAAAAA

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FIGURE 3156

MPSRLRKTRKLRGHVSHGHGRIGKHKHPGGRGNAGGLHHHRINFDKYHPGYFGKVGMMKHYHLKRNQSFCTVNL
DKLWTLVSEQTRVNAAKNKTGAAP IIDVVRSGYYKVLGKGKLPKQPVIVKAKFFSRRAEEKIKSVGGACVLVA

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FIGURE 3157A

AAGGCATCCAGGATGCGGTGCGGGGCGGGCCCGGTGCCCCCGCCCCGTCACGGCAGCCGCGGCGGGCCGAGGGGA
CCGGGCCAGGGCCGGGGGCGGCGGCCCCGAGCCGCGGTAGCGGCGGCGGCGGGAGGGGCGGCCTGAGGGCGGACGG
GCGGGCGCCCCGGTTGCGGGGGCTCGGTGCCGCTCCGCACTGCCCGGCCGGTCTCGGCCCCGGCGCCATGAGTGG
CGGCGGCGGCGGAGGGGGCTCGGCGCCCAGTCGCTTCGCCGACTACTTTGTTCATCTGCGGACTGGACACGGAGAC
CGGGCTGGAGCCGGACGAGCTGTCGGCATTATGCCAGTACATACAGGCTTCTAAAGCCAGGGATGGTGCCAGCCC
TTTCATTTCAAGTACGACTGAAGGAGAAAATTTTGAGCAGACACCATTGAGAAGAACATTCAAATCTAAGGTCTT
TGCACGATATCCTGAGAACGTAGAATGGAATCCCTTTGACCAAGATGCAGTAGGAATGCTATGTATGCCGAAAGG
GCTGGCATTCAAGACCCAGGCTGATCCCAGGGAGCCCCAATTCCATGCCTTTATTATCACAAGGGAGGATGGCTC
TCGGACATTTGGGTTTGCCCTCACATTTTATGAAGAGGTGACTAGCAAGCAGATCTGCAGTGAATGCAGACCCT
CTACCACATGCACAATGCTGAGTATGATGTCTTACATGCTCCCCCTGCTGATGACAGAGACCAGAGCAGCATGGA
GGATGGTGAAGACACTCCTGTGACCAAACTGCAGCGCTTCAACTCCTATGACATTAGCCGGGACACTCTCTACGT
CTCTAAGTGCATCTGCCTCATCACACCCATGTCTTTTCATGAAGGCATGTGCGAGCGTGCTGGAGCAACTCCACCA
GGCAGTCACCTTACCTCAGCCCCCTCCACTGCCCCCTTGAGAGCTACATATAACAACGTACTCTACGAGGTGCCGCT
CCCACCTCCTGGCCGGTCTTTGAAGTTTTCTGGGGTCTATGGGCCAATAATCTGCCAGAGACCAAGTACCAATGA
GCTTCCCCCTATTTGACTTTTCTGTCAAAGAGGTTTTTGAAGTGTGCGGGGTGGAGAATGTGTTTCAGCTTTTTAC
TTGTGCCCTTCTGGAGTTTCAAATCCTGCTCTACTCACAGCATTACCAGAGACTGATGACTGTGGCGGAGACGAT
TACAGCTCTCATGTTTCTTTCCAGTGGCAGCATGTCTATGTCCCTATTCTCCAGCTTCTCTCCTGCATTTCTT
AGATGCTCCTGTTCCATACCTGATGGGTTTGCATTCCAATGGCCTGGATGACCGGTCAAAGCTGGAGCTGCCTCA
AGAGGCTAACCTCTGCTTTGTGGACATTGACAACCACTTCATTGAGTTGCCAGAGGACTTGCCACAGTTCCCCAA
CAAATTGGAGTTTGTCCAGGAAGTCTCTGAGATTCTCATGGCATTTTGGAATCCCCCTGAAGGGAATCTTCATTG
CAGTGAGAGTGCCTCCAAGCTGAAGAGGCTGCGGGCCTCTGAGCTTGTCTCGGACAAGAGGAATGGGAACATTGC
TGGCTCCCCCTTTGCATTCTTACGAGCTTCTTAAGGAGAATGAAACTATTGCCCGGCTGCAAGCCTTGGTCAAGAG
AACTGGGGTGAGCCTGGAAAAGTTGGAAGTGCCTGAAGACCCAGCAGCAATAAGGATCTCAAAGTTTCAGTGTGA
TGAAGAAGAACTCAGGATTTACCAGCTAAACATTAGATCCGGGAAGTTTTTGCAAATCGTTTCACTCAGATGTT
TGCAGATTATGAGGTGTTTGTTCATCCAACCCAGCCAGGATAAGGAATCCTGGTTTACCAACAGGGAGCAAATGCA
AACTTTGATAAAGCATCTTTTCTGTGATCAGCCTGAGCCCTACCTGCCCTTCTCTCAAGATTCTTGAGAGAC
CCAGATGTTTGCATCTTTTCATTGACAACAAAATAATGTGTGATGATGATGATAAAGACCCTGTACTCCGGGT
ATTTGATTCCCGAGTTGACAAGATCAGGCTGTTGAATGTTGCGACACCTACTCTCCGTACATCCATGTACCAGAA
GTGTACCACTGTGGATGAAGCAGAGAAAGCAATTGAGCTGCGTCTGGCAAAAATTGACCATACTGCAATTACCCC
ACATTTACTTGACATGAAGATTGGACAAGGGAATATGAGCCGGGCTTCTTCCCTAAGCTGCAGTCTGATGTACT
TTCCACTGGGCCAGCCAGCAACAAGTGGACGAAAAGGAATGCCCCTGCCAGTGAGGCGGAAAGATCGGCAGAA
GCAGCACACAGAACACCTGCGTTTAGATAATGACCAGAGGGAGAAGTACATCCAGGAAGCCAGGACTATGGGCAG
CACTATCCGCCAGCCCCAACTGTCCAACCTCTCTCCATCAGTGATTGCCAGACCAATTGGAAGTTTGTAGAGGG
CCTGCTGAAGGAATGCCGCAATAAGACCAAGAGGATGCTGGTGGAAAAGATGGGCCGAGAAGCTGTGGAGCTAGG
GCATGGGGAGGTGAACATCACAGGGGTGGAAGAGAACACCCTGATTGCCAGCCTTTGTGATCTCCTGGAAAGGAT
CTGGAGTCATGGACTACAAGTGAACAGGGGAAATCAGCCTTATGGTCCCACCTGTTACATTATCAGGACAACCG
GCAGAGAAAACCTCACATCAGGAAGCCTCAGTACCTCAGGAATACTTCTTGATTGAGAACGTAGGAAGTCTGATGC
CAGCTCACTCATGCCTCCCCTGAGGATCTCCCTGATTTCAGGATATGAGGCACATCCAGAACATCGGGGAGATCAA
GACTGATGTGGGATTAGGCAGAGCATGGGTGCGACATGTTCATGGAAAAAGTTACTTTTCAGACACCTGAGCAGCTC
TCTCAGACATGAGCTCACAAAAAGTTATATAAGCGCTATGCCTTCTGCGTGTGATGACGAGAAGGAGCAGTTC
CTCTATCACCTCCTGTCTTTCAATGCCGTCGATTACTTTTGCTTCACCAATGTCTTCACAACTATCCTGATCCCC
TACCACATTCTGATCGTACCAAGCAAGAAGCTGGGGGGCTCCATGTTCACTGCCAACCCATGGATCTGTATATCA
GGAGAATTGGGTGAGACACAGATCATGCAGATTCCCAGGAATGTGCTAGAGATGACCTTCGAGTGCCAGAACTTG
GGGAAGCTTACTACTGTCCAGATTGGCCATGATAACTCTGGGCTGTAATGCAAATGGCTGGTGGAGTATGTGATG
GTCAGGAATGAGATCACAGGACATACCTACAAGTTCCCGTGTGGCCGGTGGTTAGGGAAGGGCATGGATGATGGA
AGCCTGGAGCGGATCCTAGTTGGGGAGCTGCTCACATCCAGCCTGAGGTGGATGAGAGGCCATGCCGGACCCCCG
CCGCTGCAGCAGTCCCCAGTGTCTCCGGAGGCTTGTACCATCTCACCAACAACAAGCCCAAGCTGAACACT
GGGCAGATCCAGGAGTCCATCGGGGAGGCAGTCAATGGCATTGTGAAGCACTTCCATAAGCCTGAGAAAGAGCGA

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FIGURE 3157B

GGCAGTCTGACGCTGTTGCTCTGTGGAGAGTGTGGCCTTGTCTCGGCCTTGGAACAGGCTTTCCAGCATGGATTT
AAATCGCCCCGGCTCTTCAAAAATGTCTTCATTTGGGATTTCTTGAAAAAGCACAAACCTATTATGAGACATTA
GAGAAGAATGAAGTAGTCCCTGAGGAAAACCTGGCATAACAAGAGCCCGGAACCTTCTGCCGATTTGTCACTGCAATC
AACAACTACTCCCCGGAACATCGGCAAGGATGGCAAGTTTCAGATGCTGGTGTGCTTGGGAGCCAGAGATCACCTC
CTACACCACTGGATTGCCCTGTCTGGCTGACTGCCCCATCACTGCACACATGTATGAGGATGTGGCACTGATCAAA
GACCATACTTGTCAATTCCTTGATTCGTGTGCTGCAGACATTGCAGGAGTTCAACATCACGCTGGAGACGTCC
CTTGTCAAGGGCATCGACATCTGACCTCCCAGCACCAGCCAGCAGCAGGACTGAGAAAGACTCACCTGCAGCTC
TGACCTTTTTTCCCAAAGGGACTTAAGCGATTGTGCAGGAGTAGGAGACAAAATGTACACTCACTGTAAAAAGAA
AACTAGAGGATTTTTTGAATAAAATAATCTATTTTAGAGTTTATTTGCTGATTTGCTTTTTACACACTTTCATGTG
AAAGAGTGATAGGGAGAGGGAGCGAGGCTGGTGCCGCTTATTTTGAAGCTGGTGCCCTCCCTCGCCGTGGCCACA
TGCTGGAACCTGAGGCCTCCCTGGACTGAGCCTGTGCACTGCGTGCGGGACAGTTATGTTTCCTTGCCCCGTGCG
ATTAATGAGGCCCTTCCACATCATTTTTAACTAATGTTTTTCTATATTAACATTATTATGGATATTTGGCTTTC
ATAGGCCACACACAGGTGTGCTGCGCGGGAAGCCCCATGCTCCAATCAAAGGGATTTTTAGTAGTGCCTCTAAGC
AAGCACCGATGAGTCAGTCCACGTATTTTCTTTTTTGTGAGTATTGTTTGGGAAGGAGACATGCCGGGATGTGT
CATCGTGCCAAATACCACATTTCTGTTGGCACAGTTTCACAGAAGTAAACATAAGCATGTTTTAACAGGTTTTT
CTTTTCTTTTTTCTTTTTTAAAATGTTTTATTTATTTAACCCGCCATTGTGTGTTTTTAAGTATTTTCTTTTTT
AAGGAAAGGAAAAGCTTGTCACAATCTAACTGGCTATGTTATTATTATTAAATTTATGTTTTGCAACTTAGAAAC
CAGCTACAGTATGGCCCACTTAATAAAACACCTGAAAC

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FIGURE 3158

MSGGGGGGSAPSRFADYFVICGLDTETGLEPDELSALCQYIQASKARDGASPFISSTTEGENFEQTPLRRTFKS
KVLARYPENVEWNPFDQDAVGMLCMPKGLAFKIQADPREPQFHAFIITREDGSRTFGFALTFFYEVTSKQICSAM
QTLYHMHNAEYDVLHAPPADDRDQSSMEDGEDTPVTKLQRFNSYDISRDTLYVSKCICLITPMSFMKACRSVLEQ
LHQAVTSPQPPPLPLESYIYNVLYEVPLPPPGRSLKFSGVYGPICQRPSTNELPLFDFPVKEVFELLGVENVFQ
LFTCALLEFQILLYSQHYQRLMTVAETITALMFFQWQHVVYPILPASLLHFLDAPVPYLMGLHSNGLDDRSKLE
LPQEANLCFVDIDNHFIELPEDLPQFPNKLEFVQEVSEILMAFGIPPEGNLHCSESASKLKRLRASELVSDKRNG
NIAGSPLHSYELLKENETIARLQALVKRTGVSLEKLEVREDPSSNKDLKVQCDEEELRIYQLNIQIREVFANRFT
QMFADYEVFVIQPSQDKESWFTNREQMQNFDKASFLSDQPEPYLPFLSRFLETQMFASFIDNKIMCHDDDDKDPV
LRVFDSRVDKIRLLNVRTPTLRTSMYQKCTTVDEAEKAIELRLAKIDHTAIHPHLLDMKIGQGKYEPGFFPKLQS
DVLSTGPASNKWKTRNAPAQWRRKDRQKQHTEHLRLDNDQREKYIQEARTMGSTIRQPKLSNLSPSVIAQTNWKF
VEGLLKECRNKTKRMLVEKMGREAVELGHGEVNITGVEENTLIASLCDLLERIWSHGLQVKQGSALWSHLLHYQ
DNRQRKLTSGSLSTSGILLDSERRKSDASSLMPPLRISLIQDMRHQNIQEIKTDVG

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FIGURE 3159

CGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAG
GCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACATATATGCGAATCTATAAGAAAGCTGATATTGTAGACAT
CAAGGGAATGGGTACTGCTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAATGT
TACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAAGGTGCG
TATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACACGTGAAGGAAAATGATCAGAAAAAGAA
AGACGCCAAAGAGAAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTGAG
AACCAACGGGAAGCAGCCTGAGCTGCTGGAACCTATTTCTATGAATTCATGGCATAATAGGTGTTAAAAA
AATAAAGGACCTCTGGGCTGTAAAAAAAAAAAAAAAAAATTAAAAAAGAAAAAAAAAAAAAAAAAGAAAAGAAAAA
AA

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FIGURE 3160

MTNTKGKRRGTRYMFSRPF RKHG VVPLATYMRIYKKADIVDIKGMGTAQKGMPHKCYHGKTGRVYNVTQHAVGIV
V NKQVKGKILAKRIKVR IEHIKHSKSRDSFLKHVKENDQKKKDAKEKGTWVQLKRQFAPPREAHFVRTNGKQPEL
LEPISYEFMA

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FIGURE 3161A

GCGGAGGTTGAGGGGCGTCCGAGGCGCGGAGGGGCTGGCTGGGCAGGAGGGGTTGGCGGGGCAGCAGGGCCGCGG
CCATGGGGAGCTTGAAGGAGGAGCTGCTCAAAGCCATCTGGCACGCCTTCACCGCACTCGACCAGGACCACAGCG
GCAAGGTCTCCAAGTCCCAGCTCAAGGTCCTTTCCCATAACTGTGCACGGTGCTGAAGGTTCTCTATGACCCAG
TTGCCCTTGAAGAGCACTTCAGGGATGATGATGAGGGTCCAGTGTCCAACCAGGGCTACATGCCTTATTTAAACA
GGTTCATTTTGGAAAAGGTCCAAGACAACCTTTGACAAGATTGAATTCAATAGGATGTGTTGGACCCTCTGTGTCA
AAAAAACCTCACAAGAATCCCCGCTCATTACAGAAGAAGATGCATTTAAAATATGGGTTATTTTCAACTTTT
TATCTGAGGACAAGTATCCATTAATTATTGTGTGAGAAGAGATTGAATACCTGCTTAAGAAGCTTACAGAAGCTA
TGGGAGGAGGTTGGCAGCAAGAACAATTTGAACATTATAAAATCAACTTTGATGACAGTAAAAATGGCCTTTCTG
CATGGGAACCTTATTGAGCTTATTGGAAATGGACAGTTTAGCAAAGGCATGGACCGGCAGACTGTGTCTATGGCAA
TTAATGAAGTCTTTAATGAACCTTATATTAGATGTGTTAAAGCAGGGTTACATGATGAAAAAGGGCCACAGACGGA
AAAACCTGGACTGAAAGATGGTTTGTACTAAAACCCAACATAATTTCTTACTATGTGAGTGAGGATCTGAAGGATA
AGAAAGGAGACATTCTCTTGGATGAAAATTGCTGTGTAGAGTCCTTGCTGACAAAGATGGAAAGAAATGCCTTT
TTCTCGTAAAATGTTTTGATAAGACTTTTGAAATCAGTGCTTCAGATAAGAAGAAGAAACAGGAGTGGATTCAAG
CCATTCACTTACTATTTCATCTGTTGAAGCTGGGCAGCCCTCCACCACACAAAGAAGCCCGCCAGCGTCGGAAAG
AACTCCGGAAGAAGCAGCTGGCTGAACAAGAGGAACCTGGAGCGACAAATGAAGGAACTCCAGGCCGCCAACGAAA
GCAAGCAGCAGGAGCTGGAGGCCGTGCGGAAGAACTGGAGGAAGCAGCATCTCGTGCAGCAGAAGAGGAAAAGA
AACGCCTTCAGACTCAAGTGGAACCTCAGGCCAGGTTTCAGCACAGAGCTGGAAAGAGAGAAGCTTATCAGACAGC
AGATGGAAGAACAGGTTGCTCAAAAGTCCTCTGAACTGGAACAGTATTTACAGCGAGTACGGGAGCTGGAAGACA
TGTACCTAAAGCTGCAGGAGGCTCTTGAAGATGAGAGACAGGCCCGCAAGATGAAGAGACAGTGCGGAAGCTTC
AGGCCAGGTTGTTGGAGGAAGAGTCTTCCAAGAGGGCTGAACTAGAAAAGTGGCACTTGGAGCAGCAGCAGGCCA
TTCAGACAACCGAGGCGGAGAAGCAGGAGTTGGAGAATCAGCGTGTCTGAAGGAACAGGCCCTGCAGGAGGCCA
TGGAGCAGCTGGAGCAGCTTGAGTTAGAACGGAAGCAAGCACTTGAGCAGTACGAGGAAGTTAAAAAGAAGCTGG
AGATGGCAACTAATAAGACCAAGAGCTGGAAGGACAAAGTGGCCCATCATGAAGGATTAATTCGACTGATAGAAC
CAGGTTCAAAGAACCCTCACCTGATCACTAAGTGGGGACCTGCAGCTTTCAGTGGGAGGAGCTTGAAGAGAGAG
AGAAGAAGTGGAAAGAGAAAAAGACCACGGAGTGACTGAGCTTGCTGGCAGTCACGTCAGTTATGTAGATACTGC
ATGGCAGGAGAGCTTTACGCTAAAGACAAAAGAAACAGCTTTGGGGGCGGGCGTGGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCAAGAGCAGCCTGGCCAACCTGGTG
AACCCTGTCTCTACTAAAAATACAAAAAAATTAGCTGAGCGTGCTGGCGGGCGCCTGTAATCCAGCTACTTGG
GAGGCTGAGGCAGGAGAATCACTTGAACGTGGGAGGCGGAGGTTGCAGCGAGCTGAGATCATGCCGTTGTACTCC
AGCTTGGGCAACAGAGTGAGACTCCATCTCAAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAACAAAAC
CTTTTAACTCTTCTTCTTCTGTGCCTCTCTAAGTGGGTGAGTATCCTAAGGAAGCCTTCTTATTTATCTTCTCTG
CAAACAAGGGTTACCTGAAAAGAAAAAAAAGTCAACATTGTCAAGCTGTTTGTCTTACTCTTTCTTTGAAAACAT
CACCTTCTGAAATTTGTCTTTTAGCTCTCTCAGATTCTTCCCCAAATGAGGCAGGCTGCAGACAGCACAGTCAGC
TCTGCAGAGTTTGGAGGGGCTCACTGCCACTGGGTACTCAGAACCTCTGTGGACTGGATGTCAGCTCTTTCCCTT
GGCAGCGTGTTTCTTTTCCGAGTATGTGCTGTTAACTAGATTGGCCGGTTCGCTTTCATTCTCTGACACTTG
ACATGGAATGCCTTTGACCATTTGGTGCTCTGACAGAGAAGTCATGGAGTCATTGCCATTTCTGGTTGCCCTTTT
GGAATGTGATCCTGTGTAGTAGAGTTTTCTAGCTTCTACTAAGATATTTCTTTCCCTAACCATCATACACTTGGC
ATGTTTCATTCCCATCTCCTTTCCCCTCACCTTAAAGGAGACTACCCCTTTGCCCCATATTGTCAACCTAATTTT
CTCTCGTACTCTCTCTAGTGAATGATGTGCTACCAAGTATATGCCAGGCTGTGAGAGGATTATACTGAGTAGTAG
AAAGAAGCTAATTTGAAATAAAAATTATTTGTATAATTAAGAAAGCAGATTAGATGCACATGGTCAACAGGAAGT
TGACTGTATGTCTGCTAGTTAGATTCAAAACATCATAAAGATGATAGCATGTCAATATATTAGCCTAGCCATTAT
GTTAGCCTTTGTTAGGTGGGCAGCTTTTCTGCTTTTTTCCCTTCTCTGTGGTGACAACGGAGGAAATATCCAACA
GAAATACGTCTAACAGGGAAATTGGGATCATAGTTTATATGCATCTGATTTGAAAGGAGTATTGAGGAAGGTTTT
CATATATGATCTATCTTTGGATTAAAAAGAACATTTATGAAATCAAGCCTTCTAACACTAGTTATAATTGAGAAG
CAACAGTAACTCCGTGGACAGCAATCAAGCTTAAATTTGTAAATAAATATGGGGATAATTCAGTTGTTGCAAAAA
AAGGGCAGAATTCAGTAGAATAAAGTCCTTTTCTCTTACAGGTATTAATGAGGACAGAGAACCTCAGGTGTTCT
TATGCTAGTGCTTGCTGAGTGCATACTAAGAAAGCAATTCCAAATAGATGTATACATCTAGAGAGAGTGGTATTA
GAGATTCAGTGTATGTATTTATTTACATGAGAGGAACTGGAATATAATCCATAAATTATCACCTTTTATGACT

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FIGURE 3161B

GGAAAATATTTGCCAATGAAGAAATGGTCTGTAGGTATTTGTCTTAAGATTTTTGGCTGTTTAATAAAAATGTAA
CTTTAACGGTTTTCTTATAGTTGCCTTTATAAAGTGTATTGTCTAAAATATTTTTGTATCATGTGCCTTTGAAATT
TGACAGCTGATTTGGGTGTTGGATTTCTGCCCAGCCATTTATCAGTATTATCATTTTTATTTCAGTAGCTGGCAGGT
GTATTAGACCAACGAGACTTAGGTAAGGAATGGAACCTTTCCTGTGGTTTGACTGCACATTACACCAGAAGACTC
CAGTATCCCTCATTCCAGAATGAGGAAAAAGTATTCTACAAAGAACCTAATCACCTCTGTGAAATCTATGGGATG
GAAACAGTGTGGCCTTAGGAGTCAAATAGTCTCTGCATGGTGGGGAGGATCATGATGGAATATGTGAATTTCTAC
TTCTAGAAGTTGTGAAATAGGTCTGCACTTTTGCAGAATGTCCTTCTTTAAACCTGGCTTATTCACAGCTGTA
GCTGATAACATGACCTGGGGCTTAGCTGCTCTAGCCCTGGGTTCTTGGAGACCTCACACTGCCTGGCCCTGGCC
ATCCACCTAAGGACTGCCTGCTTTCTGGTCACATGTGGACCTTGATACGACTAAGCGGTTACATATGTGGTTGTG
CAAAAGCTTTCTGTTTTAATGCATAGTGTTACCGATTTACATCTTGGTTTTTCAGTGGCACTATGTCTAGGAGGCAA
TATCCTTTTAAACAGTGCTTTGGCTAAGATAGATACTTGTGAATCAAAGATAGCACAGAAATGAAC TAAGTATAT
CCCATTTGGAATTATATTTTGATACTATTTAAAATGGTTTCACCTGTTAAAGGGCCAACAGAACTCTTGGTTTTA
CTTTTGTAATTACTGTACAGAAAATTTCAAGAGTGTTTGAGTGCTTGTCATCAGGTGTTTTCTTAATAAGTAGG
GATATGATCATTTACAGGAATTATATATGAAAAAGTTTTTGAAATGTATTTTTTGIGATGTGCTATGTTGAGGGG
AAACCAAATATTTATGATTTTAAAACATTTCGTATGAAAACATTGTACAATGTAATATGCTCAACTTTCTCAATTT
TTTGCTAATTTTTCTAAGATACATTAAAAATGTTTTATATTTTTTTTTTAAGTAAAATGGACCCAGTAAGAAAATT
AAAAATACCAGAACATACACTTT

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FIGURE 3162

MGSLKEELLKAIWHAFTALDQDHSGKVSQSKVLSHNLCTVLKVPHPVALEEHFRDDDEGPVSNQGYMPYLN
FILEKVQDNFDKIEFNRMCTLCVKKNLTKNPLLITEEDAFKIWVIFNFLSEDKYPLIIVSEEIEYLLKKLTEAM
GGGWQQEQFEHYKINFDDSKNGLSAWELIELIGNGQFSKGMDRQTVSMINEVFNELILDVLKQGYMMKKGHRRK
NWTERWFVLKPNIISYYVSEDLKDKKGDILLDENCCEVSLPDKDGKKCLFLVKCFDKTFEISASDKKKKQEWIQA
IHSTIHLLKLGSPPHKEARQRRKELRKKQLAEQEELERQMKELOAANESKQQELEAVRKKLEEAASRAAEEEEK
RLQTQVELQARFSTELEREKLIRQQMEEQVAQKSSELEQYLQRVRELEDMYLLKLOEALEDERQARQDEETVRKLQ
ARLLEEESSKRAELEKWHLEQQQAIQTTEAEKQELNQRVLKEQALQEAMEQLEQLELERKQALEQYEEVKKKLE
MATNKTCSWKDKVAHHEGLIRLIEPGSKNPHLITNWGPAAFTAELEEREKNWKEKKKTE

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FIGURE 3163A

CAGCAGTGAGTCGGAGCTCTATGGAGGTGGCAGCGGGTACCGAGTGGCGGCTGCAGCAGCGACTCCTCTGAGCTG
AGTTTGAGGCCGTCCCCGACTCCTTCCTCCCCCTTCCCTCCCCCTTTTTTTTGTTCCTCCCTTTCCCTC
CCTTCCCTATCCCCGACGACCGGATCCTGAGGAGGCAGCTGCGGTGGCAGCTGCTGAGTTCTCGGTGAAGGTATT
TCATTTCTCCTGTCCCCTCCCCACCCCATCTATTAATATTATTCTTTTGAAGATTCTTCGTTGTCAAGCC
GCCAAAGTGGAGAGTGCAGATTGCAGAAGGGGTGCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGAGGAAGTAGG
GGTGCACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCTTGGGAAAACCCCAAGGGCAAAACGCTCAG
AAATGGATTCTGCACGAAGCACTAGACGAGATGACAACTCCGCAGCAAACAACCTCCGCAAACGAAAAAGAACGA
CATGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCCTGAAAAGTTTGACAAGCTATGCCTT
GAGCTCCTCAATGTGGGTGTAGAGTCTAAACTCATCCTTAAAGGGGTCTACTGCTGATTGTGGACAAAAGCCCTA
GAAGAGCCAAAGTATAGCTCACTGTATGCTCAGCTATGTCTGCGATTGGCAGAAGATGCACCAAACCTTTGATGGC
CCAGCAGCAGAGGGTCAACCAGGACAGAAGCAAAGCACCACATTGAGACGCCTCCTAATTTCCAAATTACAAGAT
GAATTTGAAAACCGAACTAGAAATGTTGATGTCTATGATAAGCGTGAAAATCCCCCTCCTCCCCGAGGAGGAGGAA
CAGAGAGCCATTGCTAAGATCAAGATGTTGGGAAACATCAAATTCATTGGAGAGCTTGGCAAGCTTGATCTTATT
CACGAATCTATCCTTCATAAGTGCATCAAAACACTTTTGGAAAAGAAGAAGAGAGTCCAACCTCAAAGATATGGGA
GAGGATTTGGAGTGCCTCTGTGAGATAATGAGGACAGTGGGACCTAGATTAGACCATGAACGAGCCAAAGTCCTTA
ATGGATCAGTACTTTGCCCGAATGTGCTCCTTGATGTTAAGTAAGGAATTGCCAGCAAGGATTCGTTTCTGCTG
CAGGATACCGTAGAGTTGCGAGAACACCATTGGGTTCCTCGCAAGGCTTTTCTTGACAATGGACCAAAGACGATC
AATCAAATTCGTCAAGATGCAGTAAAAGATCTAGGGGTGTTTATTCTGCTCCTATGGCTCAAGGGATGAGAAGT
GACTTCTTTCTGGAGGGACCGTTTCATGCCACCCAGGATGAAAATGGATAGGGACCCACTTGGAGGACTTGCTGAT
ATGTTTGGACAAATGCCAGGTAGCGGAATTGGTACTGGTCCAGGAGTTATCCAGGATAGATTTTACCCACCATG
GGACGTCATCGTTCAAATCAACTCTTCAATGGCCATGGGGGACACATCATGCCTCCCACACAATCGCAGTTTGGGA
GAGATGGGAGGCAAGTTTATGAAAAGCCAGGGGCTAAGCCAGCTCTACCATAACCAGAGTCAGGGACTCTTATCC
CAGCTGCAAGGACAGTCGAAGGATATGCCACCTCGGTTTTCTAAGAAAGGACAGCTTAATGCAGATGAGATTAGC
CTGAGGCCTGCTCAGTCGTTCTTAATGAATAAAAAATCAAGTGCCAAAGCTTCAGCCCCAGATAACTATGATTCCCT
CCTAGTGCAACAACCACCACGCACTCAAACACCACCTCTGGGACAGACACCTCAGCTTGGTCTCAAAAATAATCCA
CCACTTATCCAGGAAAAGCCTGCCAAGACCAGCAAAAAGCCACCACCGTCAAAGGAAGAACTCCTTAACTAACT
GAAACTGTTGTGACTGAATATCTAAATAGTGGAAATGCAAATGAGGCTGTCAATGGTGTAAGAGAAATGAGGGCT
CCTAAACACTTTCTTCTGAGATGTTAAGCAAAGTAATCATCCTGTCACTAGATAGAAGCGATGAAGATAAAGAA
AAAGCAAGTTCTTTGATCAGTTTACTCAAACAGGAAGGGATAGCCACAAGTGACAACCTTCATGCAGGCTTTCCTG
AATGTATTGGACCAGTGTCCCAAACCTGGAGGTTGACATCCCTTTGGTGAAATCCTATTTAGCACAGTTTGCAGCT
CGTGCCATCATTTTCAGAGCTGGTGAGCATTTCAGAACTAGCTCAACCACTAGAAAGTGGCACCCATTTTCTCTC
TTCTACTTTGTCTTTCAGCAGTTAGCTAAATTACAAGATCGAGAATGGTTAACAGAACTTTTTCAACAAAGCAAG
GTCAATATGCAGAAAATGCTCCAGAAATTGATCAGAATAAGGACCGCATGTTGGAGATTTTGAAGGAAAGGGA
CTGAGTTTCTTATTTCCCACTCCTCAAATTGGAGAAGGAAGTGTGAAGCAAATAAAGTTGGATCCATCCCTCAA
ACCATATATAAATGGATTAAAGATAACATCTCTCCCAAACCTCATGTAGATAAAGGATTTGTGAACATCTTAATG
ACTAGCTTCTTACAGTACATTTCTAGTGAAGTAAACCCCCCAGCGATGAAACAGATTTCCTCTGCTCCTTCC
AAAGAACAGTTAGAGCAGGAAAAACAATACTACTATCTTTCAAGCCAGTAATGCAGAAATTTCTTCATGATCAC
GTTGATCTACAAGTCAGTGCCCTGTATGCTCTCCAGGTGCACTGCTATAACAGCAACTTCCCAAAGGCATGTTA
CTTCGCTTTTTTGTGCACTTCTATGACATGGAAATTATTGAAGAAGAAGCTTTCTTGGCTTGGAAAGAAGATATA
ACCCAAGAGTTTCCGGGAAAAGGCAAGGCTTTGTTCCAGGTGAATCAGTGGCTAACCTGGTTAGAAACTGCTGAA
GAAGAAGAATCAGAGGAAGAAGCTGACTAAAGAACCAGCCAAAGCCTTAAATTGTGCAAAACATACTGTTGCTAT
GATGTAACCTGCATTTGACCTAACCACTGCGAAAATTCATTCCGCTGTAATGTTTTTCACAATATTTAAAGCAGAAG
CACGTCAGTTAGGATTTCTTCTGCATAAGGTTTTTTTTGTAGTGTAATGTCTTAATCATAGTCTACCATCAAATA
TTTTAGGAGTATCTTTAATGTTTAGATAGTATATTAGCAGCATGCAATAATTACATCATAAGTTCTCAAGCAGAG
GCAGTCTATTGCAAGGACCTTCTTTGCTGCCAGTTATCATAGGCTGTTTTAAGTTAGAAAACCTGAATAGCAACAC
TGAATACTGTAGAAATGCACTTTGCTCAGTAATACTTGAGTTGTTGCAATATTTGATTATCCATTTGGTTGTAC
AGAAAAATTCTTAACTGTAATTGATGGTTGTTGCCGTAATAGTATATTGCCTGTATTTCTACCTCTAGTAATGGG
CTTTATGTGCTAGATTTTAATATCCTTGAGCCTGGGCAAGTGCACAAGTCTTTTTTAAAGAAACATGGTTTACTT

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FIGURE 3163B

GCACAAACTGATCAGTTTTGAGAGATCGTTAATGCCCTTGAAGTGGTTTTTGTGGGTGTGAAACAAATGGTGAG
AATTGGAATTGGTCCCTCCTATTATAGTATTGAAATTAAGTCTACTTAATTTATCAAGTCATGTTTCATGCCCTGA
TTTATATACTTGTATCTATCAATAAACATTGTGATACTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3164

VESAIAEGGASRFSASSGGGSRGAPQHYPKTAGNSEFLGKTPGQNAQKWIPARSTRRDDNSAANNSANEKERHD
AIFRKVRGILNKLTPEKFDKLCLELLNVGVESKLILKGVILLIVDKALEEPKYSSLYAQLCLRLAEDAPNFDGPA
AEGQPGQKQSTTFRRLLISKLQDEFENRTRNVVDYDKRENPLLPEEEEEQRAIAKIKMLGNIKFIGELGKLDLIHE
SILHKCIKTLEKKKRVQLKDMGEDLECLCQIMRTVGPRLDHERAKSLMDQYFARMCSLMLSKELPARIRFLLQD
TVELREHHWVPRKAFLDNGPKTINQIRQDAVKDLGVFIPAPMAQGMRSDDFFLEGPFMPPRMKMDRDPLGGLADMF
GQMPGSGIGTGPGVIQDRFSPTMGRHRSNQLFNHGHHIMPPTQSQFGEMGGKFMKSQGLSOLYHNQSQGLLSQL
QGQSKDMPPRFSKKGQLNADEISLRPAQSFLMNKNQVFKLQPQITMIPPSAQPPRTQTPPLGQTPQLGLKTNPPL
IQEKPAKTSKKPPPSKEELLKLTETVVTEYLNSGNANEAVNGVREMRAPKHFLPEMLSKVILSLDRSDEDKEKA
SSLISLLKQEGIAATSDNFMQAFNLVLDQCPKLEVDIPLVKSYLEAQAARAIISELVSISELAQPLESGTHFPLFL
LCLQQLAKLQDREWLTELFQQSKVNMQKMLPEIDQNKDRMLEILEGKGLSFLFPLLKLEKELLKQIKLDPSPQTI
YKWIKDNISPKLHVDKGFVNILMTSFLQYISSEVNPPSDETDSSAPSKEQLEQEKQLLLSFKPVMQKFLHDHVD
LQVSALYALQVHCYNSNFPKGMLLRFFVHFYDMEIIIEEEAFLAWKEDITQEFPGKGKALFQVNQWLTWLETAEEE
ESEEAD

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FIGURE 3165

AGCTCTTTGTTCTCCAAGCAGGAAGGCGGCCTCCTGCCCACCCGCCGCTCCAAGCGGGCCCCCTCCTGCACCAT
AAATCCCCCGGGACTGACAACCGCCTCGCCACGGCCTCCTCTGCTGACAAAAGGGGCAGAAATCATCACTCTCT
CTTTCCTCCCGACGAAGGGCAGCCCCCTGCCGACTCCAGGTCCTACACACCTCCCCGCCGGGAGGCCAGGCTCCG
GGACGCCTGCGGTTCCCTGGTCCCGCGCCAACGGCCTGGCCTTCCCTGCCGGCCCCGCGTGCTCCCGCCACGGCG
CTAGCGGTCCGAGCCACGCTCCCTCGCCGTCCGAGCACAGCCGTGCCTCGGTCCGCCACGGCCTCGTCCCTGCAG
GCGTCGGCCATCCGGCCATGACCGCACGGCGGCCTGGCCAACACTGACGTTTTCTTCTACTCCGTGAGCAACAG
GAAGAGAGAACAAGCCAAGACTTTCAGGTATCTGAAGCGCAGAGGAAATGCTAAAAAAGGTCGCCCCACCC
GGCTCCGCCTGCGGCCGCCATTTTGTACCACTCGAGAAGAAGCGACCAGGGACGGCGGCCATTTTAGAGCGCTCC
ACTCGGCGGGCGGAGCGGCTCAACTCACCTTCACCGAGAACTCAGCAGCTGCCACCGCAGCTGCCTCCTCAGGAT
CCGGTCGTGCGGGATAGGGAAGGGAGGGGAAAGGGGAACGGAACAAAAAAGGGGGAGGGAAGGGGGAGGAA
GGAGTCGGGGACGGCCTCAAACCTCAGCTCAGAGGAGTCGCTGCTGCAGCCGCCACTCGGTACCCGCTGCCACCTC
CATAGAGCTCCGACTCACTGCTGGCGCTAAGGCGTGTCTGAAGCCGAACCTTATCACTCTTGGGGCAGCCGAACCC
ACCAGAGTCTCCCCGAATGGCTCCTTCGCCGCCCAATCAGCGGCCCGGTTGCCGTCTGCCACCAATCCGCGCAGG
GCAGCGAGGAGGAGCCACAGGGCTGAGCTCGGTTGCGGCGCAGCCCCGCCGAGTGCGCAAAGCCATATTGCGA
AGTCTCTGAGGCTGAGCCAGTGGCGTAAGGGGCGCCGAGCGCTGTGAGATGAGGGGTTGCGTGCGTAAAGCCGGA
GAGCCCTTTTGTAGTCTGCGTTGGCGTGGCTGCTGCTTCTTGCTCCAGTCCCTTTGTTCACTGAGTCCATATGCCA
TGCTCCAGTTGTATCATCCCCCTTTCCCTCGACCTCGTTTTCTCACCGGGAATATGGGAAGAAAACGCACCCTTA
CCTCCCCCGAACCCTGTGCGTGGCGAGTGAGCAATTGCTTTTCTTGCGCCCCCTTGGAGCTGTGGCTGCCCTCGCG
TGCCTGGCCTCTCCCGGGGCTGAGCCCTTCGGGTGAGGCTGAGCCCCCGGGCGCAGCGCCGGGACACTACCC
GGCTCCAGGTCTCGGCTTCGGCAGCCTTAGGGAACCCAGAAAGTAGTGGGGAGGAGGCGAGACGTGCGCCCGGA
TGCCAAAGGGGAGCTTCATTGAGTCCCTTATTGGCCCACCCCTGCAGAGTGAATGAGAAAGTGATGAAAGGAAG
GGGTTGATTTTCTTCGAACCGCACAGAAGAAGCTGCTTTTCCCATAGGAATGTCCGGCTGGCGGTACCGAGGAA
AACACCCTGTGTGTGCTGAGACTTCGCGGGGTGTTTGGAGGATTTTGAATTGCTAGCTCCTGTTTTTTTTTTGTTTTT
GTTTTGTTTAAAGTGCACGTAAACATTGTGAGTTGTGATTTTCATTTTATTTAAGGTTACCATAGAAATAGGA
TTAAGCTTTTCAAAGCCGGCAAGTTGAACTATTTATACTTACCAGGTAATGTATTGATGAGTACCTTATTCCATC
GTTTGCACATTGTAGCTATACTAAATGGAGTCATACTTCCATAAACTTAAACAACAAAAATGTCCCCATCTCC
ATTTTAACATGTAGTACTTTTACAGTGTATAGTCAAAGGCAAGAATGTGTGTGTTTTAACATGAATGACTTTTAA
AGTGTTTCAAGAGGAGGAGGATTTTCAAAGACCCAACTTAACCTTTGATGTGTCAAAACAGCTCTTGGTATTAG
AGCACCTGGTCCTTAATACAATTTCCGGAAAATTGC

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FIGURE 3166

MRVACVKPESPFESALAWLLLLAPVPLFTESICHAPVVSSFPSTSFHREYGKKTHPYLPRTL CVASEHCFSWR
PLELWLPSRAWPLPGLSPSG

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FIGURE 3167

CGCGAGCCGGGACCACGCCGACCCAGCGTGCCCAGGCCGAGGAAAGCGCGGCGGGCGGCAGTCCGAAGACCCACCG
GGACTGAAAGAGAAGGACGAGGTCATCTTCGGACGGGAGGGGCAAGCCAGCCATCCTGGGACCCCAGGCGTGCAG
GTTCTCTTTGAGGGTATTCCACCCTGCAAAAAGCATGTATTTCATGGTCAGCTCTCAGCAAGGCCAGTAGCAGAGT
GGTAAAGGCCTTGCCCTCCAAGGCTGGGAAAAGACAATGACAAGTCAAATCCAGACCTATGTTGTATGTTGGTC
TACTAGGTGACTGTCTCCTGGAAATGTTATGCAGCTCAGCAAGGTGAAGTTTCGAAATCAGTATGACAATGATGT
CACTGTTTGGAGCCCCCAGGGCAGGATTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTTTCAGCCAC
AGTTGGTCTGAAATCAAAAACATCATGCAGTTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGCAGCTCATCA
GAAAAAAATTCTCCATGTTGACAACCATATTGGTATCTCAATTGCGGGGCTTACTGCTGATGCTAGACTGTTATG
TAATTTTATGCGTCAGGAGTGTTTGGATTCCAGATTTGTATTTCGATAGACCACTGCCTGTGTCTCGTCTTGTATC
TCTAATTGGAAGCAAGACCCAGATACCAACACAACGATATGGCCGGAGACCATATGGTGTGGTCTCCTTATTGC
TGGTTATGATGATATGGGCCCTCACATTTTCCAAACCTGTCCATCTGCTAACTATTTTGAAGTGCAGAGCCATGTC
CATTGGAGCCCGTTCCCAATCAGCTCGTACTTACTTGGAGAGACATATGTCTGAATTTATGGAGTGTAATTTAAA
TGAAGTAGTTAAACATGGTCTGCGTGCCTTAAGAGAGACGCTTCCTGCAGAACAGGACCTGACTACAAAGAATGT
TTCCATTGGAATTGTTGGTAAAGACTTGGAGTTTACAATCTATGATGATGATGATGTGTCTCCATTCTGGAAGG
TCTTGAAGAAAGACCACAGAGAAAGGCACAGCCTGCTCAACCTGCTGATGAACCTGCAGAAAAGGCTGATGAACC
AATGGAACATTAAGTGATAAGCCAGTCTATATATGTATTATCAAATATGTAAGAATACAGGCACCACATACTGAT
GACAATAATCTATACTTTGAACCAAAGTTGCAGAGTGTTGGAATGCTATGTTTTAGGAATCAG

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FIGURE 3168

MFRNQYDNDVTWSPQGRIHQIEYAMEAVKQGSATVGLKSKTHAVLVALKRAQSELAAHQKKILHVDNHIGISIA
GLTADARLLCNFMRQECLDSRFVFDRLPLVSRVSLIGSKTQIPTQRYGRRPYGVGLLIAGYDDMGPHIFQTCPS
ANYFDCRAMSIGARSQSARTYLERHMSEFMECNLNELVKHGLRALRETLPAEQDLTTKNVSGIVGKDLEFTIYD
DDDVSPFLEGLEERPQRKAQPAQPADEPAEKADPEMEH

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FIGURE 3169

CCTTTCGTTGCCTGATCGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTAC
CCTATCGACGCAGCTTCCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCA
AGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTGCACAAGTACGTTTTGTGA
CAGGCAATCTCTACCATTTAATTAAGAAAGCAGTTGCTGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGA
TGCTAAATTCATCTGATTCTGATAGAGAGCCAGATTCACCGTTTG

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FIGURE 3170

CGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTACCCTATCGACGCAGCTT
CCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCAAGAAGGGCCTTACTCC
TTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTCACACAAGTACGTTTTGTGACAGGCAATAAAATTTT
AAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC
TGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCATCTGATTCTGATAGAGAGCCAGATT
CACCGTTTGGCTCAATATTATAAGACCAAGCGAGTCCTCCCTCCCAGTTGGAAATATGAATCATCTACAGCCTCT
GCCCTGGTCGCATAAAATTTGTCTGTGTACTCAAGCAATAAAATGATTGTTTAACTAAAATAAAACAAAAACAAAA
ACAAAAAA

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FIGURE 3171

CGCTCTCCTTTTCGTTGCCTGATCGCCGCCATCCATGGGTCGCATGCATGCTCCCGGGAAGGGCCTGTCCCAGTCGG
CTTTACCCTATCGACGCAGCGTCCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAAAC
TGGCCAAGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCCTGAGAGATTACATGGTGTTCACAAGTACGTT
TTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACC
ATTTAATTAAGAAAGCAGTTGCTGTTGCGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCGTC
TGATTCTAATAGAGAGCCGGATTCACCGTTTGGCTCGATATTATAAGACCAAGCGAGTCCTCCCTCCCAATTGGA
AATATGAATCATCTACAGCCTCTGCCCTGGTCGCATTAAATTTGTCTGTGTACTCAAGCAATAAAATGATTGTTTA
ACTA

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FIGURE 3172

MGRMHAPGKGLSQSALPYRRSVPTWLKLTSDDVKEQIYKLAKKGLTPSQIGVILRDSHGVAQVRFVTGNKILRIL
KSKGLAPDLPEDLYHLIKKAVAVRKHLERNRKDKDAKFRLLILIESRIHRLARYYKTKRVLPNWKYESSTASALV
A

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FIGURE 3173

GGGGAGAGAAGGCCCGGAGGGGGCTCTGCGTTCTGTAGTGGCGCTGCTTGGGCCCCGTGGCGGATTGTAAGCTGCTG
GTTTTGCGGCTGGGAAGAGCGGCGAGAGGGTTTCGGCATTTCCTCGGGATCCCCGCAAGGATGAGTGTGCTGCCAG
AGAGTCTCACCCGCATGGGGTGAAGCGTTCAGCCTCCCCAGACGACGATCTGGGATCTAGCAATTGGGAGGCAGC
AGACTTGGGTAATGAAGAGAGAAAAACAAAAGTTCTTGAGACTTATGGGTGCAGGAAAGAAAGAACATACTGGTCCG
TCTTGTTATAGGAGATCACAAATCAACATCTCACTTCCGAACCGGGGAAGAAGACAAGAAAATTAATGAAGAACT
GGAGTCTCAATATCAGCAAAGTATGGACAGTAAATTATCAGGAAGATATCGGCGACATTGTGGACTTGGCTTCAG
TGAGGTAGAAGACCATGATGGAGAAGGTGATGTGGCTGGAGATGATGATGATGACGATGATGATTACCTGATCC
TGAAAGTCCAGATGATTCTGAAAGCGATTTCAGAGTCAGAGAAAGAAGAATCTGCTGAAGAACTCCAAGCTGCTGA
GCACCCTGATGAAGTGGAGGATCCCCAAAAACAAAAAGATGCAAAAAGCAATTATAAAATGATGTTTGTTAAATC
CAGTGGTTCA~~TAA~~CTCCCAAACGCTTAGTCTTTGTATTAAAAGTAAGCCTTATTGTTACAATGCACAGTGGAGGA
CTGCTTATAGAGCACAGACCTTTGTATTATAATTTTTAAAAAGGCCCTTTTAAATAATTACAAAGAGTGTGTTGCT
TTCAAATGCCATGGGTTACACTTTTATGGGCATGACTATAACCATTTTGTAAAGAGTAAGAGTTGTATAAAATA
AGAAATAAATAACAGTACTCAACTTCCTTTCATATTAGCATCATCAACCCTCTAATTCACCTTATGGGGGAAATGC
TTCTTTTTGTTTGTGATAGCTATTTTATCATTTCCTTCATATTTTCTCTTATAAAAAATGTATTTGATACTGTGA
TATGTTTACGAAAAAGTATTCTTTAATTATTCTTTGTTATAGTAGAGCTGTTTATTATGGATATTTCTGCTGCCAG
TCACAATCTAAATTAATTTTGGCAAAAGATTGGGTACTTAGTTGCCTGTTACTGAGTTAGCTCTACTCTTTTGGGA
CCAAAGCAACATGAGAGCAAGTACTTTTCACACTTGTTAAGATGGAGTTATAACTGTCATACATTTGGAATATTA
TGATCCCAAGTAGTCTTTTATAAATTGGATTGTATCGTATGTTAGATTTTGTATAAAATTTGGCCAATTTTAC
AGAAGAAATTCTCTGATCATTTAGTTCTATCTATTTAGAAATATGTAAACTGGATTTTTTTTTTAAGTAATATGT
GACCAAAGTTAATTTTGTCCCAAAGGTCTAAATAAAGAGCAGTTTCCCACAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 3174

MSAARESHPHGVKRSASPDDDLGSSNWEAADLGNEERKQKFLRLMGAGKKEHTGRLVIGDHKSTSHFRTGEEDKK
INEELESQYQQSMDSKLSGRYRRHCGLGFSEVEDHDGEGDVAGDDDDDDDDSPDPESPDDSESDSESEKEESAEE
LQAAEHPDEVEDPKNKKDAKSNYKMMFVKSSGS

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FIGURE 3175

TGCTGCAGCCGCTGCCGCCGATTCCGGATCTCATTGCCACGCGCCCCGACGACCGCCCGACGTGCATTCCCGAT
TCCTTTTGGTTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTTATAATCTTCTAAAGGAAGAACAGAC
CCCCAGAATAAGATTACAGTTGTTGGGGTTGGTGCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGA
CTTGGCAGATGAAC TTGCTCTTGTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATCTCCAACATGG
CAGCCTTTTCTTAGAACACCAAAGATTGTCTCTGGCAAAGACTATAATGTAAGTGCAAACTCCAAGCTGGTCAT
TATCACGGCTGGGGCACGTGAGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATATTTAA
ATTCATCATTCCTAATGTTGTAAAATACAGCCCGAAGTGCAGTTGCTTATTGTTTCAAATCCAGTGGATATCTT
GACCTACGTGGCTTGAAGATAAGTGGTTTTCCCAAAAACCGTGTATTGGAAGTGGTTGCAATCTGGATTGAGC
CCGATTCCGTTACCTGATGGGGGAAAGGCTGGGAGTTCACCCATTAAGCTGTCATGGGTGGGTCTTGGGGAACA
TGGAGATTCCAGTGTGCCTGTATGGAGTGGAATGAATGTTGCTGGTGTCTCTCTGAAGACTCTGCACCCAGATTT
AGGGACTGATAAAGATAAGGAACAGTGGAAAAGAGGTTTACAAGCAGGTGGTTGAGAGTGCTTATGAGGTGATCAA
ACTCAAAGGCTACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTTGGCAGAGAGTATAATGAAGAATCTTAG
GCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTG
CATTTTGGGACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAA
GAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATATCATTTCACTGT
CTAGGCTACAACAGGATTCTAGGTGGAGGTTGTGCATGTTGTCCTTTTATCTGATCTGTGATTAAAGCAGTAAT
ATTTTAAGATGGACTGGGAAAAACATCAACTCCTGAAGTTAGAAATAAGAATGGTTTGTAATAATCCACAGCTATA
TCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGC
ACCACTGCCAATGCTGTACGTACTGCATTTGCCCTTGAGCCAGGTGGATGTTTACCGTGTGTTATATAACTTCC
TGGCTCCTTCACTGAACATGCCTAGTCCAACATTTTTTCCAGTGAGTCACATCCTGGGATCCAGTGTATAAATC
CAATATCATGTCTTGTGCATAATTCTTCCAAAGGATCTTATTTTGTGAAGTATATCAGTAGTGATACCATA
TAATGTAAAAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTATACCAACTAAAACCCCAATAAAC
CTTGAACAGTG

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FIGURE 3176

MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKGEMMDLQHGSFLRTP
KIVSGKDYNVTANSKLVIIITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKI
SGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLGTDKDKE
QWKEVHKQVVE SAYEVIKLG YTSWAIGLSVADLAESIMKNLRRVHPVSTMIKGLYG IKDDVFLSVPCILGQNGI
SDLVKVTLTSEEEARLKKSADTLWGIQKELQF

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FIGURE 3177

ATGCCCAGTGCCATTAGCACCAAGTGTTGCCTGTCCATCCTGTGGCCTACCATCTGGTATTACTGCAGCCATGCA
GGATCCCTGTCAATGATCATGTGTGCTCTTCTCTGGGCCCTATCCCTGCTGCTGAAATTCCTGGAGGGCAATCTT
GGAAACAATGGCAACAAGACCGAATTGGAACGGGCTTTTGGCTACTATGGACCACTCCAAAGTGTGTGGGTGCT
AGAAACCCATCTGGCTTTTGCTTTTGTGAAATTGAAGATCCCCGAGATGCGGCTGATGCAGTTCCATCCCCGAGA
GCTAAATGGAAGAACACTATGTGGCTGCTGTATGATTATCGTAGGAGTAGTCCTCCACCTCGTCGCAGATCTCCA
AGAAGGAGAAGCTTCTCTCACAGCTGGAGCAGGTCCCTTTCTAGAGATGGGAGAAGAGAGAGGTCGCTGTCTCGG
GAGAGAAATCACAAGCCGTCCCGATCCTTCTCTAGGTCTCGTAGCCGATCTAGGTCAAATGAAAGGAAATAG

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FIGURE 3178

ACCACAAATCAGGCCGGACAGGAGAGGGAGGGGTGGGGGACAGTGGGTGGGCATTGAGACTGCCAGCACTTTGCT
ATCTACAGCCGGGGCTCCCGAGCGGCAGAAAGTTCCGGCCACTCTCTGCCGCTTGGGTGGGCGAAGCCAGGACC
GTGCCGCGCCACCGCCAGGATATGGAGCTACTGTGCCACCGCTCCGCGACGTAGACCTGACGGCCCCGACGGC
TCTCTGTCTCCTTTGCCACAACGGACGACTTCTATGACGACCCGTGTTTCGACTCCCCGGACCTGCGCTTCTTC
GAAGACCTGGACCCGCGCCTGATGCACGTGGGCGCGCTCCTGAAACCCGAAGAGCACTCGCACTTCCCCGCGGGC
GTGCACCCGGCCCCGGGCGCACGTGAGGACGAGCATGTGCGCGCGCCCAGCGGGCACCACCAGGCGGGCCGCTGC
CTACTGTGGGCCTGCAAGGCGTGCAAGCGCAAGACCACCAACGCCGACCGCCGCAAGGCCGCCACCATGCGCGAG
CGGCGCCGCTGAGCAAAGTAAATGAGGCCTTTGAGACACTCAAGCGCTGCACGTGAGCAATCCAAACCAGCGG
TTGCCCAAGGTGGAGATCCTGCGCAACGCCATCCGCTATATCGAGGGCCTGCAGGCTCTGCTGCGCGACCAGGAC
GCCGCGCCCCCTGGCGCCGCGAGCCGCTTCTATGCGCCGGGGCCCGCTGCCCCGGGGCCGCGGCGGCGAGCACTAC
AGCGGCGACTCCGACGCGTCCAGCCGCGCTCCAAGTGTCCGACGGCATGATGGACTACAGCGGCCCCCGAGC
GGCGCCCGCGGCGGGAAGTGTACGAAGGCGCCTACTACAACGAGGCGCCAGCGAACCAGGCCCGGGAAGAGT
GCGGCGGTGTGAGCCTAGACTGCCTGTCCAGCATCGTGGAGCGCATCTCCACCGAGAGCCCTGCGGCGCCCGCC
CTCCTGCTGGCGGACGTGCCTTCTGAGTCGCCTCCGCGCAGGCAAGAGGCTGCCGCCCCAGCGAGGGAGAGAGC
AGCGGCGACCCACCCAGTCACCGGACGCGCGCCCGCAGTGCCCTGCGGGTGCGAACCCCAACCCGATATACCAG
GTGCTCTGAGGGGATGGTGGCCGCCACCCGCCCCGAGGGATGGTGCCCTAGGGTCCCTCGCGCCCAAAAGATTG
AACTTAAATGCCCCCTCCCAACAGCGCTTTAAAAGCGACCTCTCTTGAGGTAGGAGAGGCGGGAGAAGTGAAGT
TTCCGCCCCCGCCCCACAGGGCAAGGACACAGCGCGGTTTTTTTCCACGCAGCACCCCTTCTCGGAGACCCATTGCG
ATGGCCGCTCCGTGTTCTCGGTGGGCCAGAGCTGAACCTTGAGGGGCTAGGTTTCACTTTCTCGCGCCCTCCCC
CATGGGGGTGAGACCTCGCAGACCTAAGCCCTGCCCCGGGATGCACCGGTTATTTGGGGGGCGTGAGACCCAG
TGCACTCCGGTCCCAAAATGTAGCAGGTGTAACCGTAACCCACCCCAACCCGTTTCCCGGTTTCAAGACCACTTTT
TGTAATACTTTTGTAAATCTATTCTGTAAATAAGAGTTGCTTTGCCAGAGCAGGAGCCCTGGGGCTGTATTTAT
CTCTGAGGCATGGTGTGTGGTGCTACAGGGAATTTGTACGTTTATACCGCAGGCGGGCGAGCCGCGGGCGCTCGC
TCAGGTGATCAAAATAAAGGCGCTAATTTATA

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FIGURE 3179

MELLSPLRDVDLTAPDGSLCSFATTDIFYDDPCFDSPLRFFEDLDPRLMHVGALLKPEEHSHPAAVHPAPGA
REDEHVRAPSGHHQAGRCLLWACKACKRKTNNADRRKAATMRERRRLSKVNEAFETLKRCTSSNPNQRLPKVEIL
RNAIRYIEGLQALLRDQDAAPPAAAAFYAPGPLPPGRGGEHYSGSDASSPRSNCSGMMDYSGPPSGARRRNC
YEGAYYNEAPSEPRPGKSAVSSLDCLSSIVERISTESPAAPALLLADVPSSEPPRRQEAAAPSEGESSGDPTQS
PDAAPQCPAGANPNPIYQVL

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FIGURE 3180

AGTTGCTTCAGCATCCTGGTGTGCTGTGCCGTGGGTCCTGTGCGGTCACTTAGCCAAGATGCTGAGGAAACCC
AGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACATTTCGCCCTTTCAGGCAGAAATTGCCCAGTTGATGT
CATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCAT
TGGACAAAATCTGGTATGAAAGCTTGACAGATCCCAGTAAATTAGACTCTGGGAAAAGAGCTGCATATTAACCTTA
TACCAAACAAACAAGATCAAACCTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAATA
ACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATGA
TTGGCCAGTTTCGGTGTAGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAAGTAACTGTGATCACCAAACATAATG
ATGATGAGCAGTACGCCTGGGAGTCCCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACGTATGG
GTCGTGGAACAAAGGTTATCCTACACCTGAAAGAAGACCAAACCTGAGTACTTGGAGGAACAAAGAATAAAGGAGA
TTGTGAAGAAACATTCTCAGCTTATTGGATATCCCATTACTCTTTTTGTGGAGAAGGAATGTGATAAAGAAGTCA
GCGACGATGAGACTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAGAGAAAGAGTCCAAAGACAAAC
CTGAAATTGAAGATGTTGGTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAAGAAGAAGAAGAAGACTAAGG
AAAAGTACATCGACCAAGAAGAACTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACTAATG
AGGAGTACGGAGAATTCTGCAAGAACCTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTTCAGTTG
AAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCATGACGTGCTCCTTTTGACCTGTTTGAAAACAGAAAGA
AAAAGAACAACATCAAATTGTATGTACGCAGAGATTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATC
TGAACCTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATTTCCTGTGAGATGTTGCAACAAAGTA
AAATTTTGAAAGTTATCAGGAAAAATTTGGTCAAAAAATGCTTAGAACTCTTTACAGAACTGGCGGAAGATAAAG
AGAAGTGAAGAAATCTATGAGCAGTTCTCTAAAAACATAAAGCTTGAATACAAGAAGACTCTCAAAATCGGA
AGAAGCTTTCAGAGCTGTTAAGGTACTACACGTCTGCCTCTGGTGATGAGATGGTTTTCTCTCAAGGACTACTGCA
CCAGAATGAAGGAAAAACAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCAGCCT
TTGTGGAACGTCTTGGGAAACATGGCTTAGAAGTGATCTATATGATTGAGCCATTGATGAGTACTGTGTCCAAC
AGCTGAAGGAATTTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTGGAACCTTCAGAGGATGAAGAAA
AGAAAAAGAAATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAACCATGAAAGACATATTGGAGAAAAA
AGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACGTCTCCATGCTGTATTGTCAAGCACATATGGCTGGAC
AGAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTATATGGCAGCCAAGAA
ACACCTGGAGATAAATCCTGATGATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAATGACAA
GTCTGTGAAGGATCTGCTCATCTTGCTTTACGAACTGCACTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCA
GACACATGCTAACAGGACCTACAGGATGATCAAACCTTGGTCTGGGTATTGATGAAGATGATCCTGCTGCTGATGA
TACCAGTGCTGCTGTAACCTGAAGAAATGCCGCCCCCTCGAAGGAGATGACGACACATCATGCATGGAAGAAGTAGA
CTAACCTCTGGCTAAGGGATGACTTAACTGTTCAATACTCTACAATTCCTCCGATAATATATATTCAAGGATGTT
TTTCTTTATTTTTGTTAATATTAAAAAGTCTGTACGGCATGACAACAACACTTTAAGGGGAAGATAAGATTTCT
GTCTACTAAGTGATGCTGTGATACCTTAGGCACTAAAGCAGAGCTAGTAATGCTTTTTGAGTTTCACGTCGGTTT
ATTTTCACAGATTGGGGTAACGTGCGTTGTAAGATGTATGTAACATGATGTTAACTTTGTGGTCTAAAGTGTTTA
GCTGTCAAGCCGGATTCCCTAAGTAGACCAAATCTTGTTATCGAAGTGTTCCCTGAGCTATACCTTGATGTTTAGAA
AAGTATTTGTTACATCTTGTAGGATCTACTTTTTGAACTTTTTCATCCCTATAGTTGACAATTCTGCATGTACTA
GTCCTCTAGAAATAGGTTAACTGAAGCAACTTGATGGAAGGATCTCTCCACAGGGCTTGTTTTCCAAAGAAAAG
TATTGTTTGGAGGAGCAAAGTTATAAGCCTACCTAAGCATATCATAAAGCTGTTTAAAAATAACTCAGACCCGGT
CTTGTGGATGGAATGTAGTGCTCGAGTCACATTCTTCTATAGTTGTAACAAATACAGATGAGT

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FIGURE 3181

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIWYESLTDPSKLD SGKE
LHINLIPNKQDQTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVSFY SAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVRTDTGERMGRGTKVILHLKEDQTEYLEEQRIKEIVKKHSQLIGYPITL FVEKE
CDKEVSDDETEEEKEDKEEEEKEEEEKESKDKPEIEDVGSDEEEEKKDGDKKKKKTKEYIDQEELNKT KPIWTRNP
DDITNEEYGEFYKNLTNDWEDHLAVKHFSVEGQLEFRALLFVP

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FIGURE 3182

GGTGTTGCTGTGCCGTGGGTCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAACCCAGACCCAAGACCAACCG
ATGGAGGAGGAGGAGGTTGAGACATTGCGCTTTCAGGCAGAAATTGCCAGTTGATGTCATTGATCATCAATACT
TTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCATTGGACCTGCATATTAAC
CTTATACCAAACAAACAAGATCAAACCTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATC
AATAACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTCAIGGAAGCTTTGCAGGCTGGTGCAGATATCTCT
ATGATTGGCCAGTTCGGTGTTAGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACAT
AATGATGATGAGATAACAGTGCTGCTGTAACCTGAAGAAATGCCGCCCTCGAAGGAGATGACGACACATCATGCA
TGAAGAAGTAGACTAACCTCTGGCTAAGGGATGACTTAACTGTTCA

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FIGURE 3183

ACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTCAGTTGAAGGACAGTTGGAATTCAGAGCCCTTCTA
TTTGTCCCATGACGTGCTCCTTTTGACCTGTTTGAAAACAGAAAGAAAAAGAACAACATCAAATTGTAIGTACGC
AGAGATTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATCTGAACTTCATTAGAGGGGTGGTAGACTCG
GAGGATCTCCCTCTAAACATTTCCCGTGAGATGTTGCAACAAAGTAAAATTTTGAAAGTTATCAGGAAAAATTTG
GTCAAAAAATGCTTAGAACTCTTTACAGAACTGGCGGAAGATAAAGAGAACTGCAAGAAATTCCTATGAGCAGTTC
TCTAAAAACATAAAGCTTGGAATACAAGAAGACTCTCAAATCGGAAGAAGCTTTCAGAGCTGTTAAGGTACTAC
ACGTCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGAAGGAAAAACAGAAACATATC
TATTATATCACAGGTGAGACCAAGGACCAGGTAGCTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTG
GAACTTCCAGAGGATGAAGAAAAGAAAAAGAAATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAATCA
TGAAAGCTCAAGCCCTAAGAGACAACTCAACAATGGGTTATATGGCAGCCAAGAAACACCTGGAGATAAATCCTG
ATGATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAATGACAAGTCTGTGAAGGATCTGCTCA
TCTTGCTTTACGAACTGCACTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCAGACACATGCTAACAGGACCT
ACAGGATGATC

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FIGURE 3184

GGAATGTGATAAAGAAGTCAGCGACGATGAGACTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAAGA
GAAAGAGTCCAAAGACAAACCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAA
GAAGAAGAAGAAGACTAAGGAAAAGTACATCGACCAAGAAGAAGTCAACAAAACAAAGCCCATCTGGACCAGAAA
TCCCGACGATATTACTAATGAGGAGTACGGAGAATTCTGCAAGAAGTGGACCAATGACTGGGAAGATCACTTGGC
AGTGAAGCATGAAAAATTTGGTCAAAAAATGCTTAGAACTCTTTACAGAACTGGCGGAAGATAAAGAGAAGTGA
AGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGGAATACAAGAAGACTCTCAAAATCGGAAGAAGCTTT
CAGAGCTGTTAAGGTACTACACGTCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGA
AGGAAAAACAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCAGCCTTTGTGGAAC
GTCTTGGGAAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATTTGATGAGTACTGTGTCCAACAGCTGAAGG
AATTTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTGGAAGTTCCAGAGGATGAAGAAAAGAAAAAGA
AATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAACCATGAAAGACATATTGGAGAAAAACAAGCACA
TATGGCTGGACAGAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAAGTCAACAATGGGTTATATG
GCAGCCAAGAAACACCTGGAGATAAATCCTGATGATTCCATTAT

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FIGURE 3185

GGTCGGCGTGGTCTTGCGAGTGGAGTGTCCGCTGTGCCCCGGGCCTGCACC**ATG**AGCGTCCCGGCCCTTCATCGACA
TCAGTGAAGAAGATCAGGCTGCTGAGCTTCGTGCTTATCTGAAATCTAAAGGAGCTGAGATTTCAGAAGAGAACT
CGGAAGGTGGACTTCATGTTGATTTAGCTCAAATTATTGAAGCCTGTGATGTGTGTCTGAAGGAGGATGATAAAG
ATGTTGAAAGTGTGATGAACAGTGTGGTATCCCTACTCTTGATCCTGGAACCAGACAAGCAAGAAGCTTTGATTG
AAAGCCTATGTGAAAAGCTGGTCAAATTTTCGCGAAGGTGAACGCCCGTCTCTGAGACTGCAGTTGTTAAGCAACC
TTTTCCACGGGATGGATAAGAATACTCCTGTAAGATACACAGTGTATTGCAGCCTTATTAAAGTGGCAGCATCTT
GTGGGGCCATCCAGTACATCCCAACTGAGCTGGATCAAGTTAGAAAATGGATTTCTGACTGGAATCTCACCCTG
AAAAAAAGCACACCCCTTTTAAGACTACTTTATGAGGCCTTGTGGATTGTAAGAAGAGTGATGCTGCTTCAAAG
TCATGGTGAATTGCTCGGAAGTTACACAGAGGACAATGCTTCCCAGGCTCGAGTTGATGCCCACAGGTGTATTG
TACGAGCATTGAAAGATCCAAATGCATTTCTTTTGACCACCTTCTTACTTTAAAACCAGTCAAGTTTTTGGAAG
GCGAGCTTATTCATGATCTTTTAACCATTTTTGTGAGTGCTAAATTGGCATCATATGTCAAGTTTTATCAGAATA
ATAAAGACTTCATTGATTCACCTTGGCCTGTTACATGAACAGAATATGGCAAAAATGAGACTACTTACTTTTATGG
GAATGGCAGTAGAAAATAAGGAAATTTCTTTTGACACAATGCAGCAAGAACTTCAGATTGGAGCTGATGATGTTG
AAGCATTTGTTATTGACGCCGTAAGAACTAAAATGGTCTACTGCAAAATTGATCAGACCCAGAGAAAAGTAGTTG
TCAGTCATAGCACACATCGGACATTTGGAAAACAGCAGTGGCAACAACCTGTATGACACACTTAATGCCTGGAAAC
AAAATCTGAACAAAGTGAAAAACAGCCTTTTGAGTCTTTCTGATACCT**TGAG**TTTTTATGCTTATAATTTTTGTTC
TTTGAAAAAAAAGCCCTAAATCATAGTAAACATTATAAACTAAAAA

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FIGURE 3186

MSVPAFIDISEEDQAAELRAYLKSKGAEISEENSEGGLHVDLAQIIEACDVCLKEDDKDVESVMNSVVSLLLILE
PDKQEALIESLCEKLVKFREGERPSLRQLLSNLFHGMDKNTPVRYTVYC SLIKVAASCGAIQYIPTELDQVRKW
ISDWNLTTEKKHTLLRLLYEALVDCKKSDAASKVMVELLGSYTEDNASQARVDAHRCIVRALKDPNAFLFDHLLT
LKPVKFLEGELIHDLLTIFVSAKLASYVKFYQNNKDFIDSLGLLHEQNMAKMRLLTFMGMAVENKEISFDTMQQE
LQIGADDVEAFVIDAVRTKMVYCKIDQTQRKVVS SHSTHRTFGKQQWQQLYDTLNAWKQNLNKVKNLSLSLSDT

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FIGURE 3187

AAAACTGCAGCCAACTTCCGAGGCAGCCTCATTGCCAGCGGACCCAGCCTCTGCCAGGTTCCGGTCCGCCATC
CTCGTCCCGTCCCTCCGCCGGCCCCCTGCCCGCGCGCCAGGGATCCTCCAGCTCCTTTCCGCCCGCGCCCTCCGTTTCG
CTCCGGACACCATGGACAAGTTTTTGGTGGCACGCAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAGA
TCGATTTGAATATAACCTGCCGCTTTGCAGGTGTATTCCACGTGGAGAAAAATGGTTCGCTACAGCATCTCTCGGA
CGGAGGCCGCTGACCTCTGCAAGGCTTTCAATAGCACCTTGCCACAATGGCCCAGATGGAGAAAGCTCTGAGCA
TCGGATTTGAGACCTGCAGGTATGGGTTTCATAGAAGGGCACGTGGTGATTCCCCGGATCCACCCCAACTCCATCT
GTGCAGCAAACAACACAGGGGTGTACATCCTCACATCCAACACCTCCCAGTATGACACATATTGCTTCAATGCTT
CAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCCAATGCCTTTGATGGACCAATTACCATAACTA
TTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGAATCCTGAAGACATCTACCCAGCA
ACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTGAAAGGAGCAGCACTTCAGGAGGTTACATCTTTTACA
CCTTTTCTACTGTACACCCCATCCCAGACGAAGACAGTCCCTGGATCACCGACAGCACAGACAGAATCCCTGCTA
CCACTTTGATGAGCACTAGTGCTACAGCAACTGAGACAGCAACCAAGAGGCAAGAAAACCTGGGATTGGTTTTTCAT
GGTTGTTTCTACCATCAGAGTCAAAGAATCATCTTTCACACAACAACACAAATGGCTGGTACGTCTTCAAATACCA
TCTCAGCAGGCTGGGAGCCAAATGAAGAAAATGAAGATGAAAGAGACAGACACCTCAGTTTTTCTGGATCAGGCA
TTGATGATGATGAAGATTTTATCTCCAGCACCATTTCACACACACCACGGGCTTTTGACCACACAAAACAGAACC
AGGACTGGACCCAGTGGAACCCAAGCCATTCAAATCCGGAAGTGCTACTTCAGACAACCACAAGGATGACTGATG
TAGACAGAAATGGCACCCTGCTTATGAAGGAACTGGAACCCAGAAGCACACCCTCCCCCTCATTACCATGAGC
ATCATGAGGAAGAAGAGACCCACATTCTACAAGCACAATCCAGGCAACTCCTAGTAGTACAACGGAAGAAACAG
CTACCCAGAAGGAACAGTGTTTGGCAACAGATGGCATGAGGGATATCGCCAAACACCCAAAGAAGACTCCCAT
CGACAACAGGGACAGCTGCAGCCTCAGCTCATACCAGCCATCCAATGCAAGGAAGGACAACACCAAGCCAGAGG
ACAGTTCCTGGACTGATTTCTTCAACCCAATCTCACACCCCATGGGACGAGGTCATCAAGCAGGAAGAAGGATGG
ATATGGACTCCAGTCATAGTATAACGCTTCAGCCTACTGCAAATCCAACACAGGTTTGGTGGAAGATTTGGACA
GGACAGGACCTCTTTCAATGACAACGCAGCAGAGTAATTCTCAGAGCTTCTCTACATCACATGAAGGCTTGGAG
AAGATAAAGACCATCCAACAACCTTCTACTCTGACATCAAGCAATAGGAATGATGTCACAGGTGGAAGAAGAGACC
CAAAATCATTCTGAAGGCTCAACTACTTTACTGGAAGGTTATACCTCTCATTACCCACACACGAAGGAAAGCAGGA
CCTTCATCCCAGTGACCTCAGCTAAGACTGGGTCTTTGGAGTTACTGCAGTTACTGTTGGAGATTCCAACCTTA
ATGTCAATCGTTCCTTATCAGGAGACCAAGACACATTCCACCCCAAGTGGGGGGTCCCATAACCACTCATGGATCTG
AATCAGATGGACACTCACATGGGAGTCAAGAAGGTGGAGCAAACACAACCTCTGGTCTATAAGGACACCCCAAA
TTCCAGAATGGCTGATCATCTTGGCATCCCTCTTGGCCTTGGCTTTGATTCTTGCAGTTTGCATTGCAGTCAACA
GTCGAAGAAGGTGTGGGCAGAAGAAAAAGCTAGTGATCAACAGTGGCAATGGAGCTGTGGAGGACAGAAAAGCCAA
GTGGACTCAACGGAGAGGCCAGCAAGTCTCAGGAAATGGTGCAATTTGGTGAACAAGGAGTCGTGAGAACTCCAG
ACCAGTTTATGACAGCTGATGAGACAAGGAACCTGCAGAATGTGGACATGAAGATTGGGGTGTAAACACCTACACC
ATTATCTTGGAAAGAAACAACCGTTGGAAACATAACCATTAACAGGGAGCTGGGACACTTAACAGATGCAATGTGC
TACTGATTGTTTCATTGCGAATCTTTTTTAGCATAAAAATTTCTACTCTTTTTGTTTTTGTGTTTTGTTCTTTA
AAGTCAGGTCCAATTTGTAAAAACAGCATTGCTTTCTGAAATTAGGGCCCAATTAATAATCAGCAAGAATTTGAT
CGTTCCAGTTCCTACTTGGAGGCCTTTTCATCCCTCGGGTGTGCTATGGATGGCTTCTAACAAAAACTACACATAT
GTATTCTGATCGCCAACCTTTCCCCCACCAGCTAAGGACATTTCCAGGGTTAATAGGGCCTGGTCCCTGGGAG
GAAATTTGAATGGGTCCATTTTGCCCTTCATAGCCTAATCCCTGGGCATTGCTTTCCACTGAGGTTGGGGGTTG
GGGTGTACTAGTTACATCTTCAACAGACCCCTCTAGAAATTTTTAGATGCTTCTGGGAGACACCCAAAGGG
TGAAGCTATTTATCTGTAGTAACTATTTATCTGTGTTTTTGAATATTAAACCTGGATCAGTCCTTTGATCAG
TATAATTTTTTAAAGTTACTTTGTGTCAGAGGCACAAAAGGGTTTAAACTGATTCATAATAAATATCTGTACTTCTT
CGATCTTC

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FIGURE 3188

ACTTGAGGGAGTAGGGGGCCGGGTTTGGGCCCTCAGTTGCTAAGGGCTACCCGAGTGGGAAGCGGTTCAAGAGAT
GGGGTGAAGGGTGGTTTACCCGGTTCTTCAAGTCCTCAGCCTTCTGGCCCGCGGAAGTTAAGCAACCAAGAGGCGG
GCCTAAGACCGGAAGCAGGAAGGAGGGCGCAGGAAGCAGGGCGCCGCAGCCTGTCGTACGGTCCTTCTGTGGGTC
TGTCGGTGCCGAGGGCAGG**ATGG**GAGAAGCTGCGGCTCCTGGGCCTCCGCTACCAGGAGTACGTGACTCGTCACCC
GGCCGCCACGGCCCAGCTGGAGACAGCAGTGCGGGGCTTCAGTTACCTGCTGGCAGGTTCGATTGCGCGATTTCGA
CGAGCTGTCAGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCT
TCGGA AAAAGTTGCCTGTGTGCTGTCCCAGCAGAAGCTGCTGACATGGCTGAGCGTGCTGGAGTGCGTGAGGTT
GTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTTCATCGCCCTCATCCAGCTGGC
CAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCTATCGTTCCACT
GGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGCAGTCTACGTGGGGAA
GCGGTCAAACCGGGTGGTGCGAACCCTCCAGAACACGCCGTCCCTGCACTCCAGGCACTGGGGAGCTCCCCAGCA
GCGGGAGGGACGGCAGCAGCAGCATCACGAGGAGCTGAGTGCGACCCCCACCCCCCTGGGGCTGCAGGAGACCAT
CGCAGAGTTTTTGTACATTGCCCGGCCGCTGCTGCACTTGCTCAGCCTGGGCCTGTGGGGTCAGAGGTCGTGGAA
ACCCTGGCTCTTGGCTGGTGTGTGGACGTGACCAGCCTGAGCCTCCTGAGTGACAGAAAGGGCCTGACCCGGAG
GGAGCGGCGGGAGCTGCGGCGCCGGACCATCCTGCTGCTCTACTACCTGCTGCGCTCTCCTTTCTACGACCGCTT
CTCCGAGGCCAGGATCCTCTTCCTGCTCCAGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCACAACGTC
CCAGCGTGCGGCCTCTCCGTGCCTACCGGCCAGGCCCCACACACAGCCCTGGTCGCCACCAGCGTTCTCCAGG
ACACCCT**TGA**CTGCGCTCTCCTGTGACGATGCCACTGCAGCCCGCACCTTGTCAGTCTGGGCCAAGAAGCCTTC
ACTAGGAGTGGGATCCAGGCTCCTCTCCACAGAAAGCGGTGACTTCACCTCATGGAGCCCGGAAGCTGCTTGC
CTCGGCAGCCATAGGAGCGAACACTGCTGCTCTCTCGCTGGCCCCCTGGTGAGGACAGGAAGCCTGAACCCGGGTG
ATGGCTGAACGCTGCCCAGCGTGTCTTCTGGCTGGGGCCCTCCGTCTGCCCTTCTCCGCAGGGCCCTGTGGCTC
TGGCAGCCCCAGGCCATGGCGTTGCCAGCCTCCCTGTGACAGAGCCTGGTGAACAGTGAGCCTGGCTCCACGCA
AGTGGCACTTTAAGCCCTGCATCCTCGGTTGAGAGTAAAAGGCTTTTCTCCCTTAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 3189

MEKLRLILGLRYQEYVTRHPAATAQLETAVRGFSYLLAGRFADSHSELVYSASNLLVLLNDGILRKELRKKLPV
SLSQQKLLTWLSVLECEVEFMEMGAAKVWGEVGRWLVIQALAKAVLRMLLLLWFKAGLQTSPPIVPLDRETQA
QPPDGDHSPGNHEQSYVGKRSNRVVRTLQNTPSLHSRHWGAPQQREGRQQQHHEELSATPTPLGLQETIAEFLYI
ARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRRTILLYYLLRSEFYDRFSEARIL
FLLQLLADHVPGVGLVTTSQRAASPCLPARPHTQPWSPPAFLPGHP

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FIGURE 3190

ACTTGAGGGAGTAGGGGGCCGGGTTTGGGCCCTCAGTTGCTAAGGGCTACCCGAGTGGGAAGCGGTTCAAGAGAT
GGGGTGAAGGGTGGTTTACCGGTTCTTCAAGTCCTCAGCCTTCTGGCCCGCGGAAGTTAAGCAACCAAGAGGCGG
GCCTAAGACCGGAAGCAGGAAGGAGGGGCGCAGGAAGCAGGGCGCCGCAGCCTGTCGTACGGTCCCTTCTGTGGGTC
TGTCGGTGCCGAGGGCAGG**ATG**GAGAAGCTGCGGCTCCTGGGCCTCCGCTACCAGGAGTACGTGACTCGTCAACC
GGCCGCCACGGCCCAGCTGGAGACAGCAGTGCGGGGCTTCAGTTACCTGCTGGCAGGTCGATTGCGCGATTTCGCA
CGAGCTGTCAGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCT
TCGGA AAAAGTTGCCTGTGTGCTGTCCCAGCAGAAGCTGCTGACATGGCTGAGCGTGCTGGAGTGCGTGAGGTT
GTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTCATCGCCCTCATCCAGCTGGC
CAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCTATCGTTCCACT
GGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGCAGTCCCTACGTGGGGAA
GCGGTCAAACCGGGTGGTGCGAACCCCTCCAGAACACGCCGTCCCTGCACTCCAGGCACTGGGGAGCTCCCCAGCA
GCGGGAGGGACGGCAGCAGCAGCATCACGAGGAGCTGAGTGCGACCCCCACCCCTGGGGCTGCAGGAGACCAT
CGCAGAGTTTTTGTACATTGCCCGGCCGCTGCTGCACTTGCTCAGCCTGGGCCTGTGGGGTCAGAGGTCGTGGAA
ACCTTGCTCTTGCTGGTGTGTGGACGTGACCAGCCTGAGCCTCCTGAGTGACAGAAAGGGCCTGACCCGGAG
GGAGCGGCGGGAGCTGCGGCGCCGACCATCCTGCTGCTCTACTACCTGCTGCGCTCTCCTTTCTACGACCGCTT
CTCCGAGGCCAGGATCCTCTCCTGCTCCAGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCACAAGGCC
GCTCATGGATTACTTGCCACCTGGCAGAAAATCTACTTCTACAGTTGGGGCT**TGA**CAGACCTCCCGGAAGGAGGG
TGTGGGGAGGGGTGGGGCAGGGAGCCCCTCTCCCTAATAAACTGACTCCGGCAGCGTCAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 3191

MEKLRLGLRYQEYVTRHPAATAQLETAVRGFSYLLAGRFADSHSELVYSASNLLVLLNDGILRKELRKKLPV
SLSQQKLLTWLSVLECEVFMEMGAAKVWGEVGRWLVIQLAKAVLRMLLLLWFKAGLQTSPPIVPLDRETQA
QPPDGDHSPGNHEQSYVGKRSNRVVRTLQNTPSLHSRHWGAPQQREGQQHHEELSATPTPLGLQETIAEFLYI
ARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRRERRELRRRTILLYYLLRSPFYDRFSEARIL
FLLQLLADHVPGLVTRPLMDYLPWQKIYFYSWG

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FIGURE 3192

AAGAAAAATTCAAAGTGGAGACAAGAACCATTGCTGTTGACTTTGCATCAGAAGATATTTATGATAAAATTAAAA
CAGGCTTGGCTGGTCTTGAAATCGGCATCTTAGTGAACAACGTGGGAATGTCGTATGAGTATCCTGAATACTTTT
TGGATGTTCTTGACTTGGACAATGTGATCAAGAAAATGATAAATATTAATATTCTTTCTGTTTGTAAGATGACAC
AATTGGTACTGCCTGGCATGGTGGAAAGATCCAAAGGGGCTATTCTGAACATTTTCATCTGGCAGTGGCATGCTCC
CTGTCCCACTCTTGACCATCTATTCTGCAACCAAGACTTTTGTAGATTTCTTCTCTCAGTGCCTCCATGAGGAGT
ATAGGAGCAAGGGCGTCTTTGTGCAGAGTGTCTGCCATACTTCGTAGCTACAAAACCTGGCTAAAAATCCGGAAGC
CAACTTTGGATAAGCCCTCTCCGGAGACGTTTGTGAAGTCTGCAATTAACAGTCCGGCTGCAATCCCGAACCA
ATGGATACCTGATCCATGCTCTTATGGGCTCGATAATCTCAAACCTGCCTTCTTGGATTTATTTGAAAATAGTCA
TGAATATGAACAAGTCTACACGGGCTCACTATCTGAAGAAAACCAAGAAGAACTAAGCATTGATAACTGCATTGT
AACTTGGCCAGATGCTCCAGCATATGCACGTTCACTGCAAAGCACCCCTACTGGTTTTGAAAATCTGACCTTGTCA
TTTCAATAGTTTATTAACATGACTAAATATTATCTTAATTAAGAGGAAAATAGAAGTTGCTTTTAGGGGTTTCTGA
CATATATTCTGGATACTATCCGAGGTAATTTTGAAGTTTAAATATAAATGCTCATATCAAATGAATATAGAACTAA
TATTGTCCGGAACACCTAATAGAAAGGAATACTATTATAGCAAATCACAGAATGATAGACTCAAGCATAAACTT
GGCAGTTTTATCTGCTTCAAATGCCATTGATCATTATTCCTGTATTTTCTCTGAAACTGATTATAAAAAACCAAT
GTCCAGCTACTCTTTTTGTTTTTGACACTTGAAGAAATGGAGATCGATTTGATTTGTTTATAAGCAGACACACTGC
AATTTACAAAGATCTCTTTACGGTTTTATAAAATTATCTTCCAGTTTGTACATTTATATGGAATTGTTCTTTATC
AAGGGTAGCTAATGACATGAAATAATTGTGAAATATGGAATTATTTCTGACACATGAAGCCCACTAAACTATGC
TTTCTTATAATGCATATTTCTTCTCAGTTTAAATGTATGTAAATATCGAAGCTATATGGTATGATTTATAAAGAT
AAATGGGCCAAAGTGTACATTGAGACTGGCAGCCATCTATGGTACCCTGAAACCCTGACCCAGAAAAGTGGCTT
GCTTGGACACCCAGCTGCCTTTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCCTATA
AAAGTAATGACTTCATAGAAATGGCATTATAATTTTTAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGT
TTTAATAAAACATGCTGCAACCATGGTATACAACAAAAATACATTTCTTTGGTGATTGAAATTAAGGCCGTATTT
ACAATGACTTAATATAAGACTGACTTTTATCCTGCTTCATAACTTGTATGGAGAACTACCAAGAAAGAATTCAA
TACTGTGAAATATGCAGCAAGAAGATTGGTCTTTACCTAGGCTGTGTTTCCTAAGCTCTGAGTTTTTCAGCACCAG
TAGATTTGTATTAAAAGAAAAAAAATGGGGCCTTAGCTTCTGGCTTTTAAATTTTGCCAGCTAAGGACATAAAAC
AAAAATAAACAAACAAAAACAAATAGCCATCTGCTATCAGCATCATTATGTAAAAGAAAATATATTTTAGCCCT
AAAATTAGGAAGAATGTAATCTCAGAATAAAGGTTGTCATTTAAGTTGAATAAATATATAGCTTTATGAAAAACA
C

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FIGURE 3193

CCCCGCCCCTTTGCCAGCGCTCAGGCAGGAGCTCTGGACTGGGCGCGCCGCCGCCCTGGAGTGAGGGAAGCCCAG
TGGAAGGGGGTCCCGGGAGCCGGCTGCGATGGACGCCGTCTTGGAACCCCTTCCCGGCCGACAGGCTGTTCCCGG
ATCCAGCTTCTTGACTTGGGGGATCTGAACGAGTCGGAATTCCTCAACAATGCGCACTTTCCTGAGCACCTGGA
CCACTTTACGGAGAACATGGAGGACTTCTCCAATGACCTGTTTCAGCAGCTTCTTTGATGACCCTGTGCTGGATGA
GAAGAGCCCTCTATTGGACATGGAACCTGGACTCCCCCTACGCCAGGCATCCAGGCGGAGCACAGCTACTCCCTGAG
CGGCGACTCAGCGCCCCAGAGCCCCCTTGTGCCCATCAAGATGGAGGACACCACCCAAGATGCAGAGCATGGAGC
ATGGGCGCTGGGACACAAACTGTGCTCCATCATGGTGAAGCAGGAGCAGAGCCCCGGAGCTGCCCCGTGGACCCTCT
GGCTGCCCCCTCGGGCCATGGCTGCCGCGGCCGCCATGGCCACCAGCCCCGCTGCTGGGCCTCAGCCCCCTTGTCC
AGGCTGCCCATCCCCACCAGGCCCCGGGAGAGATGACTCAGCTGCCAGTGATCAAAGCAGAGCCTCTGGAGGTG
AACCAGTTCCTCAAAGTGACACCGGAGGACCTGGTGCAGATGCCTCCGACGCCCCCAGCAGCCATGGCAGTGAC
AGCGACGGCTCCCAGAGTCCCCGCTCTCTGCCCCCTCCAGCCCTGTCAGGCCCCATGGCGCGCTCCTCCACGGCC
ATCTCCACCTCCCCACTCCTCACTGCCCCCTACAAATTACAGGGGACATCAGGGCCACTGCTCCTGACAGAGGAG
GAGAAGCGGACCCTGATTGCTGAGGGCTACCCCATCCCCACAAACTCCCCCTACCAAAGCCGAGGAGAAGGCC
TTGAAGAGAGTCCGGAGGAAAATCAAGAACAAGATCTCAGCCCAGGAGAGCCGTCGTAAGAAGAAGGAGTATGTG
GAGTGTCTAGAAAAGAAGGTGGAGACATTTACATCTGAGAACAATGAACTGTGGAAGAAGGTGGAGACCCTGGAG
AATGCCAACAGGACCCTGCTCCAGCAGCTGCAGAACTCCAGACTCTGGTCACCAACAAGATCTCCAGACCTTAC
AAGATGGCCGCCACCCAGACTGGGACCTGCCTCATGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXX
XXXXXXXXXXXXXTGCCCTCCCGAAGCCTCCTATTCTACGATGACGGGGCAGGCTTATGGGAAGATGGCCGCAGC
ACCCTGCTGCCCATGGAGCCCCCAGATGGCTGGGAAATCAACCCCGGGGGGCCGGCAGAGCAGCGCCCCGGGAC
CACCTGCAGCATGATCACCTGGACAGCACCCACGAGACCACCAAGTACCTGAGTGAGGCCTGGCCTAAAGACGGT
GGAAACGGCACCAGCCCCGACTTCTCCCACTCCAAGGAGTGGTTCCACGACAGGGATCTGGGCCCCAACACCACC
ATCAAACCTCTCCTAGGCCATGCCAAGACCCAGGACATAGGACGGACCCCTGGTACCCAGAAGAGGAGTTCTTGCT
CACTAACCCGGATCCGCCTCGTGCCCCCTGCCTCCTGGAGCTTCCCATTCAGGAGAAAAAGGCTCCACTTCCCAGC
CCTTCCTTGCCCCTGACATTTGGACTCTTCCCTTGGGCGGACCACTCTGTTCTCATTCTCCTTCCCACCAACATC
CATCCGTCTTCTCAGACAAACCACTCACTGGGTACCCACCTCCTCTCTCATATGCCCAACACGACCACTGCCT
CCCTGCCCCCACACCTGCACCCAAACAGACACATCAACGCACCCCACTCACAGACACCCCTTACCCACCCCCAC
TGTACAGAGACCAAGAACAGAAATTGTTTGTAAATAATGAACCTTATTTTTTATTATTGCCAATCCCCTAAGATA
TTGTATTTTACAAATCTCCCTCTTCCCTTCGCCCCCTCCCTTGTTTTATATTTTATGAAGTTAGTGCGGGCTTTC
TGCTCCCTGGCCCAGGAAAGAGGGACTCCCTGACCCTCACCTGGCACCCCCCTGCTGCTGCCCAAGCCGCTGGGC
CTTTTTAATTGCCAACTGCTCTCTTCATCAGCTCAGCACATGCTTTAAGAAAGCAAACTAAAAAAAAAAAAA
AAAGAGGCAGCATC

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FIGURE 3194

TTTTCATTTAAATATTCTTCTTTTGCTTCTCTTAAGCAGAAGCTGGTCTCTGCTTTTCACCACCTGGAATCCCAG
TCCCAACAGCTGCTCTTCTAACCCTTCCGGCCTAATTGTGGAATAATCGTTTAAATCATTAAGAGACAGAATCTG
ATGTTGGTAGCTCTGACAGACCTCTCTAGCTTCTTTTCATAAGCCAGGGCTCTTGCCCAGCTCCTGCACACAGCCT
GCCAGTTCTCCATCTTAGCACAGTTCCACTTTTCCATAGTAGCCAGAAACATCTGGCTGAAGACAAACAGTTACA
AAGCAGAAGCCAAGGTGATGGGATCTGTTGTACATATGGGGCTGGCAGCTCAAGGAATGTGGTTCTCTGCTGAG
GAGATGTGGTAATCCAGTCAGCCCCCTGGCTGTCTGCCAAGGGTCTCAAGGCAGCTAGCCAGCAGCTGCATGCTT
GGTGA CTGGAGCTACTACTACTGCCAGGCTGCCTGGTGAACCTTTTTTGATTCTCAGTAGGTACCATCTGCCACC
AAGCACTAAGAAAGGGAGCTGAAGTACCTAGAAAAGTTCCCATTTGGGAAGTGTTTCTGTCAACCAAGAGACAGGA
TCAAGGCATCTCAACAAGGTTTAGGTCAACCAAGTGTCACCCAGTCTGACTTTAAACCCCCATGCTACAGAAAG
GTTTCTGGTTTTCCAGGTCTTGGTTGCCCTTACGTCCAAAGGCACCAGATCACTCAGCAAATGTCCCTGAATTC
AGTGATTGGTGGGAAGGGAAGACACCAGCTTTTTTGATAGCTGTGCTGTATCACCGTTTAAAGCAAGAAGTGAAT
TTTTGTCTGAGAACAGGGAGCAAGGGTTAATGGGACAGTACAGCATCTCCCTCTTGCACAGGTAAGTATAGGT
GGGTGTCTCCATCTCTAATGTCAAGCTCTGACCATAAAGGAATGCTTTAGTGGGTAATGGGCCTGTCTTAGAGCT
TTGCTACCCAGAATTCCCCTTCTGTCTGGTGTACCTCTTGGAATTCAGTGTGGTAATGTTTCAAGAGAGGCAAATG
TGTTGGGCCAACAGACATTCCCAGGAGAACATCCTCCAGAGCATTGATTTATTTTAAAGATGGCACTAAGTGACAT
CTCTCCCCAAGAGATGATCTCTGACACAATCCCATATGAAAACCTCTTCTGAAAATGAATTGCTAATTGCTATTAG
CCTTGATGCACCTTACTCTAAGCAGTTCTTCAGACTTCTGGATCAGTGCTTCTCAAACCTGTGGTTCTTGGACAAC
TACAGTAGAACTACATGGGTCTTATTAATAACAGATCCATTTTCAAGACCTAAAATCAGAATAAGAATGGGAGTC
AGAGGGACCCAGGATTAGTATTTTTTAAAAACAAGATTTCTTCATTTTAGGTGTCTGCCCTCAGCCTCCTCAGCAAG
GCAGAGTCAGTCTCAGGTCTACTTGCCATTGTGGTTTTGTGCATGGTGTCTTGATTCTTTGCTAATTATGTTGCA
GGCACAGTGGTGTGTTGTCTTCTGTTTCTTACCAAACCTCAGCTTTTTTGGCTGTCTGCGCCTCACCTCCCATCTTT
TCTAGGCTGTTGCTGCTTTCCAGGTTTCTCCCTTGAATAGCTGTATGTGCTGGAGTCTTTTCTTTATGTTGAATC
ATTTTAATTTTTGTCTTATTTCTAGGATCTAGGGTCTTTTGATCTTTCCCTTCTCTGTTTATCGTGCTAGTCC
TCCCAGTTTTAATGATGGGTAAGTCAGGAAAGTAAGACTGGGCACATATTTTCTCTCTCCCTTCCCAGTGTCCAT
TTGCGATTCTCCAGATTGGATATGCTACTCTCTATGACTCAGAATCTTATTTTCTGTCTGATTCCCTTCTGCTT
GAGCCAGAGAGGGCTTTTTGTAAATTTTTGTTTTGTTTTTAGGTTAAGCTTTTAGAGACTGCTGAGCTGAAGTTT
TGCTGAATTCTCAAACACTAACTGCCTGTGTTCCCTCTCGGCTTTTCAATTTCTAATTGGAACCAGGCACAGTA
TTGTAACAGAGAACTGCAATTAATTTCTAAAATAGTGGCAACTTGACAGTATAATAACTTTGGTTGTAACCA
GTGAAAGCATAATAACAAAAATACAAAATTACTGATGAAACCAGAAAGAGTCATATACCACATTCTTCCTTTAGT
TTGTATCTCAGTAAGTGCTGTGTTACTTAGGAATAGGGGCAGAAAGCCTGCAACTGGGCAGGGAGGTTTCAAGGACA
TGAGGACGAAGCTAGGGCATTTTGAGCTAGAAAGCAAGAATAAGGATTAGTGCTTTCAACACTGGAATTAACATG
GACCACCCCCCACCCTCCAATAAGTGGGGATTGTAGGCACATAAGTGGTTTAGTAAGAAGTGAAAAGGTTTTT
CTGTGGAGTTTCGAGTTCCATCGGCTCCCATCCGGGCTATCCTGCCACCTTAGCGGCTGCTCCTCCCAGGATGCG
GGCAGGGGGCCTCTCTCCCACTCCCCACACACCGATTTCTGAGTAGCGATAGGGGCTGGAGGCTTATTTTATGGG
GTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGGGAGAGGGGGAGGATGAAGCCAGTGCGTGGCGGAGACCTGC
CAGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAG
AAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCAACCTTCATGTCATGAAGGCCATG
CAGTCTCTCAAGTCCCAGGCTACGTGAAGGAACAGTTTGCCTGGAGACATTTCTACTGGTACCTTACCAATGAG
GGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCAGAGATTGTGCCTGCCATCCTACGCCGTAGCCGTCCA
GAGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGGGTGAGCGACCTGCGAGACTCACAAGAGGGGAAGCTGACAGA
GATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAA
TTCCAGTTTAGAGGCGGATTTGGTCTGGACGTGGTCAGCCACCTCAGTAAAAATTGGAGAGGATTCTTTTGCATT
GAATAAACTTATAGCCAAAAACCTT

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FIGURE 3195

AGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGA
AGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCATGAAGGCCATGC
AGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACATTCTACTGGTACCTTACCAATGAGG
GTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCAGAGATTGTGCCTGCCATCCTACGCCGTAGCCGTCCAG
AGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGGGTGAGCGACCTGCGAGACTCACAAGAGGGGAAGCTGACAGAG
ATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTCAGCAACCGAAT
TCCAGTTTAGAGGCGGATTTGGTCGTGGACGTGGTCAGCCACCTCAGTAAAATTGGAGAGGATTCTTTTGCATTG
AATAAACTTATAGCCAAAAAACCTTAAAAAA

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FIGURE 3196

GCGAAGCAGCGCGGGCAGCGAGATGCAGCACCGAGGCTTCCTCCTCCTCACCCCTCCTCGCCCTGCTGGCGCTCAC
CTCCGCGGTTCGCCAAAAGAAAGATAAGGTGAAGAAGGGCGGCCCGGGGAGCGAGTGCCTGAGTGGGCCTGGGG
GCCCTGCACCCCCAGCAGCAAGGATTGCGGCGTGGGTTTCCGCGAGGGCACCTGCGGGGGCCCAGACCCAGCGCAT
CCGGTGCAGGGTGCCCTGCAACTGGAAGAAGGAGTTTGGAGCCGACTGCAAGTACAAGTTTAAAAAATGGGGTGA
AGTGTGATGGGGGCACAGGCACCAAAGTCCGCCAAGGCACCCTGAAGAAGGCGCGCTACAATGCTCAGTGCCAGG
AGACCATCCGGGTCCCCCAGCCCTGCACCCCCAAGACCAAAGCAAAGGCCAAAGCCAAGAAAGGGAAGGGAAAGG
ACTAGACGCCAAGCCTGGATGCCAAGGAGCCCTGGTGTACATGGGGCCTGGCCCACGCCCTCCCTCTCCCAGG
CCCGAGATGTGACCCACCAGTGCCTTCTGTCTGCTCGTTAGCTTTAATCAATCATGCCCTGCCTTGTCCCTCTCA
CTCCCCAGCCCCACCCCTAAGTGCCCAAAGTGGGGAGGGACAAGGGATTCTGGGAAGCTTGAGCCTCCCCAAAG
CAATGTGAGTCCCAGAGCCCGCTTTTGTTCCTCCCCACAATTCCATTACTAAGAAACACATCAAATAAACTGACT
TTTTCCCCCAATAAAAGCTCTTCTTTTTTAATAT

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FIGURE 3197

GCGGCGCGGAGCGGGCGTGCTGAGCCCCGGCCGGCCCGGCATGGGCGTCTCCCGCGGGCCCTCCGCCGGCCG
GGGCTAGGGCCCG**ATG**GAGCCGCGGGACGGTAGCCCCGAGGCCCGGAGCAGCGACTCCGAGTCGGCTTCCGCCTC
GTCCAGCGGCTCCGAGCGCGACGCCGGTCCCGAGCCGGACAAGGCGCCGCGGGCGACTCAACAAGCGGCGCTTCCC
GGGGCTGCGGCTCTTCGGGACAGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCCCCCCCCCTCCGCCAC
CCCTGGGGCCCCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGACATATGG
GGAGCACATCTGGTTCGAGACCAACGTGTCCGGGGACTTCTGCTACGTTGGGGAGCAGTACTGTGTAGCCAGGAT
GCTGAAGTCAGTGTCTCGAAGAAAGTGCAGCAGCTGCAAGATTGTGGTGCACACGCCCTGCATCGAGCAGCTGGA
GAAGATAAAATTTCCGCTGTAAGCCGTCTTTCCGTGAATCAGGCTCCAGGAATGTCCGCGAGCCAACCTTTGTACG
GCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTCCGGCACTGTGGGAAGGGATTCCAGCAGAAGTTTAC
CTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGAAGCAGGCATACCACAGCAAGGTGTCCTGCTT
CATGCTGCAGCAGATCGAGGAGCCGTGCTCGCTGGGGGTCCACGCAGCCGTGGTTCATCCCGCCACCTGGATCCT
CCGCGCCCCGAGGCCCCAGAATACTCTGAAAGCAAGCAAGAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTCCAG
CAAGAAAGGGCCTGAGGAGGGCCGCTGGAGACCCTTCATCATCAGGCCCAACCCCTCCCGCTCATGAAGCCCT
GCTGGTGTGTTGTGAACCCCAAGAGTGGGGGCAACCAGGGTGCAAAGATCATCCAGTCTTTCTCTGGTATCTCAA
TCCCCGACAAGTCTTCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAACCT
GCGGATCCTGGCGTGCAGGGGCGACGGCACGGTGGGCTGGATCCTCTCCACCCTGGACCAGCTACGCCTGAAGCC
GCCACCCCTGTGTCATCCTGCCCCCTGGGTACTGGCAACGACTTGGCCCCGAACCTCAACTGGGGTGGGGGCTA
CACAGATGAGCCTGTGTCCAAGATCCTCTCCACGTGGAGGAGGGGAACGTGGTACAGCTGGACCGCTGGGACCT
CCACGCTGAGCCCAACCCCGAGGCAGGGCCTGAGGACCGAGATGAAGGCGCCACCGACCGGTTGCCCTGGATGT
CTTCAACAATACTTTCAGCCTGGGCTTTGACGCCCACGTACCCTGGAGTTCCACGAGTCTCGAGAGGCCAACCC
AGAGAAATTCACAGCCGCTTTTCGGAATAAGATGTTCTACGCCGGGACAGCTTTCTCTGACTTCCTGATGGGCAG
CTCCAAGGACCTGGCCAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGACTCCCAAGATCCAGGACCTGAA
ACCCAGTGTGTTGTTTTCTGAACATCCCCAGGTACTGTGCGGGCACCATGCCCTGGGGCCACCTGGGGAGCA
CCACGACTTTGAGCCCCAGCGCATGACGACGGCTACCTCGAGGTCAATTGGCTTCACCATGACGTCGTTGGCCGC
GCTGCAGGTGGGCGGACACGGCGAGCGGCTGACGCAGTGTGCGGAGGTGGTGTCTACCACATCCAAGGCCATCCC
GGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGCAGCCTCACGCATCCGCATCGCCCTGCGCAACCAGGCCACCAT
GGTGCAGAAGGCCAAGCGGCGGAGCGCCGCCCCCTGCACAGCGACCAGCAGCCGGTGCCAGAGCAGTTGCGCAT
CCAGGTGAGTGCAGTCAGCATGCACGACTATGAGGCCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCTCTGT
GCCGCTGGGCACTGTGGTGGTCCCAGGAGACAGTGACCTAGAGCTCTGCCGTGCCACATTGAGAGACTCCAGCA
GGAGCCCCGATGGTGTGAGGCAAGTCCCCGACATGCCAGAACTGTCCCCAAGTGGTGTCTTCTGGACGCCAC
CACTGCCAGCCGCTTCTACAGGATCGACCGAGCCAGGAGCACCTCAACTATGTGACTGAGATCGCACAGGATGA
GATTTATATCCTGGACCCCTGAGCTGCTGGGGGCATCGGCCCCGGCCTGACCTCCCAACCCCCACTTCCCCTCTCCC
CACCTCACCTGCTCACCCACGCCCCGGTCACTGCAAGGGGATGCTGCACCCCTCAAGGTGAAGAGCTGATTGA
GGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGGGGCGACCTCATGCACCGAGACGA
GCAGAGTCGCACGCTCCTGCACCACGCAGTCAGCACTGGCAGCAAGGATGTGGTCCGCTACCTGCTGGACCACGC
CCCCCAGAGATCCTTGATGCGGTGGAGGAAAACGGGGAGACCTGTTTGCACCAAGCAGCGGCCCTGGGCCAGCG
CACCATCTGCCACTACATCGTGGAGGCCGGGGCCTCGCTCATGAAGACAGACCAGCAGGGCGACACTCCCCGGCA
GCGGGCTGAGAAGGCTCAGGACACCGAGCTGGCCGCTACCTGGAGAACCAGGCAGCACTACCAGATGATCCAGCG
GGAGGACCAGGAGACGGCTGTG**TAG**CGGGCCGCCACGGGCAGCAGGAGGGACAATGCGGCCAGGGGACGAGCGC
CTTCCTTGCCACCTCACTGCCACATTCCAGTGGGACGGCCACGGGGGACCTAGGCCCCAGGGAAAGAGCCCCA
TGCCGCCCCCTAAGGAGCCGCCAGACCTAGGGCTGGACTCAGGAGCTGGGGGGGCTCACCTGTTCCCCTGAGG
ACCCCGCCGACCCGGAGGCTCACAGGGAACAAGACACGGCTGGGTGGATATGCCTTTGCCGGGGTTCTGGGGC
AGGGCGCTCCCTGGCCGCGAGCAGATGCCCTCCCAGGAGTGGAGGGGCTGGAGAGGGGGAGGCCTTCGGGAAGAGG
CTTCCTGGGGCCCCCTGGTCTTCGGCCGGGTCCCCAGCCCCCGCTCCTGCCCAACCCACCTCCTCCGGGCTTCT
CCCGGAAACTCAGCGCCTGCTGCACTTGCTGCTGCTTGCTTGCTTGCTTGCTTGCTTGCTTGCTTGCTTGCTTGCT
CCTGTCAATTTTCATCGCGGACTGTGCGGCTGGGGGTGGGGGGCGGGACTCTCACGGTGACATGTTTACAGCTGGG
TGTGACTCAGTAAAGTGGATTTTTTTTTTCTTTAAAAAAA

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FIGURE 3198

MEPRDGSPEARSSDSESASASSSGSERDAGPEPDKAPRRLNKRRFPGLRRLFGRKAITKSGLQHLAPPPPTPGAP
CSESERQIRSTVDWSESATYGEHIWFETNVSGDFCYVGEQYCVARMLKSVSRRKCAACKIVVHTPCIEQLEKINF
RCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAISCSWCKQAYHSKVSCFMLQQ
IEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRASFKRKSSKKGPEEGRWRPFIIRPTPSPLMKPLLVFV
NPKSGGNQGAKIIQSFLWYLNPRQVFDLSQGGPKEALEMYRKVHNLRLILACGGDGTVGWILSTLDQLRLKPPPPV
AILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEGNVVQLDRWDLHAEPNPEAGPEDRDEGATDRLPLDVFNNY
FSLGFDHVTLEFHEHREANPEKFNFRNKMFYAGTAFSDFLMGSSKDLAKHIRVVCDGMDLTPKIQDLKPQCV
VFLNIPRYCAGTMPWGHHPGEHHDFFPQRHDDGYLEVIGFTMTSLAALQVGHGGERLTQCREVVLTTSKAIPVQVD
GEPCKLAASRIALRNQATMVQKAKRRSAAPLHSDQQPVPEQLRIQVSRVSMHDYEALHYDKEQLKEASVPLGT
VVVPGDSDELCRAHIERLQQEPDGAGAKSPTCQKLSPKWCFLDATTASRFYRIDRAQEHNLNYVTEIAQDEIYIL
DPELLGASARPDLPPTPTSPSPSPTPRSLQGDAPPQGEELIEAAKRNDFFCKLQELHRAGGDLMHRDEQSRT
LLHHAVSTGSKDVVRYLLDHAPPEILDAVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQQGDTPRQRAEK
AQDTELAAYLENRQHYQMIQREDQETAV

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FIGURE 3199

CATCTGAGTAACATGGCGGCGGCGGCGGCTAGCCAGGCTGTGGTGGCGCGGGATCTTGGGGGCCTCGGCGCTGACC
AGGGGGACTGGGCGACCCTCCGTTCTGTTGCTGCCGGTGAGGCGGGAGAGCGCCGGGGCCGACACGCGCCCCACT
GTCAGACCACGGAATGATGTGGCCCACAAGCAGCTCTCAGCTTTTGGAGAGTATGTGGCTGAAATCTTGCCCAAG
TATGTCCAACAAGTTCAGGTGTCCTGCTTCAATGAGTTAGAGGTCTGTATCCATCCTGATGGCGTCATCCCAGTG
CTGACTTTCCTCAGGGATCACACCAATGCACAGTTCAAATCTCTGGTTGACTTGACAGCAGTGGACGTCCCAACT
CGGCAAAACCGTTTTGAGATTGTCTACAACCTGTTGTCTCTGCGCTTCAACTCACGGATCCGTGTGAAGACCTAC
ACAGATGAGCTGACGCCCATTGAGTCTGCTGTCTCTGTGTTCAAGGCAGCCAACTGGTATGAAAGGGAGATCTGG
GACATGTTTGGAGTCTTCTTTGCTAACCACCCTGATCTAAGAAGGATCCTGACAGATTATGGCTTCGAGGGACAT
CCTTTCCGGAAGACTTTTCTCTATCTGGCTATGTTGAGTTACGTTATGATGATGAAGTGAAGCGGGTGGTGGCA
GAGCCGGTGGAGTTGGCCCAAGAGTTCCGCAAAATTTGACCTGAACAGCCCCTGGGAGGCTTTCCCAGTCTATCGC
CAACCCCGGAGAGTCTCAAGCTTGAAGCCGGAGACAAGAAGCCTGATGCCAAGTAGCTCCAGGGAACGCATGTG
GATCCTAGACAGCGCCTTATCTATGATTGAGTGTCCGTGTAAATAAATTCCTACTTAGACTTAAAAAAAAAAAAA

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FIGURE 3200

MAAAVARLWWRGILGASALTRGTGRPSVLLLPVRRESAGADTRPTVRPRNDVAHKQLSAFGEYVAEILPKYVQQ
VQVSCFNELEVCIHPDGVIPVLTFLRDHTNAQFKSLVDLTAVDVPTRQNRFEIVYNLLSLRFNSRIRVKTYTDEL
TPIESAVSVFKAANWYEREIWDMGVFFANHPDLRRILTDYGFEGHPFRKDFPLSGYVELRYDDEVKRVVAEPVE
LAQEFRKFDLNSPWEAFPVYRQPPESLKEAGDKKPKDAK

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FIGURE 3201

GATTCGCTGCTCCGCAGCACGGCCGGAGCTGGTCGGGTCAAGAGTCGGGATTTGTGGGGAGAGGTTTTCCACTGG
TCAAGAGAAGGCTTTAAGAAAGACGGTATTAATCTCCCGTTGCGGCTCCCGCCTGGTCCCATCTTCTGCCCCGCTC
CTCCAGGAAATGAATCTGCTGCCGAATATTGAGAGTCCAGTGA CTGCGCAGGAGAAGATGGCGACCGTGTGGGAT
GAGGCCGAGCAAGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCACACGGCTG
CTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTTGAGAGTCACCCATGAGCTCCAAGCCATGAAGGACAAG
ATAAAAGAGAACAGTGAGAAAATCAAAGTGAACAAGACCCTGCCGTACCTTGTCTCCAACGTCATCGAGCTCCTG
GATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAATATTGACCTGGACTCCCAGAGGAAGGGCAAGTGTGCT
GTGATCAAAACCTCTACACGACAGACGTACTTCCTTCCTGTGATTGGGTTGGTGGATGCTGAAAAGCTAAAGCCA
GGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGCTGCCCACAGAGTATGACTCGCGGGTG
AAGGCCATGGAGGTAGACGAGAGGCCCCACGGAGCAATACAGTGACATTGGGGGTTTGGACAAGCAGATCCAGGAG
CTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGAACTTGGGGATCCAACCTCCAAAAGGG
GTGCTGATGTATGGGCCCCCAGGGACGGGGAAGACCCTCCTGGCCCCGGCCTGTGCCGCACAGACTAAGGCCACC
TTCTTAAAGCTGGCTGGCCCCCAGCTGGTGCAGATGTTTATTGGAGATGGTGCCAAGCTAGTCCGGGATGCCTTT
GCCCTGGCCAAGGAGAAAGCGCCCTCTATCATCTTCATTGATGAGTTGGATGCCATCGGCACCAAGCGCTTTGAC
AGTGAGAAGGCTGGGGACCGGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGATGGCTTCCAGCCC
AACACCCAAGTTAAGGTAATTGCAGCCACAAACAGGGTGGACATCCTGGACCCCGCCCTCCTCCGCTCGGGCCGC
CTTGACCGCAAGATAGAGTTCCCGATGCCCAATGAGGAGGCCCGGGCCAGAATCATGCAGATCCACTCCCGAAAG
ATGAATGTCAGTCCTGACGTGAACTACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCCAGTGCAAG
GCTGTGTGTGTGGAGGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCCACGAGGACTACATGGAA
GGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTACAATACTACGCCTAGGGCACACAGGCCAGCCCCAGT
CTCACGGCTGAAGTGCGCAATAAAAGATGGTTTAGGGTCCCTGCC

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FIGURE 3202

GGGGCCGCCCGGATCGCCGCCGCCGCCGCCGCACGTACGTGGC**ATG**CCTGGATGTCCCTGCCCTGGCTGTGGCAT
GGCGGGCCCAAGGCTCCTCTTCTCACTGCCCTTGCCCTGGAGCTCTTGAAAGGGCTGGGGGTCCCAGCCGGC
CCTCCGGAGCCGGGGGACTGCGACGGCCTGTCGCCTGGACAACAAGGAAAGCGAGTCCTGGGGGGCTCTGCTGAG
CGGAGAGCGGCTGGACACCTGGATCTGCTCCCTCCTGGGTTCCCTCATGGTGGGGCTCAGTGGGGTCTTCCCGTT
GCTTGTCAATCCCCTAGAGATGGGGACCATGCTGCGCTCAGAAGCTGGGGCCTGGCGCCTGAAGCAGCTGCTCAG
CTTCGCCCTGGGGGACTCTTGGGCAATGTGTTTCTGCATCTGCTGCCCAGCCTGGGCCTACACGTGCAGCGC
CAGCCCTGGTGGTGAGGGGCAGAGCCTGCAGCAGCAGCAACAGCTGGGGCTGTGGGTCAATTGCTGGCATCCTGAC
CTTCCTGGCGTTGGAGAAGATGTTCTGGACAGCAAGGAGGAGGGGACCAGCCAGGCCCCCAACAAAGACCCAC
TGCTGCTGCCGCCGCGCTCAATGGAGGCCACTGCTGGCCCAGCCGGCTGCAGAGCCCCGGCCTCGGTGCCGTGGT
CCGGAGCATCAAAGTCAGCGGCTACCTCAACCTGCTGGCCAACACCATCGATAACTTCACCCACGGGCTGGCTGT
GGCTGCCAGCTTCCTTGTGAGCAAGAAGATCGGGCTCCTGACAACCATGGCCATCCTCCTGCATGAGATCCCCA
TGAGGTGGGCGACTTTGCCATCCTGCTCCGGGCCGGCTTTGACCGATGGAGCGCAGCCAAGCTGCAACTCTCAAC
AGCGCTGGGGGGCCTACTGGGCGCTGGCTTCGCCATCTGTACCCAGTCCCCAAGGGAGTAGTTGGGTGTTCTCC
CGCTGCAGAGGAGACGGCAGCCTGGGTCTGCCCTTCACCTCTGGCGGCTTTCTCTACATCGCCTTGGTGAACGT
GCTCCCTGACCTCTTGGAAGAAGAGGACCCGTGGCGCTCCCTGCAGCAGCTGCTTCTGCTCTGTGCGGGCATCGT
GGTAATGGTGTCTGTTCTCGCTCTTCGTGGAT**TAA**CTTCCCTGATGCCGACGCCCTGCCCTGCAGCAATAAG
ATGCTCGGATTCACTCTGTGACCGCATATGTGAGAGGCAGAGAGGGCGAGTGGCTGCGAGAGAGAATGAGCCTCC
CGCCAGACAGGAGGGAGGTGCGTGTGGATGTATGTGGTGTGCACATGTGGCCAGAGGTGTGTGCGCGAGACCGAC
ACTGTGATCCCTGTGCTGGGTCCGGGGCCAGTGTAGCGCCTGTCCCCAGCCATGCTGTGGTTACCTCTCCTTGC
CGCCCTGTCACCTTCACCTCCCGGAGTAAGCAGCGAGGAAGAGCAGCACTGGTCCCAAGCAGAGGCCTTGCCCTG
CTGGGACCCCGGGAGTGAGAGCAGCCCAAGGATCCAGGGTGCAGGGAACCTCCAGAGCTGCCACCTCCCCTGACC
CCCTCAGCACACACAGTCCCCAGGCGGCCTAGGGGCCAAGGCTGGGGCGGCTTTGGTCCCTTTTCTGGCCCT
TCCTTCCCCACTTCTAAGCCAAAGAAAGGAGAGGCAGGTGCTCCTGTACCCAGCCCCACTCAGCACTGACAGTC
CCCAGCTCCTAGTAGTGAGCTGGGAGGCGCTTCTAAGACCTTTTCTCAGGGCTGCCCTGGGAGCTCATTCCTG
GCCAACACGCCCTGGCAGCACCAGCAGCTCTTGCCACCTCCAGCTGCCAAACAGCAGCCTGCCGGGCAGGGAGCA
GCCCCAGGCCAGAGAGGCCTCCCGGTCCAGCTCAGGGATGCTCCTGCCAGCACAGGGGGCCAGGGACTCCTGGAGC
AGGCACATAGTGAGCCCGGGCAGCCCTGCCAGCTCAGGCCCCCTTCTTCCCCATTGAGGTTGGGGTAGGTGGG
GGCGGTGAGGGCTCCACGTTGTGAGCGCTCAGGAATGTGCTCCGGCAGAGTGCTGAAGCCATAATCCCCAACCAT
TTCCCTTGGCTGACGCCAGGTACTCAGCTGGCCCACTCCACAGCCAGGCCTGGCCCTGCCCTTACCGTGGATG
TTTTTCAGAAAGTGGCCATCGAGAGGTCTGGATGGTTTTATAGCAACTTTGCTGTGATTCCGTTTGTATCTGTAAAT
ATTTGTTCTATAGATAAGATACAAATAAATATTATCCACAT

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FIGURE 3203

MPGCPGCGMAGPRLFLTLALALELLERAGGSQPALRSRGTATACRLDNKESESWGALLSGERLDTWICSLGSL
LMVGLSGVFPLLVIPLMGTMLRSEAGAWRLKQLLSFALGGLLGNVFLHLLPEAWAYTCSASPGGEGQSLQQQQ
LGLWVIAGILTFLALEKMFLDSKEEGTSQAPNKDPTAAAAALNGGHCLAQPAAEPGLGAVVRSIKVSGYLNLLAN
TIDNFTHGLAVAASFLVSKKIGLLTTMAILLHEIPHEVGDFAILLRAGFDRWSAAKLQLSTALGGLLGAGFAICT
QSPKGVVGCSPAAEETAAWVLPFTSGGFLYIALVNVLPDLLEEEDPWRSLQQLLLLCAGIVVMVLFSLFVD

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FIGURE 3204

CAGTGCCTTGGTAATGACCAGGGCTCCAGAAAGAGATGTCCTTGTGGCTGGGGGCCCCCTGTGCCTGACATTCTC
CTGACTCTGCGGTGGAGCTGTGGAAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCCAGGGAGGCAGCAGCTGCA
TCCTCAGAGAGGAAGCCAGGATGCCCCACTCTGCTGGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCCA
CAGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGTCCACAAAAGCGGAAAAAGGGGCCAG
CCCCAAAATGCTGGGGAACGAGCTATGCAGCGTGTGTGGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGA
GCTGCGAGGGCTGCAAGGGATTCTTCCGCCGCAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCC
ACTGCCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTCGGCTTCGCAAATGCCGTCAGGCTGGCATGC
GGGAGGAGTGTGTCTGTGTCAGAAGAACAGATCCGCCTGAAGAACTGAAGCGGCAAGAGGAGGAACAGGCTCATG
CCACATCCTTGCCCCCAGGCGTTCTTCACCCCCCAAATCCTGCCCCAGCTCAGCCCCGGAACAACCTGGGCATGA
TCGAGAAGCTCGTCGCTGCCCAGCAACAGTGTAACCGGCGCTCCTTTTCTGACCGGCTTCGAGTCACGCCTTGGC
CCATGGCACCAGATCCCCATAGCCGGGAGGCCCGTTCAGCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCT
CTGTGCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCCTGCAGCTCAGCCGGGAGGACCAGATTGCCC
TGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTCGGAGGTACAACCTGGGAGTGAGAGTATCA
CCTTCCTCAAGGATTTAGTTATAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGGAATTCATCAACCCCA
TCTTCGAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTGCCTTGCTCATTGCTATCAGCA
TCTTCTCTGCAGACCGGCCCCAACGTGCAGGACCAGCTCCAGGTGGAGAGGCTGCAGCACACATATGTGGAAGCCC
TGCATGCCTACGTCTCCATCCACCATCCCCATGACCGACTGATGTTCCACGGATGCTAATGAAACTGGTGAGCC
TCCGGACCTGAGCAGCGTCCACTCAGAGCAAGTGTTTGCAGTTCGCTCTGCAGGACAAAAAGCTCCCACCGCTGC
TCTCTGAGATCTGGGATGTGCACGATGACTGTTCTGTCCCATATTTCTGTTTTCTTGGCCGGATGGCTGAGG
CCTGGTGGCTGCCTCCTAGAAGTGGAACAGACTGAGAAGGGCAAACATTCCTGGGAGCTGGGCAAGGAGATCCTC
CCGTGGCATTAAAAGAGAGTCAAAGGGT

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FIGURE 3205

MSLWLGAPVPDIPPDSAVELWKPGAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLEAAEPTALLTRAEPPE
PTEIRPQKRKKGPAPKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYICHSGGHCPMDTYMRRKC
QECRLRKCRQAGMREECVLSEEQIRLKKLKRQEEQAHATSLPPRRSSPPQILPQLSPEQLGMIEKLVAQQQCN
RRSFSDRLRVTPWPMAPDPHSREARQQRFAHFTELAIVSVQEIVDFAKQLPGFLQLSREDQIALKTS AIEVMLL
ETSRRYNPGSESITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLNDAEFALLIAISIFSADRPNVQDQ
LQVERLQHTYVEALHAYVSIHHPHDRLMFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPPLLSEIWDVHE

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FIGURE 3206

TTGCTGCATAGATTACAACGGTGATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGGCTCTCCTCCAGCTCCTTC
TCGGCGTGAACCTGGTGGTGATGCCGCCACCCGGGCCCCGGAGTCTGCGCTTCGTTACCTTGCTGTACCGCCATG
GAGACCGTTTACCAGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTTGGTCAGT
TAACCAAGGAGGGGATGCTACAGCACTGGGAAGTGGGCCAGGCCCTGCGGCAGCGCTATCACGGCTTCCTAAACA
CCTCTTATCACCGGCAAGAGGTTTATGTGCGAAGCACAGACTTTGACCGGACTCTCATGAGTGCTGAGGCCAACCC
TGGCTGGACTCTTCCCTCCCAACGGGATGCAGCGCTTCAACCCGAACATCTCGTGGCAGCCTATTCTGTGCACA
CTGTGCCCATCACTGAGGACAGGCTGCTGAAGTTCCCGTTGGGCCCCATGTCCCCGTTATGAGCAGCTGCAGAACG
AGACCCGGCAGACACCAGAGTATCAGAATGAGAGTTCTCGGAATGCACAATTTCTGGACATGGTGGCCAAACGAGA
CAGGGCTTACAGACCTGACACTGGAGACCGTCTGGAATGTCTATGACACACTCTTCTGTGAGCAAACGCACGGGC
TGCGCCTGCCGCCCTGGGCCTCACCCCAAACCATGCAGCGTCTCAGCCGGCTAAAGGACTTCAGCTTCCGCTTCC
TCTTCGGAATCTACCAGCAGGCGGAGAAGGCCCGGCTTCAGGGGGGAGTCTGCTGGCTCAGATAAGGAAGAACC
TGACCCTAATGGCGACCACCTCCCAGCTCCCCAAGCTGCTGGTTTACTCTGCGCACGACACTACCCCTGGTTGCC
TGCAATGGCACTGGATGTCTACAATGGTGAACAAGCCCCCTACGCCTCCTGCCACATATTTGAACTGTACCAGG
AAGATTCTGGGAATTTCTCAGTGGAGATGTACTTTTCGGAACGAGAGTGACAAGGCCCCCTGGCCGCTCAGCCTGC
CTGGCTGCCCTCACCGCTGCCCACTGCAGGACTTCCTTCGCCTCACAGAGCCCGTCGTGCCCAAGGATTGGCAGC
AGGAGTGCCAGCTGGCAAGCGGTCTGTCAGACACAGAGGTGATTGTGGCCTTGGCTGTATGTGGCTCCATCCTCT
TCCTCCTCATAGTGCTGCTCCTCACCGTCTCTTCCGGATGCAGGCCAGCCTCCTGGCTACCGCCACGTGCGAG
ATGGGGAGGACCACGCCTGACAACCCTCAGCCCCCTTCCCTCCACCTCCTAGGGGAGGTGGGCTGGGCCCTCGC
TCCTGACTGTTGCTGCTCCCCAGCCCATGGACAGGAGATCCTGGGTTGGGCCTCCCTCTGATGACCCAGCCAGA
TGAGCGAGTGGGGCTCAGCGTGGCCCATGGTGCCTGTCACTCAGCATTCCCATGCCTGATGTTTACCAAGTGCTG
TGTTGGACACTGGCTTTCTCCAAACAGGATTTGCCTCCTCCACGCTCCCTACACACCTGAGATGTAACTGGCAG
TCAGTGTTCACCTCAGGACCTAGGATTAGAAAATGGCAGAGTTGGTGTGATCCACCTTGCACTTCTATCAAGCC
CTGTTCTTTTTCTCCAGCCTGAAGTCTTCGGCAAATAGCTCAGAGGGACACGGTCTTGCCTCTCAGTGCTTATT
TTAGTGGGAAAAACAGCTAATACCAGGGGTACAAACATTGGCTCCCAAGGAACTGGATCACCCAAACAGCCAGCCA
GCCACATTTCCCTGTGTCTGGCTAGAGCCACCATTAGACTCAGACAGAATGCTTCAGGAATCGTTGTACCCCTT
CAACTGGAGCAGGACGGAAGGTTGTCTGTACTTGGGAGGGAGTGGGGAGTGGTGGGAAGGGAGTTGCTTGTACA
CGAATCAGGAACTGCTCTCCCTCAGCTGGGCTGGGGTCTCCAGGGACCTGAGCTACATGCAGGTTGTGAGCTGG
AAAAGAAAGTTCTAGACTGTGGCCCAGAATAGGGCTGGGGCAGCTCCAGAGAATGAATAGTGCTGTTTCCTATT
GGACTGATA

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FIGURE 3207

MAGKRSGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLLYRHGDRSPVKTYPKDPYQEEEWPPQFGQLTKEGMLQ
HWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPPNGMQRFNPNISWQPIPVHTVPITEDR
LLKFPLGPCPRYEQLQNETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWNVYDTLFCEQTHGLRLPPWAS
PQTMQRLSRLKDFSFRFLFGIYQQA EKARLQGGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVY
NGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASG
PADTEVIVALAVCGSILFLLIVL LLTVLFRMQAQPFGYRHVADGEDHA

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FIGURE 3208

GAGCTCCAAGCTGGTTTGAACAAGCCCTGGGCATGTTTGGCGGGAAGTTGGCTTAGCTCGGCTACCTGTGGCCCC
GCAGTTTTGTAGTCCCCGCCTTGTTTCTCCCCAGAGGCCTCTCAATCCTCCCTCCATGATCTTCGCATAGAGCAC
AGTACCCCTTCACACGGAGGACGCGATGGCTCCCAAGAAACGCCAGAAACCCAGAAGACCTCCGAGATTGTATT
ACGCCCCAGGAACAAGAGGAGCAGGAGTCCCCTGGAGCTGGAGCCCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTC
CGGTCCTAGCAGAAGATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCCCACAGATCCTGCCACCATGCCG
CAGCATCGTCAGGACCCTCCACCAGCATAAGCTGGGCAGAGCTTCCTGGCCATCTGTCCAGCAGGGGCTCCAGCA
GTCTTTTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT
GGCGTGGCACCCAACTCACCCAGCACCGTGGCTGTGGGTTCCAAAGGGGGAGATATCATGCTCTGGAATTTTGG
CATCAAGGACAAACCCACCTTCATCAAAGGGATTGGAGCTGGAGGGAGCATCACTGGGCTGAAGTTTAACCCCTCT
CAATACCAACCAGTTTTTACGCCTCCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAAAGGCAACATTCTACG
AGTTTTTGGCAGCTCAGACACCATCAACATCTGGTTTTTGTAGCCTGGATGTGTCTGCTAGTAGCCGAATGGTGGT
CACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCAAAGAGCTTTGGAATCTCAGAATGCACAA
AAAGAAAGTGACGCATGTGGCCCTGAACCCATGCTGTGATTGGTTTCTGGCCACAGCCTCCGTAGATCAAACAGT
GAAAATTTGGGACCTGCGCCAGGTTAGAGGGAAAGCCAGCTTCCTCTACTCGCTGCCGCACAGGCATCCTGTCAA
CGCAGCTTGTTTTAGTCCCGATGGAGCCCGGCTCCTGACCACGGACCAGAAGAGCGAGATCCGAGTTTACTCTGC
TTCCCAGTGGGACTGCCCCCTGGGCCTGATCCCGCACCCCTCACCGTCACTTCCAGCACCTCACACCCATCAAGGC
AGCCTGGCATCCTCGCTACAACCTCATTGTTGTGGGCCGATACCCAGATCCTAATTTCAAAAAGTTGTACCCCTTA
TGAATTGAGGACGATCGACGTGTTTCGATGGAACTCAGGGAAGATGATGTGTGCTAGCTCTATGACCCAGAATCTTC
TGGCATCAGTTCGCTTAATGAATTCAATCCCATGGGGGACACGCTGGCCTCTGCAATGGGTTACCACATTCTCAT
CTGGAGCCAGGAGGAAGCCAGGACACGGAAGTGAGAGACACTAAAGAAGGTGTGGGCCAGACAAGGCCTTGGAGC
CCACACATGGGATCAAGTCCTGCAAGCAGAGGTGGTGATTTGTTAAAGGGCCAAAAGTATCCAAGGTTAGGGTTG
GAGCAGGGGTGCTGGGACCTGGGGCACTGTGGGACTGGGACACTTTTATGTTAATGCTCTGGACTTGCCTCCAGA
GACTGCTCCAGAGTTGGTGACACAGCTGTCCCAAGGGCCCCTCTGTATCTAGCCTGGAACCAAGGTTATCTTGGA
ACTAAATGACTTTTCTCCTCTCAGTGGGTGGTAGCAGAGGGATCAAGCAGTTATTTGATTTGTGCTCTTTTGATA
TGGCCAATAAAACCATAACCG

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FIGURE 3209

MAPKKRPETQKTSEIVLRPRNKRSRSPLELEPEAKKLCAGSGPSRRCDSDCLWVGLAGPQILPPCRSIVRTLHQ
HKLGRASWPSVQQGLQQSFLHTLDSYRILQKAAPFDRRATSLAWHPHTPSTVAVGSKGGDIMLWNFGIKDKPTFI
KGIGAGGSITGLKFNPNTNQFYASSMEGTTRLQDFKGNILRVFASDITINIWFCSLDVSASSRMVVTGDNVGNV
ILLNMDGKELWNLRMHKKKVTHVALNPCCDWFLATASVDQTVKIWDLRQVRGKASFLYSLPHRHPVNAACFSPDG
ARLLTTDQKSEIRVYSASQWDCPLGLIPHRHFQHLTPIKAAWHPRYNLIVVGRYPDPNFKSCTPYELRTIDVF
DGNSGKMMCQLYDPESGSSLNENPMGDTLASAMGYHILIWSQEEARTRK

[illegible]

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FIGURE 3211

MAPEEDAGGEALGGSFWEAGNYRRTVQRVEDGHRLCGDLVSCFQERARIEKAYAQQQLADWARKWRGTVEKGPQYG
TLEKAWHAFFTAERLSALHLEVREKLQGQDSERVRAWQRGAFHRPVLGGFRESRAAEDGFRKAQKPWLKRLKEV
EASKKSYHAARKDEKTAQTRESHAKADSAVSQEQLRKLQERVERCAKEAEKTKAQYEQTLAELHRYTPRYMEDME
QAFETCQAAERQRLFFKDMLLTLHQHLDLSSSEKFHELHRDLHQGIEAASDEEDLRWWRSTHGPGMAMNWPQFE
EWSLDTQRTISRKEKGGRSPDEVTLTSIVPTRDGTAPPPQSPGSPGTGQDEEWSDEESPRKAATGVRVRALYDYA
GQEADELSFRAGEELLKMSEEDQGWQCQQLQSGRIGLYPANYVECVGA

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FIGURE 3212

TGGGAAGGAGAGAAAATGGCGGCGGAGCCGAACAAGACCGAAATCCAGACTCTTTTTTAAGAGGCTTCGCGCAGTT
CCAACCAACAAGGCCTGTTTCGACTGCGGCGCCAAGAATCCGAGTTGGGCCAGCATCACGTACGGTGTTTTCTTG
TGCATTGACTGTTCCGGGGTGCACCGCTCCCTGGGCGTCCATCTGAGCTTCATCAGGTCCACAGAGTTGGATTCC
AACTGGAAGTGGTTCCAGCTGAGGTGTATGCAGGTCGGCGGGAATGCCAATGCGACGGCTTTTTTTCGCCAACAT
GGATGCACAGCCAATGATGCCAACACCAAATATAATAGCCGAGCTGCCCAGATGTACCGGGAGAAGATCCGGCAG
CTGGGGAGTGCGGGCCCTGGCTAGGCATGGCACTGATCTTTGGATAGACAACATGAGTAGTGCCGTTCCCTAATCAC
TCCCCAGAGAAGAAGGACTCTGATTTCTTCACAGAACACACTCAACCCCTGCCTGGGATGCGCCAGCCACTGAG
CCTTCAGGGACCCAGCAGCCAGCCCCGTCTACAGAGAGCAGTGGCCTGGCACAGCCGGAGCATGGCCCCAACACA
GACCTGCTTGGCACCTCACCCAAAGCCTCACTGGAAGTAAAAGCTCCATCATTGGCAAGAAGAAGCCAGAGCTT
CAGTGAGATTGAGCGGCAGGCTCAGGTGGCAGAGAAGCTCCGTGAGCAGCAGGCAGCCGATGCCAAGAAGCAGGC
GGAGGAGTCCATGGTCGCCTCCATGCGTCTGGCCTACCAGGAGCTCCAGATTGATCGTAAGAAAGAGG

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FIGURE 3213

MAAEPNKTEIQTLFKRLRAVPTNKACFD CGAKNP SWASITYGVFLCIDCSGVHRS LGVHLSFIRSTELDSNWNWF
QLRCMQVGGNANATAFFRQHGCTANDANTKYNSRAAQMYREKIRQLGSAALARHGTDLWIDNMSSAVPNHSPEKK
DSDFFTEHTQPPAWDAPATEPSGTQQPAPSTESSGLAQPEHGPNTDLLGTSPKASLELKSSIIGKKKPAAAKKGL
GAKKGLGAQKVSSQSFS EIERQAQVAEKLREQQAADAKKQAEESMVASMLAYQELQIDRKKEEKKLQNLGKKR
EQAERLGMGLVSRSSVSHSVLSEMQVIEQETPVSAKSSRSQDLDFDDVGTFASGPPKYKDNPFSLGESFGSRWDT
DAAWGMDRVEEKEPEVTISSIRPISERATNRREVESRSSGLESSEARQKFAGAKAISSDMFFGREVDAEYEARSR
LQQLSGSSAISSSDLFGDMDGAHGAGSVSLGNVLP TADIAQFKQGKSVAGKMAVLANGVMNSLQDRYGSY

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FIGURE 3214

GAAAAAGGGGGTTTCGTTTACATGCTGTGAGATCACCGCAAACCTACCTCACTGTGTTGAAACGGGACAAATACA
ATAGAACGCATTGGGTGGTGTGTGTCTGATCCTGGGTTCTTGTCTCCCCTAAATGCTGCCCCCAAGTTACTGTA
TTTGTCTGGGCTTTGTAGGACTTCACTAAGTTGATTGCTAGGTGGCCTAGTTTGTGTAAATATAATGTATTGGTC
TTCCTCCGTGTTCTTTGGGGGTTTTGTTTACAAAGTTCCTTTTTGTATTGAGAGAAAAATAGCCAAAGCATCTTG
ACAGAAGTTTCTGCACCAGGCAAAAAGATCTGAAACATTAGTTTGGGGGGCCCGCTTCTTAAAGTGGGGATCTTG
AACCATCCTTTCTTTTGTATTCCCCCTTCCCCTATTACCTATTAGACCAGATCTTCTGTCTTAAAACTTGTCTTC
TACCCTGCCCTCTTTTCTGTTTACCCCCAAAAAGAAAACCTTACACACCCACACACATACACATTTAATGCTTGGAG
TGTCTCCACAACCTCTTAAATGATGTATGCAAAAATCCTGAAGCTAGGAAAACCCCTCCATCCCTTGTTCCCAACCT
CCTAAGTCAAGACCATTACCATTTCTTTCTTTTTTTGGTGGGGGGGGGGGGTGGATGGAGTCTCGCTCTGTCTGC
CCAGGCGGAGGTTGCAGTGAGCTGAGATCGCACCCTGCACTCCAGCCTGGTTACAGAGCAAGACCCTGTCTCGA
AAAAAAAAAAAAACAAAAAACAACAAAAAACCACACTACTGTATTTTGGATGGATCAAACCTACTTACTTTT
AATTTCTAATCCTAAAGTAAAGAGATGCAATTGGGGGCCTTCCATGTAGAAAGTGGGCTCAGGAGGCCAAGAAAG
GGAATATGAATGTATATCCAAGTCACTCAGGAACTTTTATGCAGGTGGTAGAACTTATGTCAAAGTGGCCACAA
GATTGTTTAATAGGAGATGAATGAATGTAACCTCATGTTTACTGCTAGAAACCAAAGCTTTGTGTAAAATCTTGA
ATTTATGGGGAGGGAGGGTAGGAAAGCCTGTACCTGTCTGTTTTTTTCTGATCCTTTTCCCTCATTCCTGAACT
GCAGGAGACTGAGCCCCTTTGGGCTTTGGTGACCCCATCACTGGGGTGTGTTTATTTGACGGTTGATTTTGCTGT
ACTGGGTACTTCCTTTCCCATTTTCTCATCATTTTTTAACACATGCTGACTCTTCCCTTCCCTTCTCCTTTCCCT
GGGAAAATACAATGAATAAATAAAGACTTACTGGTAC

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FIGURE 3215

GAATTCCGTACGGCTTCCGGTGGCGGGACGCGGGGCCGCGCACGCGGGAAAAGCTTCCCCGGTGTCCCCCATCC
CCCTCCCCGCGCCCCCCCCCGGTCCCCCAGCGCGCCACCTCTCGCGCCGGGGCCCTCGCGAGGGCCGCAGCCTG
AGGAGATTCCCAACCTGCTGAGCATCCGCACACCCACTCAGGAGTTGGGGCCCAGCTCCCAAGTTTACTTGGTTTC
CCTTGTGCAGCCTGGGGCTCTGCCCAGGCCACCACAGGCAGGGGTCGACATGGCAGAGACACTGGAGTTCAACGA
CGTCTATCAGGAGGTGAAAGGTTCCATGAATGATGGTCGACTGAGGTTGAGCCGTCAGGGCATCATCTTCAAGAA
TAGCAAGACAGGCAAAGTGGACAACATCCAGGCTGGGGAGTTAACAGAAGGTATCTGGCGCCGTGTTGCTCTGGG
CCATGGACTTAAACTGCTTACAAAGAATGGCCATGTCTACAAGTATGATGGCTTCCGAGAATCGGAGTTTGAGAA
ACTCTCTGATTTCTTCAAAACTCACTATCGCCTTGAGCTAATGGAGAAGGACCTTTGTGTGAAGGGCTGGAAGT
GGGGACAGTGAAATTTGGTGGGCAGCTGCTTTCTTTGACATTGGTGACCAGCCAGTCTTTGAGATACCCCTCAG
CAATGTGTCCAGTGCACCACAGGCAAGAATGAGGTGACACTGGAATTCCACCAAAACGATGACGCAGAGGTGTC
TCTCATGGAGGTGCGCTTCTACGTCCCACCCACCCAGGAGGATGGTGTGGACCCTGTTGAGGCCTTTGCCAGAA
TGTGTTGTCAAAGGCGGATGTAATCCAGGCCACGGGAGATGCCATCTGCATCTTCCGGGAGCTGCAGTGTCTGAC
TCCTCGTGGTCGTTATGACATTCGGATCTACCCACCTTTCTGCACCTGCATGGCAAGACCTTTGACTACAAGAT
CCCCTACCCACAGTACTGCGTCTGTTTTTGTACCCACAAGGACCAGCGCCAGATGTTCTTTGTGATCAGCCT
GGATCCCCCAATCAAGCAAGGCCAAACTCGCTACCCTTCTGATCCTCCTCTCTCCAAGGACGAGGACATTTCT
GTTGACTCTGAACATGAACGAGGAAGAAGTGGAGAAGCGCTTTGAGGGTCGGCTCACCAAGAACATGTCAGGATC
CCTCTATGAGATGGTCAGCCGGGTCATGAAAGCACTGGTAAACCGCAAGATCACAGTGCCAGGCAACTTCCAAGG
GCACTCAGGGGCCAGTGCATTACCTGTTCTTACAAGGCAAGCTCAGGACTGCTCTACCCGCTGGAGCGGGGCTT
CATCTACGTCCACAAGCCACCTGTGCACATCCGCTTCGATGAGATCTCCTTTGTCAACTTTGCTCGTGGTACCAC
TACTACTCGTTTCTTTGACTTTGAAATTGAGACCAAGCAGGGCACTCAGTATACCTTCAGCAGCATTGAGAGGGA
GGAGTACGGGAAACTGTTTGATTTTGTCAACGCGAAAAAGCTCAACATCAAAAACCGAGGATTGAAAGAGGGCAT
GAACCCAAGCTACGATGAATATGCTGACTCTGATGAGGACCAGCATGATGCCTACTTGGAGAGGATGAAGGAGGA
AGGCAAGATCCGGGAGGAGAATGCCAATGACAGCAGCGATGACTCAGGAGAAGAAAACCGATGAGTCATTCAACCC
AGGTGAAGAGGAGGAAGATGTGGCAGAGGAGTTTGACAGCAACGCCTCTGCCAGCTCCTCCAGTAATGAGGGTGA
CAGTGACCGGGATGAGAAGAAGCGGAAACAGCTCAAAAAGGCCAAGATGGCCAAGGACCGCAAGAGCCGCAAGAA
GCCTGTGGAGGTGAAGAAGGGCAAAGACCCCAATGCCCCCAAGAGGCCCATGTCTGCATACATGCTGTGGCTCAA
TGCCAGCCGAGAGAAGATCAAGTCAGACCATCCTGGCATCAGCATCACGGATCTTTCCAAGAAGGCAGGCGAGAT
CTGGAAGGGAATGTCCAAAGAGAAGAAAAGAGGAGTGGGATCGCAAGGCTGAGGATGCCAGGAGGGACTATGAAAA
AGCCATGAAAGAATATGAAGGGGGCCGAGGCGAGTCTTCTAAGAGGGACAAGTCAAAGAAGAAGAAGAAAGTAAA
GGTAAAGATGGAAAAGAAATCCACGCCCTCTAGGGGCTCATCATCCAAGTCGTCCTCAAGGCAGCTAAGCGAGAG
CTTCAAGAGCAAAGAGTTTGTGTCTAGTGATGAGAGCTCTTCGGGAGAGAACAAGAGCAAAAAGAAGAGGAGGAG
GAGCGAGGACTCTGAAGAAGAAGAACTAGCCAGTACTCCCCCAGCTCAGAGGACTCAGCGTCAGGATCCGATGA
GTAGAAACGGAGGAAGGTTCTCTTTGCGCTTGCCCTCTCACACCCCCGACTCCCCACCCATATTTTGGTACCAG
TTTCTCCTCATGAAATGCAGTCCCTGGATTCTGTGCCATCTGAACATGCTCTCCTGTTGGTGTGTATGTCACTAG
GGCAGTGGGGAGACGTCTTAACTCTGCTGCTTCCCAAGGATGGCTGTTTATAATTTGGGGAGAGATAGGGTGGGA
GGCAGGGCAATGCAGGATCCAAATCCTCATCTTACTTTCCCGACCTTAAGGATGTAGCTGCTGCTTGTCTGTTC
AAGTTGCTGGAGCAGGGGTGATGTGAGGCCAGGCCTGTAGCTCCTACCTGGGGCCTATTTCTACTTTTCATTTTGT
ATTTCTGGTCTGTGAAAATGATTTAATAAAGGGAACTGACTTTGGAAACCAAAAAAGGAATTC

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FIGURE 3216

MAETLEFNDVYQEVKGSMNDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGHGLKLLTKNGHVYKYD
GFRESEFEKLSDFFKTHYRLELMEKDLCVKGWNWGTVKFGGQLLSFDIGDQPVFEIPLSNVSQCTTGKNEVTLEF
HQNDDAEVSLMEVRFYVPPTQEDGVDPVEAFAQNVLSKADVIQATGDAICIFRELQCLTPRGRYDIRIYPTFLHL
HGKTFDYKIPYTTVLRLFLLP HKDQRQMFFVISLDPPIKQGQTRYHFLILLFSKDEDISLTLNMNEEEVEKRFEG
RLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQGHSGAQCTCSYKASSGLLYPLERGFYVHKPPVHIRFDEIS
FVNFARGTTTTTSFDFEIE TKQGTQYTFSSIEREEYGKLFDFVNAKKLNKRNRLKEGMNPSYDEYADSDQHD
AYLERMKEEGKIREENANDSSDDSGEETDESFNPGEEEEEDVAEEFDSNASASSSSNEGDSRDEKKRKQLKKAKM
AKDRKSRKKPV EVKKGKDPNAPKRPM SAYMLWLNASREKIKSDHPGISITDLSKKAGEIWKGMSKEKKEEWDKA
EDARRDYEKAMKEYEGGRGESSKRDKSKKKKKVKVMEKKSTPSRGSSSKSSSRQLSESFKSKEFVSSDESSSGE
NKSKKKRRRSEDSEEEELASTPPSSSEDSASGSDE

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FIGURE 3217

ATGGCCTCCACGAAGTTGATAATGCAGAGCTGGGGTCAGCCTCTGCCCATGGTACCCCAGGCAGTGAGGCGGGA
CCAGAAGAGCTGAATACTTCTGTCTACCAGCCCATAGATGGATCACCAGATTATCAGAAAGCAAATTACAAGTT
CTTGGGGCCATCCAGATCCTGAATGCAGCAATGATTCTGGCTTTGGGTGTCTTTCTGGGTTCCCTTGCAATACCCA
TACCACTTCCAAAAGCACTTCTTTTTCTTCACCTTCTACACAGGCTACCCGATTTGGGGTGCTGTGTTTTTCTGT
AGTTCAGGAACCTTGTCTGTTGTAGCAGGGATAAAACCCACAAGAACATGGATACAGAACAGTTTTGGAATGAAC
ATTGCCAGTGCTACAATTGCACTAGTGGGGACTGCTTTTCTCTCACTAAATATAGCAGTTAATATCCAGTCATTA
AGGAGTTGTCACTCTTCATCAGAGTCACCGGACCTATGCAATTACATGGGCTCCATATCAAATGGCATGGTGTCT
CTACTGCTGATTCTCACCTTGCTGGAATTATGCGTAACCATCTCTACCATAGCCATGTGGTGCAATGCAAACCTGC
TGTAATTCAAGAGAGGAAATTCCTCACCTCCCAATTCTGTGTAA

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FIGURE 3218

AGGTTTCGGCGGGGGCTGCACGTGCGCAGGGGTGTGGAACTTACCGGCTGAGCCATGGATACACCGTTAAGGCG
CAGCCGACGGCTGGGAGGCCTAAGGCCCGAATCCCCCGAGAGCCTCACCTCAGTTTCGCGGACGAGACGGGCCCT
TGTGGAGTTCGAGTCGAACCCAGAAGAAACGAGGGAGCCCGGTCTCCTCCGAGTGTGCAGCGGGCTGGCCTGGG
GTCCCCCGAAAGGCCGCCGAAGACAAGCCAGGATCACCCCGTCTGCAGCAGGGTGCAGGCTTGAGTCAACCCCA
AGGGCAGCCAGAGCCAGGCGCAGCGTCCCCCAGCGTCAGCAAGACCTACACCTGGAGTCGCCTCAAAGACAGCC
AGAGTACAGTCTGAATCCCCACGATGTCAGCCGAAGCCAAGTGAGGAGGCACCAAAGTGTTCAGGACCAGGG
AGTACTGGCCTCGGAGTTGGCCCAGAATAAGGAGGAGCTGACCCCGGGGGCCCCCAGCATCAGCTACCGCCGGT
CCCAGGATCACAGAGCCTTACCCCGGTGAGCAAGCTCCCGGTCCGGAGCCCTCTCAGCCACTACTGGAGCTGAC
ACCCAGGGCACCTGGCTCCCCCGGGGTGAGCATGAGCCGAGCAAGCCACCTCCAGCTGGGGAGACGGTGACAGG
CGGCTTCGGGGCAAAGAAGCGAAAAGGTTCTTCATCCAGGCCCCAGCGTCCAAGAAGTTGAATAAAGAGGAGCT
TCCTGTAATCCCGAAGGGGAAGCCCAAATCGGGGCGAGTGTGGAAGGACCGCTCCAAGAAAAGATTCTCCAGAT
GCTTCAGGACAAGCCCCCTGCGCACATCGTGGCAGCGGAAGATGAAGGAACGACAGGAGAGGAAGCTGGCCAAGGA
CTTTGCCCCTCACCTGGAGGAGGAGAAGGAGAGGCGCCGCCAGGAGAAGAAACAGCGCCGGGCTGAGAACCTGAA
ACGCCGCTGGAGAATGAGCGGAAGGCAGAGGTCTGTCGAAGTATCCGAAACCCCGCCAAGCTCAAGCGGGCAAA
GAAGAAGCAGCTGCGCTCCATTGAGAAGCGGGACACCCTGGCCCTGCTGCAGAAGCAGCCGCCCCAGCAGCCGGC
AGCCAAGATCTAGGCTCAGGACGGCCCCGAGGCCTTCCATGGCCAACGACCATGTCAGACACAGCACCTCAGGCCG
CTGCTCAGATGCCTCTGCTGGAGCTGGCACTCCAAACCCATGGCTCCAGAACGGGGACCCCCACCCGACCGGGG
CTCCTCGGCCCTTTGAAGGCTTCCAGGCAGGTCTGTGTGGGACAGAAGCCCAGAGGGGGCTGGGACCTGGCAGAG
ATGGGGGCGGGAAGAGATTGAGCTCCCATCCCTCCTTCTCCTTCTCCAAGTGCCTTCAAACCAAGAACTGTA
CATTCTTCTGGTTCTCCTCAGTGAGCTGGTGACTGGCAGGTGACTCCCTCAGCAGTGTATGCCCTTTCTCAGCATCC
TAGGTCCATCCCAGGCCTGGAGGCTGACAGTTGGGAATCCAGCTTCCCCCACACCTTCCCAAAGGCTGCTCTGAG
CACCTCCACACCCCACTGCCTCTGTCCCCAGCAAACTGAATCCGGTTCTCTCCACTTTTCAATACTGAAAGATT
AAAATGGGGAGGTTGCAGGGAGCAGAGCTTTTCCCTAGCACCCACTTTCCCAAACCAGTCTCTGCAGAAGCCCCA
GAGAATCTAACTCATGCCTGTCCAGTCTACAGCAAAAATATTTATTGAGTGCCTGTTGCATACAGGCACAATCCT
AGGCACCGGCAAAATACAGACAATAGACCAAAGTCCCTGCCCTCGAGGAGCTTTCATTCTGATGGAGAGAAAACAT
AATAACAAGCAAAATGCAAAAAAAAAAAAAAAAAA

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FIGURE 3219

MDTPLRRSRRLGGLRPESPELTSVSRTRRALVEFESNPEETREPGSPPSVQRAGLGSPERPPKTSPGSPRLQQG
AGLESPQGQPEPGAASPQRQDLHLESPQRQPEYSPESPRCQPKPSEEAPKCSQDQGVLAELAQNKEELTPGAP
QHQLPPVPGSPEPYPGQQAPGPEPSQPLLELTPRAPGSPRGQHEPSKPPAPAGETVTGGFGAKKRKGSSSQAPASK
KLNKEELPVIKPKPKSGRVWKDRSKKRFSQLQDKPLRTSWQRKMKERQERKLAKDFARHLEEEKERRRQEKKQ
RRAENLKRRLENERKAEVVQVIRNPAKLKRAKKQLRSIEKRDTLALLQKQPPQQAANKI

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FIGURE 3220

AATTCGGCACGAGGAGGTGCTGAAGGCTGTGGCGCGCGGCTGTCCCCATTCCCACGTGAAGCGCTACGCTAGCAT
CGCTCGGCTGGCGGCTCCCAGCTCGCCGCGGAGCAGTCCCGGCAGCAGCGGGGGACCGGAAGTGGCTCGCGGAGG
CTCAGAAGCTAGTCCCAGGAGCCCGGCGTGTGGCGCCTCGGAGCACGGTGACGGCGCCATGTCCCTAATCTGCTCC
ATCTCTAACGAAGTGCCGGAGCACCCATGTGTATCCCCTGTCTCTAATCATGTTTATGAGCGGCGGGCTCATCGAG
AAGTACATTGCGGAGAATGGTACCGACCCCCATCAACAACCAGCCTCTCTCCGAGGAGCAGCTCATCGACATCAAA
GTTGCTCACCCAATCCGGCCCAAGCCTCCCTCAGCCACCAGCATCCCGGCCATTCTGAAAGCTTTGCAGGATGAG
TGGGATGCAGTCATGCTGCACAGCTTCACTCTGCGCCAGCAGCTGCAGACAACCCGCCAAGAGCTGTCACACGCT
CTGTACCAGCACGATGCCGCTGCCGTGTCAATTGCCCGTCTCACCAAGGAAGTCACTGCTGCCCCGAGAAGCTCTG
GCTACCCTGAAACCACAGGCTGGCCTCATTGTGCCCCAGGCTGTGCCAAGTTCCCAACCAAGTGTGTGGGTGCG
GGTGAGCCAATGGATTTGGGTGAGCTGGTGGGAATGACCCAGAGATTATTCAGAAGCTTCAAGACAAAGCCACT
GTGCTAACCACGGAGCGCAAGAAGAGAGGGGAAGACTGTGCCTGAGGAGCTGGTGAAGCCAGAAGAGCTCAGCAAA
TACCGGCAGGTGGCATCCACGTGGGGTTGCACAGTGCCAGCATTCCTGGGATCCTGGCCCTGGACCTCTGCCCCG
TCCGACACCAACAAGATCCTCACTGGTGGGGCGGATAAAAATGTCGTTGTGTTTGACAAAAGTTCTGAACAAATC
CTGGCTACCCTCAAAGGCCATACCAAGAAGGTCACCAGCGTGGTGTTCACCCCTCCAGGACCTGGTGTTCCT
GCTTCCCCCGATGCCACTATCAGGATTTGGTCGGTCCCCAATGCCTCTTGTGTACAGGTGGTTCGGGCCCCATGAG
AGTGCTGTGACAGGCCTCAGCCTTCATGCCACTGGCGACTATCTCCTGAGCTCCTCCGATGATCAGTACTGGGCT
TTCTCTGACATCCAGACAGGGCGTGTGCTCACCAAGGTGACAGATGAGACCTCCGGCTGCTCTCTCACCTGTGCA
CAGTTCCACCCTGACGGACTCATCTTTGGAACAGGAACCATGGACTCTCAGATCAAGATCTGGGACTTGAAGGAA
CGTACTAATGTGGCCAACTTCCCTGGCCACTCGGGCCCCATCACTAGCATCGCCTTCTCTGAGAATGGTTACTAC
CTGGCTACAGCGGCTGATGACTCCTCTGTCAAGCTCTGGGATCTGCGCAAGCTTAAGAACTTTAAGACTTTGCAG
CTGGATAACAACCTTTGAGGTAAAGTCAGTGATCTTTGACCAGAGTGGTACCTACCTGGCTCTTGGGGGCACGGAT
GTCCAGATCTACATCTGCAAACAATGGACGGAGATTCTTCACTTTACAGAGCACAGTGCCCTGACCACAGGGGTG
GCCTTCGGGCATCACGCCAAGTTTCATCGCTTCAACAGGCATGGACAGAAGCCTCAAGTTCTACAGCCTGTAGGCC
CTGGCCCTTCTGATGGAAGCTGGGCCTCATCTCAGTAGAGGGGTAGAATTAGGGTTTGGGGGGGGGGTGGGGGGA
ATCTATGGGGGGAGGGGGCTCTGTGGGGTGGGACATTACATCATTTCCTCTGGTCTGAGTGGTGGCCTGAGAA
CCATGGTGGCATGGACCACCTCATCCATGCAACTCCAGGCCCCATGGGAACGGATGTGGAAGGAAGAACTGTCA
CCCTCTTAAGGCCAGGGTCGAGGCCAGGGCCTCTCCCTTCTGTCGTTCAATGGACGTGGTGGTGGCTGTTCC
ACACCCATTTTGTTCAGTTCCTGTGAGACAGGAGAGGCTGAGCCAAGGGAAGTGTGAAGGGGATGGGCAGGAGG
GCTTGTGCAGGGTTTTGTAAGCAGTGATCTAGTTTCATTAAAAAAGAAAACAATAACCATAACCAC

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FIGURE 3221

MSLICISISNEVPEHPCVSPVSNHVYERRLIEKYIAENGTDPINNQPLSEEQLIDIKVAHPIRPKPPSATSIPAIL
KALQDEWDAVMLHSFTLRQQLQTTTRQELSHALYQHDAACRVIARLTKEVTAAREALATLKPQAGLIVPQAVPSSQ
PSVVGAGEPMDLGELVGMTPEIIQKLQDKATVLTTERKKRGKTVPEELVKPEELSKYRQVASHVGLHSASIPGIL
ALDLCPSDTNKILTGGADKNVVVFDKSSEQILATLKGHTKKVTSVVFHPSQDLVFSASPDATIRIWSVPNASCVQ
VVRAHESAVTGLSLHATGDYLLSSSDQYWAFSDIQTGRVLTKVTDETSGCSLTCAQFHPDGLIFGTGTMDSQIK
IWDLKERTNVANFPGHSGPITSIAF'SENGYYLATAADDSSVKLWDLRKLKNFKTLQLDNNFEVKSLIFDQSGTYL
ALGGTDVQIYICKQWTEILHFTTEHSGLTGVAFGHHAKFIASTGMDRSLKFYSL

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FIGURE 3223A

CAGCGGCAGTGGAGTTCGCTGCGCGCTGTTGGGGGCCACCTGTCTTTTCGCTTGTGTCCCTCTTTCTAGTGTGCG
GCTCGAGTCCCGACGGGCGCTCCAAGCCTCGACATGTGCTACAACCTACGTGGTAACGGCCCAGAAGCCCACCGC
CGTGAACGGCTGCGTGACCGGACACTTTACTTCGGCCGAAGACTTAAACCTGTTGATTGCCAAAAACACGAGATT
AGAGATCTATGTGGTCACCGCCGAGGGGCTTCGGCCCGTCAAAGAGGTGGGCATGTATGGGAAGATTGCGGTCAT
GGAGCTTTTCAGGCCCAAGGGGGAGAGCAAGGACCTGCTGTTTATCTTGACAGCGAAGTACAATGCCTGCATCCT
GGAGTATAAACAGAGTGGCGAGAGCATTGACATCATTACGCGAGCCCCATGGCAATGTCCAGGACCGCATTGGCCG
CCCCTCAGAGACCGGCATTATTGGCATCATTGACCCTGAGTGCCGGATGATTGGCCTGCGTCTCTATGATGGCCT
TTTCAAGGTTATTCCACTAGATCGCGATAATAAAGAACTCAAGGCCTTCAACATCCGCCTGGAGGAGCTGCATGT
CATTGATGTCAAGTTCCCTATATGTTGCCAAGCACCTACTATTTGCTTTGTCTACCAGGACCCCTCAGGGGCGGCA
CGTAAAAACCTATGAGGTGTCTCTCCGAGAAAAGGAATTCAATAAGGGCCCTTGGAACAGGAAAATGTGCAAGC
TGAAGCTTCCATGGTGATCGCAGTCCCAGAGCCCTTTGGGGGGGCCATCATCATTGGACAGGAGTCAATCACCTA
TCACAATGGTGACAAATACCTGGCTATTGCCCCCTCCTATCATCAAGCAAAGCACGATTGTGTGCCACAATCGAGT
GGACCCTAATGGCTCAAGATACCTGCTGGGAGACATGGAAGGCCGGCTCTTCATGCTGCTTTTGGAGAAGGAGGA
ACAGATGGATGGCACCGTCACTCTCAAGGATCTCCGTGTAGAACTCCTTGAGAGACCTCTATTGCTGAGTGCTT
GACATACCTTGATAATGGTGTGTGTGTTGTCGGGTCTCGCCTGGGTGACTCCAGCTTGTGAAGCTCAACGTTGA
CAGTAATGAACAAGGCTCCTATGTAGIGGCCATGGAACCTTTACCAACTTAGGACCCATTGTGATATGTGCGT
GGTGGACCTGGAGAGGCAGGGGCAGGGGCAGCTGGTCACTTGCTCTGGGGCTTTCAAGGAAGGTTCTTTGCGGAT
CATCCGGAATGGAATTGGAATCCACGAGCATGCCAGCATTGACTTACCAGGCATCAAAGGATTATGGCCACTGCG
GTCTGACCCTAATCGTGAGACTGATGACACTTTGGTGCTCTCTTTTGTGGGCCAGACAAGAGTTCTCATGTTAAA
TGGAGAGGAGGTAGAAGAAACCGAACTGATGGGTTTTCGTGGATGATCAGCAGACTTTCTTCTGTGGCAACGTGGC
TCATCAGCAGCTTATCCAGATCACTTCAGCATCGGTGAGGTGGTCTCTCAAGAACCCAAAGCTCTGGTCAGTGAA
TGGAAAGGAGCCTCAGGCCAAGAACATCAGTGTGGCCTCCTGCAATAGCAGCCAGGTGGTGGTGGCTGTAGGCAGG
GCCCTCTACTATCTGCAGATCCATCCTCAGGAGCTCCGGCAGATCAGCCACACAGAGATGGAACATGAAGTGGCT
TGCTTGGACATCACCCCATTAGGAGACAGCAATGGACTGTCCCCTCTTTGTGCCATTGGCCTCTGGACGGACATC
TCGGCTCGTATCTTGAAAGTTGCCCTCTTTTGAAGTACTGCACAAGGAGATGCTGGGTGGAGAGATCATTCTCGC
TCCATCCTGATGACCACCTTTGAGAGTAGCCATTACCTCCTTTGTGCCCTTGGGAGATGGAGCGCTTTTCTACTTT
GGGCTCAACATTGAGACAGGTCTGTTGAGCGACCGTAAGAAGGTGACTTTGGGCACCCAGCCACCGTATTGAGG
ACTTTTCGTTCTCTTTCTACCACCAACGTCTTTGCTTGTCTTGACCGCCCCACTGTCATCTATAGCAGCAACCAC
AAATTGGTCTTCTCAAATGTCAACCTCAAGGAAGTGAACCTACATGTGTCCCTCAATTGAGATGGCTATCCTGAC
AGCCTGGCGCTGGCCAACAATAGCACCCCTCACCATTGGCACCATCGATGAGATCCAGAAGCTGCACATTTCGCACA
GTTCCCCCTCTATGAGTCTCCAAGGAAGATCTGCTACCAGGAAGTGTCCAGTGTTCGGGGTCTCTCCAGCCGC
ATTGAAGTCCAAGACACGAGTGGGGGCACGACAGCCTTGAGGCCCAGCGCTAGCACCCAGGCTCTGTCCAGCAGT
GTAAGCTCCAGCAAGCTGTTCTCCAGCAGCACTGCTCCTCATGAGACCTCCTTTGGAGAAGAGGTGGAGGTGCAC
AACCTACTTATCATTGACCAACACACCTTTGAAGTGCTTCATGCCCACCAGTTTCTGCAGAATGAATATGCCCTC
AGTCTGGTTTCCTGCAAGCTGGGCAAGACCCCAACACTTACTTCATTGTGGGCACAGCAATGGTGTATCCTGAA
GAGGCAGAGCCCCAAGCAGGGTCGCATTGTGGTCTTTTCACTATTCGGATGGAAAACCTACAGACTGTGGCTGAAAAG
GAAGTGAAAGGGGCCGTGTACTCTATGGTGGAAATTTAACGGGAAGCTGTTAGCCAGCATCAATAGCACGGTGCGG
CTCTATGAGTGGACAACAGAGAAGGAGCTGCGCACTGAGTGCAACCACTACAACAACATCATGGCCCTCTACCTG
AAGACCAAGGGCGACTTCATCCTGGTGGGCGACCTTATGCGCTCAGTGCTGCTGCTTGCTTGCCTACAAGCCCATGGAA
GGAAACTTTGAAGAGATTGCTCGAGACTTTAATCCCAACTGGATGAGTGCTGTGGAAATCTTGGATGATGACAA
TTTCTGGGGGCTGAAAATGCCCTTTAACTTGTTTGTGTGTCAAAAGGATAGCGCTGCCACCACTGACGAGGAGCGG
CAGCACCTCCAGGAGGTTGGTCTTTTCCACCTGGGCGAGTTTGTCATGTCTTTTGCCACGGCTCTCTGGTAATG
CAGAATCTGGGTGAGACTTCCACCCCAACACAAGGCTCGGTGCTCTTCGGCACGGTCAACGGCATGATAGGGCTG
GTGACCTCACTGTGAGAGAGCTGGTACAACCTCCTGCTGGACATGCAGAATCGACTCAATAAAGTCATCAAAAGT
GTGGGGAAGATCGAGCACTCCTTCTGGAGATCCTTTCACACCGAGCGGAAGACAGAACCAGCCACAGGTTTCATC
GACGGTGACTTGATTGAGAGTTTCTGGATATTAGCCGCCCCAAGATGCAGGAGGTGGTGGCAAACCTACAGTAT
GACGATGGCAGCGGTATGAAGCGAGAGGCCACTGCAGACGACCTCATCAAGGTTGTGGAGGAGCTAACTCGGATC
CATTAGCCAAGGGCAGGGGGCCCTTTGCTGACCCTCCCCAAGGCTTTGCCCTGCTGCCCTCCCCCTCCTCTCC

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FIGURE 3223B

ACCATCGTCTTCTTGGCCATGGGAGGCCTTTCCTAAGCCAGCTGCCCCAGAGCCACAGTTCCTATGTGGAA
GTGGGGCGGGCTTCATAGAGACTTGGGAATGAGCTGAAGGTGAAACATTTTCTCCCTGGATTTTACCAGTCTCA
CATGATTCCAGCCATCACCTTAGACCACCAAGCCTTGATTGGTGTGTCAGTTGTCCTCCTTCGGGGAAGGATT
TTGCAGTTCTTTGGCTGAAAGGAAGCTGTGCGTGTGTGTGTGTGTATGTGTGTGTGTGTATGTGTATCTCACACT
CATGCATTGTCCTCTTTTTATTTAGATTGGCAGTGTAGGGAGTTGTGGGTAGTGGGGAAGAGGGTTAGGAGGGTT
TCATTGTCTGTGAAGTGAGACCTTCCTTTTACTTTTCTTCTATTGCCTCTGAGAGCATCAGGCCTAGAGGCCTGA
CTGCCAAGCCATGGGTAGCCTGGGTGTAAAACCTGGAGATGGTGGATGATCCCCACGCCACAGCCCTTTTGTCTC
TGCAAACCTGCCTTCTTCGGAAAGAAGAAGGTGGGAGGATGTGAATTGTTAGTTTCTGAGTTTTACCAAATAAAGT
AGAATATAAGAAG

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FIGURE 3224

GCCTGCAACGTGTCTCTG GGGCGGAGGCAGCGGCAGTGGAGTTCGCTGCGCGCTGTTGGGGGCCACCTGTCTTTT
CGCTTGTGTCCCTCTTTCTAGTGTGCGCGCTCGAGTCCCCGACGGGCGCTCCAAGCCTCGACATGTCGTACAACCTA
CGTGGTAACGGCCCCAGAAGCCCACCGCCGTGAACGGCTGCGTGACCGGACACTTTACTTCGGCCGAAGACTTAAA
CCTGTTGATTGCCAAAAACACGAGATTAGAGATCTATGTGGTCACCGCCGAGGGGCTTCGGCCCCGTCAAAGAGGT
GGGCATGTATGGGAAGATTGCGGTCATGGAGCTTTTCAGGCCCAAGGGGGAGAGCAAGGACCTGCTGTTTATCTT
GACAGCGAAGTACAATGCCTGCATCCTGGAGTATAAACAGAGTGGCGAGAGCATTGACATCATTACGCGAGCCCA
TGGCAATGTCCAGGACCGCATTGGCCGCCCCCTCATAGACCGGCATTATTGGCATCATTGACCCTGAGTGCCGGAT
GATTGGCCTGCGTCTCTATGATGGCCTTTTCAAGGTTATTCCACTAGATCGCGATAATAAAGAACTCAAGGCCTT
CAACATCCGCCTGGAGGAGCTGCATGTCATTGATGTCAAGTTCCTATATGGTTGCCAAGCACCTACTATTTGCTT
TGTCTACCAGG

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FIGURE 3225

AGCAGCTCAGTGCAACGGTGTGAACTCAGCCTGTTTCAGAGCCTCCACACC**ATG**ACCTCCAAGAAGCTGGTGAAC
TCGGTGGCTGGCTGTGCTGATGACGCTCTTGCTGGCCTGGTGGCCTGCAACCCCAACCTGCAGCTCCTGCAGGGC
CACCGCGTGGCCCTCCGTTCTGACCTGGACAGCCTCAAGGGCCGGGTGGCACTGCTGTGCGGTGGGGGCTCTGGC
CATGAGCCTGCCCATGCTGGTTTCATAGGGAAGGGGATGCTGACTGGGGTCAATCGCGGGAGCTGTGTTCACCTCC
CCGGCAGTGGGCAGCATCCTGGCAGCCATCAGGGCCGTGGCCCAGGCCGGCACAGTGGGGACGCTCCTTATCGTG
AAGAACTACACTGGGGATCGGCTCAACTTCGGCCTGGCCCAGGAGCAGGCCCGGGCTGAAGGCATCCCGGTGGAG
ATGGTGGTGATTGGGGACGACAGCGCCTTCACCTGTCTGAAGAAGGCAGGCCGGCGGGGGCTGTGCGGCACGGTG
CTTATACACAAGGTGGCAGGTGCTCTGGCTGAGGCTGGTGTGGGGCTGGAGGAGATCGCAAAGCAGGTGAACGTG
GTCGCCAAGGCCATGGGTACCTGGGGGTGAGCTTATCCTCCTGCAGCGTCCCTGGTTCCAAACCCACCTTCGAG
CTCTCAGCCGACGAGGTGGAGCTGGGCCTGGGGATCCACGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACC
GCCGATGAGATTGTGAACTCATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCCTGTGCAGCCC
GGCTCCTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTCAATTCCTGGAAGTGGGCATCATAGCCGACGCT
ACCGTCCGCTCCCTGGAGGGCCGCGGGGTGAAGATTGCCCGTGCCCTGGTGGGCACCTTCATGTGAGCACTGGAG
ATGCCTGGCATTTCTCTCACCTCCTGCTGGTGGATGAGCCTCTCCTGAAACTGATAGATGCTGAAACCACTGCA
GCAGCCTGGCCTAACGTGGCTGCAGTCTCCATTACTGGGCGGAAGCGGAGCCGGGTAGCCCCCTGCCGAGCCCCAG
GAGGCCCTGATTCCACTGCTGCAGGAGGCTCAGCCTCGAAGCGGATGGCGCTGGTGTGGAACGGGTGTGCAGC
ACTCTCCTGGGCCTGGAGGAACACCTGAATGCCCTGGACCGGGCTGCTGGTGACGGCGACTGTGGCACCAACCCAC
AGCCGTGCGGCCAGAGCAATCCAGGAGTGGCTGAAGGAGGGCCACCCCTGCCAGCCCTGCCAGCTGCTCTCC
AAGTTGTCTGTCTGCTCCTGGAGAAGATGGGAGGCTCATCTGGGGCGCTCTATGGCCTGTTCTGACTGCGGCT
GCACAGCCCCCTGAAGGCCAAGACCAGCCTCCAGCCTGGTCTGCTGCCATGGATGCCGGCCTGGAAGCCATGCAG
AAGTATGGCAAGGCTGCTCCAGGGGACAGGACTATGCTGGATTCTCTGTGGGCAGCGGGGAGGAGCTCCAAGCC
TGGAAGAGCCCAGGAGCTGATCTGTTACAAGTCCTGACCAAAGCAGTCAAGAGTGCCGAAGCTGCAGCCGAGGCC
ACCAAGAATATGGAAGCTGGAGCCGGAAGAGCCAGTTATATCAGCTCAGCACGGCTGGAGCAGCCAGACCCCGGG
GCGGTGGCAGCTGCTGCCATCCTCCGGGCCATCTTGAGGCTTTGCAGAGCT**TAG**GGTGTGTGACTGCCTCCCTTG
GCCTCAGCTCCTCTCACTGCTGTGCTGAGGTGGCCTTTGTCACTTCCTTCTGCCTTCCAACCCTCACCTTCCCCC
GGCCTGGCCCCATTTGGCCACCCCTCTAAGTTGAGCAGGAAATCCTCCACCAAGCTTCCAGAACTACAGACAGCAC
CCAGAGTGAGCTGGAGTGGGTCCCATGCCTCTCCAGCATGCCCTTTCCCTTTGCAGGAGGGTGGAGTCCCTGGG
TCATGCCCTCCCCTGCCAGCTCTGGGCTTCAGAGATAAGGCATTTTCCTTGTGCAGCCTTTACCTGGCAATCCTA
ATTTGGTTTTAAGACTCCCTGTGAAATGCTTTCCGCACCTTAACCCAGTGAGCGTGAAAAAGAAAGTTAATAAA
CTATAATACATGGAAGCAAGAAAAAAAAAAAAAAAAA

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FIGURE 3226

MTSKKLVNSVAGCADDALAGLVACNPNLQLLQGHRVALRSDLDLKGFRVALLSGGGSGHEPAHAGFIGKMLTGV
IAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTGDRLNFGlareQARAEGIPVEMVIGDDSAFTVLKKAG
RRGLCGTVLIHKVAGALAEAGVGLEEIAKQVNVVAKAMGTLGVSLSSCSVPGSKPTFELSADLEVELGLGIHGEAG
VRRIKMATADEIVKLMLDHMTNTTNASHVPVQPGSSVMMVNNLGGLSFLELGIADATVRSLEGRGVKARALV
GTFMSALEMPGISLTLLLVDEPLLKLIDAETTAAAWPNVAASITGRKRSRVAPAEPQEAPDSTAAGGSASKRMA
LVLERVCSTLLGLEEHLNALDRAAGDGDGCGTTTHSRAARAIQEWLKEGPPPPASPAQLLSKLSVLLLEKMGSSGAL
YGLFLTAAQPLKAKTSLPAWSAAMDAGLEAMQKYGKAAPGDRTMLDSLWAAGQELQAWKSPGADLLQVLTKAVK
SAEAAAEATKNMEAGAGRASYISSARLEQPDPGAVAAAAAILRAILEVLQS

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FIGURE 3227

AGTCTGGCCGCCATGTTGGAGCTTTCGCTGTTTCGGGGCCCGGCTGCTCCGGGCCCTCCCAGCGTCGCCGCTAGC
TGACTTAGGGCTCCCGCCACACTGCGCACGGCCTTGCTGAGGGCCGGCTCGTAGTGGGAGGCTTCGCGTTCACC
TGAACATTTCCGCCTCCTCTGGATGGGGGATGAGAGGCGGGGCTGATGCATCGCAGCAGTTCCTGGACCCTGACTT
CGGACTTGGAGAAGAAACGCCGAGGAGGAACGGGAGTTAGGGGGTTAGCAGCTTGGCGCGCTGGGAGCCGGCCAC
CCCTGGTCTCCGGACTTCACTTCCCAGGAGGCCTCGCGCGCGACTGGAAGTGCTGCGAGCCTATAAGAAGGCGAG
GCGGCACCCGCCGCTCTGCTCTGGGGCGGCATTGCCAGCCGGCTGTAGGCATTCAGGGCAGTGTCTTCTGCATCT
CCTAGGAACCTCGGGAGCGGCAGCTCCGGCGCCTGGTAGCGAGAGGCGGGTTCCGGAGATCCCGGCCTCACTTCG
TCCCCTGTGGTTAGGGGTGAGTCCCTGCAAATGTTAAGTGATTTGCTCAAGGTGCCCATTTTCGCAGGAATTGGAG
CCCAGGCCAGTTCTCTGAGCCTATCATTAGGGCTAAAGGAGTGCGTGATCAGAATGGTGTCTGGACGGTTCTACT
TGTCTGCGCTGCTGCTGGGGTCCCTGGGCTCTATGTGCATCCTCTTCACTATCTACTGGATGCAGTACTGGCGTG
GTGGCTTTGCCTGGAATGGCAGCATCTACATGTTCAACTGGCACCAGTGCTTATGGTTGCTGGCATGGTGGTAT
TCTATGGAGGTGCGTCACTGGTGTACCGCCTGCCCCAGTCGTGGGTGGGGCCAACTGCCCTGGAACTCCTCC
ATGCAGCGCTGCACCTGATGGCCTTCGTCTCACTGTTGTGGGGCTGGTTGCTGTCTTTACGTTTCACAACCATG
GAAGGACTGCCAACCTCTACTCCCTTCACAGCTGGCTGGGCATCACCAGTGCTCTTCTCTTCGCTGCCAGTGGT
TCCTGGGCTTTGCTGTCTTCTCTCTGTCCTGCCCCAGTGTGGGTGCGCAGCCTCCTAAAACCTATCCACGTCT
TTTTTGGAGCCGCCATCCTCTCTCTGTCCATCGCATCCGTCAATTCGGGCATTAATGAGAAGCTTTTCTTCAGTT
TGAAAAACACCACCAGGCCATACCACAGCCTGCCCAGTGAGGCGGTCTTTGCCAACAGCACCGGGATGCTGGTGG
TGGCCTTTGGGCTGCTGGTGTCTACATCCTTCTGGCTTCATCTTGGAAGCGCCAGAGCCGGGGATCCTGACCG
ACAGACAGCTGCTGCTACAGCTGAGGCCTGGATCCCGGCCTTTCCCTGTGACTTACGTGTCTGTCACCGGCAGGC
AGCCCTACAAATCCTGGTGACCTGCTCTCCCAAGAACAGAGCCTGTCCCCAGATGTCCAGTAGCGATGAGTAAC
AGAGGTGGCTGTGGACTTCCTCTACTTCTCCTTGCTGGATCAGGGCCTTCCTGCCTCCCGCTGGGCAGGTCTGGC
CTTGCTCTCTTGGCAGGGCCCCAGCCCCCTCTGACCACTCTGCAGCTCACCATGCAGCTGATGCCAAAGTTGTGGT
GTCCAGTGTGCAGCAGCCCTGGGAGCCACTGCCACCTTCAGAGGGGTTCTTGCTGAGACCCACATTGCTTCACC
TGGCCCCACCATGGCTGCTTGCTGCGCCCAACCTAGCGTTCTGTGCCATGCTAGAGCTTGAGCTGTTGCTCTTCT
TCAGGGGAGGAAATAGGGTGG

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FIGURE 3228A

AAAGGGCCAGAGGTAGACATTGAAGGTCCTGAAGGGAAGCTCAAAGGTCCCAAGTTTAAGATGCCTGATGTACAT
TTCAAAGCCCCACAAATCTCCATGAGTGACATTGATTTGAATTTGAAAGGACCTAAGATAAAAGGAGATATGGAC
ATTTCCGTTCTTAACTGGAGGGAGATCTGAAAGGTCCCAAAGTGGATGTCAAAGGCCCTAAAGTGGGCATTGAC
ACTCCTGATATTGACATTCATGGTCCAGAAGGGAACTGAAGGGCCCCAAATTTAAATGCCTGACTTACACCTC
AAGGCACCGAAGATCTCTATGCCTGAAGTTGACCTGAATCTGAAAGGTCCAAAGGTGAAGGGCGACATGGACATT
TCTCTGCCCAAAGTGGAAGGGCAGCTCAAGGGCCCCGAAGTTGACATCAGGGACCCCAAAGTGGACATTGATGTC
CCAGATGTGGACGTTCAAGGCCCAGACTGGCACCTAAAAATGCCCAAAGTGAAAATGCCCAAAGTTCAGCATGCCT
GGCTTCAAAGGAGAGGGGCCAGATGTGGATGTGAACCTGCCAAAGGCTGACATTGATGTCCTCAGGACCCAAAGTG
GACGTTGATGTTCTGATGTGAATATCGAAGGTCCAGATGCGAACTAAAGGGCCCCAAGTTCAGATGCCTGAG
ATGAGCATCAAAGCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGAT
GTGGATGTTACCTTCTTAAAGTGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGAC
ATCAACACCCCTGATGTGGATGTTCAATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAATTC
AGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGATGTGAGCCTGCCCAAGGCCGACATCGATGTCTCGGGA
CCCAAGGTGGACGTTGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAG
ATGCCTGAAATAAATATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTTGAAAGGACCCAAAGTA
AAAGGAGATTTTGATGTGTCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGGCCAGAAGTAGATCTTAAAGGTCCA
CGTCTGGATTTTCGAAGGCCCTGATGCCAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCT
CCTAAAGTAACTGCTCCTGATGTTGATTGTCATCTCAAGGCACCAAAAATTGGATTTTCAGGTCCGAAGTTAGAA
GGTGGTGAAGTGGACCTCAAGGGACCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCCAGATATT
AACATCGAAGGGCCAGATGTTAAATCCCCAAATTTAAGAAACCCAAGTTTGGATTTGGGGCAAAAAGCCCCAAA
GCTGACATCAAGTCACCTTCACTGGATGTCACTGTTCTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGT
GTTGGTGGCAAGGGCAAGAAAAGTAAGTTTAAATGCCATAAATTCATATGAGTGGTCCTAAGATTAAGGCCAAA
AAACAGGGATTTGACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCCTCAAGGCTCCGGATGTAGATGTCAAC
ATCGCAGGGCCGGATGCTGCACTCAAAGTCGACGTGAAATCGCCCAAAACCAAGAAAACGATGTTTGGAAAAATG
TACTTCCCAGATGTAGAGTTTGACATTAAATCACCTAAATTTAAAGCTGAGGCCCTCTCCCTAGCCCCAACTG
GAGGGTGAACCTCAGGCACCTGATCTGGAACTTTCTTTGCCAGCGATTACGTCGAAGGTCTTGACATCAAGGCG
AAGGCTCCCAAGGTCAAGATGCCAGATGTGGACATCTCAGTGCCAAAAATAGAGGGTGACCTGAAAGGCCCCAAA
GTGCAGGCAAACTTGGGTGCACCTGACATCAACATCGAAGGCCTAGATGCTAAAGTCAAAACACCGTCCTTCGGC
ATTTCTGCCCCCTCAAGTCTCCATCCCTGATGTGAATGTAACTTGAAAGGACCAAAGATAAAGGGTGATGTCCCC
AGCGTGGGACTGGAAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAAATTAAGTTCCCCAAGTTTTCATG
CCCAAGATCGGCATCCCAGGTGTGAAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCCAGCTACCTCTCTTGAA
GGAGACTTGAGAGGACCAGATGTTAAGCTCGAAGGGCCCCGATGTTTCTCTAAAGGGGCCAGGAGTAGACTTGCCT
TCAGTGAACCTCTCTATGCCAAAAGTCTCTGGGCCTGACCTTGATCTGAACCTTGAAAGGACCAAGTTTGAAAGGA
GACCTGGATGCATCTGTTCCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTCTGGTGGCAAAATG
CAGGTGGGAGGAGACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTTGGGGCACCAGATGTG
ACACTGAGGGGACCAAGCCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAATGCCCTAAAGTATCCGTAGGA
GCTCCTGATCTAAGCTTGAGGCATCCGAAGGCAGCATTAACTTCCCAAAATGAAGCTGCCCAATTTGGCATC
TCTACTCCGGGGTCCGACTTGACGTCATGCAAGGGGCCACAGGTTTCTGGCGAACTGAAGGGGCCAGGTGTG
GATGTGAACCTGAAAGGGCCTCGGATTTTACGACCGAATGTGGACTTTAACTTGGAAGGACCAAAAGTGAAAGGG
AGCCTTGGGGCCACTGGTGAGATCAAAGGCCCCACTGTGCGAGGAGGTCTTCCAGGCATTGGTGTTCAGGCCTA
GAAGGAAACCTCCAGATGCCTGGAATTAAGTCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAACTC
CCAAGTGGGCAGATTTCTGGGCCTGAAATCAAAGGTGGTCTGAAAGGTTTCAAGTAGGTTTCCATGGGGCTGCT
CCTGATATCAGTGTGAAGGGGCCCTGCCTTTAATATGGCATCTCCTGAGTCAGATTTTGGCATCAACTTGAAAGGGC
CCAAAATCAAAGGAGGTGCGGATGTTTCAAGGGGTGTGAGTGCCCCAGACATCAGCCTTGGTGAAGGGCATTG
AGTGTTAAAGGTTCGGGGGTGAGTGAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGACACATCTAAGTTT
GCTGGGGGCCCTTCAATTTCTCAGGACCAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCT
GGGCTGAGTGTGTCTGGGCCTCAAGGTCACTTGAAAGTGGATCTGGAAAAGTAACATTCCCTAAAATGAAGATC
CCCAATTTACCTTCTCTGGCCGTGAGCTGGTTGGCAGAGAAAATGGGGGTGGATGTTCACTTCCCTAAAGCAGAG

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FIGURE 3228B

GCCAGCATCCAAGCTGGTGCTGGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAGTCAAGATCAAA
ATGCCCAAGTTTAATTTTTCCAAACCTAAAGGGAAAGGTGGTGTCCTGGCTCACCAGAAGCATCAATTTCTGGG
TCCAAAGGTGACCTGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTCA
CCGAAAGGCAAATTTCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTGATGAAAGAGAG
TTCCTCTGGACCTTCCACCCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAAGTGTCTCTGGAAGGTGGGAAAGTT
AAAGGGAAACACGGGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCATTATGAGGTG
ACTGGGAGCGATGATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTCTAAGAAGTCCCGACTGTCC
TCCTCTTCTAGCAATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCCGAGGTGGAGCTGTCAGTTTCCACAAAG
AAAGAGTAGCAGGCCTTTGTATGTGTGTACATATATATATATATAACAAAACATCAGCCTTGGGTGGTGTGTTCC
TATATAAACTCCAAAGGGAAACACACCGACTGCCTCAGCAATCATGCAAAGACCTTGCCTGGCCCGGTGGCAAGC
GCTGAAAACCGACCGCCTGTAGGCTCCTGGAACATACAGATAGGTAAAGAGTTCCAAGTTCGTCC

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FIGURE 3229

MPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDVPDVNIEGPDALKGPKFKMPKEMSIKAPKISMPDI
DLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDPWHLKMPKVKMPKFSMPGFKGEGPDVD
VSLPKADIDVSGPKVDVDIPDVNIEGPDALKGPKFKMPEINIKAPKISIPDVLDLKGPKVKGDFDVSVPKVEG
TLKGPEVDLKGPRLDVEGPDALKSGPSLKMPKSLKISAPKVTAPDVLHLKAPKIGFSGPKLEGGEVDLKGPKVEA
PSLDVHMDSPDINIEGPDVKIPKFKKPKFGFGAKSPKADIKSPSLDVTVPEAELNLETPEISVGGKGKSKFKMP
KIHMSGPKIKAKKQGFDLNVPGGEIDASLKAPDVDVNIAGPDAALKVDVKSPKTKKTMFGKMYFPDVEFDIKSPK
FKAEAPLPSPKLEGELQAPDLELSLPAIHVEGLDIKAKAPKVKMPDVDISVPKIEGDLKGPKVQANLGAPDINIE
GLDAKVKTSPSGISAPQVSIPDVNVNLKGPKIKGDVPSVGLEGPVDLQGPDAKIKFKPKFSMPKIGIPGVKMEGG
GAEVHAQLPSLEGDLRGPDKLEGPVSLKGPVLDLPSVNLSPKVSVPDLDLNLKGPSLKGDLDASVPSMKVHA
PGLNLSGVGGKMQVGGDGVKVPIDATTKLVNGAPDVTLRGPSLQGD LAVSGDIKCPKVSVPDLSLEASEGSI
KLPKMKLPQFGISTPGSDLHVNAKGPQVSGELKGPVVDNLKGPRISAPNVDFNLEGPKVKGSLGATGEIKGPTV
GGGLPGIGVQGLEGNLQMPGIKSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVGFHGAAPDISVKGPAFNMA
SPESDFGINLKGPKIKGGADVSGGVSAPDISLGEHLSVKSGGEWKGPQVSSALNLDTSKFAGGLHFSGPKVEG
GVKGGQIGLQAPGLSVSGPQGHLES GSGKVTFPKMKIPKFTFSGRELVGREMGVDVHFPKAEASIQAGAGDGEWE
ESEVKLKKSKIKMPKFNFSKPKGKGGVTGSPEASISGSKGDLKSSKASLGSLEGEAEAEASSPKGKFSLFKSKKP
RHRSNSFSDEREFGPSTPTGTLEFEGGEVSLEGGKVKGKHGKLFKGTFTGGLGSKSKGHYEVTGSDDDETGLQGS
GVSLASKKSRLSSSSSNDSGNKVGIQLPEVELSVSTKKE

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FIGURE 3230

TCCGGAAGGAGGCGAACCCTGAGGCGGGCCCCGGCAAGCCTTCCCTGCGGCCGGCAGAGCCCAACGACTAGTGGGGA
CTCCGCGGGGGCGGGGGTAGCTGGAGCCTGGCTCTGGCCTGGCAGGAGCCGAGCTTGTTCCGGAAGAAGCCGAGC
GGACGGGGGCCAGCCTCAGCGTCCCCGGGAGTGAGGCGATAGCTGCGGCGGGCAGCGCGGGCCGGGATGAACCG
CGACGGCTGAGGCAGCGGAGGTGCCGGCTGCGCGGGCCCCAGTGAGACTCCCTCGAAGCGGCAGCCACCCTTCG
GGGCTTTGCCTCGAGCCGAGCCCTGCCCCGCGAGCCTCCCGGACCCCTTTGTGCGGCCGGAGGCGGCGGGGA
ACGGCCATGGCGGCCAACATGTACCGGGTGGGAGATTACGTCTATTTTGAGAACTCTTCCAGCAATCCTTACCTG
GTTAGACGGATTGAGGAGCTCAACAAGACTGCAAAATGGAATGTGGAGGCAAAGGTTGTCTGTCTTTTCCGGCGC
AGGGACATTTCTAGTAGCCTCAACAGCCTGGCTGATAGTAATGCCAGGGAGTTTGAAGAGGAATCAAAGCAGCCA
GGGGTGTCTGAGCAGCAGCGCCATCAACTGAAGCACCGGGAACCTTTTTCTTTCTCGGCAATTTGAATCATTACCA
GCCACCCACATACGGGGGAAATGCAGTGTGACCCTCTTGAATGAGACAGATATCTTGAGCCAGTACCTGGAAAAG
GAGGACTGCTTTTTTTTACTCACTGGTGTGTTGACCCCGTGCAGAAGACACTTCTCGCTGATCAGGGCGAGATTAGA
GTTGGTTGCAAATACCAAGCTGAGATCCCAGATCGCCTAGTAGAGGGAGAATCTGATAATCGGAACCAGCAGAAG
ATGGAGATGAAGGTCTGGGACCCAGACAACCCTCTCACAGACCGGCAGATCGACCAGTTTCTTGTGGTGGCCCGA
GCTGTGGGAACCTTTGCAAGAGCCCTAGATTGTAGCAGCTCCATTGCGCAGCCAAGCTTGACATGAGTGCAGCT
GCTGCTCCCGAGATATCACTCTGTTTCACGCCATGGATACCTTGCAAAGGAACGGCTACGACCTGGCTAAGGCC
ATGTCGACCTGGTACCCAGGGAGGCCCGGTGCTGTGTGCGGGATGAGATGGAGGAATGGTCAGCCTCAGAGGCC
ATGCTATTTGAGGAGGCCCTAGAGAAGTATGGGAAGGACTTCAATGATATTGCGCAGGATTTTCTACCCTGGAAG
TCACTTGCCAGCATAGTCCAGTTTTATTACATGTGGAAAACACAGACCGGTATATTAGCAGAAAAGGTTGAAA
GCTGCTGAAGCAGACAGCAAACCTGAAACAGGTCTACATTCCCACCTACACTAAGCCAAACCTAACCAGATCATT
TCTGTGGGTTCAAACCTGGCATGAATGGGGCTGGATTTCAGAAGGGCCTGACTTGTGAGAGTTGCCACACCACA
CAGTCTGCTCAGTGGTATGCCTGGGGCCACCTAACATGCAGTGCCGCCTCTGTGCTTCTGTGTTGGATCTACTGG
AAGAAGTATGGGGGACTGAAGACCCCAACTCAGCTTGAGGGGGCCACTCGGGGCACCACGGAGCCACACTCAAGG
GGTCATTTATCCAGACCTGAAGCTCAAAGTCTCTCTCCTTACACAACCAGCGCCAACAGGGCCAAGCTACTGGCT
AAGAACAGACAAACTTTCCCTGCTTCAGACCACAAAGCTGACCCGTCTTGCCAGACGCATGTGCAGGGACCTATTA
CAGCCAAGGAGGGCCGCCGACGGCCTTATGCTCCTATCAATGCCAATGCCATCAAAGCAGAGTGCTCCATTGCA
CTTCCTAAGGCCGCCAAGACTCCATTGAAGATTACCCCTCTGGTGCGGCTGCCCCCTGGCAACTATCGTCAAAGAT
CTGGTGGCCCCAGGCACCCCTGAAACCAAAACACCTCGGGGTACCAAGACACCGATCAACAGAAACCAGCTGTCC
CAGAACCAGGGGACTGGGGGGCATTATGGTGAAACGGGCCTATGAGACTATGGCAGGGGCAGGGGTTCTTTCTCT
GCCAATGGAAGGCCCTCTGGCTTCAGGGATTGTTCAAGCTCACAGCCAGCAGCCAAGCGTCAGAACTAAACCCA
GCTGATGCCCCCAATCCTGTGGTGTGTTGTGGCCACAAAGGATACCAGGGCCCTACGGAAGGCTCTGACCCATCTG
GAAATGCGGCGAGCTGCTCGCCGACCCAACTTGCCCTGAAGGTGAAGCCAACGCTGATTGCAGTGCAGCCCCCT
GTCCCTCTACCTGCACCTCACATCCTGCCAGCACCAATGAGCCTATTGTCCTGGAGGACTGAGCACCTGTGGGG
AAGGGAGGTGGGCTGAGAGGTAGAGGTGGATGCCCAGGGCACCCAAACCTCCCTTCCCTTTCGTGTGCAAGGGA
GTGAGGAGTGAATTAAGGAAGAGAGCAAGTGAGTGTGTGTCCTGGAGGGGTTGGGCGCCCTCTGGTGTACAC
CTCGAGACTTGTCTCATGCCTCCATGCTTGCCGATGGAGGACAGACTGCAGGAACCTGGCCCATGTGGGAACCTA
GCCTGTTTTGGGGGGTAGGACCCACAGATGTCTTGACAGTTTTGGGGGGAGGGTTTTTTTAAATTTTTTAAAGTT
TTGCCTCCCTTTGTGAAAGGGGATGGGGAGGGGAAGAGTAAACAGATAACAGGTGGTGGTACCTGGTTGGGGGAG
GGGGGCGTGCAGTGCATGTCTTTTTTTTTTTTTTTTTTTTTTTTTTCTAATTGGGGGTTTCTCTTTCTGTCC
GGTGTCCGACTTTCTAATTGGAGTTTGAGGCCCTAAGCTGGCATCAACCCAGGCCACGCTCGCTCTTTCTCT
TCCCTCCCCTCCCCTCTGCCTTTGTACGCCAGTTCTCAGAAATAAAGATCTTTGTCCGTTTTTTTAACTCG
GATTCTGTAATTGGTTCTTATAGTAACAAATAAAAAGCTGTTTTCTTCAGCTTCTCCTGG

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FIGURE 3231

MAANMYRVGDYVYFENSSSNPYLVRRIEELNKTANGNVEAKVVCLFRRRDISSSLNSLADSNAREFEEESKQPGV
SEQQRHQLKHRELFSLRQFESLPATHIRGKCSVTLLNETDILSQYLEKEDCFFYSLVFDVPVQKTLLADQGEIRVG
CKYQAEIPDRLVEGESDNRNQQKMEMKVWDPDNPLTDRQIDQFLVVARAVGTFARALDCSSSIRQPSLHMSAAAA
SRDITLHFAMDTLQRNGYDLAKAMSTLVPQGGPVLCRDEMEEWSASEAMLFEEALEKYGKDFNDIRQDFLPWKS
ASIVQFYMWKTTDRYIQQKRLKAAEADSKLKQVYIPTTYTKPNPNQIISVGSKPGMNGAGFQKGLTCESCHTTQS
AQWYAWGPPNMQCRLCASCWYWKYGGGLKTPQTLEGATRGTTEPHSRGHLSRPEAQSLSPYTTSANRAKLLAKN
RQTFLLQTTKLTRLARRMCRDLLQPRRAARRPYAPINANAIAECSIRLPKAAKTPLKIHPLVRLPLATIVKDLV
AQAPLKPKTPRGTKTPINRNQLSQNRGLGIMVKRAYETMAGAGVPFSANGRPLASGIRSSSQPAKRQKLN PAD
APNPVVFVATKDTRALRKALTHLEMRAARRPNLPLKVKPTLIAVRPPVPLPAPSH PASTNEPIVLED

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FIGURE 3232

GCAAACCTCTGCACAAG**ATG**GCGGCGGTAGCGGCAGTGGCGGCGCGTAGGAGGCGGTCTTGGGCGTCTTTGGTACT
GGCTTTTTTTAGGGGTCTGCCTGGGGATTACCCCTTGCTGTGGATAGAAGCAACTTTAAGACCTGTGAAGAGAGTTC
TTTCTGCAAGCGACAGAGAAGCATACGGCCAGGCCTCTCTCCATACCGAGCCTTGCTGGACTCTCTACAGCTTGG
TCCTGATTCCCTCACGGTCCATCTGATCCATGAGGTCACCAAGGTGTTGCTGGTGCTAGAGCTTCAGGGGCTTCA
AAAGAACATGACTCGGTTTCAAGATTGATGAGCTGGAGCCTCGGCGACCCCGATAACCGTGTACCAGATGTTTTGGT
GGCTGATCCACCAATAGCCCGGCTTTCTGTCTCTGGTCGTGATGAGAACAGTGTGGAGTTAACCATGGCTGAGGG
ACCCTACAAGATCATCTTGACAGCACGGCCATTCCGCCTTGACCTACTAGAGGACCGAAGTCTTTTGCTTAGTGT
CAATGCCCGAGGACTCTTGGAGTTTGAGCATCAGAGGGCCCTAGGGTCTCTTTCTCGGATAAGGTTAATCTCAC
GCTTGGTAGCATATGGGATAAGATCAAGAACCCTTTTCTCTAGGCAAGGATCAAAAGACCCAGCTGAGGGCGATGG
GGCCAGCCTGAGGAAACACCCAGGGATGGCGACAAGCCAGAGGAGACTCAGGGGAAGGCAGAGAAAGATGAGCC
AGGAGCCTGGGAGGAGACATTCAAACTCACTCTGACAGCAAGCCGTATGGCCCCATGTCTGTGGGTTTGGACTT
CTCTCTGCCAGGCATGGAGCATGTCTATGGGATCCCTGAGCATGCAGACAACCTGAGGCTGAAGGTCACCTGAGGG
TGGGGAGCCATATCGCCTCTACAATTTGGATGTGTTCCAGTATGAGCTGTACAACCCAATGGCCTTGTATGGGTC
TGTGCCTGTGCTCCTGGCACACAACCTCATCGCGACTTGGGCATCTTCTGGCTCAATGCTGCAGAGACCTGGGT
TGATATATCTTCCAACACTGCCGGAAGACCCGTGTTTGGGAAGATGATGGACTACCTGCAGGGCTCTGGGGAGAC
CCCACAGACAGATGTTGCTGGATGTCAGAGACTGGCATCATTGACGTCTTCTGCTGCTGGGGCCCTCCATCTC
TGATGTTTTCCGGCAATATGCTAGTCTCACAGGAACCCAGGCGTTGCCCCACTCTTCTCCCTCGGCTACCACCA
GAGCCGTTGGAACCTACCGGGACGAGGCTGATGTGCTGGAAGTGGATCAGGGCTTTGATGATCACAACTGCCCTG
TGATGTCATCTGGCTAGACATTGAACATGCTGATGGCAAGCGGTATTTACCTGGGACCCAGTCGCTTCCCTCA
GCCCCGCACCATGCTTGAGCGCTTGGCTTCTAAGAGGCGGAAGCTGGTGGCCATCGTAGACCCCCACATCAAGGT
GGACTCCGGCTACCGAGTTTACGAGGAGCTGCGGAACCTGGGGCTGTATGTTAAAACCCGGGATGGCTCTGACTA
TGAGGGCTGGTGCTGGCCAGGCTCAGCTGGTTACCTGACTTCACTAATCCACGATGAGGGCCTGGTGGGCTAA
CATGTTTCACTATGACAATTATGAGGGCTCAGCTCCCAACCTCTTTGTCTGGAATGACATGAACGAACCATCTGT
GTTCAATGGTCTGAGGTACCATGCTCAAGGATGCCAGCATTATGGGGGCTGGGAGCACCGGGATGTGCATAA
CATCTATGGCCTTTATGTGCACATGGCGACTGCTGATGGGCTGAGACAGCGCTCTGGGGGCATGGAACGCCCTT
TGTCTGGCCAGGGCCTTCTTCGCTGGCTCCCAGCGCTTTGGAGCCGTGTGGACAGGGGACAACACTGCCGAGTG
GGACCATTTGAAGATCTCTATTCCCTATGTGTCTCAGCTTGGGGCTGGTGGGACTTTTCTTCTGTGGGGCGGATGT
GGGTGGCTTCTTCAAAAACCCAGAGCCAGAGCTGCTTGTGCGCTGGTACCAGATGGGTGCTTACCAGCCATTCTT
CCGGGCACATGCCCACTTGGACACTGGGCGACGAGAGCCATGGCTGTTACCATCTCAGCACAAATGATATAATCCG
AGATGCCCTTGGGCCAGCGATATTCTTTGCTGCCCTTCTGGTACACCTCTTATATCAGGCCCATCGGGAAGGCAT
TCCTGTCTATGAGACCCCTGTGGGTGCAGTACCCTCAGGATGTGACTACCTTCAATATAGATGATCAGTACTTGCT
TGGGGATGCGTTGCTGGTTTACCCCTGTATCAGACTCTGGAGCCCATGGTGTCCAGGTCTATCTGCCTGGCCAAGG
GGAGGTGTGGTATGACATTCAAAGCTACCAGAAGCATCATGGTCCCCAGACCCGTACCTGCCTGTAACCTCTAAG
CAGTATCCCTGTGTTCCAGCGTGGAGGGACAATCGTGCCTCGATGGATGCGAGTGCGGCGGTCTTCAGAATGTAT
GAAGGATGACCCCATCACTCTCTTTGTTGCACTTAGCCCTCAGGGTACAGCTCAAGGAGAGCTCTTTCTGGATGA
TGGGCACACGTTCAACTATCAGACTCGCCAAGAGTTCTTGCTGCGTCGATTCTCATTCTCTGGCAACACCCCTGT
CTCCAGCTCAGCAGACCCCTGAAGGACACTTTGAGACACCAATCTGGATTGAGCGGGTGGTGATAATAGGGGCTGG
AAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCTCCAGAAAGCCGCCTGTCTTCCAGCATGACCCTGAGAC
CTCTGTGTTGGTCTGCGCAAGCCTGGCATCAATGTGGCATCTGATTGGAGTATTCACCTGCGAT**TAA**

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FIGURE 3233

MAVAAVAARRRRSWASLVLAFLGVCLGITLAVDRSNFKTCEESSFCKRQRSIRPGLSPYRALLDLQSGPDSL
VHLIHEVTKVLLVLELQGLQKNMTRFRIDELEPRRPRYRVPDVLVADPP IARLSVSGRDENSVELTMAEGPYKII
LTARPFRLDLLEDRLSLLSVNARGLLFEFEHQRAPRVSFSDKVNLTLSIWDKIKNLF SRQGSKDPAEGDGAQPEE
TPRDGDKPEETQGKA EKDEPGAW EETFKTHSDSKPYGPM SVGLDFSLPGMEHVYGIPEHADNLR LKVTEGGEPYR
LYNLDVFQYELYNPMALYGSVPVLLAHNPHRDLGIFWL NAAETWVDISSNTAGKTLFGKMMDYLQSGGETPQTDV
RWMSETGIIDVFLLLGPSISDVFRQYASLTGTQALPPLFSLGYHQSRWNYRDEADVLEVDQGFDDHNLPCDVIWL
DIEHADGKRYFTWDP SRFPQPR TMLERLASKRRKLVAIVDPHIKVDSGYRVHEELRNGLYVKTRDGS DYEGWCW
PGSAGYPDFTNPTMRAWWANMFSYDNYEGSAPNLFVWNDMNEPSVFNGPEVTMLKDAQHYGGWEHRDVHNIYGLY
VHMATADGLRQ RSGGMERPFV LARAFFAGSQRFGAVWTGDNTAEWDHLKISIPMCLSLGLVGLSFCGADVGGFFK
NPEPELLVRWYQMGAYQPF FRAHAHLDTGRREPWLLPSQHNDIIRDALGQRYSLLPFWYTLLYQAHREGIPVMRP
LWVQYPQDVTTFNIDDQYLLGDALLVHPVSDSGAHGVQVYLPQGGEVWYDIQSYQKHHGPQTLYLPVTLSSIPVF
QRGGTIVPRWMRVRRSSECMKDDPITL FVALSPQGT AQGELFLDDGHTFNYQTRQEFLRRFSFSGNTLVSSSAD
PEGHFETPIWIERVVIIGAGKPAAVVLQTKGSPESRLSFQHPETSVLVLRKPGINVASDWSIHLR

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FIGURE 3234

CGCCGCTCGCGCCTCGGGCTCGGGCTCGGGCTCCGGGATGTCCGCGCTGTGCGACCCCTCCCGGGGCCCCAGGGCCA
CCTGGGCCTGCCCCGGCCACCCACGGTCCCGCGCCTCTCAGTGCTCAGGAGCTGTCCCAGGAAATCAAGGCTTTT
CTGACTGGCGTAGACCCATTCTGGGCCACCAACTCTCAGCCCGGAACATGCTCGCTGTGGTCTTCTCCTGCTC
CGTTCTTTGCCACCTGCTCGGGCTGCTGTGCTTGACCATTGAGAGGTGTCTTTGATGAGAGTGTCCGGGCCCCAC
CTGGCTGCCCTGGATGAAACCCCTGTGGCTGGTCCACCTCACCTCCGTCCACCTCCACCCTCTCATGTCCCTGCT
GGTGGACCTGGTCTAGAGGATGTGGTTCAGGAAGTGCAGCAGGTGCTGTCTGAGTTTATCCGGGCCAACCCAAAG
GCCTGGGCACCTGTGATTAGTGCATGGTCCATTGACCTCATGGGGCAACTGAGCAGCACGTACTCAGGCCAGCAC
CAGCGTGTTCACCCAGCTACTGGCGCTCTTAATGAACTGCTACAGCTGTGGATGGGTGTAGGGCCACGCGTACA
TTAATGGACATCTATGTGCAGTGCCTCTCGGCTCTCATTGGTAGCTGCCAGATGCGTGTGTGGATGCCTTGCTG
GATACCTCTGTTACAGATTCTCCACACTTTGACTGGGTGTGGCACATATTGGCTCCTCTTTTCTGGCACCATC
ATTTCCCGGGTTCTCTCCTGTGGCCTTAAGGACTTTTGTGTCCATGGTGGGGCTGGAGGTGGAGCTGGCAGTAGT
GGTGGAAAGCTCTTCTCAGACCCCTCTACAGACCCCTTCCCTGGATCTCCTGCCATTCTGCGGAGAAACGGGTG
CCCAAGATTGCCTCAGTTGTAGGCATCCTAGGTCACCTGGCCTCCCGCCACGGAGATAGCATCCGACGGGAGCTC
CTGCGAATGTTCCATGATAGCCTGGCAGGGGGATCTGGAGGCCGAGTGGGGACCCCTCCCTTCAGGCCACGGTT
CCGTTCTTACTGCAGCTGGCAGTCATGTACCCAGCTTTGCTGGGCACTGTCTCTGGAGAGCTTGTGGATTGCCTC
AAGCCCCCAGCTGTGCTGAGCCAGCTGCAGCAACACCTTCAAGGATTCCCCGAGAGGAGCTGGACAACATGTTG
AACCTGGCTGTGCACCTGGTGAGCCAGGCCTCTGGGGCAGGTGCCTACCGCTTGCTGCAGTTCTTGGTGACACA
GCTATGCCGTGTTTCGGTCATTACCAACCCAGGGCCTGGCTGTGCCAGACACCGTGCCTGAGGCTTGTGACCGGCTA
ATCCAGCTGCTGCTGCTGCACCTGCAAAAACTGGTTCATCACCGGGGAGGGTCTCCTGGGGAAAGGGGTGCTAGGC
CCGCCCCCACCCTCCCCGCTTGGTGCCCTTTTTTAGATGCGCTCAAAAACCATGTTGGAGAGCTGTGTGGAGAGACG
TTACGATTGGAACGGAAGCGCTTCTCTGGCAGCACCAGCTCTTGGGCCTGCTGTCTGTCTATACCCGGCCTAGC
TGTGGACCTGAGGCCTTGGGCCATCTGCTGAGCCGAGCCCGAAGCCCTGAAGAGTTGAGTTTGGCCACCCAGTTA
TATGCAGGGCTAGTGGTCAGCCTCTCTGGCCTCCTGCCCTTGCTTTCCGAAGCTGTCTGGCTCGGGTGCATGCA
GGGACATTACAGCCTCCCTTCACGGCCCGGTTCTTGGGGAATCTGCCTCAGCCATCTGTCTGACCTGGCTCCTCTC
CTGCTACATCCTGAGGAGGAAGTAGCTGAAGCTGCTGCCTCTCTCCTGGCCATTTGTCCCTTTCTCTGAAGCC
TTATCCCCCTCCCAGCTCCTGGGACTGGTAAGGGCTGGGGTGCACCGCTTCTTTGCCTCTCTGAGGCTGCATGGA
CCCCCAGGTGTGGCCTCAGCCTGTGAGCTTCTACCCGCTGTCTCAGACATCCCAGCTGGGCTCAAGGCTGTCTC
CTGCAGCTGTGTTGAAGGAGCCTTACATCGAGGCAACACAGAACTGTTTGGTGGGCAAGTAGATGGGGACAAT
GAGACTCTCTCAGTTGTTTCAGCTTCTTTGGCTTCTGCCTCCCTGTTGGACACTAACCGGAGGCACACTGCAGCT
GTGCCAGGTCCTGGAGGGATTTGGTCAGTTTTCCATGCTGGAGTCATCGGCCGTGGCTTAAAGCCACCCAAGTTT
GTCCAGTCACGAAATCAGCAGGAAGTGATCTATAACACCCAGAGCCTCCTCAGCCTCCTGGTTCACTGCTGCAGT
GCCCCAGGGGGCACTGAATGTGGGGAATGCTGGGGGGCACCCATCTTGAGTCCAGAGGCAGCCAAAGCAGTGGCA
GTGACCTTGGTGGAGAGTGTGTGTCCCGATGCAGCTGGTGCAGAGCTGGCCTGGCCCCCGAGGAACACGCCCGG
GCCACCGTGGAGCGGGATCTCCGCATTGGCCGGCGCTTCCGCGAACAGCCCCTGCTCTTTGAGCTGTTAAAGCTG
GTAGCAGCTGCACCCCCAGCCCTGTGCTACTGTTCCGTGCTGCTTCGGGGGCTGCTGGCCGCCCTCTTGGGCCAT
TGGGAAGCCTCTCGCCACCCTGACACGACCCACTCCCCCTGGCACCTGGAGGCATCCTGCACCTTAGTGGCTGTC
ATGGCTGAGGGAAAGCCTCCTGCCTCCGGCCCTGGGTAATATGCATGAAGTATTTAGCCAACCTGGCACCTTTTCGAG
GTGCGTCTGCTGCTGCTCAGTGTCTGGGGTTTTCTCCGGGAGCATGGGCCCTTGCCTCAGAAGTTTCATCTTCCAA
TCAGAGCGGGGTGCTTCATTCCGGGACTTCTCCAGGGAGGGTGGAGGTGAGGGTGGACCCCATCTGGCTGTGCTG
CACAGTGTCTCCACCGCAACATCGACCGCCTAGGTCTTTTTCTCTGGCCGTTTCCAGGCACCTTACCGTCCACT
CTCCTTCGACAGGGGACGTAGCCTTTTTCTTGTCTGGAAGCCAGGGAGGTTGAGCAGTGAGAGAGGGAAGGGAC
TAACGTGCTCCGGAAGGGTGGAGGTTTTCTCTTAAGTCCTTGGTCTAAAGAGCGCTGTCACTTTTTTCTCTCCC
ACTTTTTTTTTTCTAAATAAAATTTGCCAACTTG

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FIGURE 3235

MSALCDPPGAPGPPGPAPATHGPAPLSAQELSQEIKAFLTGVDPILGHQLSAREHARCGLLLLRSLPPARAAVLD
HLRGVFDESVRAPLAALDETPVAGPPHLRPPPPSHVPAGGPGLEDVVQEVQQVLSEFIRANPKAWAPVISAWSID
LMGQLSSTYSGQHQRVPHATGAINELLQLWMGCRATRTLMDIYVQCLSALIGSCPDACVDALLDTSVQHSPHFDW
VVAHIGSSFPGTIIISRVLSCGLKDFCVHGGAGGGAGSSGGSSSQTPSTDFFPGSPAIPAIEKRVPKIASVVGILGH
LASRHGDSIRRELLRMFHDLSAGGSGGRSGDPSLQATVPFLLQLAVMSPALLGTVSGELVDCLKPPAVLSQLQQH
LQGFPREELDNMLNLAVHLVSQASGAGAYRLLQFLVDLTAMPASVITTQGLAVPDTVREACDRLIQLLLLHLQKLV
HHRGGSPGEGVLGPPPPRLVPFLDALKNHVGELCGETLRLEKRFLLWQHQLLGLLSVYTRPSCGPEALGHLLSR
ARSPEELSLATQLYAGLVVSLSGLLPLAFRSCLARVHAGTLQPPFTARFLRNLALLVGWEQQGGEGPAALGAHFG
ESASAHLSDLAPLLLHPPEEEVAEAAAASLLAICFPFSEALSPSOLLGLVRAGVHRFFASLRLHGPPGVASACQLLT
RLSQTSPAGLKAVLQLLVEGALHRGNTELFGGQVDGDNETLSVVSASLASASLLDTNRRHTAAVPGPGGIWSVFH
AGVIGRGLKPPKFVQSRNQOEVIYNTQSLLSLLVHCCSAPGGTECGECWGAPILSPEAAKAVAVTLVESVCPDAA
GAELAWPPEEHARATVERDLRIGRRFREQPLLFELLKLVAAPPALCYCSVLLRGLLAALLGHWEASRHPDTHS
PWHLEASCTLVAVMAEGSLLPPALGNMHEVFSQLAPFEVRLLLLSVWGFLREHGPLPQKFIFQSERGRFIRDFSR
EGGGEGGPHLAVLHSLVLRNIDRLGLFSGRFQAPSPSTLLRQGT

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FIGURE 3236

GAGGAACATGATTTTATTGGTTCTTTTCAGTTTACCACATCCGACTCGCGTCTCGGCCCTGGCCCCGCTTGCGGAC
CTTAAAGCAGTCAGTCCAGGGTTTGGGGGAAACGTGCTCACCCGACGGCAGCTCACAGGACCCCCGAGAGTCTTG
GCATGGTATCTCGGTCCGGAATCTCCGCTGGGCCCCACGAAGGAGAAAGGCTGCCTCGGATTCTTGCGCCCAAGCC
AAGGTCCGGCGCCACGGAGGCAAGTCCGGTCTCACGGTGACCTCCCGCTGGCGCCGCTTGCGCCCAACCATC
CAGTTCTTCTCCAGGCCACGTTCTCCTGCGTGGTTCGCTGCCTCCTGCAGAGTGGCCAGCAATAGCTGCTGGGTC
CTGGCCGCTCTCCTCCCTGCTCCTTGGGTCTGCGAGTGGCATCTCCTGAGGGCAGGAAGGGGAGTTGCGAGGAGCT
CCAGTCCGGGGCTCTCCACCCGCCCACCTTCTCGGGACTACCAGTTGCTTCTACCTTTAGCATTTCTGCTTC
CGCCGCTCTCCCGGGGTACGATAACGAGGAGCGCGTAGCCACGCCAGCCCCCTGCGCCCAGCATTTGCGACTGAG
ATCAGCATTTTCCGCAAGGAATCCATGGCCGCTGCACAGCCAGCGGAGCGCCCACGGGAGCTCCCCGCAGCCGC
AAGCTGTTGCCGCGCGGTCTCACTACCCCTTGGCGCAGGCTAGAGCGCCCTATAGCAGAAACCATAGATAAGCGG
CCGGCTAGAGAGGACCTGCTCGAGGAAACGTTTGAATCCGGAGCGCTTGATCTCAGGTTTAGCTGAGGGGGT
GAGGTGTCCAAGAAGTGTGTCACCAAGGGCTGAGCGCGGGGACCCTGTGTCTCAATTCCGGGGTGGGATTGCT
AGGGGGAGAGTGCCTGTCTTTCATGGTTGCCGTGGGTTTTATGATTGCCATTTTTCTGTCTTCCGACGTTTTCCCG
ATCAGTAGAGGCCCCGAGCTGTGCTCTGTGGTTTCTGCGAGTACCCGCGAGTTTTTCAACACAGCGCATGGAGGGC
ATCTACACACATACACATCCCTCTCCATCCCCCTCAACTCTGGAACAAACACTCAAAGTCAAGTATACTGGTTGGA
GAAATGGGTAAATAGTTACTTATCTTTAACATTTATTTTACAAACAACCTATTCTTTTTCTCGTCATGGTACACAC
TTGGTATTGTTTGGGTTTTTTTTTGGTTTTGTTGTTGTTGTTAGTGTGTGGGCGTGGTTTTGTTTGGTGGAG
ACAAGGTCTCGCTCTGTGCGCCAGGGCTGGAGTGCAGTGGCGCGATCATGGCTCACTGAAGCCTCGACTTCCAGG
GCCCCAAGCGATCCTCCTGCCTCAACCTCCCGGATAGCTGGGATTACAGGCGTGCACCAACACGCCCCGGCTGGTAT
TGCTTTTTGTTTTGCTTCGTTTTCTTTTTTGGTTTTGAGACAGAGTCTCACTCTGTTGCCAGCTGGAGTGCAG
TGGCGTGATCTCGGCTCACTGCAAGCTCTGCCTCCCGGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGC
TGGGACTACAGGCGCCCCGCCACCACGCGCCGCTAATTTTTTGTATTTTTAGTAGAGAAAGAGTTTCACTATGTAG
GTCAGGCTGGTCTCGAATCCTGACCTCGTGATCCGCCCCAATCCGCCACCTCGGCCTCCCAAAGTGTGGGATT
ACAGGTGTGAGCCACCGCGCCCGGCTGTTTTGCTTTGTTTTCAACCACTAAAAGGCTGGATTCTGTGTAACATACT
GAATCTGCTTTACAGAAGAAAACACCTCTTAGCTGTGTGACTGATTATAGGCAAGTTCTTGTGCCCCGGTTTTCT
GCATCAGAAAATGAAGCTTATAACAACAGTACTTGTCTCACAGTTTTAGGATAATTAAATTAGTTATATGTAAAG
CAATTAACAGCTCCTGCCAAAGAGTAAACACCATATAAATATTCAATTAATAACATACAAACATACCAGGTTG
GGAAAAATCAGTAAGCATAGGAGTCAGGAAATTCAGGTTGGTTATCACAACCTCTTGGCCACAGGGCTTTAATC
CAGGTGCCCTTGTCTCCTACCCTTGTGCCATCCAGTGTCTCCAGGGAGTAAGTAGAAATAAAGATCCTATCTC
ACCTCTTGGGCATTTTCCCCTGCCCTGAAAGCGTATAATCGCTTAGCACAGTCGGTGCTTAAGGGGCCAGGCTCC
AAAGAAGATTAAAGGAACAGTTTGTGGGGTGCAGTGGGCAGCAGTACTCTCCTCTGAGTTCAATCATCTTGCAGT
CTAAGAATCACCACCATGGCCCTTGTGCCAGGGAGAAAGCAAGGAGGATGGGCTTTGGACTAGAAATAGCCCAGGC
TCCTCCAGCATCCAGAAAGTCCCAGGCTGCCCAACCTCTCTGGGACAGAGGAAAAATTGGCAAGGTTGAAGGT
CACCAGCACATTAGGATTTCTCTCAAAAGTCCCATCTGCCGCTATTGTGGTGAATCCAGTGAGGTGAATGAA
GAGAGTGGGGATCTCCATTTGCCCCATGAGGAGCTGCTGCTGCTCACTGATGGTGAGGAAGAGGATGCTGAGGCC
TTCTTCCAAGACCAAAGTGAAGAGCCAGGCTGGGCTTGGAGCCACAGGACCCTAGAAGTCTTTAAGAACATTT
AACGCTGGACTCAGCTGGGGGCAGGACCAGGATGAAGAAAGATGCTTGTGGATTCTTGAGGACACAGCATGTCTG
GAAGCCACCAACCACTGTCCCTTCTGGGACTCAACAGGCTCCCGTGTGTTGTAGAAGTGGCTTTGTGGAATATTCC
CATCTCCTGCCTCCTAATAGCTTTGAGGGAGCTGAAGAAGAAGCTGTTCAAACGCCGGCGGGTGTGTAATCGGGA
GCGGCGTCTGAGGCACCGGGTGGTGGGGCTGTGATAGACCAAGGGCTGATCACGCGGCACCACTCAAGAAGCG
GGCGTCCAGTGACGTGCCAACATTACACTGTGAGGGAAGAAGCGCAGAAAACCTCCTCCAGCAGATCCGGCTTGC
CCAGAAAGAGAAGACAGCCATGGAAGTGAAGGCCCTTCAAAGCCAGCCAGGACTAGTGAACCACAGCTCAAAAG
GCAAAAGAAGACAAAAGCCCCCAGGATGTAGAAATGAAGGACCTTGAAGATGAGAGCTAAACCTCTTCCACTAG
AAGATTCTCAACTGGAGCCAGCCTTCAGACTCAGTGGTTGTTTTCAGAGGACTTTGACAAAAGCAAGGCCCTTTT
CACTCTCCAGATTTCTCTACCTAATGGCCTACTGACCTCCCTAGAGGGATGTCTTTGGGAGGGAAGAAGGTA
CAGAAGAAAGATTGGAGAAGGGCCTCTCTAGCAGTCAACTCCATTTGTAATAAAGCCCTAGCACTCTGAAAAAA
AAAAAAAAAAAA

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FIGURE 3237

MKKMLVGFLRTQHVWKPPTTVPSGTQQAPVFVEVALWNIPISCLLI~~AL~~RELKKKLFKRRRVLNRRERLRHRVGA
VIDQGLITRHHLKKRASSARANITLSGKKRRKLLQQIRLAQKEKTAMEVEAPSKPARTSEPQLKRQKKTAPQDV
EMKDLEDES

3511/6881
FIGURE 3238

GGCACGAGGGGCTGCTATAGAGCCGGGTGAGAGAGCGAGCGCCCGTCGGCGGGTGTCGAGGGCGGGTTGCCTCGC
GCTGACCCTTCCCGCCCTCCTTCTCGTCACACACCAGGTCCCCGCGGAAGCCGCGGTGTCGGCGCCATGGCGGAG
CTGACGGCTCTTGAGAGTCTCATCGAGATGGGCTTCCCCAGGGGACGCGCGGAGAAAGGCTCTGGCCCTCACAGGG
AACCAGGGCATCGAGGCTGCGATGGACTGGCTGATGGAGCACGAAGACGACCCCGATGTGGACGAGCCTTTAGAG
ACTCCCCTTGACATATCCTGGGACGGGAGCCCCACTTCCTCAGAGCAAGGCGGCCTTGAAGGATCTGGTTCTGCT
GCCGGAGAAGGCCAAACCCGCTTTGAGTGAAGAGGAAAGACAGGAACAACTAAGAGGATGTTGGAGCTGGTGGCC
CAGAAGCAGCGGGAGCGTGAAGAAAGAGAGGAACGGGAGGCATTGGAACGGGAACGGCAGCGCAGGAGACAAGGG
CAAGAGTTGTCAGCAGCACGACAGCGGCTACAGGAAGATGAGATGCGCCGGGCTGCTGAGGAGAGGCGGAGGGAA
AAGGCCGAGGAGTTAGCAGCCAGACAAAGAGTTAGAGAAAAGATCGAGAGGGACAAAGCAGAGAGAGCCAAGAAG
TATGGTGGCAGTGTGGGCTCTCAGCCACCCCCAGTGGCACCAGAGCCAGGTCCTGTTCCCTCTTCTCCCAGCCAG
GAGCCTCCCACCAAGCGGGAGTATGACCAGTGTGTCATACAGGTCAGGCTGCCAGATGGGACCTCACTGACCCAG
ACGTTCCGGGCCCCGGGAACAGCTGGCAGCTGTGAGGCTCTATGTGGAGCTCCACCGTGGGGAGGAACTAGGTGGG
GGCCAGGACCCTGTGCAATTGCTCAGTGGCTTCCCCAGACGGGCCTTCTCAGAAGCTGACATGGAGCGGCCTCTG
CAGGAGCTGGGTATGGCTGCAAGACTAGAAAACCAGGACTAGAACTGGGGGAGTAGGGAGGCATGCCTAGGAAAA
GGAGGGATGCAAAGAGAAGGGGCTTTGTGAACATGGTGAAGGCCAGGAATTTTGGGAGCAAAAACCAAGTATCC
TTGTGGTTCAAGCCTGTTTTCTTCCATCTTCAGGACTCGTGCCTTCTGCTGTTCTCATTGTGGCCAAGAAATGTC
CCAGCTGAGGGCCTTTGTCCATTGTCCCTCTGTGACCCCTTCATCTTTGATAAAGCACTGACATCTCCTTCCTA
ATAAATAGACCCTGAGTTCTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3239

MAELTALES LIEMGFPRGRAEKALALTGNQGIEAAMDWLMEHEDDPDVDEPLETPLGHILGREPTSSEQGGLEGS
GSAAGEGKPALSEEERQEQTKRMLELVAQKQREEREEREEREALERERQRRRQGQELSAAARQLQEDEMRRAAEER
RREKAEELAARQRVREKIERDKAERAKKYGGSVGSQPPFVAPEPGVPSSPSQEPPTKREYDQCRIQVRLPDGTS
LTQTFRAREQLAAVRLYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQELGMAARLETRTRNWSREAC
LGKGMQREGAL

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FIGURE 3240

GGCACGAGGCCTAAGAGTTCCCTCTGCTGTACGACTGCACTCCCGCACCCCTCCCCTAAATCCCCCTCTTCGGCCT
GTTTACCTTTTAACTTGGCTTCGTTCACGTTTGTGTGTGTGTGTGTTTGTCTTCGCAGCCTCTTGAGCGTCTTTT
GTACTTAATTCTTACACTGTGGACGCTCTCTCGCGCCCGCCATCCCCGACCCCTCTGATCTCCGATCCTTGACG
ATGTCTAGCCTGCATTGATTGGCCCTTTTCCCTGGGTATGGCAGATCTATTGCTTGATGATCCTCTCCCCCAAG
AATTCTAACACAGGAGCTGTCTGAGGCTCTGGATGACTTTATTCTTCAAATGGCTTTACCCCTCCCAGTAGCTCC
AGGGACCCCTCCATTTTCCATATCCAGGAAAATGTGATGCGCCACAGGTATCAGCGTCTGGATCGCCACTTCACGT
TTTAGCCACAAGTGACTCAGTGGAAGATCCAGAGTCAACAGAGGCTCGTCAGGAAGATGCTCTACAGAAAAGGTAG
ACCAAAGGAGGAAGCTGGGGAAAAAGAGGTGTGCGGAGACCAGATCAAAGGACCGGACAAAGAGGAGGAACCA
CAGCTGCTGCATCCCATGGCCAGGGGTGGCGTCCAGGTGGCAGAGCAGCTAGGAACGCAAGGCCTGAACCTGGGG
CCAGACACCCCTGCTCTCCCGGCCATGGTCAACGACCCCTCCAGTACCTGCCTTACTGTGGGGCCAGGAGGTGGGCC
AAGTCTTGGCAGGCCGTGCCCGCAGGCTGCTGCTGCAGTTTGGGGTGCTCTTCTGCACCATCCTCCTTTTGCTCT
GGGTGTCTGTCTTCCCTCTATGGCTCCTTCTACTATTCCATATGCCGACAGTCAGCCACCTCAGCCCTGTGCATT
TCTACTACAGGACCGACTGTGATTCCCTCCACCACCTCACTCTGCTCCTTCCCTGTTGCCAATGTCTCGCTGACTA
AGGGTGGACGTGATCGGGTGCTGATGTATGGACAGCCGTATCGTGTTACCTTAGAGCTTGAGCTGCCAGAGTCCC
CTGTGAATCAAGATTTGGGCATGTTCTTGGTCAACATTTCCCTGCTACACCAGAGGTGGCCGAATCATCTCCACTT
CTTCGCGTTTCGGTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGACACACTGGTCTTCTCTAGCCTCC
TGCTATTTGGCTTTGCAGAGCAGAAGCAGCTGCTGGAGGTGGAACCTCTACGCAGACTATAGAGAGAACTCGTACG
TGCCGACCACTGGAGCGATCATTGAGATCCACAGCAAGCGCATCCAGCTGTATGGAGCCTACCTCCGCATCCACG
CGCACTTCACTGGGCTCAGATACCTGCTATACAACTTCCCGATGACCTGCGCCTTCATAGGTGTTGCCAGCAACT
TCACCTTCCTCAGCGTCATCGTCTCTTCACTACATGCAGTGGGTGTGGGGGGGCATCTGGCCCCGACACCGCT
TCTCTTTGCAGTTAACATCCGAAAAAGAGACAATTCCCGGAAGGAAGTCCAACGAAGGATCTCTGCTCATCAGC
CAGGTGCAGGGCCTGAAGGCCAGGAGGAGTCAACTCCGCAATCAGATGTTACAGAGGATGGTGAGAGCCCTGAAG
ATCCCTCAGGGACAGAGGGTCAGCTGTCCGAGGAGGAGAAACCAGATCAGCAGCCCCTGAGCGGAGAAGAGGAGC
TAGAGCCTGAGGCCAGTGATGGTTCAAGGCTCCTGGGAAGATGCAGCTTTGCTGACGGAGGCCAACCTGCCTGCTC
CTGCTCCTGCTTCTGCTTCTGCCCCGTCTAGAGACTCTGGGCAGCTCTGAACCTGCTGGGGGTGCTCTCCGAC
AGCGCCCCACCTGCTCTAGTTCCTGAAGAAAAGGGGCAGACTCCTCACATTCCAGCACTTTCCCACCTGACTCCT
CTCCCCCTCGTTTTTCTTCAATAAACTATTTTGTGTCAGCTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3241

MSTEKVDQKEEAGEKEVCGDQIKGPDKEEPPAAASHGQGWRPGGRAARNARPEPGARHPALPAMVNDPPVPALL
WAQEVGQVLAGRARRLLLQFGVLFCTILLLLWVSFLYGSFYYSYMP TVSHLSPVHFYYRTDCDSSTSLCSFPV
ANVSLTKGGRDRVLMYGQPYRVTLLELELPESPVNQDLGMFLVTISCYTRGGRIISTSSRSVMLHYRSDLLQMLDT
LVFSSLLLF GF AEQQLLEVELYADYRENSYVPTTGAIIEIHSKRIQLYGAYLRIHAHFTGLRYLLYNFPMTCAF
IGVASNFTFLSVIVLFSYMQVWGGIWPRHRFSLQVNIRKRDNSRKEVQRRISAHQPGAGPEGQEESTPQSDVTE
DGESPEDPSGTEGQLSEEEKPDQQPLSGEEELEPEASDGSGSWEDAALLTEANLPAPAPASASAPVLETLSSEP
AGGALRQRPTCSSS

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FIGURE 3242

GGCACGAGGGAGCGCTTGGGAGTTAGGTTGTTTGCCGGCGTAGCGGCCAGCGCCTGAGCCCGCCGTTGATCTTCG
CTGTGGC**ATG**GGCGGACGAGGGGAAGTCGTACAGCGAACACGATGATGAACGCGTTAATTTCCCTCAAAGAAAGAA
GAAAGGCCGGGGTCCCTTCCGGTGGAAATATGGTGAAGGAAACCGTAGGTCTGGAAGAGGCGGTTCTGGTATTTCG
GTCTTCCCGCCTTGAGGAAGATGATGGAGATGTGGCAATGAGTGATGCCAGGATGGTCCCCGAGTACGATACAA
CCCTATACCACCCGACCTAACCGTCGGGGTGATACTTGCCATGATCGAGATCGCATTGTTACTGTGCGGAG
AGACAGAGCTCCTCCAGAGAGAGGAGGGGCTGGCACCAGCCAGGATGGGACCTCAAAGAACTGGTTCAAGATTAC
AATTCCTTATGGCAGAAAGTATGACAAGGCATGGCTCCTGAGCATGATTCAGAGCAAGTGCAGTGTGCCCTTCAC
CCCTATTGAGTTTCACTATGAGAATACACGGGGCCAGTTCTTCGTTGAAGACGCCAGTACTGCCTCTGCATTGAA
GGCTGTCAACTATAAGATTTTGGATCGGGAGAACCGAAGGATATCTATCATCATCAACTCTTCTGCTCCACCCCA
CACTATACTGAATGAAGTGAAGCCAGAACAAGTAGAACAGCTAAAGCTGATCATGAGCAAACGATACGATGGCTC
CCAACAAGCCCTTGACCTCAAAGGCCTCCGTTGAGACCCAGATTTGGTGGCCAGAACATTGACGTTGTCTTGAA
TCGCAGAAGCTGTATGGCAGCTACCCTGAGGATCATTGAAGAGAACATCCCTGAGCTATTGTCTTGAAGTTGAG
CAACAACAGGCTGTACAGGCTGGATGACATGTCTAGCATTGTTGAGAAGGCACCCAACTGAAGATCCTAAACCT
TTCTGGAAATGAATTGAAGTCTGAGCGGGAATTGGACAAGATAAAGGGGCTGAAGCTAGAAGAGCTCTGGCTCGA
TGGAAGCTCCCTGTGTGACACCTTCCGAGACCAGTCCACCTACATCAGCGCCATTTCGGAACGATTTCCCAAGTT
ACTACGCCTGGATGGCCATGAGCTACCCCCACCAATTGCCTTTGATGTTGAAGCCCCACGACGTTACCGCCCTG
CAAGGGAAGCTATTTTGAACAGAAAAGTGAAGAGTCTGGTCTTGCACTTCTGCAACAGTACTATGCAATTTA
CGACTCTGGAGACCGACAAGGGCTCCTGGATGCCTACCATGATGGGGCCTGCTGTTCCCTGAGCATTCCTTTTCAT
TCCTCAGAACCCTGCCCAGAGCAGCTTAGCCGAGTATTTCAAGGATAGCAGAAATGTGAAGAAGCTTAAAGACCC
TACCTTGCGGTTCCGGCTGCTGAAGCACACGCGTCTCAACGTTGTTGCCTTCCTCAATGAGTTGCCCAAAACCCA
GCACGACGTCAATTCCTTCGTGGTAGACATAAGCGCCAGACAAGCACATTGCTGTGTTTTTCTGTCAATGGAGT
CTTCAAGGAAGTGGACGGAAGTCCCGGGATTCTTTGCGAGCCTTACCCGGACATTGCTGTTCTGCTAG
CAATTCAGGGCTATGTATTGTAAATGATGAGCTATTTGTGCGGAATGCCAGTTCTGAAGAGATCCAAAGAGCCTT
CGCTATGCCTGCACCCACGCCTTCCCTCCAGCCCGGTGCCACCCCTCTCTCCAGAGCAGCAGGAAATGTTGCAAGC
ATTCTCTACCCAGTCTGGCATGAACCTCGAGTGGTCCCAGAAGTGCCTTCAGGACAACAAGTGGGACTACACCAG
ATCTGCCCAGGCCTTCACTCATCTCAAGGCCAAGGGCGAGATCCAGAAGTGGCATTGATGAAG**TGAT**CGTAGTC
ATGCCTCAGAAGCAGTCCCCCTGTAAATAGTCCTTGGATATTACCGTCTGGTTGTCGTCTGTCATCTCCTCCTG
TCTGGCCCGAGGCCGCCCCGTGACTGTGACCGAGGGAGGGAGGGCTGCCTGATCCCTCTCCTCGCCTGCCTTCTG
GAAGACTTCAGAAGATTGAGCCTCACTGGTGCCAGGAAGCCAAAGCTTACTTTGTAGAACTGACACTAACTACC
CGAAGGACTTAGGTGCTTTGTGTACTTAACCCAGGACCTCCTTACTTTTTAATATAAAGAGTGATGTTGTAAAA
AAAAAAAAAAAAAA

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FIGURE 3243

MADEGKSYSEHDDERVNFPQRKKKGRGPFRWKYGEGNRRSGRGGSGIRSSRLEEDDGDVAMSDAQDGPVRVYNPY
TTRPNRRGDTWHDRDRIHVTVRRDRAPPERGGAGTSQDGTSKNWFKITIPYGRKYDKAWLLSMIQSKCSVPFTPI
EFHYENTRAQFFVEDASTASALKAVNYKILDRENRRISIIINSSAPPHTILNELKPEQVEQLKLIMSKRYDGSQQ
ALDLKGLRSDPDLVAQNIDVVLNRRSCMAATLRIIEENIPELLSLNLSNNRLYRLDDMSSIVQKAPNLKIILNLG
NELKSERELDKIKGLKLEELWLDGNSLCDTFRDQSTYISAIRERFPKLLRLDGHELPPPIAFDVEAPTTLPPCKG
SYFGTENLKSLVLHFLQQYYAIYDSGDRQGLLDAYHDGACCSLSIPFIPQNPASSLAEIFKDSRNVKKLKDPTL
RFRLKHKTRLNVVAFNLNLPKTQHDVNSFVVDISAQTSTLLCFSVNGVFKEVDGKSRDSLRAFTRTFIAPASNS
GLCIVNDEL FVRNASSEEIQRAFAMPAPT PSSSPVPTLSPEQQEMLQAFSTQSGMNLEWSQKCLQDNNWDYTRSA
QAFTHLKAKGEIPEVAFMK

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FIGURE 3244

GAAC TTGCGGCGCGAAAAAGGCGCGCATGCGTCCTACGGGAGCGTGCTGGCTCACCGACCGCATTGCGGCTTGGT
TTTCTCACCCAGTG CATGTGGCAGGAGCGGTGAGATCACTGCCTCACGGCGATCCTGGACTGACGGTCACGACTG
CCTACCCCTCTAACCCCTGTTCTGAGCTGCCCCCTTGCCACACACCCCAAACCTGTGTGCAGGATCCGCCTCCATGG
AGCTACAGCCTCCTGAAGCCTCGATCGCCGTCGTGTGATTCCGCGCCAGTTGCCTGGCTCACATTGCGGAGGCTG
GTGTCCAGGGTCTCAGCGCGGGGGACGACTCAGAGTTGGGGTCTCACTGTGTTGCCCAGACTGGTCTCGAACTCT
TGGCCTCAGGTGATCCTCTTCCCTCAGCTTCCCAGAATGCCGAGATGATAGAGACGGGGTCTGACTGTGTTACCC
AGGCTGGTCTTCAACTCTTGGCCTCAAGTGATCCTCCTGCCTTAGCTTCCAAGAATGCTGAGGTTACAGTAGAAA
CGGGGTTTTACCATGTTAGCCAGGCTGATATTGAATTCCTGACCTCAATTGATCCGACTGCCTCGGCCTCCGGAA
GTGCTGGGATTACAGGCACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAGCTGAATGAGTTAGAGC
CCGAGAAGCAGCCGATGAACGCGGCGTCTGGGGCGGCCATGTCCCTGGCGGGAGCCGAGAAGAATGGTCTGGTGA
AGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGCAGCCGCGGCTAAGTTACGGGCGCTGTCCAAGGAGGAGCTGC
TGAAGGTGGCAGGCAGCCCCGGCTGGGTACGCACCCGCTGGGCACTGCTGCTGCTCTTCTGGCTCGGCTGGCTCG
GCATGCTTGCTGGTGCCGTGGTCATAATCGTGCGAGCGCCGCGTTGTGCGGAGCTACCGGCGCAGAAGTGGTGGC
ACACGGGCGCCCTCTACCGCATCGGCGACCTTCAGGCCTTCAGGGCCACGGCGCGGGCAACCTGGCGGGTCTGA
AGGGGCGTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCCTTGTGCTGGGTCCAATTACACAAGAACCAGAAGG
ATGATGTCGCTCAGACTGACTTGCTGCAGATCGACCCCAATTTTGGCTCCAAGGAAGATTTTGACAGTCTCTTGC
AATCGGCTAAAAAAAAGAGCATCCGTGTCTATTCTGGACCTTACTCCCAACTACCGGGGTGAGAACTCGTGGTTCT
CCACTCAGGTTGACACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTTTGGCTGCAAGCTGGCGTGGATGGGT
TCCAGGTTCCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTGGCTGAGTGGCAAAATATCACCAAGGGCT
TCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCCTCCGACCTTCAGCAGATCCTGAGCCTACTCGAATCCA
ACAAAGACTTGCTGTTGACTAGCTCATACCTGTCTGATTCTGGTTCTACTGGGGAGCATACAAAATCCTTAGTCA
CACAGTATTTGAATGCCACTGGCAATCGCTGGTGCAGCTGGAGTTTGTCTCAGGCAAGGCTCCTGACTTCCTTCT
TGCCGGCTCAACTTCTCCGACTCTACCAGCTGATGCTCTTCACCCTGCCAGGGACCCCTGTTTTTACGTACGGGG
ATGAGATTGGCCTGGATGCAGCTGCCCTTCTGGACAGCCTATGGAGGCTCCAGTCATGCTGTGGGATGAGTCCA
GCTTCCCTGACATCCAGGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCCTGGCTCCCTCC
TTTCCTTGTTCCGGCGGCTGAGTGACAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGACTTCCACGCGTTCT
CCGCTGGGCCTGGACTCTTCTCCTATATCCGCCACTGGGACCAGAATGAGCGTTTTTCTGGTAGTGCTTAACTTTG
GGGATGTGGGCCTCTCGGCTGGACTGCAGGCCTCCGACCTGCCTGCCAGCGCCAGCCTGCCAGCCAAGGCTGACC
TCCTGCTCAGCACCCAGCCAGGCCGTGAGGAGGGCTCCCTCTTGAGCTGGAACGCCTGAAACTGGAGCCTCACG
AAGGGCTGCTGCTCCGCTTCCCTACGCGGCCTGACTTCAGCCTGACATGGACCCACTACCTTCTCCTTTCTCTT
CCCAGGCCCTTTGGCTTCTGATTTTTCTCTTTTTTAAAAACAAACAAACAACTGTTGCAGATTATGAGTGAACC
CCCAATAGGGTGTTTTCTGCCTTCAAATAAAAGTCACCCCTGCATGGTG

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FIGURE 3245

GACAGCGGCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACAGCAGCAGCCTCACCATGAAGTTGCTGATG
GTCCTCATGCTGGCGGCCCTCTCCCAGCACTGCTACGCAGGCTCTGGCTGCCCCTTATTGGAGAATGTGATTTCC
AAGACAATCAATCCACAAGTGTCTAAGACTGAATACAAAGAACTTCTTCAAGAGTTCATAGACGACAATGCCACT
ACAAATGCCATAGATGAATTGAAGGAATGTTTTCTTAACCAAACGGATGAAACTCTGAGCAATGTTGAGGTGTTT
ATGCAATTAATATATGACAGCAGTCTTTGTGATTTATTTTTAACTTTCTGCAAGACCTTTGGCTCACAGAACTGCA
GGGTATGGTGAGAAACCAACTACGGATTGCTGCAAACCACACCTTCTCTTTCTTATGTCTTTTTACTACAAACTA
CAAGACAATTGTTGAAACCTGCTATACATGTTTATTTTAATAAATTGATGGCA

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FIGURE 3246

MKLLMVLMLAALSQHCYAGSGCPLEENVISKTINPQVSKTEYKELLQEFIDDNATTNAIDELKECFLNQTDETLS
NVEVFMQLIYDSSLCDLF

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FIGURE 3247

CGCCGCCGCTCCAGCGCCGCGCAGCCACCGCCGCCGCCGCTCTCCTTAGTCGCCGCCATGACGACCGCGTC
CACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTA
CGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATA
CTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCG
AATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATT
ACATTTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACATGAAAGCCATCAAAGA
ATTGGGTGACCACGTGACCAACTTGCGCAAGATGGGAGCGCCGAATCTGGCTTGGCGGAATATCTCTTTGACAA
GCACACCCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCT
GGTCACCAAGGCAGTGCATGCATGTTGGGG

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FIGURE 3248

CTGGTGGGGGGAAGAAGGCTCCTGCTACCTCCCTTCCCGGCACCCTCCAGAGGGACCCTCAGTCTGGCCTTGCAA
GCATGGACTCTTCTGAGGAGCACGCTGGGTGCCCCGCCCGAGGGACATGTCCCGTGTTCTGGCCATGAGTGCAG
GGACTGTCCGCTACGCCCCATCAGGCCTGTGCCCTGTACTTGAGGGGAACTTGAGAGAAGAGCCCTGGGGCACAG
ACAGCCCACCCCAGCCAGACCAGGGCCCTCCCGCCGCCCTTGCAGCTGTCCCGGTCCCCTGGAAGAGCACGGACC
CCTGCCAAGGCCACAGGGAGTCCCCAGGAGCCCTGGTGGAGACCTCTGCAGGGGAGGAGGCCCGAGGCCAGGAGG
GCCCCGCAGCCGCCAGCTGGACGTGTTGCGCCTGCGCAGCTCTTCCATGGAGATCCGAGAGAAGGGCTCCGAGT
TCCTGAAGGAGGAGCTGCACAGAGCGCAGAAGGAGCTGAAGCTAAAGGACGAGGAATGTGAGCGGCTGTCCAAGG
TGCGGGAGCAGCTAGAACAGGAGCTGGAAGAGCTGACGGCCAGCCTGTTTGAGGAAGCTCACAAGATGGTTTCGAG
AAGCCAACATGAAGCAGGCGGCATCAGAAAAGCAGCTGAAGGAGGCTCGGGGCAAGATCGACATGCTGCAGGCAG
AGGTGACAGCCTTGAAGACGCTGGTCATCAGTCCACACCAGCCTCTCCCAACCGCGAGCTTACCCCCAGCTGC
TGAGCCCCACCAAGGCCGGGCCCCGAAAGGGCCACTCTCGCCACAAGAGCACCAGCAGCACCCCTCTGCCCCGCCG
TGTGTCCCGCTGCGGGACACACCCTCACCCCAGACAGAGAGGGCAAGGAGGTGGACACAATCCTGTTTGCAGAGT
TCCAGGCCTGGAGGGAATCCCCACCCTGGACAAGACCTGCCCCCTTCTGGAAAGGGTGTACCGGGAGGACGTGG
GCCCCCTGCCTGGACTTCACGATGCAGGAGCTCTCGGTGCTGGTACGGGCCGCCGTGGAGGACAACACGCTCACCA
TTGAGCCGGTGGCTTCGCAGACGCTGCCACAGTGAAGGTGGCCGAGGTTGACTGTAGCAGCACCAACACATGTG
CCCTGAGCGGGCTGACCCGCACCTGCCGCCACCGAATCCGGCTCGGGGACTCCAAAAGCCATTACTACATCTCGC
CATCTTCCCGGGCCAGGATCACCGCAGTGTGCAACTTCTTACCTACATCCGCTACATCCAGCAAGGCCTGGTGC
GGCAGGACGCAGAGCCCATGTTCTGGGAGATCATGAGGTTGCGGAAGGAGATGTCACTGGCCAAGCTCGGCTTCT
TCCCCCAGGAGGCTTAGGGCGCGGCCAGGCCTGAAGGGGAGCTCTGAGACAGAGCAAACACCCACCCCAGAACA
AGCCGACACACAGGGAGACGGGGGCCTGGAGCCAGCCCTGAGCCAGAGGCAGAATGGATGGACAGACAGGCCATG
GAGGCAGCACTGAGCCAGCACACACGTCCATCCTGGGACAGACGGGCCTGGACTTCACGGCAAGACCCCCCTCT
CTTCCCCACTGGGTTCCTGCCACCACCAGGAGGATTTCAAGAAAAGCACCAAAGACCAGGGAGCTCGGATCCATACT
CGGGGGGCCTCAGCCCTTGGGAGGGGACACCTGAGGCAGCCAGCGCCCCCTCCCCAGTCCCCAGAACTGCCTGCA
GGTGCCCTTGTTGCTGGCTTGTCTTCAGAAAGGGACTGTTCTGGGTGGCTGGATCTCCAGGGTACCCTCCACCCCA
GCTGCCAAGCCCTGGGCCAGCAGCACCCCTTGTGGCCATCCTGTGCCTTGTTCCCGGTGGCCTCCCTATTGGAC
TACTAGGAGGGGCTGGCAGGGCCTCCATAGCACAGAATTGCCCAAAGCCTTGTTAAGATGAGTCAAGACCCCTC
CCCCGCTTCTTCCCTTCTTCCCCCTTCCCTCCCTCCCCCTTCACAAAGGCCTCCCTTGTCACCTTCCCTCCCAC
CCCGTCTCAGCCCTGTGCTCCTGGAGGCCCTGCTCCCCAAAACCGCTGGAAGGACTGGGGCACTTTCTGCCACAGT
AGAACACAGACAGGGCTTCAGATCGCCACGCCTGTTTTAGCTGTGGGTGGCCATGCAGACACGCGCCCTGGCA
TGTGGGGCCTGGGTGGGCAGGACCTGGGCCCTCCCACCCATCAGAGCCCACTCAGGACCAGCGTTTCGGAGC
TCCCACCTGGACGCATCCCTCACCACGTCCGGATTTCTTCTTTGGATGGAATGTAACGCGATCTCTATTTAATA
AAGGCAGGCTTTGTTGGT

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FIGURE 3249

AGGGGGCGCGGTGGGAGGAGTAGGAGAAGACAAAAGCCGAAAGCGAAGAGGGCCCCGGGCTGCACACACCGGCTGG
GAGGCAGCCGCTCTGTGCAGCGAGCAGCCGGCGCGGGGAGGCCCGCAGTGCACGGGGCGCTCACAGTCGGCAGGCAGC
ATGGGGAAGGGAGGGAACCAGGGCGAGGGGGCCGCCGAGCGCGAGGTGTCGGTGCCACCTTCAGCTGGGAGGAG
ATTGAGAAAGCATAACCTGCGCACCGACAGGTGGCTGGTTCATTGACCGCAAGGTTTACAACATCACCAAATGGTCC
ATCCAGCACCCGGGGGGGCCAGCGGGTCATCGGGCACTACGCTGGAGAAGATGCAACGGATGCCTTCCGCGCCTTC
CACCTGACCTGGAATTCGTGGGCAAGTTCTTGAAACCCCTGCTGATTGGTGAACCTGGCCCCGAGGAGCCCAGC
CAGGACCACGGCAAGAACTCAAAGATCACTGAGGACTTCCGGGCCCTGAGGAAGACGGCTGAGGACATGAACCTG
TTCAAGACCAACCACGTGTTCTTCTCCTCCTCCTGGCCCCACATCATCGCCCTGGAGAGCATTGCATGGTTCACT
GTCTTTTACTTTGGCAATGGCTGGATTCTACCTCATCACGGCCTTTGTCTTGCTACCTCTCAGGCCCAAGCT
GGATGGCTGCAACATGATTATGGCCACCTGTCTGTCTACAGAAAACCCAAGTGAACACCTTGTCCACAAATTC
GTCATTGGCCACTTAAAGGGTGCCTCTGCCAACTGGTGAATCATCGCCACTTCCAGCACCACGCCAAGCCTAAC
ATCTTCCACAAGGATCCCGATGTGAACATGCTGCACGTGTTTGTCTGGGCGAATGGCAGCCCATCGAGTACGGC
AAGAAGAAGCTGAAATACCTGCCCTACAATCACCAGCACGAATACTTCTTCTGATTGGGCGCGCGCTGCTCATC
CCCATGTATTTCCAGTACCAGATCATCATGACCATGATCGTCCATAAGAACTGGGTGGACCTGGCCTGGGCCGTC
AGCTACTACATCCGGTTCTTCATCACCTACATCCCTTTCTACGGCATCCTGGGAGCCCTCCTTTTCTCAACTTC
ATCAGGTTCTTGAGAGCCACTGGTTTGTGTGGGTACACAGATGAATCACATCGTCATGGAGATTGACCAGGAG
GCCTACCGTGACTGGTTAGTAGCCAGCTGACAGCCACCTGCAACGTGGAGCAGTCCTTCTTCAACGACTGGTTC
AGTGGACACCTTAACTTCCAGATTGAGCACCACCTCTTCCCCACCATGCCCCGGCACAACTTACACAAGATCGCC
CCGCTGGTGAAGTCTCTATGTGCCAAGCATGGCATTGAATACCAGGAGAAGCCGCTACTGAGGGCCCTGCTGGAC
ATCATCAGGTCCCTGAAGAAGTCTGGGAAGCTGTGGCTGGACGCCTACCTTCACAA**TGA**AGCCACAGCCCCCGG
GACACCGTGGGGAAGGGGTGCAGGTGGGGTGATGGCCAGAGGAATGATGGGCTTTTGTCTGAGGGGTGTCCGAG
AGGCTGGTGTATGCACTGCTCACGGACCCCATGTTGGATCTTTCTCCCTTTCTCCTCTCCTTTTTCTCTTCACAT
CTCCCCCATAGCACCCCTGCCCTCATGGGACCTGCCCTCCCTCAGCCGTCAGCCATCAGCCATGGCCCTCCAGTG
CCTCCTAGCCCCCTTCTTCCAAGGAGCAGAGAGGTGGCCACCGGGGGTGGCTCTGTCTACCTCCACTCTCTGCCC
CTAAAGATGGGAGGAGACAGCGGTCCATGGGTCTGGCCTGTGAGTCTCCCTTGCAGCCTGGTCACTAGGCATC
ACCCCCGCTTTGGTTCTTCAGATGCTCTTGGGGTTCATAGGGGCAGGTCTTAGTCGGGCAGGGCCCCCTGACCCTC
CCGGCTGGCTTCACTCTCCCTGACGGCTGCCATTGGTCCACCCTTTTCATAGAGAGGCCTGCTTTGTTACAAAGC
TCGGGTCTCCCTCCTGCAGCTCGGTTAAGTACCCGAGGCCTCTCTTAAGATGTCCAGGGCCCCAGGCCCGCGGGC
ACAGCCAGCCCAAACCTTGGGCCCTGGAAGAGTCTCCACCCCATCACTAGAGTGCTCTGACCCTGGGCTTTCAC
GGGCCCCATTCCACCGCCTCCCCAACTTGAGCCTGTGACCTTGGGACCAAAGGGGGAGTCCCTCGTCTCTTGTGA
CTCAGCAGAGGCAGTGGCCACGTTCAAGGAGGGGCGGCTGGCCTGGAGGCTCAGCCCACCCTCCAGCTTTTCTT
CAGGGTGTCTGAGGTCCAAGATTCTGGAGCAATCTGACCCTTCTCCAAAGGCTCTGTTATCAGCTGGGCAGTGC
CAGCCAATCCCTGGCCATTTGGCCCCAGGGGACGTGGGCCCTGCAGGCTGCAGGAGGGCACTGGAGCTGGGAGGT
CTCGTCCCAGCCCTCCCCATCTCGGGGCTGCTGTGTGGACGGCGCTGCCTCAGGCACTCTCCTGTCTGAACCTGC
CCTTACTGTGTTTAACTGTTGCTCCAGGATGCATTCTGATAGGAGGGGGCGGCAGGGCTGGGCCCTGTGACAAT
CTGCCTTTACCACATGGCCTTGCTCGGTGGCCCTGACTGTGAGGGAGGGCCAGGGAGGCAGAGCGGGAGGGAG
TCTCAGGAGGAGGCTGCCCTGAGGGGCTGGGGAGGGGTACCTCATGAGGACCAGGGTGGAGCTGAGAAGAGGAG
GAGGTGGGGGCTGGAGGTGCTGGTAGCTGAGGGGACGGGCAAGTGAGAGGGGAGGGAGGGGAAGTCTGGGAGGAT
CCTGAGCTGCTGTTGCAGTCTAACCCTAATCAGTTCTTAGATTACAGGGGAAGGGCAGGCACCAACAACCTCAGA
ATGGGGGCTTTTCGGGGAGGGCGCCTAGTCCCCCAGCTCTAAGCAGCCAGGAGGGACCTGCATCTAAGCATCTGG
GTTGCCATGGCAATGGCATGCCCCCAGCTACTGTATGCCCCGACCCCCGAGAGGCAGAATGAACCCATAGGG
AGCTGATCGTAATGTTTATCATGTTACTTCCCCACCCCTACATTTTTTTGAAATAAAATAAGGAATTTTATTCTC

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FIGURE 3250

MGKGGNQGEAAEREVSVP TFSWEEIQKHNLRTDRWLVIDRKVYNITKWSIQHPGGQRVIGHYAGEDATDAFRAF
HPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITEDFRALRKTAEDMNLFKTNHVFFLLLLLAHIIALESIAWFT
VFYFGNGWIPTLITAFVLATSQAQAGWLQHDYGHLSVYRKPKWNHLVHKFVIGHLKGASANWWNHRHFQHHAKPN
IFHKDPDVNMLHVFVLGEWQPIEYGKKKLKYL PYNHQHEYFFLIGPPLLIPMYFYQYQIIMTMIVHKNWVDLAWAV
SYYIRFFITYIPFYGILGALLFLNFI RFLESHWFVWVTQMNHIVMEIDQEAYRDWFSSQLTATCNVEQSFFNDWF
SGHLNFQIEHHLFPTMPRHNLHKIAPLVKSLCAKHGIEYQEKPLLRALLDIIRSLKKSGLWLDAYLHK

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FIGURE 3251A

TCCACTCCTGGAGCCCGCGGACCCCGAGCACGCGCCTGACAGCCCCTGCTGGCCCGGCGCGCGGCGTCCGCCAGGC
CAGCT**ATG**GCCCCCGACCCGGTGGCCGCCGAGACCGCGGCTCAGGGACCTACCCCGCGCTACTTCACCTGGGACG
AGGTGGCCCAAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA
CCCGCCGGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGGGCAGGATGCCACGGATCCCTTTGTGGCCT
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAACCTCTCTCCTGATTGGAGAAGTGTCTCCAGAGCAGCCCA
GCTTTGAGCCCAACAAGAATAAAGAGCTGACAGATGAGTTCCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC
TCATGAAGGCCAACCATGTCTTCTTCTGCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCA
CCCTTTGGGTCTTTGGGACGTCTTTTGGCCCTTCTCCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCAGG
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTGGTCTTCAGCACCTCAAAGTGAACCATCTGCTACATCATT
TTGTGATTGGCCACCTGAAGGGGGCCCCCGCCAGTTGGTGGAAACCACATGCACCTCCAGCACCATGCCAAGCCCA
ACTGCTTCCGCAAGACCCAGACATCAACATGCATCCCTTCTTCTTTGCCTTGGGGAAGATCCTCTCTGTGGAGC
TTGGGAAACAGAAGAAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTTCCTAATTGGGCCCCCAGCCT
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA
TGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTTGGGCCCTTTTCT
TCATAGTCAGGTTCTTGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC
ATGACCGGAACATGGACTGGGTTTCCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTCCACGATGCCTCGACACAATTACCACAAAG
TGGCTCCCCCTGGTGCAGTCCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCCTGCTGTCAGCCTTCG
CCGACATCATCCACTCACTAAAGGAGTCAGGGCAGCTCTGGCTAGATGCCTATCTTCACCA**ATA**CAACAGCCAC
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT
AGTTTAATACTCAGAGGGGGTTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCCTCCCTTTTATCTTCTAGC
CACAGTTCTAAGACCCAAAGTGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT
AAATTATTTCTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTAAACACTAAAATTCCACTCATGCCGGGCGTGGTGGCACGC
GCCTGTAATCCAGCTACCCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAATCCACTC
ATATAAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTTGCAAACCTCAGAGGGA
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAACATTAATGCTTAGAATTCTGAGATCCAGCA
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA
TGCCATTCTCAGTTTTCAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA
TCCTGGAACCACTGATTTTGGTTTATTCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA
GATGGTAGAGAGAGTTGCTGGCTATTTAAAAAGCTCTTTCATCTTTTAATTCACCTCTTCTTTTCACTCTTTAA
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG
TTAGTCTTTTCTCCCTAGAAACAAAGGGGATGCCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT
AATAAAATAGCAATTAGCAGAAGTGACCAAAATGGGAGATAATTATCAGTCATGAGGAAAGACACAGATTTCCGT
CATAAAGAATGTAAGGGCTATAAGTAGAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTGGAGCAGGA
GCAGAAAGATTAAATATGATCACTTCTAATCAGAAATAGGAAGATTAAACCACAGAACAGTTTGTG
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAAGTATCTAACTCTTCTGGAAACCAATA
GGCTTTAGAAGAGATTATCCTATATTCTATCAGTATAATACTAAAATGTAACCTTTTAAATCATCTGGTTTTTAA
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAAAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA
TCAGCCCTCACACCCGCTTCCCCCTCCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCCTCTT
CAGCAGCATCTACTCTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACCTAGGAGGAAAAGAC
AGAGCCTCCACTTAGTTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCCTAAGGCATGTTGGGATAGG
GTCAGATGCACCACCCATGGAGAGGTTTGTCAACACAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA
TGGAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG
CTGCAGAAGATTTAGATGTTTTCCATTTGGGCACATTTTACTTAGCTGGAGAAGTGGTTTAAACAGCCTGGGT
AGGAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG
GATCACTTGGGCCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

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FIGURE 3251B

ACAAGACCCTGTCTCAAAAAAAAAAAAAAAAAACAACAAAACTTAGAATTGAGGAGTTGTACCTCCATTGGCTTCCT
CACTCCAAAATAGGTGCTGATCCTTCCTATTCCATTCTTTGCCACCTTTTGGGTGTGGTGTCAACCAGCCTGTTT
AGCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTC
CTCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTGGTCTCTTACATGGCCACAAAGGGACACA
CAGTGACAAAAGGCTCGGAATGTTACAATGGTAAAATGAGTGATCTCAAATCCACTGACAGATATAAAATAGGCT
TAGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACCTCACTTTTTTACAACCTCCAAC
TTCTATGTTTATCTTTGTTACTTTCACTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCA
GTATTCTTTTTGTGTGTGCCAATTTGTTATCACATCCCTATGAAGTTGAAAAATAAGTTAATTTTGACCAAAA
AAAAAAAAAAAAAG

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FIGURE 3252

MAPDPVAAETAAGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPPGGSRVISHYAGQDATDPFVAFH
INKGLVKKYMNSLLIGELSPEQPSFEPTKNKELTDEFREL RATVERMGLMKANHVFLLYLLHILLLDGAAWLTL
WVFGTSFLPFLLCAVLLSAVQAQAGWLQHD FGHLSVFSTSKWNHLLHHFVIGHLKGAPASWWNHMHFQHHAKPNC
FRKDPDINMHPPFFALGKILSVELGKQKKKYPYNHQHKYFFLIGPPALLPLYFQWYIFYFVIQRKKWVDLAWMI
TFYVRFFLTYPVLLGLKAFLGLFFIVRFLESNWFVWVTQMNHIPMHIDHNRNMDWVSTQLQATCNVHKSAFNDWF
SGHLNFIQIEHHLFPTMPRHNYHKVAPLVQSLCAKHGIEYQSKPLLSAFADIIHSLKESGQLWLDAYLHQ

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FIGURE 3253

AGTCCTGCGATTTTCGGGTGTAGAGGGAGCAGGGGCCTGCGGGGACCTGGTGTGGGTGGAGTGGGGACAAGCGGTG
GAGAAGGGTACGCCAGGGTCGCTGAGAGACTCTGTTCTCCCTGGAGGGACTGGTTGCCATGAGAGCAGCCGTCTG
AGGGGACGCAGCCTGCACTACGCGCCCCAAGAGGCTGTGCGTGGCGAGCAGGTACAGTGACGGGAGCGCGGGCTT
TGGAAGGCGGCTGAACGTCAGGCCACCCGCCGCTAAGCTGAGAAGGGAGAGCGAGCTTAGGACCGCCTGCCCGGG
GCAACCCCGAACCAAGCTTTAGCCGCCGAGGCGCGTGTCCCAAAGGCCAGTCATCCCTCCTCTGTGTGGCC**ATG**

GGAATTCAAGGCCTGGCCAAACTAATTGCTGATGTGGCCCCAGTGCCATCCGGGAGAATGACATCAAGAGCTAC
TTTGGCCGTAAGGTGGCCATTGATGCCTCTATGAGCATTATCAGTTTCTGATTGCTGTTTCGCCAGGGTGGGGAT
GTGCTGCAGAATGAGGAGGGTGAGACCACCAGCCACCTGATGGGCATGTTCTACCGCACCATTCGCATGATGGAG
AACGGCATCAAGCCCGTGTATGTCTTTGATGGCAAGCCGCCACAGCTCAAGTCAGGCGAGCTGGCCAAACGCAGT
GAGCGGCGGGCTGAGGCAGAGAAGCAGCTGCAGCAGGCTCAGGCTGCTGGGGCCGAGCAGGAGGTGGAAAAATTC
ACTAAGCGGCTGGTGAAGGTCACTAAGCAGCACAAATGATGAGTGCAAACATCTGCTGAGCCTCATGGGCATCCCT
TATCTTGATGCACCCAGTGAGGCAGAGGCCAGCTGTGCTGCCCTGGTGAAGGCTGGCAAAGTCTATGCTGCGGCT
ACCGAGGACATGGACTGCCTCACCTTCGGCAGCCCTGTGCTAATGCGACACCTGACTGCCAGTGAAGCCAAAAAG
CTGCCAATCCAGGAATTCCACCTGAGCCGGATTCTGCAGGAGCTGGGCCTGAACCAGGAACAGTTTGTGGATCTG
TGCATCCTGCTAGGCAGTGACTACTGTGAGAGTATCCGGGGTATTGGGCCCAAGCGGGCTGTGGACCTCATCCAG
AAGCACAAGAGCATCGAGGAGATCGTGCGGCGACTTGACCCCAACAAGTACCCTGTGCCAGAAAATTGGCTCCAC
AAGGAGGCTCACAGCTCTTCTTGGAACCTGAGGTGCTGGACCCAGAGTCTGTGGAGCTGAAGTGGAGCGAGCCA
AATGAAGAAGAGCTGATCAAGTTCATGTGTGGTGAAGAAGCAGTTCTCTGAGGAGCGAATCCGCAGTGGGGTCAAG
AGGCTGAGTAAGAGCCGCCAAGGCAGCACCCAGGGCCGCTGGATGATTTCTTCAAGGTGACCGGCTCACTCTCT
TCAGCTAAGCGCAAGGAGCCAGAACCCAAAGGATCCACTAAGAAGAAGGCAAAGACTGGGGCAGCAGGGAAGTTT
AAAAGGGGAAAA**TAA**ATGTGTTTTCCCCATTATACCTCCTTCACCCCAAGATATTTGCCGTCTTGTACCCTTAAGA
GCTACAGCTAGAGAAACCTTCACGGGGTGGAGAGAGGATTCTAAGGCTTTTCTAGCGTGACCTTTTTCAGTAGTG
CTAGTCCCTTTTTTACTTGATCTTAATGGCAAGAAGGCCACAGAGGTACTTTTCTTTTCTAGCTCAGGAAAATA
TGTCAGGCTCAAACCACTTCTCAGGCAGTTTAATGGACACTAAGTCCATTGTTACATGAAAGTGATAGATAGCAA
CAAGTTTTGGAGAAGAGAGAGGGAGATAAAAGGGGGAGACAAAGATGTACAGAAATGATTTCTGGCTGGCCAA
CTGGTGGCCAGTGGGAGGTGATGGTGGACCTAGACTGTGCTTTTCTGTCTTGTTCAGCCTTGACCCACCTTGAGA
GAGAGCCACCAGGAAGGCGCATCTTAGCAGATGGGAGGAACTGCTGAGAGAAGATGGGCAGAAAGCTGGAGCCCC
TGGAGTTGGCTGTGTCTGTGTTTGTGACTGATTACTGGCTGTGTCTTGGGTGGGCAGAACTCGAACTTGCTATG
TAATTTGTGTCTAGTTATTCAGAGGAGTAAGATGGTGATGTTACCTGGCAATCAGCTGAGTTGAGACTTTGGAA
TAAGACACTGGTTTTTCATGCGCTGTTTTTGTGTTTAAAGTTATGAAGAAAAAAGTCAATAAAATTCTAAAAGTAAA
AAAAAAAAAAAAAAAA

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FIGURE 3254

MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGETTSHLMGMFYRTIRMM
ENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQAAGAEQEVEKFTKRLVKVTKQHNDCKHLLSLMGI
PYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQEFHLSRILQELGLNQEQFVD
LCILLGSDYCESIRGIGPKRAVDLIQKHKSIEEIVRRDPNKYPVPENWLHKEAHQLFLEPEVLDPEVELKWSE
PNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLDFFKVTGSLSSAKRKEPEPKGSTKKKAKTGAAGK
FKRGK

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FIGURE 3255

CAGGTGACCAGCGCCATGTCCAGCCAGGTGGTGGGCATTGAGCCTCTCTACATCAAGGCAGAGCCGGCCAGCCCT
GACAGTCCAAAGGGTTCTCGGAGACAGAGACCGAGCCTCCTGTGGCCCTGGCCCCCTGGTCCAGCTCCCACTCGC
TGCCTCCCAGGCCACAAGGAAGAGGAGGATGGGGAGGGGGCTGGGCCTGGCGAGCAGGGCGGTGGGAAGCTGGTG
CTCAGCTCCCTGCCCAAGCGCCTCTGCCTGGTCTGTGGGGACGTGGCCTCCGGCTACCCTATGGTGTGGCATCC
TGTGAGGCCTGCAAAGCCTTCTTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGCCTCCAACGAG
TGTGAGATCACCAAGCGGAGACGCAAGGCCTGCCAGGCCTGCCGCTTCACCAAGTGCCTGCGGGTGGGCATGCTC
AAGGAGGGAGTGCGCCTGGACCGCTCCGGGGTGGGCGGCAGAAGTACAAGCGGCGGCCGGAGGTGGACCCACTG
CCCTTCCCGGGCCCCCTTCCCTGCTGGGCCCCCTGGCAGTCGCTGGAGGCCCCCGGAAGACAGCAGCCCCAGTGAAT
GCACTGGTGTCTCATCTGCTGGTGGTTGAGCCTGAGAAGCTCTATGCCATGCCTGACCCCGCAGGCCCTGATGGG
CACCTCCCAGCCGTGGCTACCTCTGTGACCTCTTTGACCAGAGATTGTGGTCACCATCAGCTGGGCCAAGAGC
ATCCCAGGCTTCTCATCGCTGTGCTGTCTGACCAGATGTCACTACTGCAGAGCGTGTGGATGGAGGTGCTGGTG
CTGGGTGTGGCCCAGCGCTCACTGCCACTGCAGGATGAGCTGGCCTTCGCTGAGGACTTAGTCTTGATGAAGAG
GGGGCACGGGCAGCTGGCCTGGGGGAACTGGGGGCTGCCCTGCTGCAACTAGTGCGGCGGCTGCAGGCCCTGCGG
CTGGAGCGAGAGGAGTATGTTCTACTAAAGGCCTTGGCCCTTGCCAATTCAGACTCTGTGCACATCGAAGATGCC
GAGGCTGTGGAGCAGCTGCGAGAAGCTCTGCACGAGGCCCTGCTGGAGTATGAAGCCGGCGGGCTGGCCCCGGA
GGGGGTGCTGAGCGGCGGCGGGCGGGCAGGCTGCTGCTCACGCTACCGCTCCTCCGCCAGACAGCGGGCAAAGTG
CTGGCCCATTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCCATGCACAAGCTGTTCTTGAGATGCTCGAGGCC
ATGATGGACTGAGTGCAAGGGGTGGGACTGGTGGGGTTCTGGCAGGACCTGCCTAGCATGGGGTCAGCCCCAAG
GGCTGGGGCGGAGCTGGGGTCTGGGCAGTGCCACAGCCTGCTGGCAGGGCCAGGCAATGCCATCAGCCCCCTGGGA
ACAGGCCCCACGCCCTCTCCTCCCCCTCCTAGGGGGTGTGAGAAGCTGGGAACGTGTGTCCAGGCTCTGGGCACA
GTGCTGCCCCCTTGCAAGCCATAACGTGCCCCCAGAGTGTAGGGGGCCTTGCGGAAGCCATAGGGGGCTGCACGGG
ATGCGTGGGAGGCAGAAACCTATCTCAGGGAGGGAAGGGGATGGAGGCCAGAGTCTCCCAGTGGGTGATGCTTTT
GCTGCTGCTTAATCCTACCCCCCTCTTCAAAGCAGAGTGGGACTTGAGAGAGCAAAGGCCCATGCCCCCTTCGCTCC
TCCTCTCATCATTTGCATTGGGCATTAGTGTCCCCCCTTGAAGCAATAACTCCAAGCAGACTCCAGCCCCCTGGAC
CCCTGGGGTGGCCAGGGCTTCCCCATCAGCTCCCAACGAGCCTCCTCAGGGGGTAGGAGAGCACTGCCTCTATGC
CCTGCAGAGCAATAACACTATATTTATTTTGGGTTTGGCCAGGGAGGCGCAGGGACATGGGGCAAGCCAGGGCC
CAGAGCCCTTGACTGTACAGAGACTCTATTTTAATGTATATTTGCTGCAAAGAGAAACCGCTTTTGGTTTTAAAC
CTTTAATGAGAAAAAATATATAATACCGAGCTC

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FIGURE 3256

CACGGGCGGGGCGGGGCCTGGGTCCACCGGGGTTCTGAGGGGAGACTGAGGTCTTGAGCCGACAGCCTCAGCTCC
CTGCCAGGCCAGACCCGGCAGACAGATGAGGGCCCAGGAGGCCTGGCGGGCCTGGGGGCGCTACGGTGGGAGAGG
AAGCCAGGGGTACCTGCCTCTGCCTTCCAGGGCCACCGTTGGCCCCAGCTGTGCCTTGACTACGTAACATCTTGT
CCTCACAGCCCAGAGC**ATG**TTCCAGATCCCAGAGTTTGAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAG
GGGCCTGGGGCCCAGCCCCGAGGGGACGGGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCTCCT
GTGGGACGCCAGTCACCAGCAGGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCG
GAGTCGCCACAGCTCCTACCCCGCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCAGCCCCCTTTCGGGG
CCGCTCGCGCTCGGCGCCCCCAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGA
GTTTGTGGACTCCTTTAAGAAGGGACTTCCTCGCCCCGAAGAGCGGGGCACAGCAACGCAGATGCGGCAAAGCTC
CAGCTGGACGCGAGTCTTCCAGTCCTGGTGGGATCGGAAGTTGGGCAGGGGAAGCTCCGCCCCCTCCAG**TGACC**
TTCGCTCCACATCCCGAAACTCCACCCGTTCCCACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTC
CCTCAGGCCTATGCAAAAAGAGGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGC
GTGTGAAGCCACGGAAGGCTTGGTCCCATCGGAAGTTTTGGGTTTTCCGCCACAGCCGCGGAAGTGGCTCCGT
GGCCCCGCCCTCAGGCTCCGGGCTTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAACCGTTGCGTCA
CCGGGACCCGAGCCCCCGCGATGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCTCTGTGCCG
CC

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FIGURE 3257

MFQIPEFEPSEQEDSSSAERGLGPSPAGDGPSGSGKHHRQAPGLLDASHQQEQPTSSSHHGGAGAVEIRSRHSS
YPAGTEDDEGMGEEPSPFRGRSRSAPPNLWAAQRYGRELRMSDEFVDSFKKGLPRPKSAGTATQMRQSSWTRV
FQSWWDRNLGRGSSAPSQ

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FIGURE 3258

GAGCCCGGGTGCTGGAGGGAGGCGGCAGGCCCGGGTCAGGTGCCTCGAGATCGGGCTTGGGCCCAGAGCATGTT
CCAGATCCCAGAGTTTGTAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAGGGGCTTGGGCCCCAGCCCCGC
AGGGGACGGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCTCCTGTGGGACGCCAGTCACCAGCA
GGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCGGAGTCGCCACAGCTCCTACCC
CGCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCCAGCCCCTTTTCGGGGCCGCTCGCGCTCGGCGCCCCC
CAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGAGTTTGTGGACTCCTTTAAGAA
GGGACTTCCTCGCCCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAAGCTCCAGCTGGACGCGAGTCTTCCA
GTCTTGGTGGGATCGGAACTTGGGCAGGGGAAGCTCCGCCCCCTCCAGTGACCTTCGCTCCACATCCCGAAACT
CCACCCGTTCCCACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTCCTCAGGCCTATGCAAAAAGA
GGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGCGTGTGAAGCCACGGAAGGCTT
GGTCCCATCGGAAGTTTTGGGTTTTCCGCCCACAGCCGCCGGAAGTGGCTCCGTGGCCCCGCCCTCAGGCTCCGG
GCTTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAACCGTTGCGTCACCGGGACCCGAGCCCCCGCGA
TGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCGTCTGTGCCGCC

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FIGURE 3259

MFQIPEFEPSEQEDSSSAERGLGFPSPAGDGPSGSGKHHRQAPGLLDASHQQEQPTSSSHHGGAGAVEIRSRHSS
YPAGTEDDEGMGEEPSPFRGRSRSAAPPNLWAAQRYGRELRMSDEFVDSFKKGLPRPKSAGTATQMRQSSSWTRV
FQSWWDRNLGRGSSAPSQ

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FIGURE 3260

GGCGAGGAAGGGGCGGGAGCCGGGTCCCGGTAGCTTCTAGTAGGTTCCAGAAGGCGGCGGTGCGGTTGGGAAC
GCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCAATGAGCTGAAGGAG
AAAGGCAACAAGGCCCTGAGCGTGGGTAAACATCGATGATGCCTTACAGTGCTACTCCGAAGCTATTAAGCTGGAT
CCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAG
GATGGCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAGCAGCTCTAGAGTTC
TTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATAACCCCTCAACTGAAA
GAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCCTTTCAACATGCCTAATCTGTAT
CAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTA
CGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCCTCCTTGGG
GTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCCAAAAAGGAGACC
AAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAGAGCTGGGGAACGAT
GCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTAACATG
ACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAGCTTTGTGAGAAG
GCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTCGAATTGGCAACTCC
TACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGCACCGAACCCAGAT
GTGCTCAAGAAATGCCAGCAGG

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FIGURE 3261

GGCACGAGGGGCACGTGCGCCCTGCCTCCCGGACCACCCTGCGGGGCGCACCAACCGATCTGGGGTGCGGGGCTCGG
CCTCCCTGCGCTCCTGGCTGACGGTGTGACCTTGGGACCGAGACGTGCAGCTGTCCAAGGCTCTGTCTATGCCC
TGCGCCATGGGGCCTTGAAGCTGGGGCTTCCCATGGGAGCTGATGGCTTCGTGCCCCTGGGCACCCTCCTGCAGT
TGCCCCAGTTCCGCGGCTTCTCTGCTGAAGATGTGCAGCGCGTGGTGGACACCAATAGGAAGCAGCGGTTGCCCC
TGCAGCTGGGCGATCCCAGCACTGGCCTTCTCATCCGGGCCAACCAGGGCCATTCCCTGCAGGTACCTAAGTTGG
AGCTGATGCCCCCTGGAGACACCGCAGGCCCTGCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCAT
CCATCCTACTCAAAGGCCTGTCTGCGCAGGGAAGGACGCACATTACCTGGCCCCAGGACTGCCTGGAGACCCG
GTATCATCAGTGGCATGCGGTCCCATTGTGAAATAGCTGTGTTTCATCGATGGACCCCTGGCTCTGGCAGATGGAA
TACCCTTCTTCCGCTCTGCCAATGGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCTCCTTCCCAAGTACT
TCAAGGAGGCCCTGCAGCTACGCCCTACCCGAAAGCCCCTTTCCTTGGCTGGTGTGATGAAGAGACAGAGTGTGAGA
GTAGCCCCAAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACAATTAAAATATTAATTTATAAAAAAGAAATTTA
AAAAGTAACAAGAAAGAACTCGTTTGAAACCATGTTTCATCATCCTGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3262

MGADGFVPLGTLLQLPQFRGFS AEDVQRVVD TNRKQRFALQLGDPSTGLLIRANQGHSLQVPKLELMPLETPQAL
PPMLVHGTFWKHWPSILLKGLSCQGRTHIHLAPGLPGDPGIISGMRSHCEIAVFIDGPLALADGIPFFRSANGVI
LTPGNTDGFLLPKYFKEALQLRPTRKPLSLAGDEETECQSSPKHSSRERRRIQQ

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FIGURE 3263

AGACAGACCCCGTGCGGCTGACACAGCTGTATGAGCAGGCCCGGTGGGACCTGCTGCTGGAGGAGATTGACTGCA
CCGAGGAGGAGATGATGGTGTGTTGCCGCCCTGCAGTACCACATCAACAAGCTGTCCCAGAGCGGGGAGGTGGGGG
AGCCGGCTGGCACAGACCCAGGGCTGGACGACCTGGATGTGGCCCTGAGCAACCTGGAGGTGAAGCTGGAGGGGT
CGGCGCCACAGATGTGCTGGACAGCCTCACCACCATCCCAGAGCTCAAGGACCATCTCCGAATCTTTCGGCCCC
GGAAGCTGACCCTGAAGGGCTACCGCCAACACTGGGTGGTGTTCAGGAGACCACACTGTCCTACTACAAGAGCC
AGGACGAGGCCCCCTGGGGACCCCATTCAGCAGCTCAACCTCAAGGGCTGTGAGGTGGTTCCCGATGTTAACGTCT
CCGGCCAGAAGTTCTGCATTAACTCCTAGTGCCCTCCCCTGAGGGCATGAGTGAGATCTACCTGCGGTGCCAGG
ATGAGCAGCAGTATGCCCGCTGGATGGCTGGCTGCCGCCTGGCCTCCAAAGGCCGCACCATGGCCGACAGCAGCT
ACACCAGCGAGGTGCAGGCCATCCTGGCCTTCCTCAGCCTGCAGCGCACGGGCAGTGGGGGCCCCGGGCAACCACC
CCCACGGCCCTGATGCCTCTGCCGAGGGCCTCAACCCCTACGGCCTCGTTGCCCCCGTTTCCAGCGAAAGTTCA
AGGCCAAGCAGCTCACCCACGGATCCTGGAAGCCCACCAGAATGTGGCCAGTTGTCGCTGGCAGAGGGCCAGC
TGCGCTTCATCCAGGCCTGGCAGTCCCTGCCCGACTTCGGCATCTCCTATGTCATGGTCAGGTTCAAGGGCAGCA
GGAAAGACGAGATCCTGGGCATCGCCAACAACCGACTGATCCGCATCGACTTGGCCGTGGGCGACGTGGTCAAGA
CCTGGCGTTTCAGCAACATGCGCCAGTGGAATGTCAACTGGGACATCCGGCAGGTGGCCATCGAGTTTGATGAAC
ACATCAATGTGGCCTTCAGCTGCGTGTCTGCCAGCTGCCGAATTGTACACGAGTATATCGGGGGCTACATTTTCC
TGTCGACGCGGGAGCGGGCCCCGTGGGGAGGAGCTGGATGAAGACCTCTTCCTGCAGCTCACCGGGGGCCATGAGG
CCTTCTGAGGGCTGTCTGATTGCCCTGCCCTGCTCACCACCTGTACAGCCACTCCCAAGCCACACCCACAGG
GGCTCACTGCCCCACACCCGCTCCAGGCAGGCACCCAGCTGGGCATTTACCTGCTGTCACTGACTTTGTGCAGG
CCAAGGACCTGGCAGGGCCAGACGCTGTACCATCACCCAGGCCAAGGATGGGGGTGGGGTCCCTGAGCTCATGT
GGTGCCCCCTTTCTTGTCTGAGTGGCTGAGGCTGATACCCCTGACCTATCTGCAGTCCCCCAGCACACAAGGAA
GACCAGATGTAGCTACAGGATGATGAAACATGGTTTCAAACGAGTTCTTTCTTGTTACTTTTTAAATTTCTTTT
TTATAAATTAATATTTTATTGTTGG

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FIGURE 3264

GGCTACGGCTGACCGTTTTTTGTGGTGTACTCCGTGCCATC**ATG**TCCGTCTTGACGCCGCTGCTGCTGCGGGGCT
TGACAGGCTCGGCCCCGGCGGCTCCCAGTGCCGCGCGCCAAGATCCATTGCGTTGCCGCCGGAGGGGAAGCTTGGA
TCATGGAATTGGCCGTTGGGCTTACCTCCTGCTTCGTGACCTTCCTCCTGCCAGCGGGCTGGATCCTGTCACACC
TGGAGACCTACAGGAGGCCAGAG**TGA**AGGGGTCCGTTCTGTCCCTCACACTGTGACCTGACCAGCCCCACCGGCC
CATCCTGGTCATGTTACTGCATTTGTGGCCGGCCTCCCCCTGGATCATGTCATTCAATTCAGTCACCTCTTCTGC
AATCATGACCTCTTGATGTCTCCATGGTGACCTCCTTGGGGGTCACTGACCCTGCTTGGTGGGGTCCCCCTTGTA
ACAATAAATCTATTTAACTTT

3539/6881
FIGURE 3265

MSVLTPLLLRGLTGSARRLPVPRAKIHSLPPEGKLGIMELAVGLTSCFVTFLLPAGWILSHLETYRRPE

3540/6881
FIGURE 3266

AATTGGCAACCCGGAAGCGGTCGGTAGTGCGGCGCTGTTTAAAG**ATG**GCGGCGGAGGAACCTCAGCAGCAGAAGC
AGGAGCCGCTGGGCAGCGACTCCGAAGGTGTTAACTGTCTGGCCTATGATGAAGCCATCATGGCTCAGCAGGACC
GAATTCAGCAAGAGATTGCTGTGCAGAACCCTCTGGTGTCTCAGAGCGGCTGGAGCTCTCGGTCCTATACAAGGAGT
ATGCTGAAGATGACAACATCTATCAACAGAAGATCAAGGACCTCCACAAAAGTACTCGTACATCCGCAAGACCA
GGCCTGACGGCAACTGTTTCTATCGGGCTTTTCGGATTCTCCCACTTGGAGGCACTGCTGGATGACAGCAAGGAGT
TGCAGCGGTTCAAGGCTGTGTCTGCCAAGAGCAAGGAAGACCTGGTGTCCAGGGCTTCACTGAATTCACAATTG
AGGATTTCCACAACACGTTTCATGGACCTGATTGAGCAGGTGGAGAGGCAGACCTCTGTGCGCCGACCTGCTGGCCT
CCTTCAATGACCAGAGCACCTCCGACTACCTTGTGGTCTACCTGCGGCTGCTCACCTCGGGCTACCTGCAGCGCG
AGAGCAAGTTCTTCGAGCACTTCATCGAGGGTGGACGGACTGTCAAGGAGTTCTGCCAGCAGGAGGTGGAGCCCA
TGTGCAAGGAGAGCGACCACATCCACATCATTGCGCTGGCCCAGGCCCTCAGCGTGTCCATCCAGGTGGAGTACA
TGGACCGCGGCGAGGGCGGCACCACCAATCCGCACATCTTCCCTGAGGGCTCCGAGCCCAAGGTCTACCTTCTCT
ACCGGCCTGGACACTACGATATCCTCTACAA**TAG**GGCTGGCTCCAGCCCGCTGCTGCCCTGCTGCCCCCTCTG
CCAGGCGCTAGACATGTACAGAGGTTTTTCTGTGGTTGTAAATGGTCCTATTTTACCCCCCTTCTTCTGTACAT
GACCCCCCCCCATGTTTTATTAAAGGGGGTGCTGGTGGTGAGCCGTGTGTGCGTGTCCCTGCTCTGCTGCCCCGCC
TGGCTGCTCTGTCTGCTGCCCCCTCCCCCAGGTGGGTCCCCCTGCTTTTACCTATCTACTCCTGAGCTTCCCC
AACAGGAGCAGGTTTGAGGGGCCAGGCCTCTTGGAGGCCCTCCTGCTTCGTTGGGTTCTGCTTCCCTTCCCTTCT
TAGCTGGCTCAGGGGCTTCTATGGGATCCTGGAAGTTCCTTAGGGACTTGCCCAGGGTCCCAGGGCCACCCACAC
TTCATCTGCTCCCTCATAGGCCCCACCTCCACGTCCCGGCTGGGCCCCAGACCCAGCTTCTGCCCTCCACCGG
GAGTCTGCATGGTTGGGAGTCCTGGGTGGAGGGGCCTTTGTGAGGCTGGACCCGGCTCAGGGCAGGTGGAGGAGC
TGGGCCTCCACAGGGTGCCCGGGCAGTGCCATCCTGGTGGGGGAGGGCAGCCTTCAAACGTGTGGGGTCTACAG
TCCTCAGGTCTAGGCAGGGCAGCCGTTCTCCACCTCCCCATCCGCCCCAGGCCCCCTGCCTGTGCCTGCCCTTGC
ACCCCTCTGCTTGGGCCACGGTGTCTCTGCATTGCCTGCCTTTTTGCCTTACCTCTTTTCTTCCCCGCCCCCT
GCACATTGCGGGTCTCAGCCCCCAGGCTGTGAGCTCCTTGGGGGCAGGCCCTCAATAAATGTGAAGTGTGCTGCTGC
CGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 3267

MAAEFPQQQKQEPLGSDSEGVNCLAYDEAIMAQQDRIQQEIAVQNPLVSELELSVLYKEYAEDDNIYQQKIKDL
HKKYSYIRKTRPDGNCFYRAFGFSLHLEALLDDSKELQRFKAVSAKSKEDLVSQGFTEFTIEDFHNTFMDLIEQVE
RQTSVADLLASFNDQSTSDYLVVYLRLLTSGYLQRESKFFEHFIEGGRTVKEFCQQEVEPMCKESDHIHIIALAQ
ALSVSIQVEYMDRGEGGTTNPHIFPEGSEPKVYLLYRPGHYDILYK

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FIGURE 3268

AGAGTGGGCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGTGCAGCCATGGCCCCAATCAAGGTGGGAGATGCC
ATCCCAGCAGTGGAGGTGTTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAG
GGTGTGCTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGGTTTGTGGAGCAG
GCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAG
TGGGGCCGAGCCCACAAGGCGGAAGGCAAGGTTCTGGCTCCTGGCTGATCCCACTGGGGCCTTTGGGAAGGAGACA
GACTTATTACTAGATGATTCGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAG
GATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTGGCACCCAATATCATC
TCACAGCTCTGAGGCCCTGGGCCAGATTACTTCCTCCACCCCTCCCTATCTCACCTGCCCAGCCCTGTGCTGGGG
CCCTGCAATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGCGG

FIGURE 3269

AATGTAAGTGC GCGCTGCGACACCTCC CAGCCCAACCGAACTCCGCCCCATTTCCTCGCTTGGCCTAACGGTTTC
 GCCAATCCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCCGCCGATTTCGACCCTTCGCCTCGG
 CCGGCCCAATCCAGGCCCGGCCCGCCGCCCGGCCCGGCCCGCGGTGCCCTCTCTCCTCCCTCTTTGTGC
 GTCTCGCGCCGCCCGCCCGCGCGTGAAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTCGGGTCCCCTCCC
 CCGGGAGGCTTGC GAAGGAGAAGCCGCCGAGAGGAAAAGCAGGTGCCGTGCCTGTCCCCGGGGGCGCCATGG
 CGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAACCAAGACACAA
 TGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATTCCCCCTGGACTTACTCGAGAACAAGAAAGAGCTT
 ATATAGTGCAACTGCAGATAGAAGACCTGACTCGTAAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCCCTG
 AGGACAGGTCCCCTTCCCCTGAGCCCATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCCGCACCC
 GCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTTC AAGCCACCTG
 CAGATTACAAACCTCCAGCAACACGTGTGAGTGATAAAGTCATGATTCCACAAGATGAGTACCCAGAAATCAACT
 TTGTGGGGCTGCTCATCGGGCCCAGAGGGAACACCCCTGAAGAACATAGAGAAGGAGTGCAATGCCAAGATTATGA
 TCCGGGGGAAAGGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGC
 CACTTCATGCCCTGGTTACTGCCAATACAATGGAGAACGTCAAAAAGGCAGTGGAACAGATAAGAAACATCCTGA
 AGCAGGGTATCGAGACTCCAGAGGACCAGAATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATG
 GGACCTTCGGGAAGACGATAACAGGATCTTAAGACCCTGGCAGAGCTCAGAGACCCGCAGCATTACCAACACCA
 CAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTCGTTT CAGACTGTAAATTCCAAAGGCCTGGTGATCCTCAGT
 CAGCTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTGA ACTGGGTGAAGCACCTGTCCAG
 CATCTGTGGGCTCCACCTCTGGGCTGCCACCACACCCCTGGCCAGCGCACCTCGTCCTGCTGCTCCCGCCAACA
 ACCCACCTCCACCGTCTCTCATGTCTACCACCCAGAGCCGCCACCCCTGGATGAATTCTGGCCCTTCAGAGAGTC
 GGCCCTACCACGGCATGCATGGAGGTGGTCTCTGGTGGGCCCGGAGGTGGCCCCCACAGCTTCCCACACCCATTAC
 CCAGCCTGACAGGTGGGCATGGTGGACATCCCATGCAGCACAAACCCCAATGGACCCCCACCCCTTGGATGCAGC
 CACCACCACCACCGATGAACCAGGGCCCCCACCCCTCCTGGGCACCATGGCCCTCCTCCAATGGATCAGTACCTGG
 GAAGTACGCCTGTGGGCTCTGGGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCA
 TGATGCCGCCCGCCGCCCGCCCTCCCAAGTGGGCAGCCCCCACCCCTCCCTCTGGTCTCTTCCCCCATGGCAAC
 AACAGCAGCAGCAGCCTCCGCCACCCCCCTCCGCCCAGCAGCAGTATGGCTTCCAGTACCCCTTGCCATGGCAGC
 AAAATACGACGACTACCACCACGAGCGCTGGCACAGGGTCCATCCCGCCATGGCAACAGCAGCAGGCGGCTGCCG
 CAGCTTCTCCAGGAGCCCCCTCAGATGCAAGGCAACCCCACTATGGTGCCCCCTGCCCGCCGGGGTCCAGCCGCCTC
 TGCCGCCTGGGGCCCCCTCCCCCTCCGCCCGTAGCATCGAGTGTCTTCTTTGTCTTCTTTCTCTCTCACCACAC
 TCCCTTTGCCTCTCCCCAAACCGGGCCGCCAGGATCCCTCCCCGCGGCGGCGATGGCCCGAGCCATGAGAGTGAG
 GACTTTCCGCGCCCATTTGGTGACCTTCCAGGCAGACAGCCTCAGCAACGCCCTGGTGGACAGGATGGTTCCGC
 AAAGCAGCCTGAGTTATTTTTGTGGACGGAATCGGAACACGCTGGCTCCATATCGTGAAATTTTTTATTAATTTTT
 TTCTTTTTCTTTTGTACTTCTTTATCTTTTCTTTCTTTCAGACTCCGTCCAAGGAGATGCTCTCCCCGGTCTTC
 TGCTGCAATTTAGATTCCCTTTCCCTTCTCTCCAGTTCTCCTTCCCTTACCAAGGAGAGGGGAGCAAATGGTTTTG
 GGCAAGGGCTTTGGCCATTATGTCAAGCTGGTTGTGGGTTTTTCAAGGTGCCATAGCCACCCCCAAATATGTTT
 GTTTAAAGCGTGGGGTTTTTTAATCTCTGCCACCTTGTCAAGGGAGTCTTGTAAGTTGCCGAGGGTAGGTTCA
 TCTCCAGTTTTCGGGATTCCCATCCGTCTCTGGCGATCCTGCCAGCAGTGGGTGGGCAGCCTGAGCTCCCTCGGGC
 TCGCTGCCAGCCTGGAGTTCTTCTGTGCTCCTTGATCACCTGAGCTGCCTCAGATTCCATTTGGTCCTCTCCT
 TCTTGGAAGGCTTCCCTTTTATGTTTTGTTTTAATCCCAAATGTCTGAATGTTTTGCAGTGTGTAGGGGTTTGAGC
 CCCTTGTTTCAATTCTCCTTCCCTTTTTCTCCCGCTTCCCTCTCCATGAAGTGATTCTGTTGACAATAATGTATACT
 GCGCGTTCTCTTCACTGGTTTTATCTGCAGAAATTTCTCTGGGCTTTTTTTCGGTGTTAGATTCAACACTGCGCTAA
 AGCGGGGATGTTCCATTGAATAAAAGAGCAGTGTGGTTTTCTGGG

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FIGURE 3270

GCGCCGGGGCCATGGCGCTGCTGCGGGATGTGTGCTGTCAGGACCCGCGGGACCGCTTCGAGCTGCTGCAGCGCGT
GGGGGCGGGGACCTATGGCGACGTCTACAAGGCCCGCGACACGGTCACGTCCGAACCTGGCCGCCGTGAAGATAGT
CAAGCTAGACCCAGGGGACGACATCAGCTCCCTCCAGCAGGAAATCACCATCCTGCGTGAGTGCCGCCACCCCAA
TGTGGTGGCCTACATTGGCAGCTACCTCAGGAATGACCGCTTGTGGATCTGCATGGAGTTCTGCGGAGGGGGCTC
CCTGCAGGAGATTTACCATGCCACTGGGCCCCCTGGAGGAGCGGCAGATTGCCTACGTCTGCCGAGAGGCACTGAA
GGGGCTCCACCACCTGCATTCTCAGGGGAAGATCCACAGAGACATCAAGGGAGCCAACCTTCTCCTCACTCTCCA
GGGAGATGTCAAACCTGGCTGACTTTGGGGTGTGAGGCGAGCTGACAGCGTCTGTGGCCAAGAGGAGGTCTTTTCAT
TGGGACTCCCTACTGGATGGCTCCCAGGTGGCTGCTGTGGAGCGCAAAGGTGGCTACAATGAGCTATGTGACGT
CTGGGCCCTGGGCATCACTGCCATTGAGCTGGGCGAGCTGCAGCCCCCTCTGTTCCACCTGCACCCCATGAGGGC
CCTGATGCTCATGTGGAAGAGCAGCTTCCAGCCGCCCAAACCTGAGAGATAAGACTCGCTGGACCCAGAATTTCCA
CCACTTTCTCAAACCTGGCCCTGACCAAGAATCCTAAGAAGAGGCCGACAGCAGAGAAGCTCCTGCAGCACCCGTT
CACGACTCAGCAGCTCCCTCGGGCCCTCCTCACACAGCTGCTGGACAAAGCCAGTGACCCTCATCTGGGGACCCC
CTCCCTGAGGACTGTGAGCTGGAGACCTATGACATGTTTCCAGACACCATTCACTCCCGGGGGCAGCACGGCCC
AGCCGAGAGGACCCCTCGGAGATCCAGTTTACCAGGTGAAATTTGGCGCCCCACGCAGGAAGGAAACTGACCC
ACTGAATGAGCCGTGGGAGGAAGAGTGGACACTACTGGGAAAGGAAGAGTTGAGTGGGAGCCTGCTGCAGTCGGT
CCAGGAGGCCCTGGAGGAAAGGAGTCTGACTATTGGTTCAGCCTCAGAATTCCAGGAGCTGGACTCCCCAGACGA
TACCATGGGAACCATCAAGCGGGCCCCGTTTCTAGGGCCACTCCCCACTGACCCTCCAGCAGAGGAGCCTCTGTC
CAGTCCCCCAGGAACCTGCCCCACCTCCTTACAGCCCCAACAGCTCCCCACTGCTGCCCACGGCCTGGGCCAC
CATGAAGCAGCGGGAGGATCCTGAGAGGTCACTGTCACGGGCTCCCCCAACTCCCAAGGTGCATATGGGCGC
CTGCTTCTCCAAGTCTTCAATGGCTGCCCCCTGCGGATCCACGCTGCTGTACCTGGATTACCCCTGTTACTCG
GGACCAGTTTCTGGTGGTAGGGGCCGAGGAAGGCATCTACACACTCAACCTGCATGAAGTGCATGAGGATACGCT
GGAGAAGCTGATTTACATCGCTGCTCCTGGCTCTACTGCGTGAACAACGTGCTGCTGTCACTCTCAGGGAAATC
CACGCACATCTGGGCCCATGACCTCCCAGGCCTGTTTGAGCAGCGGAGGCTACAGCAACAGGTTCCCTCTCCAT
CCCCACCAACCGCCTACCCAGCGCATCATCCCCAGGCGCTTTGCTCTGTCCACCAAGATTCTGACACCAAAGG
CTGCTTGCAGTGTCGTGTGGTGCAGAACCCCTACACGGGTGCCACCTTCTGCTGGCCGCCCTGCCACCAGCCT
GCTCCTGCTGCAGTGGTATGAGCCGCTGCAGAAGTTTCTGCTGCTGAAGAACTTCTCCAGCCCTCTGCCAGCCC
AGCTGGGATGCTGGAGCCGCTGGTGTGCTGGATGGGAAGGAGCTGCCGAGGTGTGTGTTGGGGCCGAGGGGCTGA
GGGGCCCGGCTGCCGCGTCTGTTCCATGTCTGCCCCCTGGAGGCTGGCCTGACGCCCCGACATCCTCATCCCACC
TGAGGGGATCCCAGGCTCGGCCAGCAGGTGATCCAGGTGGACAGGGACACAATCCTAGTCAGCTTTGAACGCTG
TGTGAGGATTGTCAACATGCAGGGCGAGCCCACGGCCACACTGGCACCTGAGCTGACCTTTGATTTCCCCATCGA
GACTGTGGTGTGCTGCAGGACAGTGTGCTGGCCTTCTGGAGCCATGGGATGCAAGGCCGAAGCCTGGATACCAA
TGAGGTGACCCAGGAGATCACAGATGAAACAAGGATCTTCCGAGTGCTTGGGGCCCACAGAGACATCATCCTGGA
GAGCATTTCCACTGACAACCCAGAGGCGCACAGCAACCTCTACATCCTCACGGGCCACCAGAGCACCTACTAAGA
GCAGCGGGCCTGTCCAGGGGCTCCCCGCCCCACCCACGCCTTAGCTGCAGGCCCTTTTGGGCAAAGGGGCCCAT
CCTAGACCAGAGGAGCCAGGCCCTGGCCCTGCTGGGGCTGAAGGTCAGAAGTAATCCTGAGAAATGTTTCAGGC
CTGGGGAGGGAGGGGAGCCCCGACGCCTCTGCAATAACTGGACCAGGGGGAGCTGCTGTCACTCCCCCATCCCC
GAGGCAGCCCAGTCCCTAGTGCCCAAGGCAGGGACCTGGGCCTGGGCCATCCATTCCATTTGTTCCACATTTT
CTTTCTACTCTTTCTGCCAAGAGCCTGCCCCTGCAATTTGTCTGGGAAACACGGTATTTAAGAGAGAACTATATT
GGTATTAAAGCTGGTTTGT

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FIGURE 3271

GGCACCAGTCGGAGGGGCGGGGCTGGGAGGGGCTCCTCCCTACCGCCCCAATTCCGCCCTGCCCCCGCCGCGGC
GGCGCTAGCCGCCACTGAGGGACCGACCCTATAAAGGCCGCTCCGCGAGGGGTGCGCAGCATTCCGCAGAGGGCG
CTTCGACGGGCTGGGCTGTGCGCCTGCGCAGTGTGGGTGCGTCCCCGATTCCCTGCCCCGGCCGGCCCCGCCTCGG
CTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGCCCCGAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCA
CTGGGTGAGCAAGGATGCCCCGCCGAAGAAGGAGCCGGAGCTCTTCCAGACGGTGGCTGAGGGGCTGCGGCAGCT
GTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTACCGCTTCCACGAGTTCCACTCGCCCCGCGCTGGAGGACGC
TGAATTCGACAACAAGCCTATGGTGCTCCTCGTGGGGCAGTACAGCACGGGCAAGACCACCTTCATCCGACACCT
GATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCCCGAGCCCCACCACCGACTCCTTCATCGCCGTCATGCACGG
CCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTCGTGGTGGACCCGCGGCGCCCCCTTCCGCAAGCTCAACGCGTT
TGGCAACGCTTTCTCAACAGTTTCATGTGTGCCAGCTGCCCAACCCCGTCTTGACAGCATCAGCATCATCGA
CACCCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATCAGCAGAGGCTATGACTTTGAGCCGTCCTGGAGTGGTT
CGCGGAGCGTGTGGACCGCATCATCCTGCTCTTCGACGCCCAAGCTGGACATCTCCGATGAGTTCTCGGAAGT
GATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGCGTGGTGTGAACAAGGCAGACCAGATCGAGACGCAGCA
GCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTGGGCAAGATCATCAACACCCCCGAGGTGGTTCAGGGTCTA
CATCGGCTCCTTCTGGTCCACCCGCTCCTCATCCCCGACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCT
CTTCAAGGACATCCAGTCACTGCCCCGAAACGCCGCCCTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCT
GGCCAAGGTTACGCCTACATCATCAGCTCCCTCAAGAAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAAA
GAAAGAGCTGGTGAACAACCTCGGAGAGATCTACCAGAAGATTGAGCGCGAGCACCAAGATCTCCCTGGGGACTT
CCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACCCAGGACTTCAGCAAGTTCCAGGCGCTGAAGCCCAAGCT
GCTGGACACGGTGGATGACATGCTGGCCAACGACATCGCGCGGCTGATGGTGTGGTGCAGGAGGAGTCCCT
GATGCCCTTCCAGGTGGTCAAGGGCGGCGCCTTTGACGGCACCATGAACGGGCGGTTCCGGGCACGGCTACGGCGA
GGGGGCGGCGAGGGCATCGACGACGTGGAGTGGGTGGTGGGCAAGGACAAGCCACCTACGACGAGATCTTCTA
CACGCTGTCCCTGTCAACGGCAAGATCACGGGCGCCAACGCCAAGAAGGAGATGGTGAAGTCCAAGTCCCCAA
CACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTGGACAAGGACGGGCTGCTGGACGACGAGGAGTTCGCGCT
GGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCACGAGCTGCCTGCCGACCTGCCCCGCACCTGGTGCCGCC
CTCCTCTGCCTGGGGCCATTGAGCCCAGCCTCCAGGGCCCCGGGCGCGTTTGCAGGCCAGTGGCCACTGTCCGGGC
TGTGATGGCACCAAGGCAGGTGGAGCACCAAGGTACCACACAGCTGGGCTTCCCACCAGGCTTCCCGCGGGGGTTC
TCAGGGAGCTTCTCCCAGCGCTGCTCGGAGTCTGCAGGAAGTGGCCTTGTCTCCTTAGCCCCGTCACTCCATAC
AGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGCCGGGAAGTCACTGTTGAAGTTGCAGTGGCTTGTTCACA
CCTGTGGGAAGAGAAGTGAAGACTTTCTCCTTGCAATAAAAAGTCTGAACTGTG

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FIGURE 3272

MFSWVSKDARRKKEPELFQTVAEGLRQLYAQKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVGQYSTGKTTFI
RHLIEQDFPGMRIGPEPTTDSFIIVMHGPTGCVVPGNALVVDPRRPFRLNAFGNAFLNRFMCAQLPNPVLDSIS
IIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNHEDKIRVVLNKADQIE
TQQLMRVYGALMWSLGKIINTPEVVRVYIGSFWSHPLLIPDNRKLFEAEEQDLFKDIQSLPRNAALRKLNDLIKR
ARLAKVHAYIISSLKKEMPNVFGKESKKKELVNNLGEIYQKIEREHQISPGDFPSLRKMQELLQTQDFSKFQALK
PKLLDTVDDMLANDIARLMVMVRQEESLMPSQVVKGGAFFDGTMGPFPGHGYGEGAGEGIDDVEWVVGKDKPTYDE
IFYTLSPVNGKITGANAKKEMVKSKLPNTVLGKIWKLADVDDGLLDDEEFALANHLIKVKLEGHELPADLPPhL
VPPSSAWGH

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FIGURE 3273A

ACGGGGATCGCCGGCGGGCGGCAAGCGGAGGCGGCCCCAGGCCCCGGCGGTCTCCGAGATGTCACGATGGCTGTGGC
CATGGTCAAACCTGTGTGAAAGAGCGGGTCTGCCGCTACTTGCTGCACCACTACTTAGGTCACTTCTTCCAAGAGC
ACCTCAGCCTGGACCAGCTCAGCCTCGATCTGTACAAGGGCAGCGTTGCCCTGCGAGACATCCACCTGGAATCT
GGTCTGTGAACGAGGTGCTGGAGTCAATGGAGTCACCGCTGGAGCTGGTGGAAGGCTTCGTGGGCTCCATCGAGG
TGGCCGTGCCCTGGGCTGCTCTGCTCACCGACCACTGCACAGTGCAGTGTCCGGCCTCCAGCTCACCTTGCAGC
CCCGCCGGGGTCCAGCGCCAGGGGCTGCCGACTCACAGAGCTGGGCCTCATGCATGACCACAAGCCTGCAGCTGG
CCCAGGAGTGTCTGCGGGATGGGCTACCGGAGCCCTCTGAGCCACCACAGCCCCCTGGAGGGGCTGGAGATGTTTG
CCCAGACCATTGAGACTGTGCTTCGGAGGATCAAAGTGACCTTCCTGGACACTGTGCTGAGGGTGGAGCACTCTC
CGGGTGATGGGGAACGTGGTGTGGCCGTGAGGTCCTGTGTCAGAGACTGGAGTACTGTGATGAGGCAGTGCAGG
ACCAAGCCAGGCGCCGCGGTGGACGTGCATCAGCCGCTGCCTTCCTGCACAAGCTGCTGCAGCTGGCAGGGG
TCCGCTGCCTACGAGGAGCTCCCGGCACAGGAAGAGCCTCCAGAGCCCCCTTGAGATCGGCAGCTGCTCAG
GGTACATGGAGCTGATGGTGAAGTTGAAGCAAAATGAGGCCTTCCTGGCCCCAAGTTGGAGGTGGCGGGACAGC
TGGGCTCCCTGCACCTGCTCCTGACCCGAGGCAGCTCCAGCAACTTCAGGAAGTGTGCTGAGCGCCGTGAGCCTTA
CAGACCACGAGGGCCTGGCTGACAAGCTGAACAAGAGCCGCGCTAGGTGCCGAAGACCTGTGGCTGATTGAGC
AGGACCTGAACCAGCAGCTGCAGGCAGGGGAGTGGCTGAGCCCTCAGCCAGACCCCTTACCAACCCCTTC
TCAACCTGGATAACACTGACCTCTTCTTCTCCATGGCTGGCCTCACAAGCAGTGTGGCCTCAGCCCTCTCTGAGC
TCTCCCTCTCCGATGTAGACCTGGCCTCCTCTGTGCGCAGCGACATGGCCTCCCGCCGGCTCTCTGCCAGGCCC
ACCCAGCTGGCAAGATGGCCCCCAACCCCTCCTGGACACCATGCGCCCTGACTCGCTGCTGAAGATGACCTTGG
GGGGTGTGACCCTGACCTTGCTTCAGACGTCTGCCCATCTTCCGGACCACCTGACCTCGCCACGCACCTTTTCA
CCGAGTTTGATGCCACCAAGGATGGGCCCTTCGGTTCCCGAGACTTCCATCACCTTCGACCACGCTTCCAGAGGG
CCTGTCCCTGTAGCCATGTTCCGCTAACGGGCACAGCCGTGCAGCTGTCTGGGAGCTGCGGACGGGCAGTCGGG
GCCGGCGGACAACCAGCATGGAAGTGCACCTTCGGGCAGCTGGAGGTGCTGGAGTGTCTGTGGCCCCGGGGCACCT
CTGAGCCTGAGTACACGGAGATCCTGACCTTTCTGGTACGCTGGGCTCCAGGCCTCAGCTCGGCCCTGCGCCC
ATCTGCGCCACACACAGATCCTGCGCCGTGTGCCTAAGAGCCGACCCCGCGCTCAGTTGCCCTGCCATTGCCACT
CAGAACTGGCCCTGGACCTGGCCAACCTCCAGGCGGACGTGGAGCTGGGGGCCCTGGACCGGCTGGCCGCCCTAC
TGCGCCTGGCCACCGTACCTGCTGAGCCTCCAGCCGGCCTGCTGACAGAGCCCCTGCCGGCGATGGAGCAGCAGA
CGGTATTTCCGGCTCTCTGCACCCCGGGCCACGCTGCGGCTGCGCTTCCCCATTGCCGACCTGCGGCCTGAGCCGG
ACCCCTGGGCGGGCCAGGCCGTGCGGGCTGAGCAGCTTCGGCTGGAGCTGAGTGAGCCCCAGTTCCGGTCAGAGC
TTAGCAGTGGGCCTGGTCCCCAGTCCCCACCCACCTGGAACCTCACCTGCTCCGACCTACATGGTATCTATGAAG
ATGGAGGGAAGCCACCTGTCCCTTGCTGCGTGTCTCCAAGCCCTGGACCCCAAGAGCACTGGGCGCAAGTACT
TCCTGCCCCAGGTAGTGGTGAAGTGTGAACCCCAAGTCCAGCAGCACACAGTGGGAGGTGGCCCCGGAGAAGGGAG
AGGAACCTGGAGCTGTGAGTGGAGAGTCCCTGTGAGCTGCGGGAACCTGAGCCCTCGCCCTTCTCCTCTAAGAGGA
CCATGTATGAGACAGAGGAGATGGTGTATCCCTGGAGACCTGAGGAGATGAGGACGTTCCAGAGCCGGACCTTG
CACTGTCCCGCTGCAGCCTGGAAGTGTCTGCCCAGTGTCCACATCTTTCTGCCAGCAAGGAGGTCTACGAGA
GCATCTACAACAGGATCAACAACGACCTGCTCATGTGGGAGCCTGCAGATCTGCTTCCACCCCCGACCCCGCCG
CCCAGCCCTCGGGCTTCCCCGGCCCCCTCAGGCTTCTGGCACGACAGCTTTAAGATGTGCAAGTCAGCCTTCAAGC
TGGCCAACCTGCTTTGATCTCACCCAGACTCGGACTCGGATGACGAGGATGCCACTTCTTCTCAGTGGGGGCAT
CAGGTGGCCACAGGCCGTGCCCTGAGGCCCAAGTCTTCACTTGACAGACCTTCTCTACACTGGTGACAG
TGCTGAAGGGGCGGATCACAGCCCTCTGTGAGACCAAGGATGAGGGTGGGAAGCGGCTGGAGGCTGTGCACGGGG
AGCTGGTGTGAGCATGGAGCACGGTACCCTCTTACGCGTCTCCAGTACTGTGGCCAGCCAGGACTTGGCTACT
TCTGTCTGGAAGCTGAAAAGGCAACACTCTACCACCGAGCGGCCGTGGATGACTACCCGCTGCCAGTCACTGG
ACCTTCCCAGTTTCGCTCCCCCGGCTCAGCTGGCCCCAACCATCTACCCATCGGAGGAAGGGGTGACCGAGCGGG
GAGCCTCGGGCCGCAAGGGCCAGGGCCGGGACCCACATGTTGTCCACTGCTGTGCGCATCCACCTGGACCCCC
ACAAGAATGTGAAGGAGTTCTTGGTGAACCTGCGGTTGCACAAAGCCACCTTGCGCCACTACATGGCCCTGCCCG
AGCAGAGCTGGCATTCCCAGTTGTTGGAGTTCTAGACGTGCTGGATGACCCTGTGCTGGGCTACCTGCCCCCGA
CGGTCAACCATCCTGCACACACACCTGTTCTCCTGCTCTGTGGACTATAGGCCACTCTACCTCCAGTGCGTG
TCCTCATACCCGCGGAGACCTTCACTCTCTCCAGCAACATCATCATGACACCTCCACCTTCTGCTCAGGTTCA
TCCTCGATGACTCCGCCTTGTACCTGTCCGACAAGTGTGAGGTGGAGACCTGGACCTGCGGCGAGATTATGTCT

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FIGURE 3273B

GTGTTTTGGATGTTGACCTCTTGGAACCTGTGATTAAAACCTGGAAAGGGAGCACCGAGGGCAAACCTGAGCCAGC
CACTATTCGAGCTGCGCTGCTCCAACAATGTGGTACACGTGCACAGCTGTGCCGACTCCTGTGCCCTGCTGGTCA
ACCTGCTCCAGTACGTAATGAGCACAGGCGATCTGCACCCCCACCCCGGCCCCCAGCCCCACGGAGATCGCCG
GCCAGAAGCTCTCGGAGAGTCTGCTCTCTGCCCTCGTGCCCCCAGTGAGACGGCCCTCATCAACCAGCGTG
ACCTGGCCGACGCCCTCCTGGACACCGAGCGCAGCCTACGGGAGCTGGCCAGCCTTCAGGTGGCCACCTCCCTC
AGGCGTCGCCCATCTCCGTCTACCTATTCAGGTGAACGGAGTGGGGCCCCACCCCTTCACCACCTGTGCGGG
GCCCTGCTGGCAGCTTAGGGTCATGCTCAGAGGAGAAGGAAGATGAAAGGGAAGAGGAGGGCGATGGAGACACCC
TGGACAGTGATGAGTTCTGCATCCTTGATGCTCCCGGCCTGGGCATCCCGCCCCGAGATGGGGAGCCTGTGGTGA
CACAGCTGCATCCCGGCCCCATCGTTGTGAGGGACGGTTACTTCTCACGGCCGATCGGCAGCACGGACTTGCTGC
GGGCACCTGCCCATTTCAGTGCCAGCACTCGGGTGGTGTACGTGAGGTCTCCCTCGTCTGGCACCTCTATG
GGGGCCGAGACTTTGGCCCCCACC CGGCCACAGGGCAAGAAGTGGCCTCTCAGGTCCCAGGAGCTCCCTTCCC
GCTGCTCTGGCCCCAACCGCCCCAGAACTCATGGCGCACGCAGGGGGCAGCGGGCGGCAGCACCATGTCCTCA
TGGAGATCCAGCTGAGCAAGGTAAGCTTCCAGCACGAGGTGTACCCAGCGGAGCCAGCCACAGGCCCTGCGGCC
CCAGCCAGGAGCTGGAGGAGCGACCGCTGTCCCGTCAGGTGTTTCATCGTCAGGAGCTGGAGGTCCGAGACCGGC
TCGCCTCCTCCAGATCAACAAGTTCCTGTACCTACACAGAGTGAGCGGATGCCGCGACGTGCCCACTCTAACA
TGCTCACCATCAAAGCGCTGCATGTGGCCCCACTACCAACCTGGGTGGGCCTGAGTGCTGTCTCCGCGTCTCGC
TGATGCCCCGTGCGCTCAATGTGGACCAGGATGCCCTCTTCTTCTCAAGGACTTCTTCACTAGTCTGGTGGCCG
GCATCAACCCCGTGGTCCCAGGGGAGACCTCCGCTGAGGCTCGCCCCGAGACTCGAGCCCAGCCCAGAGCCCCC
TGGAAGGGCAGGCCGAAGGCGTAGAGACCACTGGTTCGAGAGGCCCCAGGAGGTGGACACAGCCCCCTCCCTC
CTGACCAGCAGCCATCTACTTCAGAGAGTTCGCTTACGTCTGAGGTCCCCATCTGGCTGGATTACCATGGCA
AGCACGTACGATGGACCAGGTGGGCACCTTTGCTGGCCTCCTCATCGGCCTGGCCCAACTCAACTGCTCCGAGC
TGAAGCTAAAGCGCTCTGTTGCAGGCACGGGCTCCTGGGTGTGGACAAGGTGCTGGGCTATGCCCTCAACGAGT
GGCTGCAGGACATCCGCAAGAACCAGCTGCCCGGCCTGCTGGGAGGCGTGGGCCCCATGCACTCGGTTGTCCAGC
TCTTCCAAGGGTTCGGGACCTGCTGTGGCTGCCATTGAGCAGTACAGGAAGGATGGCCGCTCATGCGGGGGC
TGCAGCGAGGGGCTGCCTCCTTTGGCTCATCCACAGCCTCTGCCCGCCTGGAACCTCAGCAACCGGTTGGTACAGG
CTATCCAGGCCACAGCTGAGACCGTGTATGACATCCTGTCCCCGGCAGCCCCCGTCTCCCGCTCCCTGCAGGATA
AGCGCTCTGCGCGGAGGCTGCGCAGGGGCCAGCAGCCTGCCGACCTGCGGGAGGGTGTGGCCAAGGCCTACGACA
CAGTGCGAGAGGGCATCTTGGATACAGCTCAGACCATCTGTGACGTGGCATCGCGGGGCCATGAGCAGAAGGGGC
TGACGGGCGCCGTGGGGGGCGTGATCCGCCAGCTGCCCGGACTGTGGTGAAGCCGCTCATCCTGGCCACGGAGG
CCACGTCCAGCCTGCTCGGGGGCATGCGCAACCAGATTGTCCCCGACGCCCAAGGACCACGCCCTCAAGTGGC
GCTCGGACAGTGCCCAAGACTGAGCCTGGGGTGCCCGGCACCCAGAGGGTGTGCCCACCATGCTCCTGAGCCTC
CCAAGAGCTGCAGCCACGGGCCCCGGCCCTGGCCCTTCAGGGGATGGCCACTGTGAAGGACGCCTTCCCAG
CCTGCCCCTTGCCAATCTGCTGTGAGAGGGGGGCTCCCTGCCTTGGGGCCTTAGCCCTGGCTCTGCACTTTTCC
TCCGGGGAGAAAGGACACTGCCCCCTCCCCGACCTGGGGCCACACTGCTGCCTTCTCCAGGACGGAGGCTTTTG
GACCTCGGACCCCATCCCACTCAGCCAAGTGCTTTCTGTGTCTGGGGGGAGGAGGGGATGATATCCGTGTGGT
TCGATGTATTATTTTAAAGCTCCGTGAGTGCGTGGGTGAGTGTCTGCATGAAGTGAATAAACTGCCCACCGCC

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FIGURE 3274

MSRWLWPWSNCVKERVCRYLLHHYLGHFFQEHLSLDQLSLDLYKGSVALRDIHLEIWSVNEVLESMESEPLELVEG
FVGSIEVAVPWAALLTDHCTVRVSGLQLTLQPRRGPAAGAADSQSWASCMTTSLQLAQECLRDGLPEPSEPPQPL
EGLEMFQTIETVLRRIKVTFLDTVVRVEHSPGDGERGVAVEVRVQRLEYCDEAVRDP SQAPPVDVHQPPAFLHK
LLQLAGVRLHYEELPAQEPEPEPPLQIGSCSGYMELMVKLKQNEAFPGPKLEVAGQLGSLHLLLTPRQLQQLQEL
LSAVSLTDHEGLADKLNKSRPLGAEDLWLI EQDLNQQQLQAGAVAEPLSPDPLTNPLNLNDNTDLFFSMAGLTSSV
ASALSELSDVDLASSVRSDMASRRLSAQAHPAGKMAPNPLD TMRPDSLLKMTLGGVTLTLQLTSAPSSGPPD
LATHFFTEFDATKDGPFGSRDFHHLRPRFQACPCSHVRLTGTA VQLSWELRTGSRGRRTTSMEVHFQGLEVLEC
LWPRGTSEPEYTEILTFPGTLGSQASARPCAHLRHTQILRRVPKSRPRRSVACHCHSELALDLANFQADVELGAL
DRLAALLRLATVPAEPPAGLLTEPLPAMEQQTVFRLSAPRATLRLRFP IADLRPEPDPWAGQAVRAEQLRLELSE
PQFRSELSSGPGPPVPPTHLELTCSDLHGIYEDGGKPPVPCLRVSKALDPKSTGRKYFLPQVVVTNPNQSSSTQWE
VAPEKGEELELSVESPCELREPEPSPFFSSKRTMYETEEMVIPGDPEEMRTFQSR TLALSRC SLEVLPSVHIFLP
SKEVYESIYNRINNDLLMWEPADLLFTPDFAAQPSGFPGPSGFWHDSFKMCKSAFKLANCFDLTPDSDSDDEDAH
FFSVGASGGPQAAPEAPSLHLQSTFSTLVTVLKGRITALCETKDEGGKRLEAVHGELVLDMEHGTLF SVSQYCG
QFGLGYFCLEAEKATLYHRAAVDDYPLPSHLDLP SFAPPAQLAPTIYPSEEGVTERGASGRKQGRGPHMLSTAV
RIHLDPHKNVKEFLVTLRLHKATLRHYMALPEQSWHSQ LLEFLDVLDDPVLGYLPPTVITILHTHLFSCSVDRP
LYLPVRVLITAEFTLSSNIIMDTSTFLLRFILDDSA LYLSDKCEVETL DLRRDYVCVLDVDLLELVIKTWKGST
EGKLSQPLFELRCSNNVVHVHSCADSCALLVNLLQYVMSTGDLHPPPRPPSPTEIAGQKLSESPASLPSCPPVET
ALINQRDLADALLDTERSLRELAQPSGGHLPQASPI SVYLFPGERSGAPPPSPVPVGGPAGSLGSCSEEKEDERE
EGDGD TLD SDEFCILDAPGLGIPPRDGE PVVTQLHPGP I VVRDGYFSRPIGSTDLLRAPAHFPVPSTRVVLREVS
LVWHLYGGRDFGPHPGHRARTGLSGPRSSPSRCSGPNRPQNSWR TQGGSGRQHHLVMEIQLSKVSFQHEVYPAEP
ATGPAAPSQELEERPLSRQVFIVQELEVDRDLASSQINKFLYLHTSERMPRAHSNMLTIKALHVAPT TNLGGPE
CCLRVSLMPLRLNVDQDALFFLKDFFTSLVAGINPVVPGETSAEARPETRAQPS SPLEGQAEGVETTGSQEAPGG
GHSPSPPDQQPIYFREFRFTSEVP IWL DYHGKHVTMDQVGT FAGLLIGLAQLNCSELKLRCCRHGLLGVDKVL
GYALNEWLQDIRKNQLPGLLGGVGPMHVVQLFQGF RDLLWLP IEQYRKDGRLMRGLQRGAA SFGSSTASAALEL
SNRLVQAIQATAETVYDILSPAAPVSRSLQDKRSARRLRRGQQPADLREGVAKAYDTVREGILD TAQTICDVASR
GHEQKGLTGAVGGVIRQLPPTVVKPLILATEATSSLLGGM RNQIVPDAHKDHALKWRSDSAQD

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FIGURE 3275

AAGGAGAGAGGGAGGGCGGAGGGCGGAGGGGCGGCGGGAGGAGGGCGGGGAGGAGCGCTCTTCCTGGTTGGGCCC
TGCCCTGAGCTGCCACCGGGAAGCCAGCCTCAGGGACTGCAGCGACCCCCAAACACCCCTCCCCCAGGATGTGCG
AGGAGATCATCACGCCGGTGTACTGCACTGGGGTGTGAGCCCAAGTGCAGAAAGCAGCGGGCCAGGGAGCTGGGCC
TGGGCCGCCATGAGAATGCCATCAAGTACCTGGGCCAGGATTATGAGCAGCTGCGGGTGCATGCCTGCAGAGTG
GGACCTCTTCCGTGATGAGGCCTTCCCCCGGTACCCAGAGCCTGGGTTACAAGGACCTGGGTCCCAATTCTCT
CCAAGACCTATGGCATCAAGTGGAAAGCGTCCCACGGAAGTGTGTCAAACCCCCAGTTCATTGTGGATGGAGCTA
CCCGCACAGACATCTGCCAGGGAGCACTGGGGGACTGCTGGCTCTTGGCGGCCATCGCCTCCCTCACTCTCAACG
ACACCTCTCTGCACCGAGTGGTTCCGCACGGCCAGAGCTTCCAGAATGGCTATGCCGGCATCTTCCATTTCCAGC
TGTGGCAATTTGGGGAGTGGGTGGACGTGGTTCGTGGATGACCTGCTGCCCATCAAGGACGGGAAGCTAGTGTTCG
TGCACTCTGCCGAAGGCAACGAGTTCTGGAGCGCCCTGCTTGAGAAGGCCTATGCCAAGGTAAATGGCAGCTACG
AGGCCCTGTGAGGGGGCAGCACCTCAGAGGGCTTTGAGGACTTCACAGGCGGGGTACCGAGTGGTACGAGTTGC
GCAAGGCTCCCAGTGACCTCTACCAGATCATCTCAAGGCGCTGGAGCGGGGCTCTGCTGGGCTGCTCCATAGA
CATCTCCAGCGTTCTAGACATGGAGGCCATCACTTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTGACCGG
GGCCAAGCAGGTGAACTACCGAGGCCAGGTGGTGGAGCTGATCCGGATGCGGAACCCCTGGGGCGAGGTGGAGTG
GACGGGAGCCTGGAGCGACAGCTCCTCAGAGTGGAAACAAGTGGACCCATATGAACGGGACCAGCTCCGGGTCAA
GATGGAGGACGGGGAGTTCTGGATGTCAATCCGAGACTTCATGCGGGAGTTACCCGCCTGGAGATCTGCAACCT
CACACCCGACGCCCTCAAGAGCCGGACCATCCGCAAATGGAACACCACACTCTACGAAGGCACCTGGCGGCGGGG
GAGCACCGCGGGGGGCTGCCGAACTACCCAGCCACCTTCTGGGTGAACCCTCAGTTCAAGATCCGGCTGGATGA
GACGGATGACCCGACGACTACGGGGACCGCGAGTCAGGCTGCAGCTTCGTGCTCGCCCTTATGCAGAAGCACCG
TCGCCGCGAGGCCGCTTCGGCCGCGACATGGAGACTATTGGCTTCGCGGTCTACGAGGTCCCTCCGGAGCTGGTC
GCGAGCCGGCCGTACACTTGAAGCGTGACTTCTTCTGGCCAATGCGTCTCGGGCGCGCTCAGAGCAGTTCATCA
ACCTGCGAGAGGTGAGCACCCGCTTCCGCCTGCCACCCGGGGAGTATGTGGTGGTGCCCTCCACCTTCGAGCCCA
ACAAGGAGGGGCGACTTTCGTGCTGCGCTTCTTCTCAGAGAAGAGTGTGGGACTGTGGAGCTGGATGACCAGATCC
AGGCCAATCTCCCCGATGAGCAAGTGTCTCAGAAGAGGAGATTGACGAGAACCTTCAAGGCCCTCTTCAGGCAGC
TGGCAGGGGAGGACATGGAGATCAGCGTGAAGGAGTTGCGGACAATCCTCAATAGGATCATCAGCAAACACAAAG
ACCTGCGGACCAAGGGCTTCAGCCTAGAGTCGTGCCGACGATGGTGAACCTCATGGATCGTGATGGCAATGGGA
AGCTGGGCCTGGTGGAGTTCAACATCCTGTGGAACCGCATCCGGAATTACCTGTCCATCTTCCGGAAGTTTGACC
TGGACAAGTCGGGCAGCATGAGTGCCTACGAGATGCGGATGGCCATTGAGTCGGCAGGCTTCAAGCTCAACAAGA
AGCTGTACGAGCTCATCATACCCGCTACTCGGAGCCCGACCTGGCGGTGCGACTTTGACAATTCGTTTGCTGCC
TGGTGCGGCTAGAGACCATGTTCCGATTTTCAAACTCTGGACACAGATCTGGATGGAGTTGTGACCTTTGACT
TGTTTAAGTGTTGCAGCTGACCATGTTTGATGAGGCAGGACTCGGTCCCCCTTGCCGTGCTCCCTCCCTCC
TCGTCTGCCAAGCCTCGCCTCCTACCACACCACACCAGGCCACCCAGCTGCAAGTGCCTTCCTTGAGCAGAGA
GGCAGCCTCGTCTCCTGTCCCTCTCCTCCAGCCACCATCGTTTATCTGCTCCGGGCAGAACTGTGTGGCCCC
TGCCTGTGCCAGCCATGGGCTCGGGATGGACTCCCTGGGCCCCACCCATTGCCAAGCCAGGAAGGCAGCTTTGCG
TTGTTCTGCTCGGGACAGCCCCGGGTTTCCCCAGCATCCTGATGTGTCCCCTCTCCCCACTTCAGAGGCCACC
CACTCAGCACACCGGCCTGGCCTTGCTGCAGACTATAAACTATAACCACTAGCTCGACACAGTCTGCAGTCCA
GGCGTGTGGAGCCGCTTCCCGGCTCGGGGAGGCCCGGGGCTGGGAACGCCTGTGCCTTCCTGCGCCGAAGCCAA
CGCCCCCTCTGTCTTCCCTGGCCCTGCTGCCGACCAGGAGCTGCCAGCCTGTGGGCGGTGCGCCTTCCCTCCT
TCGCTCCTTTTTTATATTAGTGATTTTAAAGGGGACTCTTCAGGGACTTGTGTACTGGTTATGGGGGTGCCAGAG
GCACTAGGCTTGGGGTGGGGAGGTCCCGTGTTCATATAGAGGAACCCCAAATAATAAAAGGCCCCACATCTGTC
TGTG

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FIGURE 3276

GTAGCAGGTAAAGATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGTCCAGCGGGGCTG
CGGGCTACGGCTGTTGAGCCAGACCCAGGGGCCCTCCAGATTACCCCAGGTTTGTGGAGTCTGTGGATGAATATCA
GTTTGTGGAGCGCCTGTTACCGGCTACCAGGATCCCAGATCCCCCAAAGCATGAACATTATCCTACCCCTAGTGG
CTGGCAGCCTCCCAGAGACCCCCACCCAACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGT
CTACAAGGACATCACGCATGGCAACCGGCAGATGACTGTGATCCGGAAGTGGAAGGGGACATCTGGGCCCTGCA
GAAAGACGTGGAAGATTTTCTGAGCCCCGTGCTGGGGAAGACACCTGTACCCAGGTCAATGAGGTGACAGGTAC
CCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCCTGGCTCTTGGAGAAAGGCTTCTGAGGCCCAGCCGA
GCAGCCTGCTTGTGAGCATGCCCTGTGGATCAAGTCTAGGGGGCCTCAGGAGGAGGGAGGTGGGTGTTGGAGCCC
CTGAGACAGGGGATACAGAACTAGGGCTAAAGGACTTTGGGGTCAGGCCTTGCTTGCATAAAGGAGAAAACAAC
TCTATGTACATGCTGGGGGAGAGTGCCTAATGTGGGAGACCAAATAGGGATCACCAGGCTAATGGGGGGCGTCAG
CAGCTTTCTCTCCCTCCTATCTTGGCCTGTTCTTTTTTGTGTTTTTGGAGACGGAGTCTCACTCTGTTGCCAGGGT
GGAGTGCAGTGGCATGATCTTGGCTCACTGCAACTTCCACCTCTGGGATCAAGGGATTCTCCTGCCTCAGCCTCT
TGAGTAGCTGGGATTACAGGCGCCACCACCACAGCCTGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCAC
CATGTTGGCCAGGCTGGTCTCAAACCTCCTGACTCGAAGTGATCCGCCCACCTTGGCCTCCCAAAGCGTTGGGATT
ATAGGCATGAGCCATGTGCCTGGTCCACCTTGGCCTGTTTTGTTTTCTTTCCTTGGGCTCAGCAATTCAAATTC
TAGTTGTTATTTGGTGGAAGCAGTAGCCCAACCCAGTTTAGGGGAAGGTAGCACAGGGCAGAGCCACTGGGCAC
TTTGTTCCTTGGCCCTCCGAAGCTCACTGTTGCAAATACCCCCAAGCCTTTGCTCTAGGCCAGATCTTGTTTGG
TGCAGGTGATGGAGAACACAGATGACTCGGGCATGGGTCTTGGAGATCTTCTGTTCAAAGTACAGTGCTGGCACT
GGGGCACAGAGTGCCACGTTAGCCCCGGGCTCTGATAGAGAGGTAGGAGGCACGTTCTTGGTCACTGTTCCATT
GCAGACCAGACTTGCTGGCCTGACCACAAGGGAGTGGCTGGGAACCTCACAGCCAGCATAGGGACATCCCCCTGCA
GCCTTCTGACCTGCAATCAAGGCTGGGGAGGGGTTTGCAGGCAGGAATATGCTGACCTTTCACCCTGCCATCCCA
TCCCAACCCAGCTCACTAGCCTTCATATATGCCTTATACTTGGAGTCACAGGGGCCAAAGGCCTGAGACCCAC
CCTGCCCCCAAACCTGGCTAAGACAGCTTTCAGTTCTGACTCCCCAAGTGGTCTCTGCCCTGAAGCAGGGCACT
GAACTCTGGGCTGCTTCTCTGTGTGTAATAATGGGCACATCTTCCTAATCTGTTAATGGTCAGTGGTGTCCCCAAG
GATAGTGCTGGCTTCCATGGAAACCCCTCACTCCTGGAGATTCCATTCCATTTTCAAGTGTACAGCCACAGCAAGG
AGCCCGACACTGATTTGATCGATTCTGTGACACAAACCCACCAATTGTTAATGCAAGTTTTTATTTGGCTGTAT
ATACAATTTAAGCTATTAAATTTGTACAATATTTACAAATTAAA

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FIGURE 3277

MAATMFRATLRGWRTGVQRCGLRLLSQTQGPPDYPRFVESVDEYQFVERLLPATRIPDPPKHEHYPTPSGWQPP
RDPPPNLPYFVRRSRMHNIPVYKDITHGNRQMTVIRKVEGDIWALQKDVEDFLSPLLGKTPVTQVNEVTGTLRIK
GYFDQELKAWLLEKGF

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FIGURE 3278

GTCCAGGCAGGTGCAGGCGCCGCGGGGCCGGATCCTCCGCGCGGCCGAGTCCATCTCCTGGGAAATGGGGCGGAC
AGTGTTTCCTTGACTGACTATTGTGAGCGCCCTCTCTCTCCGGCGGAGCGGAGACCATGGCCCCACTCAGGGCC
CCCGGGCCCCGCTGGAATTCGGAGGGCCCCCTGGGCGCCGCGGCTCTGCTACTGCTGCTGCCCCGCCACCATGTTCC
ACCTGCTCCTGGCGGGCCCGTTTCGGGCCCCGCGCGCCTGCTGGGTCCACCCGCGTCCCTGCCGGGGCTGGAGGTGC
TGTGGAGCCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTCGGCCTGCAGGCGGCGCTCTACCTACTGCCGGCGC
GCAAGGTGGCCGAGGGGCAGGAATTGAAGGACAAGAGTCGCCTGCGCTATCCTATTAACGGCTTCCAGGCCCTGG
TGCTGACAGCCCTGTTGGTGGGGCTGGGGATGTCAGCGGGGCTGCCTCTGGGGGCGCTCCCGGAAATGCTCCTGC
CCTTGGCGTTTGTGCGCCACCCTCACCGCTTTCATCTTCAGCCTCTTTCTCTACATGAAGGCGCAGGTAGCCCCAG
TTTCGGCCCTGGCACCTGGGGGGAACCTCAGGCAATCCGATTTACGACTTTTTTCTGGGACGAGAGCTCAACCCTC
GTATCTGTTTCTTCGACTTCAAATATTTCTGTGAAGTGCAGCCCGGCCTCATCGGCTGGGTCTCATCAACCTGG
CCCTGTTGATGAAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTTCCAGTTGC
TCTACGTGGGTGATGCCCTCTGGCACGAGGAGGCCGTCCTCACCACCATGGATATCACACATGACGGGTTTGGCT
TCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACAGCCTGCAGGCCCAGTTCTCTGCTGCACCACC
CGCAGCCCCCTGGGGTTGCCCATGGCCTCTGTCTATCTGCCCTCATCAATGCTACTGGTTACTACATCTTCCGTGGGG
CGAATTCCCAGAAAAACACTTTCCGAAAGAATCCTTCTGACCCCAGAGTGGCTGGGCTTGAGACCATCTCTACAG
CCACAGGGCGGAAACTGCTGGTGTCTGGGTGGTGGGGTATGGTCCGCCATCCCAACTATCTTGAGACCTCATCA
TGGCTCTGGCTTGGTCCTTGCCCTGCGGGGTGTACACCTGCTGCCCTACTTCTACCTCCTCTACTTCACCGCGC
TGCTGGTGCACCGTGAGGCCCGGGATGAGCGGCAGTGCCTGCAGAAGTACGGCCTGGCCTGGCAGGAGTACTGCC
GGCGTGTGCTTACCGCATCATGCCCTACATCTACTGAAGCGGCTCCACCACCCAGGTGGGGGCATGTGCCAC
TCATCCACCAGCACACCCAGGACCAGGAGCCTCGACACACTTGGGACTCAAGGGCTTGACCCCCACCCAGCCCTG
AGGATGAACAACCTCAGAGAAGAGGTGGTTTAGAGCAAGGAAAAAATGAAACCAGTGACC

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FIGURE 3279

TTCCTTTCCAGCCTCACGCCCCTGGGCTGCAGTTGGAACG**ATG**CGCGCGGCAGCTGCCGCCGGGCCTAGCCCCGGG
GTCTGGACCTGGGGACTCCCCAGAAGGGCCCCGAGGGGGAGGCTCCGGAGCGTCGGCGGAAGGCGCACGGGATGCT
GAAGCTTTACTACGGCCTCTCGGAAGGGGAGGCGGCGGGACGCCCCGCGGGGGCCCGACCCCTGGACCCGACTGA
TCTGAACGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCGTAGAGAGTGCCCTCTGGCCCAGTTGAT
GGACAGTGAGACGGACATGGTGCGGCAGATCCGGGCTCTAGACAGCGACATGCAGACCCTGGTCTATGAGAACTA
CAACAAGTTTCATCTCAGCCACAGACACCATCCGGAAGATGAAGAACGATTTCGGAAGATGGAGGATGAGATGGA
CCGGCTGGCCACCAACATGGCAGTGATCACCGACTTCAGCGCTCGCATCAGCGCCACGCTGCAGGACCGCCACGA
GCGCATACCAAGCTGGCAGGGGTCCACGCGCTGCTGCGGAAGCTGCAGTTCTCTTTGAGCTGCCCTCGCGCCT
CACCAAGTGCGTGGAAGTGGGCGCCTATGGGCAGGCGGTGCGCTACCAGGGCCGCGCGCAGGCCGTGCTGCAGCA
GTACCAACACCTGCCCTCGTTCCGCGCCATCCAGGACGACTGCCAGGTCATCACGGCCCGCCTGGCCCAGCAGCT
GCGGCAGCGCTTTAGGGAGGGCGGCTCAGGCGCCCCGGAGCAGGCAGAGTGCGTGAGCTGCTGCTGGCCCTGGG
CGAGCCTGCGGAGGAGCTGTGCGAGGAGTTCTTGGCGCACGCCCCGCGCGCGGCTGGAGAAGGAGCTGAGAAACCT
GGAGGCCGAGCTGGGGCCCTCACCTCCGGCTCCCGACGTGTTAGAGTTACCGACCATGGAGGCAGTGGCTTCGT
GGGCGGCCTCTGCCAGGTGGCGGCGGCCTACCAGGAGCTGTTTGCGGCCCAGGGCCCAGCAGGTGCCGAGAAGCT
GGCGGCCTTCGCCCCGCGAGCTGGGCAGCCGCTATTTTGCCTGGTGAGCGGCGGCTGGCGCAGGAGCAGGGTGG
TGGTGACAACCTCACTGCTGGTGCGGGCGCTGGACCGCTTCCACCGGCGCTTGCGGGCTCCCGGGGCCCTGCTGGC
CGCTGCCGGGCTCGCAGACGCTGCCACGGAGATCGTGGAACGAGTGCCCCGCGAGCGCCTGGGCCACCACCTGCA
GGGTCTCCGGGCGGCCTTCCTGGGCTGCCTGACAGACGTCCGCCAGGCGCTGGCAGCACCTCGCGTGCGTGGA
GGAGGGCCCTGGCCTGGCCGAGTTGCTGGCCAATGTGGCCAGCTCCATCCTGAGCCACATTAAGGCCTCTCTGGC
AGCAGTGACCTTTTACCGCCAAAGAGGTGTCCTTCTCCAACAAGCCCTACTTCCGGGGTGAGTTCTGCAGTCA
GGGTGTCCGTGAGGGCCTCATCGTGGGCTTCGTCCACTCTATGTGCCAGACGGCTCAGAGCTTCTGCGACAGCCC
TGGGGAGAAGGGGGGTGCCACACCACCTGCCCTGCTCCTGCTGCTCTCCCGCCTCTGCCTGGACTACGAGACGGC
CACCATCTCCTACATCCTCACTCTCACTGATGAACAGTTTCTGGTGAGGATCAGTTCCCAGTGACGCCCCGTGAG
CACGCTGTGTGAGAGGCCAGGGAAACGGCGCGGCGGCTGCTGACCCACTACGTGAAGGTGCAGGGCCTGGTCAT
ATCACAGATGCTGCGCAAGAGCGTGAGAGACTCGCGACTGGCTCAGCACTCTGGAGCCCCGGAATGTGCGGGCCGT
CATGAAGCGGGTGGTGAGGATACACCGCCATCGACGTGCAGGTGGGGCTCCTGTACGAAGAGGGTGTTCGCAA
GGCCCAGAGCAGCGACTCCAGCAAGAGGACTTTCTCCGTGTACAGCAGCTCTCGGCAGCAGGGCCGCTACGCCCC
CAGCTATACCCCCAGTGCCCCGATGGACACCAACCTCTTGAGCAATATCCAGAAGCTATTCTCTGAACGTATTGA
TGTGTTACGCCCTGTGGAGTTCAACAAGGTGTCGGTGCTGACCGGCATCATCAAGATCAGCCTGAAGACGCTGCT
GGAGTGTGTGCGGCTGCGCACCTTTGGGCGCTTCGGGCTGCAGCAGGTGCAAGTGGAAGTGGCTGCCACTTTCTGCAGCT
CTACCTGTGGCGTTTTTGTGGCCGACGAAGAACTCGTGCACTTGCTGCTGGACGAAGTGGTGGCCTCTGCTGCCCT
GCGCTGCCAGACCCTGTGCCCATGGAGCCCAGTGTGGTTGAGGTTCATCTGCGAGCGCGGC**TAG**GCGCAGCCGCT
GCCATGCACCGGTCTGTCCCTGCACCCCATGGCACCAGGATCTGGTCTCGGTGGTCTTCCCCGAGGCAGGTG
TCAGGACCGGCCTAATAAACATGTGTGGCCTCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3280

MAAAAAAGPSPGSGPGDSPEGPEGEAPERRRKAHGMLKLYYGLSEGEAAGRPAGPDPLDPTDLNGAHFDPEVYLD
KLRRCEPLAQLMSETDMVRQIRALDSDMQTLVYENYNKFISATDTIRKMKNDFRKMEDEMDRLATNMAVITDFS
ARISATLQDRHERITKLAGVHALLRKLQFLFELPSRLTKVELGAYGQAVRYQGRAQAVLQQYQHLP SFRAIQDD
CQVITARLAQQLRQRFREGGSGAPEQAECVELLLALGEPAEELCEEFLAHARGRLEKELRNLEAELGPSPPAPDV
LEFTDHGGSGFVGGLCQVAAAYQELFAAQGPAGAEKLAAFARQLGSRYPALVERRLAQEQQGGDNSLLVRALDRF
HRRLRAPGALLAAAGLADAATEIVERVARERLGHHLQGLRAAFLGCLTDVRQALAAPRVAGKEGPGLAELLANVA
SSILSHIKASLAAVHLFTAKEVSFSNKP YFRGEFCSQGVREGLIVGFVHSMCQTAQSFCDSPGEKGGATPPALLL
LLSRLCLDYETATISYILTLTDEQFLVQDQFPVTPVSTLCAEARETARRLLTHYVKVQGLVISQMLRKS VETRDW
LSTLEPRNVRVAVMKRVVEDTTAIDVQVGLLYEEGVKRAQSSDSSKRTFSVYSSSRQQGRYAPSYTPSAPMDTNLL
SNIQKLF SERIDVFS PVEFNKVS VLTGIIKISLKTLL ECVRLRTFGRFGLQQVQVDCHFLQLYLWRFV ADEELVH
LLLDEVVASAALRCPDPVPMEPSVVEVICERG

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FIGURE 3281

GAGGGATAATCGGGGCGGCCGGGGCTGAAGGGAGAGGCGCAGGAGCCCTGGGGAGAGTGGTCCCTGCCCTTCCGC
GCCTCGAGCCATCGCTACCGCCCTTCGGAACCAAGTGCAGCGGCCGATCAGTAAACACAGAGACTGGGGATCGATC
ATGGGGCTTTGTAAAGTGCCCCAAGAGAAAAGGTGACCAACCTGTTCTGCTTCGAACATCGGGTCAACGTCTGCGAG
CACTGCCTGGTAGCCAATCACGCCAAGTGATCGTCCAGTCCCTACCTGCAATGGCTCCAAGATAGCGACTACAAC
CCCAATTGCCGCCTGTGCAACATAACCCCTGGCCAGCCGAGAGACGACCCGCCCTTGCTCTGCTATGATCTCTTTCAC
TGGGCCTGCCTCAATGAACGTGCTGCCAGCTACCCCGAAACACGGCACCTGCCGGCTATCAGTGCCCCAGCTGC
AATGGCCCCATCTTCCCCCAACCAACCTGGCTGGCCCCGTGGCCTCCGCACTGAGAGAGAAGCTGGCCACAGTC
AACTGGGGCCCGGGCAGGACTGGGCCTCCCTCTGATCGATGAGGTGGTGAGCCCAGAGCCCGAGCCCTCAACACG
TCTGACTTCTCTGACTGGTCTAGTTTTAATGCCAGCAGTACCCCTGGACCAGAGGAGGTAGACAGCGCCTCTGCT
GCCCCAGCCTTCTACAGCCAGGCCCCCGGCCCCCAGCTTCCCCAGGCCGGCCCGAGCAGCACACAGTGATCCAC
ATGGGCAATCCTGAGCCCTTGACTCACGCCCCCTAGGAAGGTGTATGATACGCGGGATGATGACCGGACACCAGGC
CTCCATGGGAGACTGTGACGATGACAAGTACCGACGTCGGCCGGCCTTGGGTGGCTGGCCCGGCTGCTAAGGAGC
CGGGCTGGGTCTCGGAAGCGGCCGCTGACCCTGCTCCAGCGGGCGGGGCTGCTGCTACTCTTGGGACTGCTGGGC
TTCCTGGCCCTCCTTGCCCTCATGTCTCGCCTAGGCCGGGCGGCAGCTGACAGCGATCCCAACCTGGACCCACTC
ATGAACCCTCACATCCGCGTGGGCCCCCTCCTGAGCCCCCTTGCTTGTGGCTAGGCCAGCCTAGGATGTGGGTCT
GTGGAGGAGAGGCGGGGTAATGGGGAGGCTGAGGGCACCTCTTCACTGCCCCCTCTCCCTCAAGCCTAAGACACTA
AGACCCCAGACCCAAAGCCAAGTCCACCAGAGTGGCTGCAGGCCAGGCCTGGAGTCCCCGTGGGTCAAGCATTG
TCTTGACTTGCTTTTCTCCCGGTCTCCAGCCTCCGACCCCTCGCCCCATGAAGGAGCTGGCAGGTGAAATAAA
CAACAACCTTTATTAAAC

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FIGURE 3282

MGLCKCPKRKVTNLFCEHRVNVCEHCLVANHAKCIVQSYLQWLQSDYNPNCRLCNIPLASRETTTLVICYDLFH
WACLNERAAQLPRNTAPAGYQCPSCNGPIFPPTNLAGPVASALREKLATVNWARAGLGLPLIDEVVSPEPEPLNT
SDFS DWSSFNASTPGPEEVDSASAAPAFYSQAPRPPASGRPEQHTVIHMGNPEPLTHAPRKVYDTRDDDRTPG
LHGDCDDDKYRRRPALGWLARLLRSRAGSRKRPLTLLQRAGLLLLLLGLLGFLALLALMSRLGRAAADSDPNLDPL
MNPHIRVGPS

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FIGURE 3283

GCAGCGAGTGGCCTTCCCGGTTGGCGCGCGCCCGGGGCGGCGGCGCTGGAGGAGCTCGAGACGGAGCCTAAGTTA
TGTCTGGGAGGCGAACGCGGTCCGGAGGAGCCGCTCAGCGCTCCGGGCCAAGGGCCCCATCTCCTACTAAGCCTC
TGC GGAGGTCCCAGCGGAAATCAGGCTCTGAACTCCCGAGCATCCTCCCTGAAATCTGGCCGAAGACACCCAGTG
CGGCTGCAGTCAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCAATCAC
CTCGCAGGAGCCCTAGGATTTCTTTTCTTGGAGAAAGAAAACGAGCCCCCTGGCAGGGAGCTTACTAAGGAGG
ACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAGCACTCCTGTGCCGAACCTGAGGCCGAGTCCAGCT
CCAAGGAAGGAGAGCTGGACGCCAGAGACTTGAAATGTCTAAGAAAGTCAGGCGTTCTTACAGCCGGCTGGAGA
CCCTGGGCTCTGCCTCTACCTCCACCCAGGCCGCGGTCTGTCTTGGCTTCGAGGGGCTGCTGGGGGCAGAAG
ACTTGTCCGGAGTCTCGCCAGTGGTGTGCTCCAACTCACCAGAGTCCCCAGGGTTTGTGCAAAGCCCTGGGCCC
CAGACATGACTCTCCCTGGAATCTCCCCACCACCCGAGAAACAGAAACGTAAGAAGAAGAAAATGCCAGAGATCT
TGAAAACGGAGCTGGATGAGTGGGCTGCGGCCATGAATGCCGAGTTTGAAGCTGCTGAGCAGTTTGATCTCCTGG
TTGAATGAGATGCAGTGGGGGGTGCACCTGGCCAGACTCTCCCTCCTGTCTGTACATAGCCACCTCCCTGTGGA
GAGGACACTTAGGGTCCCTCCCTGGTCTTGTTACCTGTGTGTGTGTGCTGGTGTGCGCATGAGGACTGTCTGCC
TTTGAGGGCTTGGGCAGCAGCGGCAGCCATCTTGTTTTAGGAAATGGGGCCGCTGCCAGCCACTCACTGGTG
TCCTGTCTCTTGTCTCTCTCTTCTTCTATCTCCCCAAAGTACCATAGCCAGTTTCCAGATGGGGCCACAGACTGG
GGAGGAGAATCAGTGGCCCAGCCAGAAGTTAAAGGGCTGAGGGTTGAGGTGAGAGGCACCTCTGCTCTTGTTGGG
AGGGGTGGCTGCTTGGAAATAGGCCAGGGCTCTGCCAGCCTCGGCCTCTCCCTCCTGAGTTGCCCTTCTGTTGGT
GGCTTTCTTCTGAACCCACCTGTGTAAAGAGGTTTTAGTTCCGTGGGTTTTCCCTTTGATTCTGTAAATAGTC
CCAGAGAGAATTCTGTTGGCTGAGGGCAATTCTGTCTTGGAGGAAGAAGCTGGACATTACAGCCTGTGGAGTCTGAG
TTTTGAAGGATGTAGGGAGCCTTAGTTGGGTCTCAGACCATAAGTGTGTACTACACAGAAGCTGTGTTTTCTAGT
TCTGGTCTGCTGTTGAGATGTTTGGTAAATGCCAGGTTGATAGGGCGCTGGCTGCTTGGAGCAAAGGGTGCATTT
CAGGGTGTGGCCACCAGGTGCTGTGAGTTTCTGTGGCTCATGGCCTCTGGGCTGGTCCCTTGCACAGGGCCACG
CTGGAGTCTTACCACTCTGCTGCAGGGGTGGAAGGTGGCCCTCTTGTACCCATACCCATTTCTTACAAAATAA
GTTACACCGAGTCTACTTGGCCCTAGAAGAGAAAGTTGAAGAGTCCAGACCTACTAGCATTTTGCAACTATGCT
TGTAAGTCCCTCGGAAAGTTTCTCGCTACCAGACAGCGCGGGGGCTGATAGCAATTTTAGTTTTTGGCCTCC
CTATCCTCTCACATGAGAACACTGCCTGGATGCATCTCATGATCTCTGGAGAATTTCCCATCTTTCTCTTTCTTT
CCATCGTGTGGATTCAATAGTGTGGATTGAAGGCTGCCCTGCCCCGACTCTCCTGCCGCACCCCTGGCCATTG
TACCTTTTGATGTTTAGAAGTTCGTGGAAGTAGACGCTGAGGTGTGCAGAGGAGCTGGTGGATAACAGAGAATGC
CAGGGAAGATGAGTGTGGGTGAGGCTACTTGGATGAAACGGTGCAGGCCAGGCGGGCCCTAATAAAACCCTCTG
CCAGGTCTGGGAGTCCCAGGCCATCTGCTCAACGCTCTGTGGTTTGTGACACCTGCAAGCAAGCCCCCTGCTGGG
GAAGCCTAGGTGTCTTGTAGCTGAACCGCACTGAAGAACTCTTGTCTCACTGGCTGATGCAGCAGAACTCTTGG
GAAATGTCTTAGTCTGTCAGAAATCAGGAGTACCAGATGATGCAGAGTTGAGATCATCATTGCAAAGTTCTCTGT
TCCTGAGGAACATAAATTTAAGGAAAAAATGGGATTTTGTTTTAGAGTTGGAAAAAAGCCTGATTAAAGAGTTT
TGCTGTT

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FIGURE 3284

CTCCGGGGCCCCATGGGGCTCCTGACCATTTCTGAAGAAGATGAAGCAGAAAGAGCGGGAGCTGCGACTGCTCATGC
TTGGCCTGGACAATGCTGGAAAGACAACCATCCTGAAGAAGTTCAATGGGGAGGACATCGACACCATCTCCCCAA
CGCTGGGCTTCAACATCAAGACCCTGGAGCACCGAGGATTCAAGCTGAACATCTGGGATGTGGGTGGCCAGAAGT
CCCTGCGGTCTACTGGCGGAACCTTTTGAGAGCACCGATGGCCTCATCTGGGTAGTGGACAGCGCAGACCGCC
AGCGCATGCAGGACTGCCAGCGGGAGCTCCAGAGCCTGCTGGTGGAGGAGCGCCTGGCCGGAGCAACCCTCCTCA
TCTTTGCTAATAAGCAGGACCTGCCTGGAGCACTGTCCTCTAACGCCATCCGCGAGGCCCTGGAGCTGGACTCCA
TCCGCAGCCACCACTGGTGTCATCCAGGGCTGCAGCGCCGTACCGGGGAGAACCTGCTGCCGGGCATCGACTGGC
TCCTGGATGACATTTCCAGCCGCATTTTCACAGCTGACTGAACCACTCCAGATGCCCCCACCTAGCAGTCCAGG
TCCCTCAACCTTCACCAAACACTACCCATGGGGGGTTGGGAGTCAGCCGGCCAAACTAACACTCCCCCTCCTCCA
CCCCAGCCTGCTGCTGCTACTGCTGCCGCTGCTGCTCTGTGGCCACCGGCTCCCATGGCGGGAGGCTGTGCCCT
GGCTGTCTCTCTGGCTCCTGACCTGGCCTTTGGCTACCATAACCAAGAAGAGAGGGCTGGGCGGGGAGGAGCTGCT
ACTGCTGCTACCGAGGCTGTGGGCCTCATCCTTCACTCAGTTGTGAAATAAACCGCTCCTTGCCCCGAAAAAAAA
AA

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FIGURE 3285

MGLLTILKKMKQKERELRLMLGLDNAGKTTILKKFNGEDIDTISPTLGFNIKTLEHRGFKLNIWDVGGQKSLRS
YWRNYFESTDGLIWVVD SADRQRMQDCQRELQSLLEERLAGATLLIFANKQDLPGALSSNAIREALELDSIRSH
HWCIQGCSAVTGENLLPGIDWLLDDISSRIFTAD

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FIGURE 3286

ATGAATGCAGCACTGAGCTCTGTTTGCCCTCTAAGCTTGTCCTCCAGAAAAACAAGATATACCCTAAATATGCAC
GATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTTTCCCTG
GCAGCTTTCAGTGTCATCAGTGTTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCACCATCAGCTTCAGGATC
TACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTAGACATT
ACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAACTCATT
ATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTT
GGTGCTGTTTTTAACGGAATCACCCCTTCTAATTCTTGCTGAACTGCTCATTTTCAGTGTCCTGATTGTCTATGAG
AAGTACAAGGAGATGGGCCACTAA

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FIGURE 3287

GGCCTGAGGGCGCCGCACTCGACTGCTTCGAGGTGACGCTGAAATGCGAGGAAGGGGAGGACGAGGAGGAGGCCA
TGGTGGTGGCCGTAATTCCGCGGGCCGAGCCGATGCTCAGAGTGACCCAACAGGAGAAGACCCCCACCGCCTAGAC
CCAGCCCCGCTAGAGGCAGGCAGTGATGGCTGTGAGGAGCCGAAGCAGCAGGTGTCTTGGGAGCAGGAGTTCCTGG
TGGGCAGCAGCCCAGGAGGCAGCGGGCGGGCACTGTGCATGGTGTGTGGCGCTGAGATCCGGGCACCCCTCGGCCG
ACACAGCTCGCTCGCACATCTTGGAGCAGCACCCCTCACACCTTGGACCTGAGCCCTTCTGAGAAGAGCAATATCC
TGGAGGCCTGGAGTGAAGGGGTGGCCCTCTTGCAAGACGTGAGAGCTGAGCAGCCGTCCCCACCCAACCTCAGACT
CGGGCCAGGATGCCCACCCAGACCCAGACGCCAACCCAGACGCTGCCAGAATGCCAGCCGAAATCGTCGTTCTCC
TTGACTCTGAGGATAACCCATCCCTCCCTAAAAGGAGCAGGCCCAGGGGACTCCGCCCCCTCGAGCTTCCTGCTG
TCCCTGCCACAGAGCCAGGAAATAAGAAGCCCCGTGGTCAGAGATGGAAGGAACCCCCAGGGGAAGAGCCAGTCA
GAAAGAAAAGAGGCAGACCTATGACCAAAAACCTGGACCCTGACCCAGAGCCCCATCGCCAGACTCGCCCACGG
AGACTTTCGCAGCACCAGCCGAGGTCCGACACTTCACTGACGGCAGCTTCCCCGCCGGCTTCGTCTTGACAGCTCT
TCTCCACACCCAGCTCAGGGGCCCAGACAGCAAGGACTCACCCAAAGACAGGGAAGTGGCAGAAGGAGGCCTTC
CCCGGGCGGAGAGCCCCCTCTCCAGCTCCCCCTCCGGGGCTCCGCGGGACACTGGATCTCCAGGTTATCCGCGTGC
GGATGGAGGAGCCCCCAGCGGTGACGCTCCTGCAAGACTGGTCCAGGCACCCCCAGGGCACCAAGCGTGTGGGAG
CAGGTGACACCTCAGACTGGCCCCACAGTTCTGTCAGAATCCAGCACCCTGTGGCAGGGAAGCCGGAAAAAGGGA
ATGGAGTGTAATTTCTTGCTTTCTGGGGAGGGAGGGAGGGATGAGGCAGCGTCCCCCAGTGGCTTATAACTCAG
AGCTGCCTGGCTCACCCACCTGGTGGAGAGAGTAGAAACAGGTGCCAGGGCAGGAGGGGGCTGGGGCAGCATCCA
CTGTTATTTGCGGGCACTGGAAAGTGTCTGTTCCCTGGCCAGGCCTGAGGTGCGCGAGGGTGGCTGAGGCTGTTGT
GCAGTAGGGCACTGGGCCTGTGGAGAACACCTACCCCAGTCCTTCGCTGACCCCCACCTCTGTTTGTCCCCCATG
ACCTCCTCCACCCCTCCCCCTGCTCCCCACCATTTCTCCCTTGGCACAGTGCCTTACACAAGAGTGGTCATAAGGG
GGTTTGAAGTGAAGTCCCACTACCTCGGGGGACACCTCTCCTCCCCACTTGTTTCAGGCTTCTAAACCAGGAGGCCT
CCATTACCTCTTCCTGTCCACCCCTGCAGAGGCCTGAAGCTGGGCCTGGGCACCCCATTCACTCCCGTTCTCAT
TTACATCTGTTTTCTGTTGTATATATCACCTTTGTTGACAATAAATTATTTTTTTTTTATT

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FIGURE 3288

GCGCCCAGCCGCTGAACGGCGTGGGCAGGTGGGCGGTGGGGTTCCAGGGCGCCCCGAGGACAGGGGGCCCCGACT
TCAGGGGAACCCCAACCCTGAGGGGCGTACATAGTAATCACGCCCCAGCCGCACCGGACCTTGCGCTCATCCCTT
GCGTCCCCCACTTCTGCACAACTTTTCTGACGCCCTGGCTCGTGGGGGTCGTGGAGAGCGCTGGGGCTACCAGG
TGGGCTCCCACCCCGCCGGACCTAGCCACGCTGACCTCCTGCCTCTCCTAACCTCAGTGGCGACCTCTCCAGGC
CGGGCCGGGCTCGGCACTCGGAGCGAGTGC GGCAACCACTGTCTGCTCTCCGAAGGCTCCTGCGCCCCCGGGGCA
GCTGGGCGGGGTAATGCCCTCAGTGATGGAGAAGCCGAGCGCGGGCTCTGGGATCCTGTCCCGTAGCCGGGCCAA
GACGGTGCCCAACGGCGGACAGCCCCACTCGGAGGATGACAGCAGCGAGGAGGAGCACTCGCACGTCCCTTCTGT
GGCTGCAGACAGCATGATCCGCGTTGGAACCAATTACCAGGCCGTAATTCCGGAGTGCAAGCCTGAGAGCCCCGC
ACGCTACAGCAACAAGGAGCTGAAGGGGATGCTGGTGTGGTCACCCAACCACTGTGTGTCAGATGCCAAGCTTGA
CAAGTACATTGCGATGGCCAAGGAGAAGCATGGCTACAACATTGAGCAGGCGCTGGGCATGCTTCTGTGGCATAA
GCACGATGTGGAGAAGTCGCTGGCCGACCTGGCCAACCTTACCCCATTCCTGACGAGTGGACAGTAGAGGACAA
GGTGCTGTTTGAACAGGCCTTTGGCTTCCATGGCAAATGCTTCCAGCGGATCCAGCAGATGCTGCCTGACAAGTT
GATTCCCAGCCTGGTGAAATACTACTACTCTTGGAAGAAGACCCGCGAGCCGAAGTGTGTGATGGACAGACAGGC
CCGGCGGCTGGGGGGCCGCAAGGACAAAGAAGACAGTGATGAGCTCGAAGAGGGTCGAGGAGGCGTGAGTGAGGG
AGAGCCCGATCCTGCAGATCCCAAGAGAGAGCCTTACCCTCTCGGCCCCCTGAATGCACGCCCAGGCCCTGGGAA
AAAGGAGGTCCAGGTGTCTCAGTACCGCCACCATCCCTTGCGAACCCGGCGTCGCCCCACCAAGGGCATGTACCT
GAGCCCTGAAGGCCTCACGGCAGTGTGAGGAAGCCCGGACCTTGCCAACCTCACGCTCCGAGGTCTTGACTCTCA
GCTCATCTCCCTCAAGCGCCAGGTACAGAGCATGAAGCAGACGAACAGCAGCCTGCGCCAAGCCCTGGAGGGCGG
TATTGATCCACTACGCCCCCGGAGGCCAACACCAAGTTCAACTCCCGCTGGACCACAGATGAGCAGCTTTTGGC
TGTTCAAGCCATCCGTAGGTATGGCAAAGACTTTGGGGCTATTGCAGAGGTGATTGGGAACAAGACTCTGACCCA
GGTGAAGACTTTCTTTGTGAGCTACCGGCGCCGCTTCAATCTGGAGGAGGTGCTGCAGGAATGGGAGGCTGAGCA
GGATGGGGCCCCCTGGAGCCCCAGTCCCCATGGAGGAGGCTAGGAGAGGGGCTCCATTGCCAGCCCCAGCCCTAGA
GGAAGATGATGAGGTCCAGATTACATCGGTCTCCACGTCCGTGCCCCGATCAGTGCCCCCTGCGCCACCACCCCC
TCCACCTCCCACCTCGCTGTCCCAGCCACCCCCGCTGCTGAGGCCACCTTTGCCCACGGCTCCCACTCTGCTCCG
ACAGCCACCCCCACTGCAGCAGGGCCGCTTCCCTCCAGCCCCGGCTGGCCCCCAACCAGCCCCCACC GCCTCTCAT
CCGCCCCGCTCTGGCTGCCCCCGCCACAGCGCCCGCCCTGGCCCTCAGCCCCCACCACCCCTGATTGGAACCCC
TCTGGAGCCCCCAGCACCCCTCACTCTGAGCCCTGACGTCTCCACCAACCACGGGCTCCAGGACCCCTTTGCTGG
CCATCCCCAGGCATCTCTGGTGTCACTGAGGACAGAAGGGACTAGGGCTCTGGCGGGGTCTTTGTAAGACCAGAG
TTTCGGACAGCCCAGCCCCGCCCTTTGGGTTCTGCATGTGTTCTTGGCAGCTGGGCCTGTCTCCTGGGGCCATGG
CCGGGCTCAGGGGCCCTTTGAGCTGGCCTGAGGGCACTTTTCGTTCTTGGCCGGTACTGGAATGGCTGTGTCTAG
TCTGCTGGGGCTTGGCCTCTGGGTCTGCCCCTTTGTGTGTCCGGGGTAGTGACCTTAGCGTGAGTGAGGAGAGG
GCAGTTGGGTGTGCTGGCTGTTCTCATTCTTCCCTTCTTTTAGCAATAAGTCTGGGGTGAGGTGGGGAGGG
AGGCTGCAGGGGGGAGGTGGGCAGAGGGGCCTTACAGCAGCAGAGGCTGGAAGAGAAGCTCTGTCTTCAGGGGC
CAGCTGGGAAATGCTAAGGAGCTGAGGGTGCCCAACCAAGCCACCTTCCAGAACTTGGAGAAATGGGGGTTGGG
AACTTATGCAGACATGGATTTATTTTTCAACATTTTTTAAAAATTAAAAAAAATAAAATCTAA

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FIGURE 3289

CCTCGTGCCGCAGTTCTGCCACCGTCACTGAGAAGCTCAGCGGTAGCTTTTGGGAAGCAGGACGTTCTCACCAGG
AGAGCGTCCTCTCGAGATTTCTGCTCCCTCCATTACAGGGCGTTTGGGAGCCACCCCTTCATTTTTTAAAAAAGT
ATTTCTCTGTGACCGACGGCCGGGGCCTTCTGACGGTCTGAGGTCTTGCTTGGGCCAGTCACCTCCTGTCACGGT
CCGCGGAGGGGGGAAGGATAAGAGGGCGAGGAGCTCATCGCTCGCCACCCCGTGGGCTTCTTGGGCGCAGGTCG
GAGCTGGGTGGGCCGGCTCCCCGGCCCCCTGGCTTGGGCGACCATGTCCGCATCCGCCCAGCAGCTGGCGGAGGAG
CTGCAGATCTTCGGCCTAGACTGCGAGGAGGCTCTAATTGAGAAATTGGTAGAGCTTTGTGTTCAGTATGGACAG
AATGAGGAGGGAATGGTAGGCGAGCTTATAGCCTTCTGCACCAGCACACATAAAGTTGGCCTTACCTCAGAGATC
CTGAACTCTTTTGAAGCATGAGTTTCTGAGCAAAAGATTATCGAAAGCCAGGCATAGTACCTGCAAGGACAGTGGC
CATGCAGGAGCTAGAGACATTGTTTCCATTCAAGAGCTAATTGAAGTGAAGAAGAAGAGGAAATCCTCTTGAAC
TCTTACACCACACCTTCAAAGGGTCTCAGAAGCGAGCTATCTCTACCCCAGAAACCCCTTAACAAAAAGGAGT
GTGTCAACTCGTAGCCCCCATCAGCTACTCTCACCCTCAAGTTTCTCTCCAAGTGCTACTCCCTCCCAGAAATAC
AACTCACGAAGTAACCGAGGAGAAGTGGTTACCTCCTTCGGCTTAGCACAGGGAGTATCTTGGTCTGGGAGAGGA
GGAGCTGGAAACATCAGCCTGAAGGTCTTGGGATGTCCAGAGGCACTAACTGGGAGCTACAAATCCATGTTTCAG
AAGCTCCCAGACATTCGAGAAGTTCTGACCTGTAAGATAGAAGAACTTGGCAGCGAACTCAAGGAACATTACAAG
ATTGAAGCTTTTCACTCCTTTGCTAGCCCCAGCACAGGAGCCTGTCACTCTGCTGGGCCAGATTGGCTGTGATAGC
AACGGGAAGCTGAACAACAAGTCAGTGATTCTCGAGGGAGACCGGGAACATTCTCGGGTGCTCAAATTCAGTG
GATTTATCTGAGCTTAAGGAATATTCTCTGTTTCTGGACAGGTTGTAATTATGGAAGGAATCAACACCACTGGT
AGGAACTTGTGGCCACAACTCTACGAGGGTGTGCCACTTCCATTTTATCAGCCCACTGAAGAGGATGCAGAC
TTTGAGCAAAGCATGGTCTGCTGCTGTGGACCATAACCACATCTGACAGCATCACGTATGACCCCTGCTT
GACCTGATTGCTGTTCATCAACCATGACCGGCCAGATGTCTGCATCCTGTTTGGCCCTTTCTCGGATGCTAAGCAT
GAACAGGTGGAGAATTGTCTACTGACAAGTCCATTTGAAGACATTTTCAAGCAGTGCTACGAACAATTATTGAA
GGCACAAGAAGCTCCGGCTCCACCTTGTCTTTGTCCCGTCAATTGAGAGATGTGCACCATGAGCCTGTGTACCCC
CAGCCGCCTTTTCACTACTCCGATCTGTCTCGAGAGGACAAAAAGCAAGTACAGTTTGTGTCCGAGCCCTGCAGC
CTCTCCATAAACGGAGTGATCTTCGGCTTGACATCCACAGATCTGCTTTTCCACCTGGGGGCCGAGGAGATCAGT
AGTTCTTCCGGAACCTCAGACAGATTACAGCCGAATACTCAAGCACATCTTGACCCAGAGGAGCTACTACCCACTC
TACCCGCCCAAGAAGACATGGCCATTGACTATGAGTCTGTTCTATGTTTACGCACAGCTGCCTGTACCCCAAGAT
GTCCTCATCATCCCGTCAGAGCTGAGGTACTTTCGTGAAGGATGTCTCGGCTGTGTCTGTGTGAACCTGGGCGC
CTTACCAAAGGGCAGGTGGGAGGCACCTTCGCCCAGTCTACCTTAGGAGGCCGACGCGACGGGGCAGAGAGG
CAGAGCCCATGCAATTGCTGTGCAGGTCGTCAGGATCTGAGGCTTCTGTCTCTGCTGTTCTCTGCTGTGTGGGCC
CTTAAAGTCTTAGCCAAGAGCCAAGACATAGCCCTGTGACAAGGTGAACAGTTGGGTGGGAAAGGAGAGAGGAGC
CAGCCAGGGAGGGGACAGCTGCAGTGACCAGGCCAGCAGGGAGGACTTGTGCAGCCGGGCCTGCCTCTGAGTGGT
GCCTCTCTGGAAGGAAGCTCTTGCTTCTCAGTCCATGCTCCGTGTCCAGAAGTAAGCCAGCTGTGGATCCCGCC
CACTCAGAAAAGGCGAGAAGGCTTTGTGATTTTCTACATGAATCAAACACAGAAACAACCTTTTGGAGAAATTAAA
TTCTGAGTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3290

MSASAQQLAEELQIFGLDCEEALIEKLVELCVQYGQNEEGMVGELIAFCTSTHKVGLTSEIILNSFEHEFLSKRLS
KARHSTCKDSGHAGARDIVSIQELIEVEEEEEIILLNSYTTPSKGSQKRAISTPETPLTKRSVSTRSPHQLLSPSS
FSPSATPSQKYNSRSNRGEVVTSFGLAQGVSWSGRGGAGNISLKVLCPEALTGSYKSMFQKLPDIREVLTCKIE
ELGSELKEHYKIEAFTPLLAPAQEPVTLLGQIGCDSDNGKLNKSVILEGDREHSSGAQIPVDLSELKEYSLFPGQ
VVIMEGINTTGRKLVATKLYEGVPLPFYQPTTEEDADFEQSMVLVACGPYTTSDSITYDPLLDLIAVINHDRPDVC
ILFGPFDAKHEQVENCLLTSPFEDIFKQCLRTIIEGTRSSGSHLVFVPSLRDVHHEPVYPQPPFSYSDLSREDK
KQVQFVSEPCSLSINGVIFGLTSTDLLFHLGAEIISSSSGTSDRFSRILKHILTQRSYYPLYPPQEDMAIDYESF
YVYAQLPVTDPVLIIPSELRYFVKDVLGCVCVNPGRITKGQVGGTFARLYLRRPAADGAERQSPCIAVQVVRI

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FIGURE 3291A

GGAATTCTCTGGGGCTTTGGGGAATTTAGTGCCTGGGTGAGCCAAGAAAATACTAATTAATAATAGTAAGTTGTT
AGTGTGGTTAAGTTGTTGCTTGGAAAGTGAGAAGTTGCTTAGAAACTTTCCAAAGTGCTTAGAACTTTAAGTGCA
AACAGACAACTAACAAACAAAAATTGTTTTGCTTTGCTACAAGGTGGGGAAGACTGAAGAAGTGTTAACTGAAA
ACAGGTGACACAGAGTCACCAGTTTTTCCGAGAACCAGGGGAGGGGTGTGTGATGCCATCTCACAGGCAGGGGAA
ATGTCTTTACCAGCTTCCTCCTGGTGGCCAAGACAGCCTGTTTCAGAGGGTTGTTTTGTTTGGGGTGTGGGTGTT
ATCAAGTGAATTAGTCACCTTGAAAGATGGGCGTCAGACTTGCATACGCAGCAGATCAGCATCCTTCGCTGCCCT
TAGCAACTTAGGTGGTTGATTTGAAACTGTGAAGGTGTGATTTTTTCAGGAGCTGGAAGTCTTAGAAAAGCCTTG
TAAATGCCTATATTGTGGGCTTTTAACGTATTTAAGGGACCACCTAAGACGAGATTAGATGGGCTCTTCTGGATT
TGTTCCCTCATTTGTACAGGTGTCTTGTGATTGAAAATCATGAGCGAAGTGAAATTGCATTGAATTTCAAGGGAA
TTTAGTATGTAAATCGTGCCTTAGAAACACATCTGTTGTCTTTTCTGTGTTTGGTCGATATTAATAATGGCAAAA
TTTTTGCCTATCTAGTATCTTCAAATTGTAGTCTTTGTAACAACCAAATAACCTTTTGTGGTCACTGTAAAATTA
ATATTTGGTAGACAGAATCCATGTACCTTTGCTAAGGTTAGAATGAATAATTTATTGTATTTTTAATTTGAATGT
TTGTGCTTTTTAAATGAGCCAAGACTAGAGGGGAACTATCACCTAAAATCAGTTTGGAAAACAAGACCTAAAAA
GGGAAGGGGATGGGGATTGTGGGGAGAGAGTGGGCGAGGTGCCTTTACTACATGTGTGATCTGAAAACCTGCTT
GGTTCTGAGCTGCGTCTATTGAATTGGTAAAGTAATACCAATGGCTTTTTATCATTTCCCTTCTCCCTTTAAGTT
TCACTTGAAATTTTAAAAATCATGGTTATTTTTATCGTTGGGATCTTTCTGTCTTCTGGGTTCCATTTTTTAAAT
GTTTAAAAATATGTTGACATGGTAGTTCAGTTCCTTAACCAATGACTTGGGGATGATGCAAACAATTACTGTCGTT
GGGATTTAGAGTGTATTAGTCACGCATGTATGGGGAAGTAGTCTCGGGTATGCTGTTGTGAAATTGAACTGTAA
AAGTAGATGTTGAAAGTACTGGTATGTTGCTCTGTATGGTAAGAACTAATTCTGTTACGTCATGTACATAATTA
CTAATCACTTTTCTTCCCTTTTACAGCACAAATAAAGTTTGAGTTCTAAACTCATTAGAATTGTTGTATTGCTAT
GTTACATTTCTCGACCCCTATCACATTGCCCTTCATAACGACTTTGGATGTATCTTCATATTGTAGATTTAGGTCT
AGATTTGCTAGCTCCAAGTAATTAAGGCCATGTAGGAGAGCATGGTAACCACAGATAGAAGTGGTATTATCCCAA
GTGGTCTGCAGACTGCTGAGTGGGGATGGGATCTGCTCTCTGTTGAGAGTTGGTAATCATTGGTTTGAAATGTGA
TGAAACCACTCAAGCCAATGAAGGTGGGTGTGTAGGTGGGGAGTACTTTGCCATAATATTTTTAAACATTACCTG
GTTAGAGTTCTAAGTGGTACTTATTTTTGTTTGGTTAGGGGAAAGCCTGAATAAAAAACAGAAATGGACACATAAT
ATGCATATTCCATAGTCTTTGGGAGGCTGGAATGTGCCTGGGATTTGGGTCTAAGTGTATGCGTAATTCTTACCT
CACTAAAGAATTTGCCTTGTTTTTTTCCCTTTTGGTGAGTGAATAAACGCTCTGGGCTTCCCTGTGTGCGTGCTAC
AGTAAGCAAGCAGAGGCTGTGCAAAGGTGTGAGCAGGATCACGTGGAATCTGGAGGATACATCTTGGCTTGCAA
CTGCCCTCTGTCTCCTGGGTGGGACTGTTCTGTCTTGCCTTGCTGTTTACCTCTTGGGGTGTAAAGGTTT
TGCTTACAGGAGACAACTTTGGGCGTAGAATGGAAGCCACTGCCAGCCTCTGTGCTGAGAAGGAAGGTGCTTGT
TTCAAAGGGAGCAGCAAGGGAGGCTTGTCTACTCACCTGGGCTGTTTGCTGAGAAGGGGAGATAAGGGCTGA
ACTGGGACTAGCCAGGGGGACCAACACAAATGGTGGGGGATCATGACCTGAAGGATTCTTCCCTCCCATGAGCT
GCAGGGCTGTTTGCCGCTCCTTGCAACTGTGTCTTATTTGCCTGTGCCGTTATATCTTGGTGACCCCTCCACGTGT
ACACTACTGACAAACGGGTGGAGTGCTGGGGAGAAGTCACTGTGCCGCCACCTAGTAAACCTTCTGTCTGTGCT
CATGGCATCTCCAAGATGGGGCACTGCTGTGTGCAGAATCCAGGGTCTCTTCTGCTTGCAACTCCTTTCCCTG
GATGCCCCAGAAACAATCCAGGCCTCCTTTCCTATCTTACCCCTTTGCTTTTGCTTTTTACCCAGCACCTCTATA
ACCGCCTTCTCTTCTTTTTCAGAACTCCTTGTTTCTCATCTGTTTTTTATGATTACAAAACCTTGTGTTCCACCC
TGGAAGATAACTGCTATAGATGCCTGTATGTAAATGGTGTGTCTCCAGCAACTGGCATGCTGAAGAAGAATTGA
TTCACGGGTATAAATGTTGGGGATTGGAAGTGGGGATGAAATGGCACTTGTGATACAGGAGCAGAGAGGTGAG
GCCGACTGCTGAAGACAGCTCGCCACCCCTCCTTGCTCCACTCCAATCCAGGGGCTGGGGCCACATTCTTTGCCT
TCATTTATCCTCAGATCAGGTGAGATCGACAGGAGGTGTTGATGGCAGTGCCAGCAATTATTGCTAATCCGTTTG
CATCCTTATGCATAGATCTGAATTCAGACTTTGTGAATTTCCAGAGGTGTGGGTAATATAATAGAATTCAGTGAG
TGGGCATGGCTGATCTTGTGCAAAATTTAAAGTTATGGGGCATAAGAATAGCAAAAGTTGAACCTTTTTTAAAG
GAAAGTACCCTGAGAGCCAGTATTGGTTGAGGCTCTTCAGTATGCCCAGGTGGCAGCACTGAGAACCGCAGGAA
CGGCCTGTTGTTACAAAAAGGAGATTGACTCAGCTGCCCTTGGTGCATCTGACTGACTATGACTGCTGAGAGATT
CCAAGGACCCTTAATGCCAGGGCTAACCTCTCCATGTGCAGTGAGACCTCTGGAGGAAGTGTATCCTCTGGCTT
TGTGTGGTACTCATTATGGTGCAGTGCGGGCATGAAATGAAGACACCCAAATAGGCTTACAGATACGATATGTTT
TAAATGTTTCTGATTTTAAACAAAAACATACTGACACTGTTTGGAAATGGCAACAGGAAGATAGCAAAATGAATACTA

[illegible]

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FIGURE 3291C

TTTTTCCTCTTTGACCACTAACCATGTGAAATTCTCATATTGACCTTTATAATGATCATGAACTCTTAGTATCAT
TGGGAAGGCCACATTTGCCACTTATGATTGTAAACCTTATCCTCCATTTTTCTTGTTATTGTTGGTGCAAAAAGC
ACCTATTATACCAGGACTTTAAAAATCAGTCTGATAAGTCTTTGATAAGTCTAATAATAATAACTGATAAGTCCA
TTGAATTTGCTTCTGATTACTTTTTCTTTAGTAGCTAAACATGTATGTACTCCTATGATTACAATGAACACTCCT
CTCCATTTAAATTAATTATTTACATTGATGAAATAGCAAAATGTTAATGACTAAATACTGTCTTGGTTTTTTTCGT
TCCAGGTCAGTCAATATTAACCTTCTTATAATTTCTTTTTTTCTTTATGTGTGTGTGTGTGTGTATTTTTTTTT
TTTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATAGATGAATTCTACAGTAGTGAAGTCTGAG
ATTTTACTGCACCGGTCACCTGAGTAGTGTACATTGTACCCAATATGTGGTTTTTTTATACCTTGCCCCCTCTTA
CCCTCCCCACTTTGAGTCTCTAGTGTCCATTATGTCACTCTGTATACCTTTTTGTACCCATAAGTTAGCTCTCAC
TTATAAGTGAGAACACACAGTATTTGGTTTTCCATTCCTGAGTTGCTTCACTTAGAATAATATCCTCCAGCTCCA
TCCAAAATTGCTGCAAAAAAAAAAAAAACCACAAACATTATTTTGTCTTTTTTATTGCTAAGTCATATTCCATG
GTGTAGAGATACCACATTTTATTTATCCACTCACTGGTTGATGGGTTGGTTCCACATCTTTGCAATTGTGACTTG
TACTGCCATCAAGTGTCTTTCTGGTATAATGACTTCTTTTCCTTTGGGTAGATACCCAGGAGTGGGATTGCTAGA
TCAAATGGTTCTTAACATTTTCTCTCTGGATCTATTTCTGGAAATTTTAGGCTCCAGTTTTTGTGTGTGTGTGA
ATAAAATGCAATGGAATGTAATGATCATCACTTTTCATTATGCTTTAAATCTGGTAAATGGAGGCTAGAACACT
CCTGTAAGGCAAGAATATTCTCTCTGTTGGAACCAAATACACAGAACTGGGTAAATCTCAATCTTAATCTTTGA
TTCAGGACACAACATGGCTCTCTTTTACTTGCTTTCTTTAATTGTTTTTAATAATGTGGTAAGCATTCTGAAT
CTCCTATCCAATACAAAACTAGGACAATACAGACAGTAACTCCTATGGTTACAATGAACACTCCTCTCCACTTA
AATTAATTATTTACACTGATGAAATTGAAATAGCAAAATTTTAATGACTAAATACTGTCTTTGATTTTTTGTTC
AGGTCTGTCAATATTAACCTTCTTATAATTTTCTTTTTTTTTCTTTATGTGTGTGTGTGTGTGTATATATATAT
ATTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATATATGAGTTCTACAGTAGTGAAGTCTGAG
ATTTTACTACACCTTCCACTTATGTGGTCCCACACCACCGCCTCCCTGCCGCTCCTGCCACCCCCCTAGGCCA
AGGTAATAATCATCCTGAATCCTGGGTTTATCTCTCACTTGCTTTCTTTTCATATAATTTTGCAAAAGAATCTGA
TCTAAATGTGTTTTTCAGAGTATATATTTATATTTTAGCTGTTCTTAGAGAAAATTTATTATTTTGCAATGTAATC
TTATGGAACATTCTCATTTAATACCATGGTAAGATTGAGCCCTTGCCAGGGGATAGTTTCATTTAGTTTGTGTAC
TGGATAGAGCTCATCATGTGACTATAACCTCAGTTAGTTTATCAGTTCTCCCATCCATGGTGACTAGGTTGCCTCT
CAGCCTCTCAACAACACTGTTTCTCAGTGTCTTGTAGAAAGTATATGTGGGTGTTTTCTCCTTACACAGAGTTG
AAAGGTGACGACAACAACGTTGGCACTACCAATCCCCACCCTCCAGAGGGGTAACCAAGTGTACCAGTTTGCTG
TGTTTCTGCTACACCTCGCCTTATTCATTCTCATTGTTATCTGAAAACGTTGTCATGGTTCTTTTCTATAG
AAGTGGTAAAATGCTATTGTGTCTGTACATTATTGATTACTTTTTTTTCATTTAACAGTAGGGAGATGCCCTGGGA
GTACACAGAGAACTGCCCTCATTGTTTTCAACTTCTGCACTGTATGTCTGTGAGTTTAGCCATTCTGCTGTTAAT
GGAAATTTACAGTATTCTAATCTTTTGATATTACAAACAGTTCTGTGCGATCATCGTCATACACAACCCCTTG
CACAAATGCATGAGTGTCTCAGGGTAGGTACCAAGAAGTGAAATTCCTGGGTATAGGGCGTGAGTCCGACATT
TTTCTCCATTCTGCCCTGTTGCCCTCCAGAGTGGGTGTCCAGCTTGCATACCTAAGTATGAGAGTATCTGTTGT
TCATATCCTCTACGACGCTCCATATATGAACTTAAGTTTCTGCTAGTTGCCATCTTTGATCTATCATGTATGCA
GTGACCTACTAAGACTGTAATTGGTACAGTAGATTCTTGTCTGTGTGTGAATTTAGCATTCTATGGGCTTAAT
GCTGACAAGGCCCCCAGGGTCCAAGACATATAATCATGTATAATTTTGTCAAGGTATAATTTTTTAAATTGCTTT
TGTCATGTGTCTGCTGGTGATGCCCAACCCAGTGCTCTGCACCCAGGTCACACTGTGGCTTTGTCTCTGCTTAT
GCCTGCATTGCAGCAACTGTCTGAAGAGACCAAAATTATGCAGATTTAGGTAAGTCCATGGCTAATGTTATTAT
ATTATGTGCTATTGTAATGGATGGGGCTGTGGAGTGTATGAATTTATAAATCACTGGTCTTGTAATTTAAATTCA
AACACTATAGAAAAAGGCCATGTAGAAGATAAAAGTTCTCTATAATCCCGGACCCCTAAGATAACTACTAATGA
CAACTTCATTTATATTCTTTCAGACATTTTCTGGCTGTGGATGTACTAAAATGTATCCTATTATTCTCTGCCCTA
AAATGGAATCATACAAGGTGTACTGTTATTTTTATGGCTCTATAACATGTATATTGTACGTGTTGGTATGGTCA
TTTTAACCATTTTTCTAGTGATGGCTTTGAGGTTATTTGCAGTTTCTAGCCATCTCAAAGTGTGCTGCGGGGAT
CTTTTTTGATCCCTCTGGGTGCAGAGCTGAGGCACCCAGAGGAGTGTCCAGAGGAGGCAGCATCTGTAGGTGT
CTTCACCTGCTCTGGCTCTTGGCACATCTGGTTGGTGACACTGTTTTGTGAGATGGGTTGAAAGCACGTGCTGCC
AAAATAGAATAATGTTGGTCTCTCCTCATGTGCCGTGGAAGTGGGGTAAACTGCGTAGTGGCTGCAGCTGCCT
GTCCATACCGGAATCGAGTATAACACGGTGCCTGGCTTAGCACAAAACAGTAGTGGGTCTGCAGGCCCCAGAGT

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FIGURE 3291D

CTAATTCCTGGTATTCTTTCCCTACACAGATTAAATAAACCAAAAACAACTATTCTAGGAAAGCGTCTGTGAC
ATTTGTAAAAAGTGGTATTTAATGATCTTTTATTCACTTGTCTGTTTAGTTTGTGAAATCTTAAGTGGCATCCT
GGTCTGGGAAGGAGTGCTGTCTGCGCCTGCCCTCCGCTGGGCACAGCGTGGCTGCTTCAGGGGCTAAGCACACAC
TTTCTGTCTTCTAAAGGGCCGCCACATGCCAGGAGCTCAGGTGTGAGCCCGGCTCTGGCTCTTACCTCATAGGGT
CACTCATAGGGGCACAGGGAGCAGAACATTGTACACAGCGAGGCACCACCCGGCTTGGCATCTGCCCTCGGTGGAC
TTACTACCTCTAGAAGGAAATACCTGAGTTCCCTCTGGCCTCAGCTCCTAGAGTGACTGGTGTGCTGTCCCTGTTA
CTCTTCTGTCAAGGTGACAAGTGTGTGACCCATCATCTGTGTGTCAAAGCAAGGCCCTGCCTGGGCCTCTGCTCC
TGTGCTGACCCCAAAGGCAAATGCTTTGCTAGTTTCCTTCCAGTTAATTTACCTATGAATAGATGTGTGAAAAC
TGTTCAAAGCCATACCTGCACATGTTTGAACCTCAAACCCTGTGGGTGATTCACTGGCATCTTTCTCTAACCCCC
AGCCTCCCTTCCCACAGAGGCCACCGTCATGGCCAGTTGCTGCAGTTTCTTTCCAGAGAACCTGTGTATGTGTAA
AGCTGTACAGGCGTGGGTACACCACACAGCCTGTCTTGCACTGTGGACTGTTGAGTTACTAGTACATCTAGGTAA
GCACCGCATATCTGTATTTCATGTCTGCCTTGGTCTTTTCAACATCTGTGTGGTAGCCGTGTTTGAATTACCCATT
CCCTTTTGGGGAACCATTAAGTTGTTTCAGCAATTTTTACTGTAGATAAGGCTATAACCGCATATCTGTGTACAT
GGGTTTTTATGTACATGGGCAAGTATATCTGTGAGAGAAAAGTTTCTCAGGAGGAATTCTGGGCACAGCATGTG
TAAATTTCTAAATATGATGGACACCCCCAGCTTCCACCTCAAGGAGGTTGGTCCCATTTGACATTTCCCCACACCT
TCACCCAGGCTGTGCCCTTAAACTTGGTTATTTGTCAATGTGAGAAGTGAAAATAGTATTTAATTGTAGTTTGG
ATTTGTATTTCTATTGGGTTGTATACTTACTGATTAATAATAAGAGCTCTTTACATATTAAGGAAATTAACCCTT
TTCAAATACATTCCTATTTCTCACTAATCTTTAAGTTTTATTGTAATATTTTGCTCTTTAGTTTATATATATATG
TATATATATATATATGTATATATATATATATACATATATATATACATATATATATATA

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FIGURE 3292

MFGSSYSLLSSHSELSCLCPPSPPPPLVPSVRSSHFLGSPFSVAGCLPAWRWTFHVTGISMYILVWSVSTLNFV
SSSISLYRQSSQTHLKRLFLRILNLPKGSPMDGFLEVYKCSEIVFFCGKHNFHLLVRAQKRS

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FIGURE 3293

AGCCCCCCCATCCCCGCCCCCTCTCCCGCCCCCTCCCTTGTCCCCGCCCCCTTCCCGCCCCAACTCAGGTTCTGCCCC
ACCCCGCCCCAATTACGTCTCTGCTCCGCCCCGACGTAGGCCCCGCCCCCTGGCCCCCGGGCCCCGCCCCCGTCTGA
CGCAGGCCCCGCCCCCTCTCCGCCCCGCCCCGGCTCGGGCGGGCCGGAGGACCCGGAGCTAAGGCGCCCGAACCCG
CGGCGGGCGGTGGGGACGATGTGGTTCTTTGCCCGGGACCCGGTCCGGGACTTTCCGTTTCGAGCTCATCCCGGAGC
CCCCAGAGGGCGGCCTGCCCCGGGCCCTGGGCCCTGCACCGCGGCCGCAAGAAGGCCACAGGCAGCCCCGTGTCCA
TCTTCGTCTATGATGTGAAGCCTGGCGCGGAAGAGCAGACCCAGGTGGCCAAAGCTGCCTTCAAGCGCTTCAAAA
CTCTACGGCACCCCAACATCCTGGCTTACATCGATGGACTGGAGACAGAAAAATGCCTCCACGTCGTGACAGAGG
CTGTGACCCCGTTGGGAATATACCTCAAGGCGAGAGTGGAGGCTGGTGGCCTGAAGGAGCTGGAGATCTCCTGGG
GGCTACACCAGATCGTGAAAGCCCTCAGCTTCTTGGTCAACGACTGCAGCCTCATCCACAACAATGTCTGCATGG
CCGCCGTGTTTCGTGGACCGAGCTGGCGAGTGGAAGCTTGGGGGCCTGGACTACATGTATTTCGGCCCAGGGCAACG
GTGGGGGACCTCCCCGCAAGGGGATCCCCGAGCTTGAGCAGTATGACCCCCCGAGTTGGCTGACAGCAGTGGCA
GAGTGGTCAGAGAGAAGTGGTCAGCAGACATGTGGCGCTTGGGCTGCCTCATTTGGGAAGTCTTCAATGGGCCCC
TACCTCGGGCAGCAGCCCTACGCAACCCTGGGAAGATCCCCAAAACGCTGGTGCCCCATTACTGTGAGCTGGTGG
GAGCAAACCCCAAGGTGCGTCCCAACCCAGCCCCGCTTCTTGCAGAACTGCCGGGCACCTGGTGGCTTCATGAGCA
ACCGCTTTGTAGAAACCAACCTCTTCTGGAGGAGATTTCAGATCAAAGAGCCAGCCGAGAAGCAAAAATTCTTCC
AGGAGCTGAGCAAGAGCCTGGACGCATTCCCTGAGGATTTCTGTTCGGCACAAGGTGCTGCCCCAGCTGCTGACCG
CCTTCGAGTTTCGGCAATGCTGGGGCCGTTGTCTCACGCCCCCTCTTCAAGGTGGGCAAGTTCTTCTGACGCTGAGG
AGTATCAGCAGAAGATCATCCCTGTGGTGGTCAAGATGTTCTCATCCACTGACCGGGCCATGCGCATCCGCCTCC
TGCAGCAGATGGAGCAGTTTCATCCAGTACCTTGACGAGCCAACAGTCAACACCCAGATCTTCCCCACGTCGTAC
ATGGCTTCTTGGACACCAACCCTGCCATCCGGGAGCAGACGGTCAAGTCCATGCTGCTCCTGGCCCCAAAGCTGA
ACGAGGCCAACCTCAATGTGGAGCTGATGAAGCACTTTGCACGGCTACAGGCCAAGGATGAACAGGGCCCCATCC
GCTGCAACACCACAGTCTGCCTGGGCAAAAATCGGCTCCTACCTCAGTGCTAGCACACAGAGGTCCTTACCT
CTGCCTTCAGCCGAGCCACTAGGGACCCGTTTGCACCGTCCCGGGTTGCGGGTGTCTGGGCTTTGCTGCCACCC
ACAACCTCTACTCAATGAACGACTGTGCCAGAAAGATCCTGCCTGTGCTCTGCGGTCTCACTGTAGATCCTGAGA
AATCCGTGCGAGACCAGGCCTTCAAGGCCATTTCGGAGCTTCTGTCCAAATTGGAGTCTGTGTGCGAGGACCCGA
CCCAGCTGGAGGAAGTGGAGAAGGATGTCCATGCAGCCTCCAGCCCTGGCATGGGAGGAGCCGCAGCTAGCTGGG
CAGGCTGGGCGGTGACCGGGGTCTCCTCACTCACCTCCAAGCTGATCCGTTTCGACCCAACCACTGCCCCAACAG
AAACCAACATTCCCCAAAGACCCACGCCTGAAGGCCACTGGGAGACGCAGGAGGAGGACAAGGACACAGCAGAGG
ACAGCAGCACTGCTGACAGATGGGACGACGAAGACTGGGGCAGCCTGGAGCAGGAGGCGGAGTCTGTGCTGGCCC
AGCAGGACGACTGGAGCACCGGGGGCCAAGTGAGCCGTGCTAGTCAGGTCAGCAACTCCGACCACAAATCCTCCA
AATCCCCAGAGTCCGACTGGAGCAGCTGGGAAGCTGAGGGCTCCTGGGAACAGGGCTGGCAGGAGCCAAGCTCCC
AGGAGCCACCTCCTGACGGTACACGGCTGGCCAGCGAGTATAACTGGGGTGGCCCAGAGTCCAGCGACAAGGGCG
ACCCCTTCGCTACCCTGTCTGCACGTCCCAGCACCCAGCCGAGGCCAGACTCTTGGGGTGAAGGACAACCTGGGAGG
GCCTCGAGACTGACAGTCGACAGGTCAAGGCTGAGCTGGCCCGGAAGAAGCGCGAGGAGCGGGCGGGGAGATGG
AGGCCAAACGCGCCGAGAGGAAGGTGGCCAAGGGCCCCATGAAGCTGGGAGCCCGGAAGCTGGACTGAACCGTGG
CGGTGGCCCTTCCCGGCTGCGGAGAGCCCGCCCCACAGATGTATTTATTGTACAAACCATGTGAGCCCCGGCCGGC
CCAGCCAGGCCATCTCACGTGTACATAATCAGAGCCACAATAAATTCTATTTCAC

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FIGURE 3294

CAGAGACTGATGAGTGCCGACTGAACCAGAACATCTGTGGCCACGGAGAGTGCGTGCCGGGCCCCCTGACTACT
CCTGCCACTGCAACCCCGGCTACCGGTACATCCCCAGCACCGCTACTGCGTGGATGTGAACGAGTGCGAGGCAG
AGCCCTGTGGCCCGGGGAGGGGCATCTGCATGAACACCGGCGGCTCCTACAATTGCCACTGCAACCGCGGCTACC
GCCTGCACGTGGGCGCCGGGGGGCGCTCGTGCCTGGACCTGAACGAATGCGCCAAGCCCCACCTGTGCGGCGACG
GCGGCTTCTGCATCAACTTTCCCGGTCACTACAAGTGCAACTGCTACCCCGGCTACCGGCTCAAAGCCTCCCGGC
CTCCTGTGTGCGAAGACATCGACGAGTGCCGGGACCCAAGCTCTTGCCCGGATGGCAAATGCGAGAACAAGCCCG
GGAGCTTCAAGTGATCGCCTGTCAGCCTGGCTACCGCAGCCAGGGGGGCGGGGCTGTGCGGACGTGAACGAGT
GCGCCGAGGGCAGCCTCTGCTCGCCTGGCTGGTGCAGAACCTCCCGGGCTCCTTCCGCTGCACCTGTGCCAGG
GCTACGCGCCCGCGCCCCGACGGCCGAGTTGCTTGGATGTGGACGAGTGTGAGGCTGGGGACGTGTGTGACAATG
GCATCTGCAGCAACACGCCAGGATCTTCCAGTGTGAGTGCCTCTCTGGCTACCATCTGTCCAGGGACCGGAGCC
ACTGCGAGGACATTGATGAGTGTGACTTCCCTGCAGCCTGCATTGGGGGTGACTGCATCAATACCAATGGCTCCT
ACAGATGTCTTTGCCCCAGGGGCATCGGCTGGTGGGTGGCAGGAAATGCCAAGACATAGATGAGTGCAGCCAGG
ACCCGAGCCTGTGCCTTCCCCATGGGGCTGCAAGAACCTTCAGGGCTCCTATGTGTGTGTCTGCGATGAGGGCT
TCACTCCACCCAGGACCAGCACGGTTGTGAGGAGGTGGAGCAGCCCCACCACAAGAAGGAGTGCTACCTGAACT
TCGATGACACAGTGTCTGCGACAGCGTATTGGCCACCAACGTGACCCAGCAGGAGTGCTGCTGCTCTCTGGGGG
CCGGCTGGGGCGACCACTGCGAAATCTACCCCTGCCAGTCTACAGCTCAGCCGAGTTCCACAGCCTCTGCCAG
ACGGAAGGGCTACACCCAGGACAACAACATCGTCAACTACGGCATCCAGCCACCGTGACATCGACGAGTGCA
TGTGTTCGGGTGCGAGATTTGCAAGGAGGGCAAGTGCCTGAACACGCAGCCTGGCTACGAGTGCTACTGCAAGC
AGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCCCTGGACGAGTCCAAGTCCCGGA
ACGGAGTGTGTGAGAACACGCGCGGGCGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGC
GCCAGTGCCTGAGCCCGGAAGAGATGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCCGCTGCG
TCAACCTGCCGGGCTCCTACCGCTGCGAGTGTGCCCCGCCCTGGGTGCCCGGGCCCTCCGGCCGCGATTGCCAGC
TCCCCGAGAGCCCGGCCGAGCGTGCCCCGGAGCGGCGCGACGTGTGCTGGAGCCAGCGCGGAGAGGACGGCATGT
GCGCTGGCCCCCTGGCCGGGCTGCCCTCACCTTCGACGACTGCTGCTGCCGCCAGGGCCGCGGCTGGGGCGCCC
AATGCCGACCGTGCCCGCCGCGCGGGGTCCCATTGCCGACATCGCAGAGCGAGAGCAATTCCTTCTGGG
ACACAAGCCCCCTGCTGTTGGGGAAGCCCCCAAGAGATGAGGACAGTTCAGAGGAGGATTACAGACGAGTGTGCT
GCGTGAGTGGCCGCTGCGTGCCGCGGCCGGGCGGCGCCGTGTGCGAGTGTCCCGCGGCTTCCAGCTCGACGCCT
CCCGCGCCCGCTGCGTGGATATCGACGAGTGCCGAGAGCTGAACCAGCGCGGGCTGCTGTGCAAGAGCGAGCGCT
GCGTGAACACCAGCGGCTCCTTCCGCTGCGTCTGCAAAGCCGGCTTCGCGCGCAGCCGCCCGCACGGGGCTGCG
TCCCCAGCGCCCGCTGACGCCGCCGACGCCGCCCTCGGCCAGACCTCGGTGATCACTGAGGGATTTCCGCG
AGCTCGGCCTCACTTCTGCCCCGACTTGTGGCTCGGACCCAGGGACCTTCAGGGCCCGCAGACCTCCCGGCGCC
TTGAGACCCGAGGCGCCCTACCGGCCCCCTCCCGGTTAGCGGGCGGTTGTAAGGTCTCCGGCGGGCGCTGCC
TGCCTTCTCTCCAGAGGGTGTTCCTAGAACTGATAAATCAGATCGTGCCTCTTTACCTTGGCTTTTCG

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FIGURE 3295

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCACCTCCAGGCCACTATGGCGCCTGGGGCTGCCAGGAGCTT
CAGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTAC
ACCCGCCAGACTGGCATCGTGCTGAATCGGCCGGTTTTTGAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCC
ATGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACCTTTGGGACTCCCCCTCTGCAGCCTCCTCCGCCA
CCCCACCACCTCCACCAGGCCTTGGCCTTGGCTTTCTATGGCCCCACCCACCAAATTTGGGGCCCCCGCCTCCT
CTCCGTGTGGGTGAGCCAGTGGCACTGTCAGAGGAGGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTG
ATGCAGCAGGAGGAGCGTGCCAAGCAGCAGGGAGATCATTGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAG
CGGGCAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCAGTCCCTCGGCCCCCA
CAAGACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCTCGAGTAGCTGCTCCAGTGGGGCCAGTGGGGCCCC
ACTCCTACAGTTTTTGCCCATGGGAGCCCCGTGTTCCCCGGCCTCGTGGTCCCCACCGCCCCCTGGAGATGAGAAC
AGAGAGATGGATGACCCCTCTGTGGGCCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGC
CGCCAGGAAGAGATGAATTCTCAGCAGGAGGAAGAGGAAATGGAAACAGATGCTCGCTCGTCCCTGGGCCAGTCA
GCGTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAAG
AAGAAAAAGCCCCAGCGGGTGCAGGGGGTGTCTCTGAGAGCTCTGGGGACCGGGGAGAAAAGACTCAACCCGGTCC
CGTGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCAAC
TTTATCTTCTTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAAGAGCCA
GAGAACTTGACAAACTGGAGAACTCTGCAGCCCCCAAGAAGAAGGGATTTGAAGAGGAGCACAAGGACAGTGAT
GATGACAGCAGTGATGACGAGCAGGAAAAAGGCCAGAAGCCCCCAAGCTGTCCAAGAAGAAGTTGCGCCGAATG
AACCGCTTCACTGTGGCTGAACCTCAAGCAGCTGGTGGCTCGGCCCGATGTGCTGGAGATGCACGATGTGACAGCG
CAGGACCCTAAGCTCTTGTTTCACTCAAGGCCACTCGGAACCTCTGTGCCTGTGCCACGCCACTGGTGTTTTAAG
CGCAAATACCTGCAGGGCAAACGGGGCATTGAGAAGCCCCCTTCGAGCTGCCAGACTTCATCAAACGCACAGGC
ATCCAGGAGATGCGAGAGGCCCTGCAGGAGAAGGAAGAACAGAAGACCATGAAGTCAAAAATGCGAGAGAAAGTT
CGGCCAAGATGGGCAAAATTGACATCGACTACCAGAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCA
AAGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTCGAGACACGACTGAAGGAGAAGAAGCCAGGA
GATCTGTCTGATGAGCTAAGGATTTCTTTGGGGATGCCAGTAGGACCAAATGCCCACAAGGTCCCTCCCCCATGG
CTGATTGCCATGCAGCGATATGGACCACCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAACTCGCCCATC
CCTGAGAGCTGTTCTTTGGGTACCATGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGCTC
TATGGGGACGTGTTTGAACCAATGCTGCTGAATTTAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCT
TGGGGGGAACCTGGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAAGTGATGAAGACAAACCA
GATGAGACAGGCTTTATTACCCCTGCAGACAGTGGCCTTATCACTCCTGGAGGCTTTTCATCAGTGCCTGCTGGA
ATGGAGACCCCTGAACTCATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAG
CTCTTCACTGTGTTGCCAGAGAAGAGAACAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGAC
ATGTCCACGGTTATGAGCCGGAAGGGCCCCGGCTCCTGAGCTGCAAGGTGTGGAAGTGGCGCTGGCGCCTGAAGAG
TTGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAG
GAGGACTTCAGTGACATGGTGGCTGAGCACGCTGCCAAACAGAAGCAAAAAAACCGGAAAGCTCAGCCCCAGGAC
AGCCGTGGGGGCAGCAAGAAATATAAGGAGTTCAAGTTTTAGGTCCCCTCACACTAGCCCTTTTTTTGGCCCTAC
GTCTGGATGCCTGGGCTTACACAAGAACCACCTCTCCCGCAGTTCCCAAGGACTTGTCATTTTCATGTTCTTATT
TTAGACCTGTTTTGTAAATAAAGCTGTTTTCCCAAGGAAAGAGATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 3296

MAPGAAQELQAKLAEIGAPIQGNREELVERLQSYTRQTGIVLNRPVLRGEDGDKAAPPPMSAQLPGIPMPPPPPLG
LPPLQPPPPPPPPPPGLGLGFPMHPPNLP PPPPLRVGEPVALSEERLKLAAQQQAALLMQQEERAKQQGDHSLK
EHELLEQQKRAAVLLEQERQQEIAKMGTPVPRPPQDMGQIGVRTPLGPRVAAPVGPVGPPTPTVLEPMGAPVPRPRG
PPPPPGDENREMDDPSVGPKIPQALEKILQLKESRQEEMNSQQEEEEEMETDARSSLGQSASETEEDTVSVSKKEK
NRKRRNRKKKKKKPQVRVGVSSSESSGDREKIDSTRSRGSDSPAADVEIEYVTEEPEIYEPNFIFFKRIFEAFKLTDD
VKKEKEKEPEKLDKLENSAAPKKKGFEHKKDSDDSSDDEQEKKEAPKLSKKKLRRMNRFTVAELKQLVARPD
VVEMHDVTAQDPKLLVHLKATRNSVPVPRHWCFFRKYLQGKRGIEKPPFELPDFIKRTGIQEMREALQEKEEQKT
MKS KMREKVRPKMGKIDIDYQKLHDAFFKWQTKPKLTIHGDIYYEGKEFETRLKEKKPGDLSDELRI SLGMPVGP
NAHKVPPPWLIAMQRYGPPPSYPNLKIPGLNSPIPESCSFGYHAGGWGKPPVDETGKPLYGDVFGTNAAEFQTKT
EEEEIDRTPWGELEPSDEESSEEEEEESDEDKPDETGFI TPADSGLITPGGFSSVPAGMETPELIELRKKKIEE
AMDGSETPQLFTVLPEKRTATVGGAMMGSTHIYDMSTVMSRKGPAPELQGVEVALAPEELELDPMAMTQKYEEHV
REQQAQVEKEDFSDMVAEHAAKQKQKKRKAQFPQDSRGGSKKYKEFKF

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FIGURE 3297

GGAGTTTCGCCGCCGCAGTCTTCGCCACCATGCGGCCCTACACCGTGGTCTATTTCCCAGTTCGAGGCCGCTGCG
CGGCCCTGCGCATGCTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGGAGACGTGGCAGG
AGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCCAGGACGGAGACCTCACCCCTGTACCAGT
CCAATACCATCCTGCGTCACCTGGGCGCACCCCTTGGGCTCTATGGGAAGGACCAGCAGGAGGCAGCCCTGGTGG
ACATGGTGAATGACGGCGTGGAGGACCTCCGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCA
AGGATGACTATGTGAAGGCACTGCCCCGGGCAACTGAAGCCTTTTGAGACCCTGCTGTCCCAGAACCAGGGAGGCA
AGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCATGAGGTCC
TAGCCCCCTGGCTGCCTGGATGCGTTCCCCCTGCTCTCAGCATATGTGGGGCGCCTCAGCGCCCCGGCCCAAGCTCA
AGGCCTTCCTGGCCTCCCCTGAGTACGTGAACCTCCCATCAATGGCAACGGGAAACAGTGAAGGGTTGGGGGGAC
TCTGAGCGGGAGGCAGAGTTTGCCTTCCTTTCTCCAGGACCAATAAAATTTCTAAGAGAGCT

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FIGURE 3298

MPPYTVVYFPVRGRCAALRMLLADQGQSWKEEVTVETWQEGSLKASCLYGQLPKFQDGDLTLYQSNTILRHLGR
TLGLYGKDQQEAAALVDMVNDGVEDLRCKYISLIYTNYEAGKDDYVKALPGQLKPFETLLSQNQGGKTFIVGDQIS
FADYNLLDLLLLIHEVLAPGCLDAFPLLSAYVGRLSARPKLKAFLASPEYVNLPIINGNGKQ

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FIGURE 3299

ATCGCGCCAGTTCCTCAGCCTCAGTGCTATGAAGGTGACAGCGTGAGGTGACCCATCTGGCCCCGCCGCGATGCTG
GCAACACGGCGGCTGCTCGGCTGGTCGCTTCCCGCGCGGGTATCTGTGCGTTTCAGCGGCGACACGACAGCACCC
AAGAAAACCTCATTGGCTCGCTGAAGGATGAAGACCGGATTTTCACCAACCTGTACGGCCGCCATGACTGGAGG
CTGAAAGGTTCCCTGAGTCGAGGTGACTGGTACAAGACAAAGGAGATCCTGCTGAAGGGGGCCCGACTGGATCCTG
GGCGAGATCAAGACATCGGGTTTGAGGGGGCCGTGGAGGCGCTGGCTTCCCCACTGGCCTCAAGTGGAGCTTCATG
AATAAGCCCTCAGATGGCAGGCCCAAGTATCTGGTGGTGAACGCAGACGAGGGGGAGCCGGGCACCTGCAAGGAC
CGGGAGATCTTACGCCATGATCCTCACAAGCTGCTGGAAGGCTGCCTGGTGGGGGGCCGGGCCATGGGCGCCCGC
GCTGCCTATATCTACATCCGAGGGGAATTCTACAATGAGGCCTCCAATCTGCAGGTGGCCATCCGAGAGGCCTAT
GAGGCAGGTCTGATTGGCAAGAATGCTTGTGGCTCTGGCTATGATTTTGACGTGTTTGTGGTGC GCGGGGCTGGG
GCCTACATCTGTGGAGAGGAGACAGCGCTCATCGAGTCCATTGAGGGCAAGCAGGGCAAGCCCCGCCTGAAGCCC
CCCTTCCCCGCAGACGTGGGAGTGTTTGGCTGCCCCACAACCTGTGGCCAACGTGGAGACAGTGGCAGTGTCCCC
ACAATCTGCCGCCGTGGAGGTACCTGGTTTGCTGGCTTTGGCAGAGAACGCAACTCAGGCACCAAACCTATTCAAC
ATCTCTGGCCATGTCAACCACCTTGCACTGTGGAGGAGGAGATGTCTGTGCCCTTGAAAGAACTGATTGAGAAG
CATGCTGGGGGTGTCACGGGCGGCTGGGACAACCTCCTTGCTGTGATCCCTGGCGGCTCGTCTACCCCACTGATC
CCCAAGTCTGTGTGTGAGACGGTGCTGATGGACTTCGATGCGCTGGTGCAGGCACAGACAGGCCTGGGCACAGCT
GCGGTGATCGTCATGGACCGCTCGACGGACATCGTGAAAGCCATCGCCCGCCTCATTGAGTTCTATAAGCACGAG
AGCTGTGGCCAGTGTACCCCATGCCGTGAGGGTGTGGACTGGATGAACAAGGTGATGGCACGTTTCGTGAGGGGG
GATGCCCCGGCCGGCCGAGATCGACTCCCTGTGGGAGATCAGCAAGCAGATAGAAGGCCATACGATTTGTGCTCTG
GGTGACGGGGCCGCTGGCCTGTGCAGGGTCTGATCCGCCACTTTTCGGCCGGAGCTCGAGGAGCGGATGCAGCGG
TTTGCCCAGCAGCATCAGGCCCGGCAGGCTGCCTCTTTAGCCCCACCACCCTGGCCTGCTGTCTGCTGCTATCCAT
GTGGAATGCTGGACAATAAAGCGAGTGCTGCCCACCCTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3300

MLATRRLLGWSLPARVSVRFSGDTTAPKKTSGSLKDEDRIFTNLYGRHDWRLKGSLSRGDWYKTKEILLKGPDW
ILGEIKTSGLRGRGGAGFPTGLKWSFMNKPSDGRPKYLVVNADEGEPTCKDREILRHDPHKLLEGCLVGGRAMG
ARAAIYIIRGEFYNEASNLQVAIREAYEAGLIGKNACGSGYDFDVFVVRGAGAYICGEETALIESIEGKQGKPR
KPPFPADVGVFGCPTTVANVETVAVSPTICRRGGTWFAFGGRERNSTGKLFNISGHVNHPCVVEEEMSVPLKELI
EKHAGGVTGGWDNLLAVIPGGSSTPLIPKSVCTVLMDFDALVQAQTGLGTAIVMDRSTDIVKAIARLIEFYK
HESCGQCTPCREGVDWMNKVMARFVRGDARPAEIDSLWEISKQIEGHTICALGDGAAPVQGLIRHFRPELEERM
QRFAQQHQAARQAAS

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FIGURE 3301

GGCACGAGGGGCGCGCAAGGCACCGGTGGCAGCGGCGACGGCAGCTGCGACAGCAACCCCTGCTGGGCCGAAACTG
GGCAGAGCGGAGCAGACGTCTGAAGCAGCGCGAGTGAGGCGCGAGGGTAGCGCCCGCGCCCGGGAAGACCCCTCG
GCGCGAACC GGCGAGCCCAGCCCCGGGTCCCGGTTCCCAAGGCCCCGCCTCTAGGGCCTGGGGACTAATCGGATTG
AGAGCGCGCCGGCCCCGGGCCGGAACCTCGCCAATTGCGGAGGGCGGTGGCCACCGCCCAATCCGGAGCAGACAGG
TGCAGGTCCGGAAGGCGGAGGCCAATCGGCGGCGGTTGCGACCTGCTGGGGCAGGTCTCGGCCAATAAGGAGGC
TCGAGTGACATCTTCGCGCACCAATCGGGAGTGAGGGAGCATTCTGTGCCCCGCTCGCCCTTCCGGCCAGACCTCTA
TTTACCAGGGGCGTGCGAGCCCGCTTGCCAATCAGAGCGCGGCTGAGCGGCCCCGCGAGCCAACCCCGAGGAGCGG
CCGGCTGGCGTCCGCGCGCCCCAGGAGTTGGGGATGTCCTACAAACCCATCGCCCCCTGCTCCCAGCAGCACCCCT
GGCTCCAGCACCCCTGGGCCGGGCACCCCGGTCCCTACAGGAAGCGTCCCGTCGCCGTCGGGCTCAGTGCCAGGA
GCCGGCGCTCCTTTTACAGACCGCTGTTTAACGACTTTGGACCGCCTTCCATGGGCTACGTGCAGGCGATGAAGCCA
CCCGGCGCCCAGGGCTCCCAGAGCACCTACACGGACCTGCTGTGAGTCATAGAGGAGATGGGCAAAGAGATCCGG
CCTACCTATGCTGGCAGCAAGAGCGCCATGGAGCGCCTGAAGAGAGGTATCATCCATGCCCGGGCCCTAGTCAGA
GAGTGCCTGGCAGAGACAGAGCGGAACGCCCCGACGTAACAGGAAGCGCCTCGGCCTCAGCGTCTGGACCTATCC
GGCCACTGCAGAGCACCCGCTTCTCCCTGGCCTTCATCCCGAGTTGCACTAACCATCCTGGGCTTCCTGTCCTGT
GTCCCTTGGTGGGTCCCCTCCAGGAACCAAGGAGTGGCCCTCCAGGTGGCAGCACTAAGGACACCCCCCACAAAC
AAGAGTTAGCAGCGAGGTCCCCATGAGTCCCACCCATGACCTGCCGACAGTGTTGCCCACCGGAACTTTTGTGGC
CCCTACCGCTCAGCCCTTCCCAGCACTTCTCCCACTTTGTCCCGAGCCTCCTTCTCCCCCAGCAGGGGCACAGGC
CTGGCACCTCCCTGCCTTGTGTCCTGAGCCATAGTGACTCTTTTATCTGTGTGTCTTTTGCTAAATATGCCCTTT
TTATATTAATAAAAAGATGATTTGGAGTTGTGCTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3302

MSYKPIAPAPSSTPGSSTPGPGTPVPTGSVPSPSGSVPGAGAPFRPLFNDFGPPSMGYVQAMKPPGAQGSQSTYT
DLLSVIEEMGKEIRPTYAGSKSAMERLKRGIIHARALVRECLAETERNART

[illegible]

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FIGURE 3303B

CCAGACCTACATCGTGGGCGGTGCCGTGCGGAAGCTACAGGCGCAGTGCCAGTTCCTGTCAGACGGCTATGTGGC
CCACCTGGGCCAGCTGGAAGCGGGCTCGCACTCGCATGCCTCCTCGGGACCCCGAGAGCTGCCTTGGGCAAGAG
CAGCTATGGTGTGGCTGCCCCGTGGACTTCCTGCGCAAACAGAGCCAGCTGCTTCGCTCGAGGGGCCCCAGCCA
GGCGGAGCGTGAGGGCCCGGGAACACCACCCACCACCTGGCACGGGGCAAAGCACGGAGCATCAGCCTGAAGCT
GGACAGCGAGGAGTGAGGCCCACACCAGCCTGGACCTGGGTTATTTATTGACACACCCAAGGGGCCCCGAGGGGCT
GCGTGTGGGAGGCTGGGGACCCAGACTTTTGGCCCCAGCGCTGGCCCCCAGCCCCACACCCTATATCTCCGTG
TGCTCCTCGGTGTTACTTCCCTTTCATATGAGGGGACCCAGCGCCGGGGGAGGGAGGAGGGCGTGGGCATGGGC
GCAGAGGCTTTTCCAGTGTGTATAAATCCATGAAAATAAACGCCACCTGCACCCC

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FIGURE 3304

GCGGGCGCCTAGTCCCCGGGCTGGCGGGAGTGACAGTTCTGAGTCCCGCCCCGGCGTGCGCGGAGCGGGGCAGCCAGCA
GCGGAGGCGCGGCGCGCAGCACACCCGGGGACCATGGGCTCCATGTTCCGGAGCGAGGAGGTGGCCCTGGTCCAG
CTCTTTCTGCCCACAGCGGCTGCCTACACCTGCGTGAGTCGGCTGGGCGAGCTGGGCCTCGTGAGGATTCAGAGAC
CTCAACGCCTCGGTGAGCGCCTTCCAGAGACGCTTTGTGGTTGATGTTTCGGCGCTGTGAGGAGCTGGAGAAGACC
TTCACCTTCCTGCAGGAGGAGGTGCGGCGGGCTGGGCTGGTCTGCCCCGCCAAAGGGGAGGCTGCCGGCACCC
CCACCCCGGGACCTGCTGCGCATCCAGGAGGAGACGGAGCGCCTGGCCCAGGAGCTGCGGGATGTGCGGGGCAAC
CAGCAGGCCCTGCGGGCCCAGCTGCACCAGCTGCAGCTCCACGCCGCCGTGCTACGCCAGGGCCATGAACCTCAG
CTGGCAGCCGCCACACAGATGGGGCCTCAGAGAGGACGCCCTGCTCCAGGCCCCCGGGGGGCGCACCAGGAC
CTGAGGGTCAACTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCCTGCTCTGGAGGGCC
TGCCGCGGCTTCCTCATTGCCAGCTTCAGGGAGCTGGAGCAGCCGTGGAGCACCCCGTGACGGGCGAGCCAGCC
ACGTGGATGACCTTCCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACTGCTTC
CACTGCCACGTCTTCCCGTTTCTGACAGCAGGAGGAGGCCCGCTCGGGGCCCTGCAGCAGCTGCAACAGCAGAGC
CAGGAGCTGCAGGAGGTCTCGGGGAGACAGAGCGGTTCTTGAGCCAGGTGCTAGGCCGGGTGCTGCAGCTGCTG
CCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAGTGCAGCGTGAGCACACG
CACAAGTGCTCATTGCCGAGGCCTGGTGCTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGGACAGC
TCGATGGAGGAGGGAGTGAGTGCCGTGGCTCACCGCATCCCCTGCCGGGACATGCCCCCACACTCATCCGCACC
AACCCTTCACGGCCAGCTTCAGGGCATCGTGGATGCCCTACGGCGTGGGCCGCTACCAGGAGGTCAACCCCGCT
CCCTACACCATCATCACCTTCCCCTTCTGTTTGCTGTGATGTTTCGGGGATGTGGGCCACGGGCTGCTCATGTTT
CTCTTCGCCCTGGCCATGGTCCTTGCAGGAGAACCGACCGGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACT
TTCTTCAGGGGCCGCTACCTGCTCCTGCTTATGGGCCGTGTTCTCCATCTACACCGGCTTCATCTACAACGAGTGC
TTCAGTCGCGCCACCAGCATCTTCCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACAGTCTGGCTGGAGTGAT
GCATTCTGGCCCAGCACAGATGCTTACCCTGGATCCCAACGTACCGGTGTCTTCTGGGACCTTACCCCTTT
GGCATCGATCCTATTTGGAGCCTGGCTGCCAACCCTTGAGCTTCCTCAACTCCTTCAAGATGAAGATGTCCGTC
ATCCTGGGCGTCTGTGCACATGGCCTTTGGGGTGGTCTCGGAGTCTTCAACCACGTGCACCTTTGGCCAGAGGCAC
CGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCCTGCTGGGACTCTTCGGTTACCTCGTGTTCTTAGTCATC
TACAAGTGGCTGTGTGTCTGGGCTGCCAGGGCCGCTCGGCCCCAGCATCCTCATCCACTTCATCAACATGTTT
CTCTTCTCCACAGCCCCAGCAACAGGCTGCTCTACCCCGGCAGGAGGTGGTCCAGGCCACGCTGGTGGTCCTG
GCCTTGGCCATGGTGCCATCCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCCCTGCGG
AGGAGGCCCGCTGACCGACAGGAGGAAAAACAAGGCCGGGTGCTGGACCTGCCTGACGCATCTGTGAATGGCTGG
AGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCCTCCGAGGTGCTCATG
CACCAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCCTACCTGCGCCTGTGGGCC
CTGAGCCTGGCCCACGCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCTGGGCCGG
GAGGTGGGCGTGGCGGCTGTGGTGTGTTCCCATCTTTGCCGCTTTGCCGTGATGACCGTGGCTATCCTGCTG
GTGATGGAGGACTCTCAGCCTTCTGCACGCCCTGCGGCTGCACTGGGTGGAATTCCAGAACAAAGTTCTACTCA
GGCACGGGCTACAAGCTGAGTCCCTTACCTTCGCTGCCACAGATGACTTAGGGGCCACTGCAGGTCTGCCAGAC
CTCCTTCCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGCAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3305

MGSMFRSEEEVALVQLFLPTAAAYTCVSRLGELGLVEFRDLNASVSAFQRRFVVDVRRCEELEKTFTFLQEEVRRAGLVLP
PPPKGRLPAPPPRDLLRIQEETERLAQELRDVRGNQQALRAQLHQLQLHAAVLRQGHEPQLAAAHTDGASERTPLLQAP
GGPHQDLRVNFVAGAVEPHKAPALERLLWRACRGFLIASFRELEQPLEHPVTGEPATWMTFLISYWG
EQIGQKIRKITDCFHCHVFPFLQQEEARLGALQQQLQQQSQELQEVLGETERFLSQVLGRVLQLLPPGQVQVHKMK
AVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVSAVAHRIPCRDMPPTLIRTNRTASFQGIV
DAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHGLLMFLFALAMVLAENRPAVKAAQNEIWQTFFRGYLLLLLM
GLFSIYTGFIYNECFSRATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGIDPIWSLAAN
HLSFLNSFKMKMSVILGVVHMAFGVVLGVFNHVFHGQRHRLLETLPELTFLGLFGYLVFLVIYKWLCVWAARA
ASAPSILIHFINMFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLLGTPLHLLHRHRRRLRRRPADRQEENK
AGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAHTIEFCLGCVSNTASYLRLWALS LAHAQLSEV
LWAMVMRIGLGLGREVGVAAVVLVP IFAAFVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGTGYKLSPTF
AATDD

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FIGURE 3306

GGACGCCCCCTGCTCCAGGCCCCCGGGGGGCCGCACCAGGACCTGAGGGTCAAGTGAGTGAGGGATGACCTCATGC
CCTTTCTGGCCAGCCAGAACCCCTGGCCAGTCGCTGGGCTGGGCCAGGCTGAGCTCCGACTCCTTGTCCAGTGC
TCTCCCCAGGCTGGCCCCGCCTCCTTCAGGCCCGGAACCTCCACAGTCCCAAGCCCTAGCCCTAGGGGGTT
CTCCTCTTCTGGTCCTGCCCCGGGAGGCCTCCTGCCTTCCCCTGTGGGCAGGGCCAGTGTGCCCAATTGCCCGATT
GCCCCGTGCTGGGCAGGGTCCTGCCCCGGGGGGCCTGGTGGGGGAGGCAGGGCAGGAGGTTGGAGCAGCCCTGCCCA
GCCCCGTGGCCGCCAGCTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCCTGCTCTGGA
GGCCTGCCCGGGCTTCCTCATTGCCAGCTTCAGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGC
CAGCCACGTGGATGACCTTCCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACT
GCTTCCACTGCCACGTCTTCCCGTTTCTGCAGCAGGAGGAGGCCCGCCTCGGGGCCCTGCAGCAGCTGCAACAGC
AGAGCCAGGAGCTGCAGGAGGTCTCGGGGAGACAGAGCGTTTCTGAGCCAGGTGCTAGGCCGGGTGCTGCAGC
TGCTGCCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAGTGCAGCGTGAGCA
CCACGCACAAGTGCTCATTGCCGAGGCCTGGTGTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGG
ACAGCTCGATGGAGGAGGGAGTGAGTGCCGTGGCTCACCGCATCCCCTGCCGGGACATGCCCCCACACTCATCC
GCACCAACCGCTTCACGGCCAGCTTCCAGGGCATCGTGATGCCTACGGCGTGGGCCGCTACCAGGAGGTCAACC
CCGCTCCCTACACCATCATCACCTTCCCCTTCTGTGTTGCTGTGATGTTTCGGGGATGTGGGCCACGGGCTGCTCA
TGTTCTCTTCGCCCTGGCCATGGTCCTTGCGGAGAACCGACCGGTGTGAAGGCCGCGCAGAACGAGATCTGGC
AGACTTTCTTCAGGGGCCGCTACCTGCTCCTGCTTATGGGCCTGTTCTCCATCTACACCGGCTTCATCTACAACG
AGTGCTTCAGTCGCGCCACCAGCATCTTCCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACAGTCTGGCTGGA
GTGATGCATTCTGGCCAGCACACGATGCTTACCCTGGATCCCAACGTACCGGTGTCTTCTGGGACCCTACC
CCTTTGGCATCGATCCTATTTGGAGCCTGGCTGCCAACCACCTTGAGCTTCCTCAACTCCTTCAAGATGAAGATGT
CCGTATCCTGGGCGTCGTGCACATGGCCTTTGGGGTGGTCCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGA
GGCACCGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCTGCTGGGACTCTTCGGTTACCTCGTGTTCCTAG
TCATCTACAAGTGCTGTGTGTCTGGGCTGCCAGGGCCGCCTCGGCCCCCAGCATCCTCATCCACTTCATCAACA
TGTTCTCTTCTCCACAGCCCCAGCAACAGGCTGCTCTACCCCCGGCAGGAGGTGGTCCAGGCCACGCTGGTGG
TCCTGGCCTTGGCCATGGTGCCCATCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCGCC
TGCGGAGGAGGCCCCGCTGACCGACAGGAGGAAAACAAGGCCGGGTGCTGGACCTGCCTGACGCATCTGTGAATG
GCTGGAGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCTCCGAGGTGC
TCATGCACCAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCCTACCTGCGCCTGT
GGGCCCTGAGCCTGGCCACGCCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCTGG
GCCGGGAGGTGGGCGTGGCGGCTGTGGTGCTGGTCCCCATCTTTGCCGCTTTGCCGTGATGACCGTGGCTATCC
TGCTGGTGATGGAGGGACTCTCAGCCTTCTGCACGCCCTGCGGCTGCACTGGGTGGAATTCAGAACAAGTTCT
ACTCAGGCACGGGCTACAAGCTGAGTCCCTTACCTTCGCTGCCACAGATGACTAGGGCCCACTGCAGGTCTGTC
CAGACCTCCTTCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGCAGTGAACAAAAAAAAAAAA
AAAAA

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FIGURE 3307

MTFLISYWGEQIGQKIRKITDCFHCHVFPFLQQEEARLGALQQQLQQQSQELQEVLGETERFLSQVLGRVLQLLPP
GQVQVHKMKAVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVSAVAHRIPCRDMPPTLIRTNR
FTASFQGIVDAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHGLLMFLFALAMVLAENRPAVKAAQNEIWQTFF
RGRYLLLLMGLFSIYTGFIYNECFSRATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGI
DPIWSLAANHLSFLNSFKMKMSVILGVVHMAFGVVLGVFNHVHFGQRHRLLETLPELTFLLGLFGYLVFLVIYK
WLCVWAARAASAPSILIHFINMFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLLGTPHLLHRHRRRLRRR
PADRQEENKAGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAHTIEFCLGCVSNTASYLRWALS
LAHAQLSEVLWAMVMRIGLGLGREVGVAAVVLVPIFAAFVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGT
GYKLSFFTFAATDD

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FIGURE 3308

CGGCCGAGGCTGCGGCC**ATGG**CAGCATCTTCCCTGACGGTCACCTTAGGGCGGCTGGCGTCCGCGTGCAGCCACA
GCATCCTGAGACCTTCGGGGCCCGGAGCAGCCTCCCTTTGGTCTGCTTCTCGAAGGTTCAATTCACAGAGCACTT
CATATCTACCAGGATATGTTCCCTAAAACATCCCTGAGTTCACCACCTTGGCCAGAAGTTGTTCTGCCAGACCCAG
TTGAGGAGACCAGACACCATGCAGAGGTCGTGAAGAAGGTGAATGAGATGATCGTCACGGGGCAGTATGGCAGGC
TCTTTGCCGTGGTGCACCTTTGCCAGCCGCCAGTGGAAGGTGACCTCTGAAGACCTGATCTTAATTGGAAATGAAC
TAGACCTTGCCTGTGGAGAGAGAATTCGACTGGAGAAGGTCCTGCTGGTTGGGGCAGACAACCTTCACGCTGCTTG
GCAAGCCACTCCTCGGG**TAA**TGGCTGTGAAGTGCTGGGCTTTGTCTGGGGCTCCAGGGCTGGACATGCAGACAGT
GGTCACAGTGCAATTAGGCCAGAAAGGATCTTGTTTCGAGTAGAAGCCACAGTCATTGAAAAGACAGAATCATGGC
CAAGAATCATTATGAGATTCAGGAAAAGGAAAACTTCAAGAAGAAAAGAATCGTCACGACCCCGCAGACTGTCC
TCCGGATAAACAGCATTGAGATTGCTCCGTGTTTGTGTGATTACCGAGTTAATACTTACAAAAGGATAAAAATA
AACTCCTGCTTCCCAAGG

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FIGURE 3309

MAASSLTVTLGRLASACSHSILRPSGPGAASLWSASRRFNSQSTSYLPGYVPKTSLSPPWPEVVLDPVEETRH
HAEVVKKVNEMIVTGQYGRLEFAVVHFASRQWKVTSEDLILIGNELDLACGERIRLEKVLLVGADNFTLLGKPLL

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FIGURE 3310

GGCGCAGAAAGCGGGACGTCGGCTTCTAGGGGCCCCAGGCCGGCGGGCGGCATGGCCTCGGCAGCTGTGGAGAGCTT
CGTGACCAAGCAACTGGACCTGCTGGAGCTTGAGAGAGACGCGGAGGTGGAGGAGCGCAGGTCTTGGCAGGAGAA
CATCTCTCTGAAAGAGCTCCAGAGCCGAGGCGTGTGTTTGTCTGAAGCTGCAGGTATCCAGCCAGCGCACTGGGCT
GTACGGACGGCTGCTGGTCACCTTTGAGCCCCAGGCGATACGGGTCCGCGGCAGCTCTTCCCAGTAACAGCTTTAC
TTCTGGTGATATCGTGGGCCTGTACGATGCTGCTAATGAGGGCAGTCAGCTGGCCACTGGGATCTTGACCCGGGT
CACCCAGAAGTCGGTCACGGTGGCCTTTGATGAGTCCCACGATTTCCAGTTGAGCTTGGACCGAGAGAATTCCTA
CAGACTGTTAAACTTGCCAATGATGTCACTTACAGGCGACTGAAAAAGCCCTGATTGCTCTAAAGAAGTATCA
TTCTGGCCCAGCCTCCTCACTCATAGAAGTGCTCTTTGGCAGATCTGCTCCAGTCTTCCAGTGAAATACACCC
GCTGACATTCTTCAACACCTGCCTGGACACCTCCCAGAAAGAAGCGGTTTTCAATTTGCGCTGTCTCAGAAAGAACT
TGCCATCATCCATGGACCTCCTGGCACTGGGAAAACACGACTGTGGTTGAGATCATTCTTCAAGCTGTGAAACA
AGGCTTAAAGGTTCTGTGCTGCGCCCCCTCCAACATCGCCGTGGACAATCTGGTGGAGCGCCTGGCTCTGTGTAA
GCAGCGGATTCTGCGCCTGGGACACCCTGCCCGCTCCTGGAGTCCATTAGCAGCACTCCCTGGATGCGGTTTT
AGCGCGGAGCGACAGTGCCAGATTGTTGCAGATATCAGGAAGGACATCGACCAGGTCTTTGTGAAAAACAAAA
GACCCAGGATAAGAGAGAGAAAAAGTAATTTTCGAAATGAAATTAAGCTGTTAAGAAAAGAACTGAAGGAGAGGGA
AGAAGCAGCTATGCTCGAGAGCCTCACTTCGGCAAAACGTGGTCTTGAACAAACACAGGTGCGTCTGCCGATGG
CCCCCTGAAGTTGCTGCCCGAGAGCTACTTCGACGTGGTGGTCATTGACGAGTGTGCCAGGCCCTCGAGGCGAG
CTGCTGGATCCCCCTGCTGAAGGCCAGAAAGTGCATCCTGGCGGGCGATCACAAGCAGCTGCCCCCACCACAGT
CTCTCACAAGGCTGCGCTGGCAGGACTGTCACTCAGCCTGATGGAACGCCTGGCTGAGGAGTACGGCGCGAGGGT
GGTGCGGACACTGACGGTGCAGTACCGCATGCACCAGGCTATCATGCGCTGGGCCTCAGACACCATGTACCTTGG
GCAGCTCACAGCCCACTCTTCCGTGGCAAGGCACCTCCTGAGGGACCTCCCAGGTGTGGCTGCCACAGAAGAGAC
GGGTGTGCCCCCTGCTCTTGGTGGACACCGCCGGCTGCGGGCTGTTTGAGCTGGAGGAGGAGGACGAACAGTCGAA
AGGGAACCTTGGCGAAGTCCGCCTCGTCAGTTTGCACATCCAGGCTCTGGTGGACGCTGGTGTTCAGCCCCTGA
CATTGCTGTGGTCTCGCCATACAACCTCCAGGTGGACCTGCTCAGACAGAGCCTTGTGCACAGGCACCCCTGAGCT
TGAAATCAAGTCTGTGATGGCTTCCAAGGCCGAGAGAAGGAGGCCGTGATACTGTCTTCGTCAGATCCAACAG
GAAAGGTGAAGTTGGTTTTCTTGCTGAGGACCGGAGGATCAACGTGGCTGTCAACCGTGGCCGACGCCACGTGGC
GGTCATCTGTGACTCCCGTACTGTCAACAACCATGCATTTTTGAAGACCCTGGTGGAGTATTTACACAGCATGG
GGAAGTACGCACGGCCTTTGAGTATCTTGACGATATTGTCCCAGAAAACCTATTCCCATGAGAACTCCCAGGGTTC
CAGCCACGCTGCCACCAAGCCCCAGGGACCTGTACGTCCACCAGGACCGGAAGCCAGCGGCAGGAGGGAGGCCA
GGAGGCTGCAGCACCTGCCAGACAGGGCCGGAAGAAGCCGGCTGGGAAGTCTCTGGCCTCTGAAGCTCCATCTCA
GCCCAGCCTCAACGGAGGCAGCCAGAGGGAGTGGAGAGCCAAGATGGCGTGGACCACTTCCGGGCCATGATAGT
GGAGTTCATGGCCAGCAAGAAGATGCAGTTGGAGTTTCCCTCCTTCCCTCAATTCCCACGACAGGCTGCGGGTCCA
CCAAATAGCCGAGGAGCACGGGCTGAGGCACGACAGTTCCGGGGAAGGGAAGAGGAGGTTCATCACTGTGAGCAA
GAGGGCCCCGCGACCCCGAGCAGCCCTGGGACCCCCAGCAGGGACCGGTGGCCCAGCCCCCTCTCCAGCCAGTGCC
CCCTACCCCTGCGCAGACAGAGCAGCCTCCCAGGGAGCAGCGTGGCCCAGACCAGCCTGATCTGAGGACGCTGCA
CCTGGAGAGACTGCAGAGGGTCAGGAGCGCGCAGGGGCAGCCCGCCAGCAAGGAGCAGCAGGCCTCAGGGCAGCA
GAAACTTCCAGAAAAGAAAAAGAAAAAGCCAAAGGACATCCGGCCACAGATCTGCCCACGGAGGAGGACTTTGA
GGCCCTGGTTTTCTGCCGCCGTTAAGGCTGATAACACCTGCGGCTTTGCCAAGTGCACAGCCGGCGTCAACAACCT
GGGCCAGTTCTGCCAGCTCTGCAGCCGCCGCTACTGCCTCAGCCACCACCTGCCCCGAGATCCATGGCTGCGGTGA
GAGGGCTCGCGCCCATGCCCGGCAGAGAATCAGCCGGGAAGGGGTCTCTATGCCGGCAGCGGGACCAAGAACGG
ATCCCTGGACCCAGCCAAGAGGGCCCAGCTGCAGAGGAGGCTGGATAAGAAGCTGAGTGAGCTCAGCAACCAGAG
GACCAGCCGGAGGAAGGAGAGGGGGACGTGACCGGCCGATCCTTGACGCCCCGCGGAGCTCTCTCCATGGTAG
CCCAGGGCGCTGGCAGACCATGCTCCGCCCTCACCAGGGCCACAGAGGAGCGGAGGGGGCTATGGGGGAGGAGCG
GAGGGCCCTGTTGGGGAAGGTTGGGTTTTTGGACCCAGGGATAAGCTTTTCCGATGTACAATGTGGAGGAAAG
CACCTGGGGGACAACAGTGCTCGTGCAGGTGGGGCTTGGGAAATGCACGTCCCTTCCCCTTACTCCCCGCCAAAC
CCACATCCCAGCCTCTGGATCCTGGGGAAGTTCCAGTCC

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FIGURE 3311A

CACACGGACTACAGGGGAGTTTTGTTGAAGTTGCAAAGTCCTGGAGCCTCCAGAGGGCTGTCGGCGCAGTAGCAG
CGAGCAGCAGAGTCCGCACGCTCCGGCGAGGGGCAGAAGAGCGCGAGGGAGCGCGGGGCAGCAGAAGCGAGAGCC
GAGCGCGGACCCAGCCAGGACCCACAGCCCTCCCCAGCTGCCCAGGAAGAGCCCCAGCCATGGAACACCAGCTCC
TGTGCTGCGAAGTGGAAACCATCCGCCGCGCGTACCCCGATGCCAACCTCCTCAACGACCGGGTGTGCGGGCCA
TGCTGAAGGCGGAGGAGACCTGCGCGCCCTCGGTGTCTACTTCAAATGTGTGAGAAGGAGGTCTTCCCGTCCA
TGCGGAAGATCGTTCGCCACCTGGATGCTGGAGGTCTGCGAGGAACAGAAGTGCAGGAGGAGGTCTTCCCGTGG
CCATGAACTACCTGGACCGCTTCCTGTGCTGGAGCCCGTGAAAAAGAGCCCGCTGCAGTGTCTGGGGGCCACTT
GCATGTTCTGTGGCCTCTAAGATGAAGGAGACCATCCCCCTGACGGCCGAGAAGCTGTGCATCTACACCGACAAC
CCATCCGGCCCCGAGGAGCTGCTGCAATGGAGCTGCTCCTGGTGAACAAGCTCAAGTGGAACCTGGCCGCAATGA
CCCCGCACGATTTCAATTGAACACTTCCTCTCCAAAATGCCAGAGGCGGAGGAGAACAACAGATCATCCGCAAAAC
ACGCGCAGACCTTCGTTGCCCTCTGTGCCACAGATGTGAAGTTCATTTCAAATCCGCCCTCCATGGTGGCAGCGG
GGAGCGTGGTGGCCGAGTGCAAGGCCTGAACCTGAGGAGCCCCAACAACTTCCTGTCTACTACCGCCTCACAC
GCTTCCTCTCCAGAGTGATCAAGTGTGACCCAGACTGCCTCCGGGCCTGCCAGGAGCAGATCGAAGCCCTGCTGG
AGTCAAGCCTGCGCCAGGCCCAGCAGAACATGGACCCCAAGGCCGCGGAGGAGGAGGAAGAGGAGGAGGAGGAGG
TGGACCTGGCTTGACACCCACCGACGTGCGGGACGTGGACATCTGAAGGGCGCCAGGCAGGCGGGCGCCACCGCC
ACCCGCAGCGAGGGCGGAGCCGGCCCCAGGTGCTCCCTGACAGTCCCTCCTCTCCGGAGCATTTTGTATACCAGA
AGGGAAAGCTTCATTCTCCTTGTGTGGTGTGTTTTTCTTTTGTCTCTTCCCCCTTCCATCTCTGACTTAAGCA
AAAGAAAAAGATTACCCAAAACTGTCTTTAAAGAGAGAGAGAGAGAAAAAATAAGTATTTGCATAACCCTGA
GCGGTGGGGGAGGAGGGTGTGCTACAGATGATAGAGGATTTTATACCCCAATAATCAACTCGTTTTTATATTAA
TGTACTTGTCTCTGTGTGTAAGAATAGGCATTAACACAAAGGAGGCGTCTCGGGAGAGGATTAGGTTCCATCCT
TTACGTGTTTTAAAAAAGCATAAAAAACATTTTAAAAACATAGAAAAATTAGCAAAACCATTTTTTAAAGTAGAAG
AGGGTTTTAGGTAGAAAAACATATTCTTGTGCTTTTCTGATAAAGCACAGCTGTAGTGGGGTTCTAGGCATCTC
TGTACTTTGCTTGCTCATATGCATGTAGTCACTTTATAAGTCATTGTATGTTATTATATTCCGTAGGTAGATGTG
TAACCTCTTACCTTATTTCATGGCTGAAGTCACCTCTTGGTTACAGTAGCGTAGCGTGGCCGTGTGCATGTCTT
TGCGCCTGTGACCACCACCCCAACAAACCATCCAGTGACAAACCATCCAGTGGAGGTTTGTGCGGCACCAGCCAG
CGTAGCAGGGTCGGGAAAGGCCACCTGTCCCACTCCTACGATACGCTACTATAAAGAGAAGACGAAATAGTGACA
TAATATATTCTATTTTTTATACTCTTCTATTTTTTGTAGTGACCTGTTTATGAGATGCTGGTTTTCTACCCAACGG
CCCTGCAGCCAGCTCACGTCCAGGTTCAACCCACAGCTACTTGGTTTGTGTTCTTCTTCATATTCTAAACCAT
CCATTTCCAAGCACTTTAGTCCAATAGGTGTAGGAAATAGCGCTGTTTTTGTGTGTGTGCAGGGAGGGCAGTT
TTCTAATGGAATGGTTTTGGGAATATCCATGTACTTGTGTTGCAAGCAGGACTTTGAGGCAAGTGTGGGCCACTGTG
GTGGCAGTGGAGGTGGGGTGTGTTGGGAGGCTGCGTGCCAGTCAAGAAGAAAAAGGTTTGCATTCTCACATTGCCA
GGATGATAAGTTCCTTTCTTTTCTTTAAAGAAGTTGAAGTTTAGGAATCCTTTGGTGCCAACTGGTGTGTTGAAA
GTAGGGACCTCAGAGGTTTACCTAGAGAACAGGTGGTTTTTAAAGGTTATCTTAGATGTTTACACCGGAAGGT
TTTAAACACTAAAATATATAATTTATAGTTAAGGCTAAAAAGTATATTTATTGCAGAGGATGTTTATAAGGCCAG
TATGATTTATAAATGCAATCTCCCTTGATTTAAACACACAGATACACACACACACACACACACACACAAACC
TTCTGCCTTTGATGTTACAGATTTAATACAGTTTATTTTTTAAAGATAGATCCTTTTATAGGTGAGAAAAAACA
TCTGGAAGAAAAAACCACACAAAGACATTGATTCAGCCTGTTTGGCGTTTCCCAGAGTCATCTGATTGGACAGG
CATGGGTGCAAGGAAATTAGGGTACTCAACCTAAGTTCGGTTCCGATGAATTCTTATCCCTGCCCTTCCTTT
AAAAAACTTAGTGACAAATAGACAATTTGCACATCTGGCTATGTAATTCTTGTAATTTTTTATTTAGGAAGTGT
TGAAGGGAGGTGGCAAGAGTGTGGAGGCTGACGTGTGAGGGAGGACAGGCGGGAGGAGGTGTGAGGAGGAGGCTC
CCGAGGGGAAGGGGCGGTGCCCACACCGGGGACAGGCCGCGAGCTCCATTTTCTTATTGCGCTGCTACCGTTGACT
TCCAGGCACGGTTTGGAATATTCACATCGCTTCTGTGTATCTCTTTCACATTGTTTGTGCTATTGGAGGATCA
GTTTTTTGTGTTTACAATGTCATATACTGCCATGTACTAGTTTTAGTTTTCTCTTAGAACATTGTATTACAGATGC
CTTTTTTGTAGTTTTTTTTTTTTTATGTGATCAATTTTGACTTAATGTGATTACTGCTCTATTCCAAAAAGGTT
GCTGTTTCAATACCTCATGCTTCACTTAGCCATGGTGGACCCAGCGGGCAGGTTCTGCCTGCTTTGGCGGGCA
GACACGCGGGCGCGATCCACACAGGCTGGCGGGGGCCGGCCCCGAGGCCGCGTGCCTGAGAACCGCGCCGCTGT
CCCCAGAGACCAGGCTGTGTCCCTCTTCTTCCCTGCGCCTGTGATGCTGGGCACTTCATCTGATCGGGGCGT
AGCATCATAGTAGTTTTTACAGCTGTGTTATTCTTTGCGTGTAGCTATGGAAGTTGCATAATTATTATTATTATT

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FIGURE 3311B

ATTATAACAAGTGTGTCTTACGTGCCACCACGGCGTTGTACCTGTAGGACTCTCATTCCGGGATGATTGGAATAGC
TTCTGGAATTTGTTCAAGTTTTGGGTATGTTTAATCTGTTATGTACTAGTGTTCTGTTTGTATTGTTTTGTTAA
TTACACCATAATGCTAATTTAAAGAGACTCCAAATCTCAATGAAGCCAGCTCACAGTGCTGTGTGCCCCGGTCAC
CTAGCAAGCTGCCGAACCAAAAGAATTTGCACCCCGCTGCGGGCCCACGTGGTTGGGGCCCTGCCCTGGCAGGGT
CATCCTGTGCTCGGAGGCCATCTCGGGCACAGGCCACCCGCCCCACCCCTCCAGAACACGGCTCACGCTTACC
TCAACCATCCTGGCTGCGGCGTCTGTCTGAACCACGCGGGGGCCTTGAGGGACGCTTTGTCTGTCTGTATGGGGC
AAGGGCACAAGTCCTGGATGTTGTGTGTATCGAGAGGCCAAAGGCTGGTGGCAAGTGCACGGGGCACAGCGGAGT
CTGTCCTGTGACGCGCAAGTCTGAGGGTCTGGGCGGCGGGCGGCTGGGTCTGTGCATTTCTGGTTGCACCGCGGC
GCTTCCCAGCACCAACATGTAACCGGCATGTTTCCAGCAGAAGACAAAAAGACAAACATGAAAGTCTAGAAATAA
AACTGGTAAAACCCCAAAAAAAAAAAAAAAAAA

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FIGURE 3312

MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPSMRKIVATWMLLEVCEEQKCEE
EVFP LAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLLVNKLKW
NLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVAAVQGLNLRSPNNFLS
YYRLTRFLSRVIKCDPDCLRACQEQIEALLESSLRQAQQNMDPKAAEEEEEEEEVEVDLACTPTDVRDVDI

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FIGURE 3313

CTCTAAAGGTTCTGGGGGTGGAATCCTTGGGCCGCTGGGCAAGCGGCGAGACCTGGCCAGGGCCAGCGAGCCGAGG
ACAGAGGGGCGCACGGAGGGCCGGGCCGCGAGCCCCGGCCGCTTGCAGACCCCGCCATGGACCCGTTCTTGGTGCTG
CTGCACTCGGTGTCGTCCAGCCTGTGCGAGCAGCGAGCTGACCGAGCTCAAGTTCTTATGCCTCGGGCGCGTGGGC
AAGCGCAAGCTGGAGCGCGTGCAGAGCGGCCCTAGACCTCTTCTCCATGCTGCTGGAGCAGAACGACCTGGAGCCC
GGGCACACCGAGCTCCTGCGCGAGCTGCTCGCCTCCCTGCGGCGCCACGACCTGCTGCGGCGCGTGCAGCAGCTTC
GAGGCGGGGGCGGGCGGCCGGGGCCGCGCCTGGGGAAGAAGACCTGTGTGCAGCATTTAACGTCATATGTGATAAT
GTGGGGAAAGATTGGAGAAGGCTGGCTCGTCAGCTCAAAGTCTCAGACACCAAGATCGACAGCATCGAGGACAGA
TACCCCCGCAACCTGACAGAGCGTGTGCGGGAGTCACTGAGAATCTGGAAGAACACAGAGAAGGAGAACGCAACA
GTGGCCACCTGGTGGGGGCTCTCAGGTCCTGCCAGATGAACCTGGTGGCTGACCTGGTACAAGAGGTTTCAGCAG
GCCCGTGACCTCCAGAACAGGAGTGGGGCCATGTCCCCGATGTGATGGAACCTCAGACGCATCTACCTCCGAAGCG
TCCTGATGGGCCGCTGCTTTGCGCTGGTGGACCACAGGCATCTACACAGCCTGGACTTTGGTTCTCTCCAGGAAG
GTAGCCCAGCACTGTGAAGACCCAGCAGGAAGCCAGGCTGAGTGAGCCACAGACCACCTGCTTCTGAACTCAAGC
TGCGTTTATTAATGCCTCTCCCGCACCAAGGCCGGGCTTGGGCCCTGCACAGATATTTCCATTTCTTCTCCTACTAT
GACACTGAGCAAGATCTTGTCTCCACTAAATGAGCTCCTGCGGGAGTAGTTGGAAAGTTGGAACCGTGTCCAGCA
CAGAAGGAATCTGTGCAGATGAGCAGTCACACTGTTACTCCACAGCGGAGGAGACCAGCTCAGAGGCCCAGGAAT
CGGAGCGAAGCAGAGAGGTGGAGAACTGGGATTTGAACCCCCGCCATCCTTCACCAGAGCCCATGCTCAACCACT
GTGGCGTTCTGCTGCCCCTGCAGTTGGCAGAAAGGATGTTTTGTCCATTTCTTGGAGGCCACCGGGACAGACC
TGGACACTAGGGTCAGGCGGGGTGCTGTGGTGGGGAGAGGCATGGCTGGGGTGGGGGTGGGGAGACCTGGTTGGC
CGTGGTCCAGCTCTTGGCCCCCTGTGTGAGTTGAGTCTCCTCTCTGAGACTGCTAAGTAGGGGCGAGTATGGTTGC
CAGGACGAATTGAGATAATATCTGTGAGGTGCTGATGAGTGATTGACACACAGCACTCTCTAAATCTTCTTGTG
AGGATTATGGGTCCTGCAATTCTACAGTTTCTTACTGTTTTGTATCAAAATCACTATCTTTCTGATAACAGAATT
GCCAAGGCAGCGGGATCTCGTATCTTTAAAAAGCAGTCCTCTTATTCCTAAGGTAATCCTATTAAAA

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FIGURE 3314

MDPFLVLLHSVSSSLSSSELTFLKFLCLGRVGKRKLERVQSGLDLFSMLLEQNDLEPGHTELLRELLASLRRHDL
LRRVDDFEAGAAAGAAPGEEDLCAAFNVICDNVGKDWRLARQLKVSDTKIDSIEDRYPRNLTERVRESLRIWKN
TEKENATVAHLVGALRSCQMNLVADLVQEVQQARDLQNRSGAMSPMSWNSDASTSEAS

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FIGURE 3315

GAAGCCAGGCTGAGTGAGCCACAGACCACCTGCTTCTGAACTCAAGCTGCGTTTATTAATGCCTCTCCCGCACCA
GGCCGGGCTTGGGCCCTGCACAGATAATTTCCATTTCTTCCTCACTATGACACTGAGCAAGATCTTGTCTCCACTA
AATGAGCTCCTGCGGGAGTAGTTGGAAAAGTTGGAACCGTGTCCAGCACAGAAGGAATCTGTGCAGATGAGCAGTC
ACACTGTTACTCCACAGCGGAGGAGACCAGCTCAGAGGGCCAGGAATCGGAGCGAAGCAGAGAGGTGGAGAACTG
GGATTTGAACCCCCGCCATCCTTCACCAGAGCCCATGCTCAACCACTGTGGCGTTCTGCTGCCCCCTGCAGTTGGC
AGAAAGGATGTTTTGTCCCATTTCCTTGGTCCAGCTCTTGGCCCCCTGTGTGAGTTGAGTCTCCTCTCTGAGACTG
CTAAGTAGGGGCAGTGATGGTTGCCAGGACGAATTGAGATAATATCTGTGAGGTGCTGATGAGTGATTGACACAC
AGCACTCTCTAAATCTTCCTTGTGAGGATTATGGGTCTGCAATTCTACAGTTTCTTACTGTTTTGTATCAAAAT
CACTATCTTTCTGATAACAGAATTGCCAAGGCAGCGGGATCTCGTATCTTTAAAAAGCAGTCCTCTTATTCCTAA
GGTAATCCTATTAAAACACAGCTTTACAACCTCCATACTAC

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FIGURE 3316A

GAATTCGGGGCCCCGGCCGTCCCTCTTAAGGCTCTTCCTCCGCTCCGCCAGTGTCCGGCCGCGGGCCGGCCTTA
GTGACTGGGGCGGCGGGCCCCGGGGCCGCGGCGTGGGGCGGGCAGGCGGACGCCGGCCGCGGGCTGCTTTCGTCG
GCTCCCAAGCTCTCCCGGAGCGAGCAGCCGCCGCGAGCCGCCGCGGAGCCTCCTCGCCCGCTCCCGCCGGCGAG
CAAGATGATGTGCGAGGTGATGCCGACCATCAGCGAAGCAGAAGGCCCCCCTGGAGGAGGTGGAGGCCATGGTTC
CGGCTCCCTTTCACAGCCAGATGCAGATTACATTTTTGAACAGTTGATGGTCTCCATGCTAGAAGAAAGGGACCG
CCTTCTTGATACACTGAGAGAGACTCAAGAAACGCTGGCCTTAACCCAGGGGAAGTTACACGAGGTTGGTCATGA
AAGAGATTTCCTTGAGAGACAGCTCAACACGGCACTTCCACAGGAGTTCGCAGCACTTACTAAAGAACTCAATGT
ATGCAGGGAACAGCTCCTTGAAAGGGAAGAAGAAATTGCTGAACTGAAAGCAGAAAGGAATAACACCAGGCTGCT
GTTAGAGCATTGGAATGCCTTGCTCCAGGCATGAGCGGTCTCTTAGGATGACCGTGGTGAAGAGACAAGCGCA
GTCTCCAGCAGGCGTGTCCAGCGAAGTGAAGTGCTGAAAGCACTGAAGTCCTTATTTGAACACCACAAAGCTCT
GGATGAAAAGGTGAGAGAGCGATTACGAGTAGCACTTGAAAGATGTAGTTTGTAGAAAGAGGAATTAGGTGCCAC
ACACAAAGAGCTAATGATTCTTAAAGAACAGAATAATCAGAAAAAACTCTAACAGATGGAGTGCTGGACATAAA
CCATGAACAAGAAAATACACCAAGCACGAGTGGAAAGAGATCTTCTGATGGTTCTTTAAGCCACGAGGAAGACCT
TGCTAAAGTAATTGAGCTCCAAGAAATCATAAGTAAGCAGTCAAGGGAACAGAGCCAAATGAAAGAACGCCTGGC
TTCCCTTTCCAGTCATGTGACAGAACTGGAAGAGGATCTGGACACGGCTAGAAAAGATCTCATCAAATCTGAAGA
AATGAACACAAAATTGCAACGAGATGTCCGTGAAGCCATGGCCCAAAAGGAAGATATGGAAGAGAGAATCACTAC
TCTTGAAAAACGCTACCTCGCTGCACAGCGTGAAGCCACATCTGTGCATGACCTCAATGATAAACTTGAAAATGA
AATTGCAAATAAAGATTCTATGCATCGACAGACTGAAGATAAAAAACCGCCAGTTACAGGAGCGCTTGGAATTGGC
AGAGCAAAAGCTGCAACAGACACTGAGGAAGGCAGAGACGCTCCCGGAGGTGGAGGCGGAGCTGGCCAGAGGGT
GGCAGCGCTTTCCAAGGCTGAAGAGAGACACGGCAACATTGAAGAAAGGTTACGACAGATGGAAGCACAGTTGGA
GGAGAAGAATCAAGAACTGCAGCGGGCAAGGCAAGAGAAAAAATGAACGAAGAACATAATAAACGTTTTATCAGA
CACTGTTGACAAGCTGCTTTCAGAACTAATGAGAGGCTTCAACTTCATCTTAAAGAGAGAATGGCTGCTTTGGA
AGATAAGAACTCTCTTTTAAGAGAAAGTTGAAAGTGCAAAAAAGCAGTTAGAAGAAACACAACACGATAAGGATCA
GCTTGTCTTAAACATTGAAGCACTGAGGGCTGAAC TAGACCACATGAGACTAAGAGGTGCTTCACTTCATCATGG
CCGACCCCACTTGCGCAGTGTCCAGATTTCAGGTTCCCATGGCAGACGGCCACACAGACTCCTACAGCACCAG
TGCACTGCTGCGGCGCCACAGAAAGGCCGGCTGGCAGCCCTGCGAGATGAGCCTTCCAAGGTACAAACTCTTAA
TGAGCAGGATTGGGAACGTGCCAGCAAGCTAGTGTCTTGGAATGTAGCACAAGCATTCGAGAGTGATGCTGA
CGTGTCTGATGGTGAAGATGACAGGGACACTCTCCTCAGCTCAGTTGACCTGCTATCGCCAGCGGGCAGGCCGA
CGCGCACACACTAGCCATGATGCTTCAGGAGCAGCTGGACGCCATCAACAAAGAGATCAGGTTGATTACAGGAAGA
AAAAGAAAATACAGAGCAGCGGGCAGAGGAGATTGAAAGTCGAGTTGGCAGTGGAAGTCTAGACAATCTTGGTCG
TTTTAGATCAATGAGCTCCATTCCCCCTACCCTGCTTCTCCTGCTTGCTAGCTCCTCCCCCTCCGGGCAGTGGGCG
CTCCACCCACGAAGGATCCCTCACAGCCAGCTCGGGAAGTGGACAGACTGGGCGTCATGACCCTTTTGCCACC
TTCCAGAGAAGAGGTACGAGATGACAAGACAACCATAAAGTGTGAAACCTCCCCGCCTTCTCCCCGAGAGCCCT
TCGGTTAGACGGCTGCACAAAGGGGCGCTGCACACCGTCAGCCACGAGGACATCAGGGACATAAGGAACTCCAC
AGGCTCCCAGGATGGTCCCGTGAGCAACCCACGAGTAGCAACAGTAGCCAGGACTCGCTCCACAAAGCCCCAAA
GAAGAAAGGCATTAAGTCTCCATTGGCCGCTTGTGTTGGCAAGAAAGAAAAGGGCCGACCTGGACAACTGGCAA
AGAAGCATTAGGACAAGCTGGTGTGTTCCGAGACGGATAACTCATCTCAGGATGCCTTGGGACTTAGCAAATTGGG
GGGACAGGCTGAAAAAATCGTAAACTTCAAAAAAGCATGAATTGCTGGAGGAAGCCCGGAGACAAGGTTTACC
TTTTGCCCAATGGGACGGGCCAACGGTTGTGGTCTGGCTAGAGCTCTGGGTTGGGATGCCAGCCTGGTATGTGGC
TGCTTGCCGAGCAAACGTGAAAAGCGGGGCCATCATGTCCGGCCCTGTCCGACACAGAGATCCAGCGTGAGATTGG
CATCAGCAACCCCTGCACAGGCTGAAGCTGAGGCTGGCCATCCAGGAGATCATGTGCTGACCAGCCCGTCTGC
CCCGCCACATCTAGAACGACACTCGCCTATGGGGACATGAACCACGAGTGGATCGGCAACGAGTGGCTCCCCAG
CCTGGGCCTCCCCAGTACCGCAGCTACTTCATGGAGTGCCTTGTAGACGCCAGGATGCTGGACCACTTGACCAA
GAAAGACCTTCGAGGGCAGCTGAAAATGGTCGACAGTTTTTCACAGAAACAGTTTTCCAGTGTGGAATTATGTGCCT
GAGAAGGTTAAATTATGACCGGAAAGAACTGGAAAGAAAAGAGAAGAAAGTCAGAGTGAAATAAAAGACGTGCT
TGTTTGGAGCAATGATCGAGTGATTGCTGGATCCTGTCAATTGGCCTTAAAGAATATGCAAACAATCTTATAGA
GAGTGGTGTTCACGGAGCACTTCTGGCCTTAGATGAAACCTTCGACTTCAGTGCAGTGGCACTGCTGTTACAGAT
CCCGACGCAGAACACACAGGCTCGTGCTGTCTTGAAAGAGAATTTAACAACCTTTTGGTCATGGGGACTGATAG

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FIGURE 3316B

AAGGTTTGATGAAGATGATGATAAAAGCTTTAGGAGAGCACCTTCATGGAGAAAAAGTTTAGACCAAAGGACAT
TCGTGGCTTAGCTGCTGGGTCAGCAGAGACTCTCCCTGCAAACCTCCGGGTGACTTCTTCTATGTCTTCCCCCTC
TATGCAGCCAAAGAAGATGCAGATGGACGGCAATGTATCAGGAACACAGAGGTTGGATTCTGCTACAGTCAGGAC
TTACTCCTGCTTAAAGTCTCCTGTTGTTTACCCACACTACTTCTACAGATGATTATGCAGCATTGGAATCCAACAA
AGACTACATTTTGAACCAGTGAATCTTTAATCTTGTTAATACTTGTTATATGGACCCTAAGATATTTTATTAC
AGAGTTTTTAATTAGTGAAAAATTCATGAATACCATAGAGAAAATATTTTAGAATTTAATGTTTCTTATATTTAT
GTAAACTTATGACTCTTCATTTATATAGTTACTTACTTTTTTCATGTATATCCAGGCTATAAATATCCTTTCAAAT
CATGTTCTTATACCTAATTTTAGTCCTTTCAAATGAATGTACTGTAATGCTTGTATGTATAAATCCTATGAATAGA
GGGCTTTTGTAATTATGCATTTATTGTAATTATCATTAATTTTTTAATGATAAACCATGACAAAGGATTTTACG
TTTATAAAATTATGACAGAAGCCATGTGCCCCGAATTC

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FIGURE 3317

MMCEVMPTISEAEGPPGGGGHSGSGSPSQPDADSHFEQLMVSMLEERDRLDDTLRETQETLALTQGKLHEVGHER
DSLQRQLNTALPQEFAAALTKELNVCREQLLEREEETIAELKAERNNTRLLLEHLECLVSRHERSLRMTVVKRQAQS
PAGVSSEVEVLKALKSLFEHHKALDEKVRERLRVALERCSSLLEEELGATHKELMILKEQNNQKKTITDGVLDINH
EQENTPSTSGKRSSDGSLSHEEDLAKVIELQEIISKQSREQSQMKERLASLSSHVTELEEDLDTARKDLIKSEEM
NTKLQRDVREAMAQKEDMEERITTTLEKRYLAAQREATSVHDLNDKLENEIANKDSMHRQTEDKNRQLQERLELAE
QKLQQTLRKAETLPEVEAELAQRVAALSKAEERHGNIERLRQMEAQLEEKNOELQARARQREKMNEEHNKRLSDT
VDKLLSESNERLQLHLKERMAALEDKNSLLREVESAKKQLEETQHDKDQLVLNIEALRAELDHRGASLHHGR
PHLGSVPDFRFPDMADGHTDSYSTSAVLRPPQKGRLAALRDEPSKVQTLNEQDWERAQQASVLANVAQAFESDADV
SDGEDDRDTLLSSVDLLSPSGQADAHTLAMMLQEQLDAINKEIRLIQEEKENTEQRAEEIESRVGSGSLDNLGRF
RSMSSIPPYPASSLASSSPPGSGRSTPRRIPHSPAREVDRLGVMTLLPPSREEVRDDKTTIKCETSPSPSPRALR
LDR LHKGALHTVSHEDIRDIRNSTGSQDGPVSNPSSSNSSQDSLHKAPKKKGIKSSIGRLFGKKEKGRPGQTGKE
ALGQAGVSETDNSSQDALGLSKLGGQAEKNRKLQKKHELLEEARQGLPFAQWDGPTVVVWLELWVGMPAWYVAA
CRANVKSGAIMSALSDTEIQREIGISNPLHRLKRLRLAIQEIMSLTSPSAPPTSRTTTLAYGDMNHEWIGNEWLPSL
GLPQYRSYFMECLVDARMLDHLTKKDLRGQLKMVDSFHRNSFQCGIMCLRRLNYDRKELERKREESQSEIKDVLV
WSNDRVIRWILSIGLKEYANNLIESGVHGALLALDETFDFSALALLLQIPTQNTQARAVLEREFNNLLVMGTD RR
FDEDDDKSFRRAPSWRKKFRPKDIRGLAAGSAETLPANFRVTSSMSSPSMQPKKMQMDGNVSGTQRLDSATVRTY
SC

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FIGURE 3318A

ACGAAGAGGTACGATTCCGGAGAATCGCGAGGCAGAGCGGGAGCGCGCAGCCAGGTGGAACTAATTCTAAGCCA
GACTGCTGGAGATCACCTGTTCTAGTGTGTGGAGGCTTCCACCAGGAGGCGCATTGGAGTGACTGTCTGGCATC
ACCAAGATGACACTCCACGCCACCCGGGGGGCTGCACTCCTCTCTTGGGTGAACAGTCTACACGTGGCTGACCCT
GTGGAGGCTGTGCTGCAGCTCCAGGACTGCAGCATCTTCATCAAGATCATTGACAGAATCCATGGCACTGAAGAG
GGACAGCAAATCTTGAAGCAGCCGGTGTGAGAGAGACTGGACTTTGTGTGCAGTTTTCTGCAGAAAATCGAAAAC
ATCCCTCTTCCCCAGAATGCCTGGTATCTGCACAGAAGGTGCTAGAGGGATCAGAGCTGGAACGGCGAAGATGA
CCATGCTGCTCTTATACCACTCTACCATGAGCTCCAAAAGTCCCAGGGACTGGGAACAGTTTGAATATAAAATTC
AGGCTGAGTTGGCTGTGCTTCTTAAATTTGTGCTGGACCATGAGGACGGGCTAAACCTTAATGAGGACCTAGAGA
ACTTCCTACAGAAAGCTCCTGTGCCTTCTACCTGTTCTAGCACATTCCCTGAAGAGCTCTCCCCACCTAGCCACC
AGGCCAAGAGGGAGATTGCTTCCCTAGAGCTACAGAAGGTTGCCTCCTCTTCCAGTGGGAACAACCTTTCTCTCAG
GTTCTCCAGCTTCTCCCATGGGTGATATCCTGCAGACCCACAGTTCCAGATGAGACGGCTGAAGAAGCAGCTTG
CTGATGAGAGAAGTAATAGGGATGAGCTGGAGCTGGAGCTAGCTGAGAACCGCAAGCTCCTCACCAGAGAAGGATG
CACAGATAGCCATGATGCAGCAGCGCATTGACCGCTAGCCCTGCTGAATGAGAAGCAGGCGGCCAGCCACTGG
AGCCCAAGGAGCTTGAGGAGCTGCGTGACAAGAATGAGAGCCTTACCATGCGGCTGCATGAAAACCTGAAGCAGT
GCCAGGACCTGAAGACAGAGAAGAGCCAGATGGATCGCAAAATCAACCAGCTTTCGGAGGAGAAATGGAGACCTTT
CCTTTAAGCTGCGGGAGTTTGCCAGTCATCTGCAGCAGCTACAGGATGCCCTCAATGAGCTGACGGAGGAGCACA
GCAAGGCCACTCAGGAGTGGCTAGAGAAGCAGGCCAGCTGGAGAAGGAGCTCAGCGCAGCCCTGCAGGACAAGA
AATGCCTTGAAGAGAAGAACGAAATCCTTCAGGGAAAACCTTTCACAGCTGGAAGAACAACCTTGTCCCAGCTGCAGG
ATAACCCACCCAGGAGAAGGGCGAGGTGCTGGGTGATGTCTTGCAGCTGGAACCTTGAAGCAAGAGGCAGCCA
CTCTTGCTGCAACAACACACAGCTCCAAGCCAGGGTAGAGATGCTGGAGACTGAGCGAGGCCAGCAGGAAGCCA
AGCTGCTTGCTGAGCGGGGCCACTTCGAAGAAGAAAAGCAGCAGCTGTCTAGCCTGATCACTGACCTGCAGAGCT
CCATCTCCAACCTCAGCCAGGCCAAGGAAGAGCTGGAGCAGGCCTCCCAGGCTCATGGGGCCCGGTTGACTGCCC
AGGTGGCCTCTCTGACCTCTGAGCTCACCACACTCAATGCCACCATCCAGCAACAGGATCAAGAACTGGCTGGCC
TGAAGCAGCAGGCCAAAGAGAAGCAGGCCAGCTAGCACAGACCCTCCAACAGCAAGAACAGGCCTCCCAGGGCC
TCCGCCACCAGGTGGAGCAGCTAAGCAGTAGCCTGAAGCAGAAGGAGCAGCAGTTGAAGGAGGTAGCGGAGAAGC
AGGAGGCAACTAGGCAGGACCATGCCCAGCAACTGGCCACTGCTGCAGAGGAGCGAGAGGCCTCCTTAAGGGAGC
GGGATGCGGCTCTCAAGCAGCTGGAGGCACTGGAGAAGGAGAAGGCTGCCAAGCTGGAGATTCTGCAGCAGCAAC
TTCAGGTGGCTAATGAAGCCCCGGACAGTGCCAGACCTCAGTGACACAGGCCAGCGGGAGAAGGCAGAGCTGA
GCCGGAAGGTGGAGGAACCTCAGGCCTGTGTTGAGACAGCCCGCCAGGAACAGCATGAGGCCAGGCCAGGTTG
CAGAGCTAGAGTTGCAGCTGCGGTCTGAGCAGCAAAAAGCAACTGAGAAAGAAAGGGTGGCCAGGAGAAGGACC
AGCTCCAGGAGCAGCTCCAGGCCCTCAAAGAGTCTTGAAGGTACCAAGGGCAGCCTTGAAGAGGAGAAGCGCA
GGGCTGCAGATGCCCTGGAAGAGCAGCAGCGTTGTATCTCTGAGCTGAAGGCAGAGACCCGAAGCCTGGTGGAGC
AGCATAAGCGGGAACGAAAGGAGCTGGAAGAAGAGAGGGCTGGGCGCAAGGGGCTGGAGGCTCGATTACAGCAGC
TTGGGGAGGCCCATCAGGCTGAGACTGAAGTCTGCGGCGGGAGCTGGCAGAGGCCATGGCTGCCCAGCACACAG
CTGAGAGTGAGTGTGAGCAGCTCGTCAAAGAAGTAGCTGCCTGGCGTGAGCGGTATGAGGATAGCCAGCAAGAGG
AGGCACAGTATGGCGCCATGTTCCAGGAACAGCTGATGACTTTGAAGGAGGAATGTGAGAAGGCCCGCCAGGAGC
TGCAGGAGGCAAAGGAGAAGGTGGCAGGCATAGAAATCCACAGCGAGCTCCAGATAAGCCGGCAGCAGAACGAAC
TAGCTGAGCTCCATGCCAACCTGGCCAGAGCACTCCAGCAGGTCCAAGAGAAGGAAGTCAGGGCCCCAGAAGCTTG
CAGATGACCTCTCCACTCTGCAGGAAAAGATGGCTGCCACCAGCAAAGAGGTGGCCCCGCTTGGAGACCTTGGTGC
GCAAGGCAGGTGAGCAGCAGGAAACAGCCTCCCGGGAGTTAGTCAAGGAGCCTGCGAGGGCAGGAGACAGACAGC
CCGAGTGGCTGGAAGAGCAACAGGGACGCCAGTTCTGCAGCACACAGGCAGCGCTGCAGGCTATGGAGCGGGAGG
CAGAGCAGATGGGCAATGAGCTGGAACGGCTGCGGGCCGCGCTGATGGAGAGCCAGGGGCAGCAGCAGGAGGAGC
GTGGGCAGCAGGAAAGGGAGGTGGCGCGGCTGACCCAGGAGCGGGGCCGTGCCAGGCTGACCTTGCCCTGGAGA
AGGCGGCCAGAGCAGAGCTTGAGATGCGGCTGCAGAACGCCCTCAACGAGCAGCGTGTGGAGTTGCTACCTGTC
AAGAGGCACTGGCTCATGCCCTGACGGAAGGAAGGCAAGGACCAGGAGTTGGCCAAGCTTCGTGGTCTGGAGG
CAGCCCAGATAAAAGAGCTGGAGGAACCTCGGCAAACCGTGAAGCAACTGAAGGAACAGCTGGCTAAGAAAGAAA
AGGAGCACGCATCTGGCTCAGGAGCCCAATCTGAGGCTGCTGGCAGGACAGAGCCAACAGGCCCAAGCTGGAGG
CACTGCGGGCAGAGGTGAGCAAGCTGGAACAGCAATGCCAGAAGCAGCAGGAGCAGGCTGACAGCCTGGAACGCA

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FIGURE 3318B

GCCTCGAGGCTGAGCGGGCCTCCCGGGCTGAGCGGGACAGTGCTCTGGAGACTCTGCAGGGCCAGTTAGAGGAGA
AGGCCCAGGAGCTAGGGCACAGTCAGAGTGCCTTAGCCTCGGCCCAACGGGAGTTGGCTGCCTTCCGCACCAAGG
TACAAGACCACAGCAAGGCTGAAGATGAGTGGAAGGCCCAGGTGGCCCCGGGGCCGGCAAGAGGCTGAGAGGAAAA
ATAGCCTCATCAGCAGCTTGGAGGAGGAGGTGTCCATCCTGAATCGCCAGGTCTGGAGAAGGAGGGGGAGAGCA
AGGAGTTGAAGCGGCTGGTGATGGCCGAGTCAGAGAAGAGCCAGAAGCTGGAGGAGAGGCTGCGCCTGCTGCAGG
CAGAGACAGCCAGCAACAGTGCCAGAGCTGCAGAACGCAGCTCTGCTCTGCGGGAGGAGGTGCAGAGCCTCCGGG
AGGAGGCTGAGAAACAGCGGGTGGCTTCAGAGAACCTGCGGCAGGAGCTGACCTCACAGGCTGAGCGTGCAGGAGG
AGCTGGGCCAAGAATTGAAGGCGTGGCAGGAGAAGTTCTTCCAGAAAGAGCAGGCCCTCTCCACCCTGCAGCTCG
AGCACACCAGCACACAGGCCCTGGTGAGTGAGCTGCTGCCAGCTAAGCACCTCTGCCAGCAGCTGCAGGCCGAGC
AGGCCGCTGCCGAGAAACGCCACCGTGAGGAGCTGGAGCAGAGCAAGCAGGCCGCTGGGGGACTGCGGGCAGAGC
TGCTGCGGGCCAGCGGGAGCTTGGGGAGCTGATTCTCTGCGGCAGAAGGTGGCAGAGCAGGAGCGAACAGCTC
AGCAGCTGCGGGCAGAGAAGGCCAGCTATGCAGAGCAGCTGAGCATGCTGAAGAAGGCGCATGGCCTGCTGGCAG
AGGAGAACC GGGGCTGGGTGAGCGGGCCAACCTTGCGCGCAGTTTCTGGAAGTGAGTTGGACCAGGCCCGGG
AGAAGTATGTCCAAGAGTTGGCAGCCGTACGTGCTGATGCTGAGACCCGTCTGGCTGAGGTGCAGCGAGAAGCAC
AGAGCACTGCCCGGGAGCTGGAGGTGATGACTGCCAAGTATGAGGGTGCCAAGGTCAAGGTCTTGAGGAGAGGGC
AGCGGTTCCAGGAAGAGAGGCGAGAACTCACTGCCAGGTGGAGCAGCTAGAGGTATTTTCAGAGAGAGCAAATA
AGCAGGTGGAAGAACTGAGTAAGAACTGGCTGACTCTGACCAAGCCAGCAAGGTGCAGCAGCAGAAGCTGAAGG
CTGTCCAGGCTCAGGGAGGCGAGAGCCAGCAGGAGGCCAGCGCCTCCAGGCCAGCTGAATGAACTGCAAGCCC
AGTTGAGCCAGAAGGAGCAGGCAGCTGAGCACTATAAGCTGCAGATGGAGAAAGCCAAAACACATTATGATGCCA
AGAAGCAGCAGAACCAAGAGCTGCAGGAGCAGCTGCGGAGCCTGGAGCAGCTGCAGAAGGAAAACAAAGAGCTGC
GAGCTGAAGCTGAACGGCTGGGCCATGAGCTACAGCAGGCTGGGCTGAAGACCAAGGAGGCTGAACAGACCTGCC
GCCACCTTACTGCCAGGTGCGCAGCCTGGAGGCGACAGGTTGCCCATGCAGACCAGCAGCTTCGAGACCTGGGCA
AATTCCAGGTGGCAACTGATGCTTTAAAGAGCCGTGAGCCCCAGGCTAAGCCCCAGCTGGACTTGAGTATTGACA
GCCTGGATCTGAGCTGCGAGGAGGGGACCCCACTCAGTATCACCAGCAAGCTGCCTCGTACCCAGCCAGACGGCA
CCAGCGTCCCTGGAGAACCAGCCTCACCTATCTCCAGCGCCTGCCCCCAAGGTAGAATCCCTGGAGAGTCTCT
ACTTCACTCCCATCCCTGCTCGGAGTCAGGCCCCCTGGAGAGCAGCCTGGACTCCCTGGGAGACGTCTTCTCTGG
ACTCGGCTCGTAAGACCCGCTCCGCTCGTCGGCGCACCACGCAGATCATCAACATCACCATGACCAAGAAGCTAG
ATGTGGAAGAGCCAGACAGCGCCAACTCATCGTTCTACAGCACGCGGTCTGCTCCTGCTTCCAGGCTAGCCTGC
GAGCCACCTCCTCTACTCAGTCTCTAGCTCGCCTGGGTTCTCCCGATTATGGCAACTCAGCCCTGCTCAGCTTGC
CTGGCTACCGCCCCACCACTCGCAGTTCTGCTCGTCTGTTCCAGGCCGGGGTGTCCAGTGGGGCCCCCTCCAGGAA
GGAACAGCTTCTACATGGGCACTTGCCAGGATGAGCCTGAGCAGCTGGATGACTGGAACCGCATTGCAGAGCTGC
AGCAGCGCAATCGAGTGTGCCCCCACATCTGAAGACCTGCTATCCCTGGAGTCCAGGCCTTCCCTGAGCCTGG
GCACCATCACAGATGAGGAGATGAAAACCTGGAGACCCCCAAGAGACCCTGCGCCGAGCCAGCATGCAGCCAATCC
AGATAGCCGAGGGCACTGGCATCACCAACCCGGCAGCAGCGCAAACGGGTCTCCCTAGAGCCCCACCAGGGCCCTG
GAACTCCTGAGTCTAAGAAGGCCACCAGCTGTTTCCACGCCCATGACTCCCCGAGACCGACATGAAGGGCGCA
AACAGAGCACTACTGAGGCCCAGAAGAAAGCAGCTCCAGCTTCTACTAAACAGGCTGACCGGCGCCAGTCGATGG
CCTTCAGCATCCTCAACACACCCCAAGAAAGCTAGGGAACAGCCTTCTGCGGCGGGGAGCCTCAAAGAAGGCCCTGT
CCAAGGCTTCCCCCAACACTCGCAGTGGAACCCGCGGTTCTCCGCGCATTGCCACCACCACAGCCAGCGCCGCCA
CTGCTGCCGCCATTGGTGCCACCCCTCGAGCCAAGGGCAAGGCAAAGCACTAAAGGGCCAGTACCAGTGAGTGGC
CCCACCTGTGTCCCCGATGCTGACCTCACCTGGTCTCTCCGCTACTGTCCCTCTCAGTGCCCTTCTCTCAGCTCCC
AGGCCAACAGTAGCCAAACCCCTAGAGACAGTGATGCCTGCCCGCACCCCTGGCCTGGTCCCTGGTCCCTTCACTGG
CGCCTTCTCGGAGCTGGCCAGGGGGCCTGGAGCATGGACAGTGTGGGCGCTCTCCCTACCTTGCTCCTTTTTT
CTTAAAGCAAAGTCACTTCTCCATCACAACCAGATTTGAGGCTGGTTTTGATGGCTGGGTCTTGGGCTGGCCA
GTCTTCTCTTAGCCTCTGGATCTAGAAGGGACCATAAGAGGAGTAGGCCCTGGTTCTGCTGTCTGGTGGCTG
GGCCAGCAGGGGGCCCTCACTCTTGAAGTCCAGGACTGGGTCTGACCTGGTGGGAGCACCTGCCAGAGGATGCTC
TTTCCCAGGACGGATGGGCCCTATGTCTCAGGAGTGGGGTTGGGGGACAGCCTTCAGCAGCAGCTCACACCCTAC
CTTCCCAGACTTGCACTGGGGTGGGATTTGGAGTGATGGGAAGGTTTTTAAGGGCCGGGGATGGATCTTTTCTA
AATGTTATTACTTGTAATAAAGTCTATTTTTCTCCCGTG

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FIGURE 3319

MTMLLLYHSTMSSKSPRDWEQFYEYKIQAEI LAVILKFVLDHEDGLNLNEDLENFLQKAPVPSTCSSTFPEELSPPS
HQAKREIRFLELQKVASSSSGNNFLSGSPASPMGDI LQTPQFQMRRLKKQLADERSNRDELELELAENRKLLTEK
DAQIAMMQQRIDRLALLNEKQAASPLEPKLEELRDKNESLTMR LHETLKCQCQDLKTEKSQMDRKINQLSEENG
LSFKLREFASHLQQLQDALNELTEEHKATQEWLEKQAQLEKELSAALQDKKCLEEKNEILQGKLSQLEEHLSQL
QDNPPQEKGEVLGDLVQLLET LKQEAATLAANN TQLQARVEMLETERGQQEAKLLAERGHFEEBKQQLSSLITDLQ
SSISNLSQAKEELEQASQAHGARLTAQVASLTSELTTLNATIQQQDQELAGLKQQAQKQQAQLAQT LQQQEASQ
GLRHQVEQLSSSLKQKEQQLKEVAEKQEATRQDHAQQ LATAAEEREASLRERDAALKQLEALEKEKA AKLEILQQ
QLQVANEARDSAQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAEELQLRSEQQKATEKERV AQEK
DQLQEQLQALKESLKVTKGSLEEEKRRAADALEEQQR CISELKAETRSLVEQHKRERKELEEEERAGRKGLEARLQ
QLGEAHQAETEVLRLRELAEAMAAQHTAESECEQLVKEVAAWRERYEDSQQEEAQYGAMFQEQLMTLKEECEKARQ
ELQEAKEKVAGIESHSELQISRQONELAE LHANLARA LQQVQEKEVRAQKLADDLSTLQEKMAATSKEVARLET L
VRKAGEQQETASREL VKEPARAGDRQPEWLEEQQGRQFCSTQAALQAMEREAEQMGNELERLRAALMESQGGQQE
ERGQQEREVARLTQERGRAQADLAEKAAAELEMRLQNALNEQ RVEFATLQEA LAHALTEKEGKDQELAKLRGL
EAAQIKELEELRQTVKQLKEQLAKKEKEHASGSGAQSEAAGRTEPTGPKLEALRAEVSKLEQQCQKQQEQADSLE
RSLEAERASRAERDSALET LQGQLEEK AQELGHSQSALASAQRELA AFRTKVQDH SKAEDEWKAQVARGRQEAER
KNSLISSLEEEVSILNRQVLEKEGESKELKRLVMAESEKSQKLEERLRL LQAETASNSARAAERSSALREEVQSL
REEAEKQRVASENLRQELTSQAERA EELGQELKAWQEKFFQKEQALSTLQLEHTSTQALVSELLPAKHLCCQLQA
EQAAAEKRHREELEQSKQAAGGLRAELLRAQREL GELIPLRQKVAEQERTAQQ LRAEKASYAEQLSMLKKAHGLL
AEENRGLGERANLGRQFLEVELDQAREKYVQELAAVRADAETRLAEVQREAQSTARELEVMTAKYEGAKVKVLEE
RQRFQEERQKLTAQVEQLEVFQREQTKQVEELS KKLADSDQASKVQQQKLKAVQAQGGESQQE AQRLQAQLNELQ
AQLSQKEQAAEHYKLQMEKAKTHYDAKKQONQELQEQLRSLEQLQKENKELRAEAERLGHELQQAGLKTKEAEQT
CRHLTAQVRSLEAQVAHADQQLRDLGKFQVATDALKSREPQAKPQLDLSIDSLDLSCEE GTPLSITSKLPRTQPD
GTSVPGE PASPISQRLPPKVESLES LYFTP IPARSQAPLESSLDSLGDVFLDSGRKTRSARRRTTQI INITMTKK
LDVEEPDSANSSFYSTRSAPASQASLRATSSTQSLARLGSPDYGNSALLSLPGYRPTTRSSARRSQAGVSSGAPP
GRNSFYMGTCQDEPEQLDDWNRIAE LQQRNRVCPPHLKT CYPLESRP SLSLGTITDEEMKTGDPQETLRRASMQP
IQIAEGTGITTRQQRKRVSL EPHQGPPTESKKATSCFPRPMTPRDRHEGRKQSTTEAQKKAAPASTKQADRRQS
MAFSILNTPKKLGNSLLRRGASKKALSKASPNTRS GTRRSPRIATTTASAATAAAIGATPRAKGKAKH

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FIGURE 3320

GGGGGGGAGCGGGGAAAACAAAAGGAGACGAAGGACGCATGCGTTTGGTGAGTCCCGGATTCTGGTGGGTTCTTC
CGCTCAGGCTGGGTGAAGCGCTTCCGGGTGCGCCGCCGGCAGCAGCCTCCCGGCGCGATGAAGACACTGAGGCTCA
GAGAGGTTAAGTGA CT CAGCCAAGGTCAAACAGCTAGTAAGTGGTGGAGCCAGGACTCAAAGCCAGTCTAGGAGC
CATGTCCACTTTGTTCCCTCACTCTTCCCTCGTGTGACTGAGACTCTGTGGTTTAAATCTGGATCGACCCTGTGT
GGAAGAGACAGAGCTGCAGCAGCAGGAACAGCAGCATCAGGCCTGGCTCCAAAGCATCGCGGAGAAAGACAACAA
CCTGGTTCCTATTGGCAAGCCAGCCTCAGAGCACTATGATGACGAGGAAGAAGAGGATGATGAAGATGATGAGGA
TAGTGAAGAGGACTCAGAGGATGATGAGGATATGCAGGACATGGACGAGATGAATGACTACAATGAGTCACCGGA
TGATGGAGAGGTCAATGAGGTGGACATGGAAGGCAACGAACAGGATCAGGACCAGTGGATGATC**TAG**GTAGACAA
GGCAGGGTGGCCTCAGGGAGATTCCAGGCCAGCCAAACTACCCTGCATCCCAACCCCCAACCCCTGCCCACAGA
ACCAGCTGATGGCCCCAGTGCCTGAAAGTGCCCTTGGGCACCTCCTCAGCTGCTGCCAGGATCTGGTCTCTTTGG
CCCCTCCCAGGCCATCAGTCTGCACTTGAAATCCCCAGGGCCTGAAACCTACTCCACCTTCTTGCCAGTACCTC
ACCCCTTGATTGCCAGGTCTGGTCTAAGTTTCTTTAATAAAGACAAAGGAGTGATTTTCAAAAAAAAAAAAAAAAAA
AA

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FIGURE 3321

MSTLFPSLFPRVTETLWFNLDRPCVEETELQQQEQQHQAWLQSI AEKDNNLVPIGKPASEHYDDEEEEDDED
SEEDSEDDMDQMDMNDYNESPDDGEVNEVDMEGNEQDQDQWMI

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FIGURE 3322A

CTGAGGCCGGCGCTGCAGGCAGCGGCGGCTGCGCGGTGAACGAGGCGGCCTGCGCGGCGGAGTGCTGAGTCCCGA
TCCCCGGCTCTGTCCGGGCCACGGATCCTCAAGCCCCGGGCCCCGGGCCCCAGCCTCAGCCCTGAGCGTCT
CGGGGCGGATGGCGCGGGGCGGCGGGGGCGGGCGGTGCTGAGCCCTGCGCGGGGCCATGGCCTCGGCCTGCGGGGC
GCCGGGCCCCGGGGGCGCCCTGGGCAGCCAGGCCCCCTCCTGGTACCACCGCGACCTGAGCCGGGCGGCCGCGGA
GGAGCTGCTGGCCCGGGCGGGCCGCGATGGCAGCTTCCTGGTCCGAGACAGCGAGAGCGTGCCGGGGGCCCTTCGC
GCTCTGCGTCTGTATCAGAAGCATGTGCACACGTATCGCATTCTGCCTGATGGAGAAGATTTCTTGCTGTGCA
GACCTCGCAGGGTGTGCCTGTGCGCCGCTTCAGACCCTGGGTGAGCTCATCGGCCTGTACGCCCAGCCCAACCA
GGGCCTTGTTGTGCGCCCTGCTTCTTCTGTAGAGGGTGAGCGAGAGCCGACCCACCGGATGACCGGGATGCCTC
AGATGGGGAGGATGAGAAGCCCCGCTGCCCCCGCGCTCTGGCTCCACCAGCATTTCTGCCCCACTGGGCCAG
CAGTCCCCTGCCAGCTCCTGAGACTCCACAGCTCCAGCTGCTGAGAGTGCTCCCAATGGGCTGAGCACCGTCTC
GCACGACTACCTGAAAGGCAGCTATGGGCTGGACCTGGAAGCTGTGAGGGGTGGAGCCAGCCACCTGCCCCACCT
CACCCGTACCTCGCTACCTCATGCCGAGGCTGCACAGTGAGGTGGACAAGGTCTGTGAGGCCTGGAGATCCT
GTCCAAGGTGTTTGACCAGCAGAGCTCGCCCATGGTGACCCGCTTTTGCAGCAGCAGAACCTGCCACAGACAGG
GGAGCAGGAAGTAGAGAGCCTGGTGCTGAAGCTGTCAGTGCTAAAGGACTTCCTGTGAGGCATCCAGAAGAAGGC
CCTGAAGGCCCTACAGGACATGAGCTCCACAGCACCCCCAGCTCCGCAGCCATCCACACGTAAGGCCAAGACCAT
CCCCGTGCAGGCCTTTGAGGTGAAGCTAGATGTGACCCTGGGTGACCTGACCAAGATTGGGAAGTCACAGAAGTT
CACGCTGAGCGTGGATGTGGAGGGTGGGCGGCTGGTGCTGCTGCGGAGACAGCGGGACTCCCAGGAGGACTGGAC
CACCTTCACGCACGACCGCATCCGCCAGCTCATTAAGTCCAGCGTGTCCAGAACAAGCTGGGTGTTGTGTTTGA
GAAGGAGAAGGACCGGACTCAGCGCAAGGACTTCATCTTTGTGAGTGCCTGGAAGCGGGAGGCCTTCTGCCAGCT
GTTGCAGCTCATGAAGAACAAGCACTCCAAGCAGGACGAGCCCGACATGATCTCAGTCTTCATAGGCACCTGGAA
CATGGGAAGTGTAACACCTCCAAAAACGTGACATCCTGGTTCACATCGAAGGGTCTGGGGAAAGACCTGGACGA
GGTCACAGTGACCATACCCCATGACATCTATGTCTTTGGGACCCAGGAGAACTCAGTGGGCGACCGCGAGTGGCT
GGACCTACTGCGCGGGGGCCTCAAGGAGCTTACGGATCTGGATTACCGCCGATTGCCATGCAATCACTGTGGAA
TATCAAGGTGGCAGTGCTGGTCAAGCCAGAGCAGAGAACCGTATCAGCCATGTGAGTACGTCCAGTGTGAAGAC
TGGCATCGCCAACACCTGGGGAACAAGGGGGCTGTGGGCGTCTCCTTCATGTTTAATGGCACCTCATTGCGCTT
TGTGAATTGTACCTCACCTCGGGAAATGAGAAGACGGCTCGGAGGAACCAAACTACTTGGACATCCTGCGGCT
GCTCTCGTGGGCGACCGGCAGCTCAATGCCTTTGACATCTCTCTGCGTTTCACACACCTCTTCTGGTTTGGGGA
CCTCAACTACCGCTGGACATGGATATCCAGGAGATCCTGAACTACATCAGCAGGAAAGAGTTTGAGCCCCCTCCT
CAGGGTGGACAGCTCAACCTGGAGCGGGAGAAGCACAAAGTCTTCTTCGATTTCAGTGAGGAGGAGATCTCCTT
CCCACCCACCTACCGCTATGAGCGGGGTTCCTGGGACACATATGCCTGGCACAAGCAGAAGCCAACTGGGGTCCG
GACCAATGTGCCCTCATGGTGTGACCGGATTCTGTGGAAATCCTACCCTGAACTCACATCATCTGCAATTCTTA
TGGTTGCACTGATGACATCGTCACCAGCGACCATTCCTGGTGGTGGGACATTTGAGGTTGGAGTTACCTCCCA
GTTTCATCTCCAAGAAAGGGCTCTCAAAGACTTCAGACCAGGCCTACATTGAGTTTGAGAGCATCGAGGCCATTGT
GAAGACAGCCAGCCGACCAAGTTCTTCATCGAGTTCTACTCTACCTGCCTGGAGGAATACAAGAAGAGCTTTGA
GAATGATGCCAGAGCAGTGACAACATCAACTTCTCAAAGTGCAGTGGTCTTCACGCCAGCTGCCACGCTCAA
ACCAATTCTGGCTGATATCGAGTACCTGCAGGACCAGCACCTCCTGCTCACAGTCAAGTCCATGGATGGCTATGA
ATCCTATGGGGAGTGTGTGGTTGCACTCAAAATCCATGATCGGCAGCACGGCCCAACAGTTCCTGACCTTCCTATC
CCACCGTGGCGAGGAGACAGGCAATATCAGAGGCTCCATGAAGGTGCGGGTGCCACGGAGCGCCTGGGCACCCG
TGAGCGGCTCTACGAGTGGATCAGCATTGATAAGGATGAGGCAGGAGCAAAGAGCAAAGCCCCCTCTGTGTCCCG
AGGGAGCCAGGAGCCAGGTGAGGGAGCCGCAAGCCAGCCTTCACAGAGGCCTCCTGCCCCGCTCTCCAGGTTATT
TGAAGAACCAGAGAAACCGCCACCAACGGGGAGGCCCCAGCCCCACCCCGAGCAGCTCCCCGGGAGGAGCCCTT
GACCCCCAGGTTGAAGCCAGAGGGAGCTCCTGAACCAGAAGGGGTGGCGGGCCCCCCCCACCCAAGAAGAGCTTCAA
TAACCTGCCTACTACGTCTTGAAGGGGTCCCGCACCAGCTGCTGCCCCGAGCCACCTCGCCTGCCAGGGC
CCCTGTCCCATCTGCCACCAAGAACAAGTGCCATTACAGTGCCTGCTCCACAGCTTGCGCACCACCGGCACCC
TCGTGTGGGAGAGGGGAGTTCTTCAGATGAGGAGTCTGGAGGCACACTGCCCCCTCCAGACTTTCACCTCCACC
ACTGCCGACTCAGCCATCTTCTGCCCCCAGCCTGGATCCTTTACCAGGGCCAGTGGTCCGGGGCCGTGGTGG
GGCTGAGGCCCGTGGCCACCACTCCCAAGGCCATCCAAGGCCTCCACTGCCCCAGGCCCTCACCAGCCAG
CACTTCTGGGGGAAGTGGGCAGTGGGGATGACCGGTCTGCTCGGTGCTGCAGATGGCCAAGACGCTGAGCGA

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FIGURE 3322B

GGTGGACTATGCCCCTGCTGGGCCTGCACGCTCAGCGCTCCTCCCAGGCCCCCTGGAGCTGCAGCCCCCGGGG
ACTGCCCTCGGACTATGGCCGGCCCCCTCAGCTTCCCTCCACCCCGCATCCGGGAGAGCATCCAGGAAGACCTGGC
AGAGGAGGCTCCGTGCCTGCAGGGCGGGCGGGCCAGCGGGCTGGGCGAGGCAGGCATGAGTGCCTGGCTGCGGGC
CATCGGCTTGGAGCGCTATGAGGAGGGCCTGGTGCATAATGGCTGGGACGACCTGGAGTTTCTCAGTGACATCAC
CGAGGAGGACTTGGAGGAGGCTGGGGTGCAGGACCCGGCTCACAAGCGCCTCCTTCTGGACACCCTGCAGCTCAG
CAAGTGA TAGCGGAGGCACCACGAAGCTGTGAACTCAGAGCCCCCTCCCTGCTACCAAGGCCCAGCTATGGCCCCA
GGGTTGAAAAGTTATGAGGGTCAGGGCAGTATCTCTCTGCCTATTTATTGGGGTGCCTATTTATTGGGGATCTGC
ATTCCCCGCTGCCCAATCATTGCAATGCCCTAATTAGGGCATCCTGCCCTCGCCTTTTAGGCTCAGGACGGAA
GGTCAGTTGCCATGGTTACCGAGGACCCTGGTTACTCTGGTGCTGTCTGTTTTACTGGACCCCGCCTCCCAGCC
CCAGGGGTGCCTGTGGGGGTCCATTTGGGTACGTCTGGGCCCCCACTTTCACCAGTTTCTGCGGCCTTCCACCGG
GCCTGAACCACAGCGGAGGAGCTCCGCTAAGACCTCCCCACCCCGCTGGGGGTGGGGGCGGGTGTCCGTCCGGA
AATGAAGGAATAGCCCGAGGACCGGGCTGGGGTTTATTTAAACTGTTCTGTGTGGGTCTGGGGAGGGAGAGCACC
TTAATATTATTGGGGTTGGTTGGGGTGGGGCAGGATCTCAGCCATAAAGTGCCAGTTTGTCTAGTTCTCACTGTC
TCCTGGTCTGTGCTGCCCTGCTCTGGGGATGCACGGCGGCAGGGTGGGGGAGGGAGGTTTCTCGCAGGTCTCAGC
CCGGGACAGGGTCTTGCAAGCAGCCTCCTGGGCAGTCGTAAGGGTTGCGGCGTGATGTCTTCAATAAATTAAGTT
TTATTTGGAAAA

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FIGURE 3323

MASACGAPGPGGALGSQAPSWYHRDLSRAAAEELLARAGRDGSFLVRDSESVAGAFALCVLYQKHVHTYRILPDG
EDFLAVQTSQGVPVRRFQTLGELIGLYAQPNQGLVCALLLPVEGEREPDPPDDRDSASDGEDEKPPLPPRSGSTSI
SAPTGPSSPLPAPETPTAPAAESAPNGLSTVSHDYLKGSYGLDLEAVRGGASHLPHLTRTLATSCRRLHSEVDKV
LSGLEILSKVFDQQSSPMVTRLLQQQNLPQTGEQELESVLKLSVLKDFLSGIQKKALKALQDMSSTAPPAPQPS
TRKAKTIPVQAFEVKLDVTLGDLTKIGKSQKFTLSVDVEGGRLVLLRRQRDSQEDWTTFTHDIRQLIKSQRVQN
KLGVVFEKEKDRTQRKDFIFVSARKREAFQQLQLMKNKHSKQDEPDMISVF IG TWNMGSVPPPKNVTSWFTSKG
LGKTLDEVTVTIPHDIYVFGTQENSVGDREWLDLLRGGLKELTDLDYRPIAMQSLWNIKVAVLVKPEHENRISHV
STSSVKTGIANTLGNKGAVGVSFMFNGTSFGFVNCHLTSGNEKTARRNQNYLDILRLLSLGDRQLNAFDISLRFT
HLFWFGDLNYRLDMDIQEILNYISRKEFEPLLRVDQLNLEREKHKVFLRFSEEEISFPPTYRYERGSRDITYAWHK
QKPTGVRTNVPSWCDRILWKSYPETHIICNSYGCTDDIVTSDHSPVFGTFEFGVTSQFISKKGLSKTSDQAYIEF
ESIEAIVKTASRTKFFIEFYSTCLEEYKKSFENDAQSSDNINFLKVQWSSRQLPTLKPILADIEYLQDQHLLLT
KSMDGYESYGECVVALKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTERLGTRERLYEWISIDKDEAGAKS
KAPSVSRGSQEPRSGSRKPAFTEASCP LSRLFEEPEKPPPTGRPPAPPRAAPREEPLTPRLKPEGAPEPEGVAAP
PPKNSFNNPAYYVLEGVPHQLLPPEPPSPARAPVPSATKNKVAITVPAPQLGHHRHPRVGE GSSSDEESGGTLPP
PDFPPPPLPDSAI FLPPSLDPLPGPVVRGRGGA EARGPPPPKAHPRPPLPPGPSPASTFLGEVGS GDDRSCSVLQ
MAKTLSEVDYAPAGPARSALLPGPLELQPPRGLPSDYGRPLSFPPPRIRESIQEDLAE EAPCLQGGRASGLGEAG
MSAWLRAIGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDPAHKRLLLDTLQLSK

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FIGURE 3324

CTTGCGTTGCACCCGGGCTGAGTGCGGCCGCGACGGGGCGGGCGGACTCTCGGGCGCTCAGAGCTGGCCTCGGGT
CCTCGGAGCCTGGCGCTCGAACCTCCCTTCCGACCTCCACCCGGACCCCGACCCGACCCGGCCTGGCCCGGGCC
CCGCCCCCGCCCCCGGGCCGATGGACTACTCTACCTCAATTCGTACGACTCGTGCGTGGCGGCCATGGAGGCG
TCCGCCTACGGCGACTTTGGCGCCTGCAGCCAGCCGGCGGCTTCCAATACAGCCCCCTGCGGCCCGCTTTCCCC
GCGGCAGGGCCGCCCTGCCCCGCGCTCGGCTCCTCCAAGTGCACACTTGGCGCCCTACGCGACCACCAGCCCGCG
CCCTACTCGGCAGTGCCCTACAAGTTCTTCCCAGAGCCATCCGGCCTGCACGAGAAGCGCAAGCAGCGGCGCATC
CGCACCACGTTACCAGCGCGCAGCTCAAGGAGCTGGAGCGCGTTTTTCGCTGAGACCCACTACCCCGACATTTAC
ACGCGTGAGGAGCTGGCGCTCAAGATCGACCTCACTGAGGCTCGCGTGCAGGTCTGGTTCCAGAACC GCCGGGCC
AAGTTCCGCAAACAGGAGCGCGCGGCCAGCGCCAAGGGCGCGGCGGGCGCGGCGGGCGCCAAAAAGGGCGAGGCG
CGCTGCTCCTCCGAGGACGACGATTCCAAGGAGTCCACGTGCAGCCCCACGCCCCGATAGCACC GCCTCGCTGCCG
CCGCCGCCTGCGCCCGGCCTGGCCAGCCCGCGCCTGAGCCCCAGCCCGCTGCCCCGTCGCACTGGGCTCCGGGCCG
GGACCTGGGCCGGGGCCACAGCCGCTCAAGGGCGCACTGTGGGCCGGTGTGGCGGGCGGTGGGGGCGGCGGGCCT
GGCGCGGGAGCGGCCGAAGTACTTAAGGCTTGGCAGCCGGCGGAGTCCGGCCCCGGGCCCTTCTCCGGGGTTCTG
TCCTCCTTTCACCGGAAGCCCGGCCCGCCCTGAAGACCAATCTCTTCTAG

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FIGURE 3325

GATAACAAGACCTCTGCCAGAAGAACCATGGCTTTGGAAGGCGGAGTTT CAGGCTGAGGAGATGGGTGCGGTCCTC
AGTGAGCCCCCTGCCTCCCTGAACATAGGAAACCCACCTGGGCAGCCATGGAATGGGACAATGGCACAGGCCAGGC
TCTGGGCTTGCCACCCACCACCTGTGTCTACCGCGAGAACTTCAAGCAACTGCTGCTGCCACCTGTGTATTTCGGC
GGTGCTGGCGGCTGGCCTGCCGCTGAACATCTGTGTTCATTACCCAGATCTGCACGTCCCGCCGGGCCCTGACCCG
CACGGCCGTGTACACCCTAAACCTTGCTCTGGCTGACCTGCTATATGCCTGCTCCCTGCCCCCTGCTCATCTACAA
CTATGCCCCAAGGTGATCACTGGCCCTTTGGCGACTTCGCCTGCCGCCTGGTCCGCTTCCTCTTCTATGCCAACCT
GCACGGCAGCATCCTCTTCCTCACCTGCATCAGCTTCCAGCGCTACCTGGGCATCTGCCACCCGCTGGCCCCCTG
GCACAAACGTGGGGGCGCCGGGCTGCCTGGCTAGTGTGTGTAGCCGTGTGGCTGGCCGTGACAACCCAGTGCCT
GCCCACAGCCATCTTCGCTGCCACAGGCATCCAGCGTAACCGCACTGTCTGCTATGACCTCAGCCCGCCTGCCCT
GGCCACCCACTATATGCCCTATGGCATGGCTCTCACTGTCTCGGCTTCCTGCTGCCCTTTGCTGCCCTGCTGGC
CTGCTACTGTCTCCTGGCCTGCCGCCTGTGCCGCCAGGATGGCCCGGCAGAGCCTGTGGCCAGGAGCGGCGTGG
CAAGGCGGCCCCGCATGGCCGTGGTGGTGGCTGCTGCCTTTGCCATCAGCTTCCTGCCTTTTCACATCACCAAGAC
AGCCTACCTGGCAGTGCCTCGACGCCGGGCGTCCCCTGCACTGTATTGGAGGCCTTTGCAGCGGCCTACAAAGG
CACGCGGCCGTTTGGCAGTGCCAACAGCGTGCTGGACCCCATCCTCTTCTACTTACCCAGAAGAAGTTCCGCCG
GCGACCACATGAGCTCCTACAGAAACTCACAGCCAAATGGCAGAGGCAGGGTCGCTGAGTCCTCCAGGTCCTGGG
CAGCCTTCATATTTGCCATTGTGTCCGGGGCACCAGGAGCCCCACCAACCCCAAACCATGCGGAGAATTAGAGTT
CAGCTCAGCTGGGCATGGAGTTAAGATCCCTCACAGGACCCAGAAGCTCACCAAAAACCTATTTCTTCAGCCCCTT
CTCTGGCCCAGACCCTGTGGGCATGGAGATGGACAGACCTGGGCCTGGCTCTTGAGAGGTCCCAGTCAGCCATGG
AGAGCTGGGGAAACCACATTAAGGTGCTCACAAAATACAGTGTGACGTGTACTGTCA

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FIGURE 3326

CGCGTCCTGTCCCGGCGCCTTCCGCGCACCGGCCACCGCCAGTCTCCGAGCCCCGTGACCTGCAGGTCTCCGGC
CGCGACTCCGGGCGCGCCCTGCGTGGTGGCTGTCGGGGGGCGCGCGGGGAAGCAGCGGAACCTTGCGGTGTGAGGG
GCCGGCGGGGCGCGGAGCGGTCCCCGGCCCCGGGAACTTGACCGAGACCAGGCCGGCGACCAACAGGGGCGCTGA
GGATGAAAGCCAAGTCTGCTGTGCCGGCCCCCTGTCTGCTTCTTATGCTGCTGCCCTGGCCTCTCGCCACCCTGA
CATCAACAACCTTTTGGCAGTGGCCACCTGGGGAGGAGCCCGACCTGGACCCAGGGCAGGGGCACATTATGCAGGC
CCTGCCCCCAGGCACCTTCTCAGCTGCATGGGGCTCCAGCCCATGCCAGCCCCATGCCCCGTTGCAGCCTTTGGA
GGAGGCTGGAGGCCAGGTGGGCATGGCAACTCGAGATACTCTGTGGAGACTGCTGGCCTGGGTGGTTTGGGC
CTTGGGGGGTTCCCCGCGTTCCATGTCAACCATGTTCTGGGCACCTCTGGGTACTCATGGCTGTGATGAGTGGG
GGCGGCGGGGCGGACGTGGCGTGGAGGTGGCAGCAGGGGCCAGCAGCGGTGGTGAGACACGGCAGCCTGGGAACG
GCACCCGGGCAGGTGGCCAGAGGAGACAGCCGCCAGTACGCGGTCTATCGCCATCGTCCCTGTCTTCTGCCTCA
TGGGGCTGTTGGGCATCCTGGTGTGCAACCTCCTCAAGCGGAAGGGCTACCACTGCACGGCGCACAAAGGAGGTCTG
GGCCCGGCCCTGGAGGTGGAGGCAGTGGAAATCAACCTGCCTACCGGACTGAGGATGCCAATGAGGACACCATTG
GGGTCTGGTGCCTTGATCACAGAGAAGAAAGAGAATGCTGCGGCCCTGGAGGAGCTGCTGAAAGAGTACCACA
GCAAACAGCTGGTGCAGACGAGCCACAGGCCTGTGTCCAAGCTGCCGCCAGCGCCCCCGAACGTGCCACACATCT
GCCCGCACCGCCACCATCTCCACACCGTGCAGGGCCCTGGCCTCGCTCTCTGGCCCCCTGCTGCTCCCGCTGTAGCC
AGAAGAAGTGGCCGAGGTGCTGCTGTCCCTGAGGCTGTAGCCGCCACTACTCCTGTTCCCAGCCTTCTGCCTA
ACCCGACCAGGGTTCCCAAGGCCGGGGCCAAGGCAGGGCGTCAGGGCGAGATCACCATCTTGTCTGTGGGCAGGT
TCCGCGTGGCTCGAATTCTGAGCAGCGGACAAGTTCAATGGTGTCTGAGGTGAAGACCATCACGGAGGCTGGGC
CCTCGTGGGGTGATCTCCCTGACTCCCCACAGCCTGGCCTCCCCCTGAGCAGCAGGCCCTGCTAGGAAGTGGCG
GAAGCCGTACAAAGTGGCTGAAGCCCCAGCAGAGAACAAGGCCGAGGAGAACCCTATGTGGTCCGGCTAAGTG
AGAGCAACCTGGTCATCTTGAGGGGCGGTCTAGTCTAAGGACACTGCGGCCCTGCCCTGGGAGGTTCCGAAGGCTT
CCTGGAGGAGGTGGAGCTGCAGCTGGGACTGTGAGGACCGAGAAGCAATGGCCCAGCAGACGAGACAGCAAAGAC
CAAGGCCTGGAGGTGGGAGCGTCTGCCCCAGTGAGGAGGCAGGTGGCCGGCGGGCACTGTGTACAGGAGCAGGCT
GAGCCCCGCCCTGGCCCTGCTGCCATGTTGCTCCCCTGAAGGATGCCCCGACCCCCGTGCCCTGCCCTGGCTGGA
TCCTAGGAGCCACGGGATTCTCTGTATCATCAGAGGCTGGGCTTGGCAGAGGGGAGGGGCTGTGCCCGTACC
CCTGGCCCCATTCTTGGTAATTAGCCACACCTTGCCTCTKTACAGGGCCCTAAGARCAGATGKCGTYCCCT
CCTYTTYCAGCAGGTCTATAAAGGGAAAGGGGTAGCAGAAAAGTCCTGGGCTARGAGAGTGAGTCCCTGGGTCT
AATCTTGGGCACATCTGTGSCCATCRCTGGGTCCATTTTTCTSACTGTGAAGTAAGGAGAGAMGTCTCAGTACCC
AGGGCCTCTTCAGCTCTTTGTAGGTTCTGGGCTGGGTTGTGGGGACTGGGGAGCTGGGCTTCTACCAATCCCCT
CCCCAATTAGTAGCTTTTATCCCAGCCCCGTTTTTTGCTGCTTTCCAGGGCCTTCTGCCTTCAAGGCCCCCATG
GGCTTGTCCCATCCATGGCTCTGCCTACGGAAGGGGCTTAATGCATGTGCCTGCCCTCCCCCAGCTGTTTTTA
ATGAACTGAAAAAATAGACTTGATCCCGGCAGGACTGTGATACAGAGCCCTAGCCCTGCCAGCCAGCCCCAA
GATCTCAGGAGCTTTAGGGAGAAGACTTGGTGGGGCTGGAGCACACCTTGGGCCTTCAGTGGTTTCTGTGTCCCT
GTGGTGCCAGTGCTTCTGGGCAGTGCAGGCGGCTGCCAGGCCAGCCCTGACTTCCACTCTGGCTCAGCAACCTG
GTTATTTATGTGGGGCCGTGCAGGCATGGGCCCCTGCCTGTCCATCCTGTTTCTTATTTATTGAACTCACC
ATTGCCCTATCCTTGTGTCTCCACCCCCCTCCATGTGTTGAATAATAAAAGGTGGGAAAGTGCAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3327

MKPSLLCRPLSCFLMLLPWPLATLTSTTLWQCPPGEEPDLDPGQGTLCRPCPPGTFSAAWGSSPCQPHARCSLWR
RLEAQVGMATRDITLCGDCWPGWFGPWGVPRVPCQPCSWAPLGTHGCDEWGRRARRGVEVAAGASSGGETRQPGNG
TRAGGPEETAQAQYAVIAIVPVFCLMGLLGILVCNLLKRKGYHCTAHKEVGP GPGGGGSGINPAYRTEDANEDTIG
VLVRLITEKKENAAALEELLKEYHSKQLVQTSHRPVSKLPAPPNPVPHICPHRHHHLHTVQGLASLSGPCCSRCSQ
KKWPEVLLSPEAVAATTPVPSLLPNPTRVPKAGAKAGRQGEITILSVGRFRVARIQRTSSMVSEVKTITEAGP
SWGDLPDSPQPGLPPEQQALLGSGGSRTKWLKPPAENKAEENRYVVRLSESNLVI

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FIGURE 3328

CTTTCCTCCTGCCGCCGAGTCGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAGATTCAGGTTCAACCGTAACCCA
CTGCCATGGCCGAGGAAGGCATTGCTGCTGGAGGTGTAATGGAGGTTAATACTGCTTTACAAGAGGTGCTGAAGA
CCGCCCTCATCCACGATGGCCTAGCACGTGGAATTCGCGAAGCTGCCAAAGTCTTAGACAAGCGCCAAGCCCATC
TTTGTGTGCTTGCACTCACTGTGATGAGCCTATGTATGTCAAGTTGGTGGAGGCCCTTTGTGCTGAACACCAAA
TCAACCTAATTAAGGTTGATGACAACAAGAACTAGGAGAATGGGTAGGCCTCIGTAAAATTGACAGAGAGGGGA
AACCCCATAAAGTGGTTGGTTACAGTTGTGTAGTAGTTAAGGACTATGGCAAGGAGTCTCAGGCCAAGGATGTCA
TCGAAGAGTATTTCAAATGCAAGAAATGAAGAAATAAATCTTTGGCTCAC

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FIGURE 3329

GGCGGCGGCAGCTGTACAGGGCGGGAGAAGCGGTGGTAGCGGAGGCTGTAGTGGGGCTGGTGGTGCTTCCAAC TG
CGGGACAGGAAGTGGCCGTAGCGGCTTGTTGGATAAGTGGAAGATAGATGATAAGCCTGTAAAAATTGACAAGTG
GGATGGATCAGCTGTGAAAACTCTTTGGATGATTCTGCCAAAAAGGTACTTCTGGAAAAATACAAATATGTGGA
GAATTTTGGTCTAATTGATGGTCGCCTCACCATCTGTACAATCTCCTGTTTCTTTGCCATAGTGGCTTTGATTTG
GGATTAT**ATG**CACCCCTTTCCAGAGTCCAAACCCGTTTTGGCTTTGTGTGTCATATCCTATTTTGTGATGATGGG
GATTCTGACCATTTATACCTCATATAAGGAGAAGAGCATCTTTCTCGTGGCCACAGGAAAGATCCTACAGGAAT
GGATCCTGATGATATTTGGCAGCTGTCCTCCAGTCTTAAAAGGTTTGATGACAAATACACCTTGAAGCTGACCTT
CATCAGTGGGAGAACAAAGCAGCAGCGGGAAGCCGAGTTCACAAAGTCCATTGCTAAGTTTTTTGACCACAGTGG
GACACTGGTCATGGATGCATATGAGCCTGAAATATCCAGGCTCCATGACAGTCTTGCCATAGAAAGAAAAATAAA
G**TAG**CCAATTCTAAAAGTAGCCCTCTTTCTCCTGGATCTTGCTGAATTAGTGGCTTGGGGGTGGGGGAGATAAA
AAGAACTTAAAAATGGGTAAAGTAAGAAATGTTAAAAAGTCCCTGTTTTGTCCTGAAATTTTAGTCTATTCTGGGT
AAATAGGATTTTCTGACACAGATATGAGAAGTTGTAGCTCTGATGTCTAGCTGTAGTCTCCTTGATCTGCTGATT
GCATTATTTTAATTTGCTTTTCTGGGAAAGCAGTTTTGCTAAAAGCTGTACAGACTTTTTCTTTTGTACCTAGCA
GTACTTTATATAGTATAGCTTTGGGCCATGTAGCATTTTAAGACTCAATTTTAAAAAATTATTAATCTGTTGCTG
ACTCTTAATTCCTATTTCAATATGTGTTTCCTTGAAGAATTCAGGATACAACCTTCTTGTGTATGACAGCTTTTCCT
TCACACACTATTTTTGTGGGTGTGTATATCTGATTTGGGAAGAATTTAAAAAACACATAGCTTTTTAATTTGT
TTGAAACAGACTTTCTGCCTGTTACATTTTGTCTTTTAACCAATTAAAGAAGCCAATGGCATTTTAGTTTTATAT
TGTGTTTTCCACTAGTATATCCCTGTTGATTTGTTTGTGCCTTTTATTAAGTCCATTTTCTAAAATTTTTTTCA
ATAAAAGGAAGGAAGATGTG

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FIGURE 3330

MHPFPESKPV LALCVISYFVMMGILTIYTSYKEKSIFLVAHRKDEPTGMDPDDIWQLSSSLKRFDDKYTLKLTFIS
GRTKQQREAEFTKSIKFFDHSGTLVMDAYEPEISRLHDSLAIERKIK

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FIGURE 3331

GCGGAGCGCGGCGGCAAGATGGCAGTGCAAATATCCAAGAAGAGGAAGTTTGTGCTGATGGCATCTTCAAAGCT
GAACTGAATGAGTTTCTTACTCGGGAGCTGGCTGAAGATGGCTACTCTGGAGTTGAGGTGCGAGTTACACCAACC
AGGACAGAAATCATTATCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAAGGGCCGGCGGATTCGGGAAGT
ACTGCTGTAGTTCAGAAGAGGTTTGGCTTTCCAGAGGGCAGTGTTAGAGCTTTATGCTGAAAAGGTGGCCACTAGA
GGTCTGTGTGCCATTGCCCAGGCAGAGTCTCTGCGTTACAACTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGC
TATGGTGTGCTGCGGTTTCATCATGGAGAGTGGGGCCAAAGGCTGCGAGGTTGTGGTGTCTGGGAACTCCGAGGA
CAGAGGGCTAAATCCATGAAGTTTGTGGATGGCCTGATGATCCACAGCGGAGACCCTGTAACTACTACGTTGAC
ACTGCTGTGCGCCACGTGTTGCTCAGACAGGGTGTGCTGGGCATCAAGGTGAAGATCATGCTGCCCTGGGACCCA
ACTGGTAAGATTGGCCCTAAGAAGCCCCTGCCTGACCACGTGAGCATTGTGGAACCCAAAGATGAGATACTGCCC
ACCACCCCCATCTCAGAACAGAAGGGTGGGAAGCCAGAGCCGCCTGCCATGCCCCAGCCAGTCCCCACAGCATAA

CAGGGTCTCCTTGGCAGCTGTATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTTAATAAAATTTGTACAAA
GACAAAAAAAAAAAAAAAAA

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FIGURE 3332

MAVQISKRRKFVADGIFKAELNEFLTRELAEDGYSGVEVRVTPTRTEIIILATRTQNVLGEKGRRIRELTAVVQK
RFGFPEGSVELYAEKVATRGLCAIAQAESLRYKLLGGLAVRRACYGVLRFIMESGAKGCEVVVSGKLRGQRAKSM
KFVDGLMIHSGDPVNYVDTAVRHVLLRQGVLGIVKIMLPWDPTGKIGPKKPLPDHVSIVEPKDEILPTTPISE
QKGGKPEPPAMPQFVPTA

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FIGURE 3333

GTCGCGGCTCGAGAGCGAGAGTCACGTCCCGGCGCTAGCCCAGCCCGACCCAGGCCACCGTGGTGCACGCAAAC
CACTTCCTGGCCATGCGCTCCCTCCTGCTTCTCAGCGCCTTCTGCCTCCTGGAGGCGGCCCTGGCCGCCGAGGTG
AAGAAACCTGCAGCCGCAGCAGCTCCTGGCACTGCGGAGAAGTTGAGCCCCAAGGCGGCCACGCTTGCCGAGCGC
AGCGCCGCGCTGGCCTTCAGCTTGTACCAGGCCATGGCCAAGGACCAGGCAGTGAGAAACATCCTGGTGTACCC
GTGGTGGTGGCCTCGTCGCTGGGGCTCGTGTGCTGGGCGGCAAGGCGACCACGGCGTCGCAGGCCAAGGCAGTG
CTGAGCGCCGAGCAGCTGCGCGACGAGGAGGTGCACGCCGGCCTGGGCGAGCTGCTGCGCTCACTCAGCAACTCC
ACGGCGCGCAACGTGACCTGGAAGCTGGGCAGCCGACTGTACGGACCCAGCTCAGTGAGCTTCGCTGATGACTTC
GTGCGCAGCAGCAAGCAGCACTACAACCTGCGAGCACTCCAAGATCAACTTCCGCGACAAGCGCAGGCCGCTGCAG
TCCATCAACGAGTGGGCCGCGCAGACCACCGACGGCAAGCTGCCCCGAGGTCACCAAGGACGTGGAGCGCACGGAC
GGCGCCCTGTTAGTCAACGCCATGTTCTTCAAGCCACACTGGGATGAGAAATTCCACCACAAGATGGTGGACAAC
CGTGGCTTCATGGTGA CTGGTCCTATACCGTGGGTGTCATGATGATGCACCGGACAGGCCTCTACAAC TACTAC
GACGACGAGAAGGAAAAGCTGCAAATCGTGGAGATGCCCCTGCCCAAGCTCTCCAGCCTCATCATCCTCATG
CCCCATCACGTGGAGCCTCTCGAGCGCCTTGAAAAGCTGCTAACC AAAGAGCAGCTGAAGATCTGGATGGGGAAG
ATGCAGAAGAAGGCTGTTGCCATCTCCTTGCCCAAGGGTGTTGGTGGAGGTGACCCATGACCTGCAGAAACACCTG
GCTGGGCTGGGCCTGACTGAGGCCATTGACAAGAACAAGGCCGACTTGTCACGCATGTCAGGCAAGAAGGACCTG
TACCTGGCCAGCGTGTTCACGCCACCGCCTTTGAGTTGGACACAGATGGCAACCCCTTTGACCAGGACATCTAC
GGGCGCGAGGAGCTGCGCAGCCCCAAGCTGTTCTACGCCGACCACCCCTTCATCTTCTAGTGCGGGACACCCAA
AGCGGCTCCCTGCTATTTCATTGGGCGCCTGGTCCGGCCTAAGGGTGACAAGATGCGAGACGAGTTATAGGGCCTC
AGGGTGACACACAGGATGGCAGGAGGCATCCAAAGGCTCCTGAGACACATGGGTGCTATTGGGGTTGGGGGGGAGG
TGAGGTACCAGCCTTGATACTCCATGGGGTGGGGGTGAAAAGCAGACCGGGGTTCCCGTGTGCTGAGCGGAC
CTTCCCAGCTAGAATTCACTCCACTTGGACATGGGCCCCAGATACCATGATGCTGAGCCCCGAAACTCCACATCC
TGTGGGACCTGGGCCATAGTCATTCTGCCTGCCCTGAAAGTCCCAGATCAAGCCTGCCTCAATCAGTATTCATAT
TTATAGCCAGGTACCTTCTCACCTGTGAGACCAAATTGAGCTAGGGGGTTCAGCCAGCCCTCTTCTGACACTAAA
ACACCTCAGCTGCCTCCCCAGCTCTATCCCAACCTCTCCCAACTATAAACTAGGTGCTGCAGCCCTGGGACCA
GGCACCCCCAGAATGACCTGGCCGCGAGTGAGGCGGATTGAGAAGGAGCTCCAGGAGGGGCTTCTGGGCAGACTC
TGGTCAAGAAGCATCGTGTCTGGCGTTGTGGGGATGAACTTTTTGTTTTGTTTCTTCTTTTTTAGTTCTTCAA
GATAGGGAGGGAAGGGGAACATGAGCCTTTGTTGCTATCAATCCAAGAACTTATTTGTACATTTTTTTTTTCAA
TAAACTTTTCCAATGACATTT

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FIGURE 3334

MRSLLLLSAFCLLEAALAAEVKKPAAAAAPGTAEKLSPKAATLAERSAGLAFSLYQAMAKDQAVENILVSPVVVA
SSLGLVSLGGKATTASQAKAVLSAEQLRDEEVHAGLGELLRSLSNSTARNVTWKLGSRLYGPSSVSFADDFVRSS
KQHYNCEHSKINFRDKRRPLQSINEWAAQTTDGKLPEVTKDVERTDGALLVNAMEFFKPHWDEKFHHKMVDNRGFM
VTRSYTVGVMMHRTGLYNYDDDEKEKLQIVEMPLAHKLSSLIILMPHHVEPLERLEKLLTKEQLKIWMGKMQKK
AVAISLPKGVVEVTHDLQKHLAGLGLTEAIDKNKADLSRMSGKKDLYLASVFHATAFELDTDGNPFDQDIYGREE
LRSPKLFYADHPFIFLVRDTQSGSLLFIGRLVRPKGDKMRDEL

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FIGURE 3335A

TTGATTTGGTATAGTGGGAACATTTGCTTTGGAGACAGATGAACTGGATTCTGATCGTGACCCTGCTATTTTCTC
CTTGTGTGACTTTGGAGCCATGAGACCCCAGATCCTGCTGCTCCTGGCCCTGCTGACCCTAGGCCTGGCTGCACA
ACACCAAGACAAAGTGCCCTGTAAGATGGTGGACAAGAAGGTCTCGTGCCAGGTTCTGGGCCTGCTCCAGGTCCC
CTCGGTGCTCCCGCCAGACACTGAGACCCTTGATCTATCTGGGAACCAGCTGCGGAGTATCCTGGCCTCACCCCT
GGGCTTCTACACAGCACTTCGTACCTGGACCTGAGCACCAATGAGATCAGCTTCCCTCCAGCCAGGAGCCTTCCA
GGCCCTGACCACCTGGAGCACCTCAGCCTGGCTCACAACCGCTGGCGATGGCCACTGCGCTGAGTGCTGGTGG
CCTGGGCCCCCTGCCACGCGTGACCTCCCTGGACCTGTCTGGGAACAGCCTGTACAGCGGCCTGCTGGAGCGGCT
GCTGGGGGAGGCACCCAGCCTGCATACCCTCTCACTGGCGGAGAACAGTCTGACTCGCCTCACCCGCCACACCTT
CCGGGACATGCCTGCGCTGGAGCAGCTTGACCTGCATAGCAACGTGCTGATGGACATCGAGGATGGCGCCTTCGA
GGGTCTGCCCCGCCTGACCCATCTCAACCTCTCCAGGAATTCCCTCACCTGCATCTCCGACTTCAGCCTCCAGCA
GCTGCGGGTGCTAGACCTGAGCTGCAACAGCATCGAGGCCTTTCAGACGGCCTCCCAGCCCCAGGCTGAGTTCCA
GCTCACCTGGCTTGACCTGCGGGAGAACAACTGCTCCATTTCCCGACCTGGCCGCGCTCCCGAGACTCATCTA
CCTGAACTTGTCCAACAACCTCATCCGGCTCCCCACAGGGCCACCCAGGACAGCAAGGGCATCCACGCACCTTC
CGAGGGCTGGTCAGCCCTGCCCCCTCTCAGCCCCCAGCGGGAATGCCAGCGGCCGCCCCCTTTCCAGCTCTTGAA
TCTGGATTGAGCTACAATGAGATTGAGCTCATCCCCGACAGCTTTCTTGAGCACCTGACCTCCCTGTGCTTCCT
GAACCTCAGCAGAACTGCTTGCGGACCTTTGAGGCCCGGCGCTTAGGCTCCCTGCCCTGCCTGATGCTCCTTGA
CTTAAGCCACAATGCCCTGGAGACACTGGAACCTGGGCGCCAGAGCCCTGGGGTCTCTGCGGACGCTGCTCCTACA
GGGCAATGCCCTGCGGGACCTGCCCCCATAACCTTTGCCAATCTGGCCAGCCTGCAGCGGCTCAACCTGCAGGG
GAACCGAGTCAGCCCCCTGTGGGGGGCCAGATGAGCCTGGCCCCCTCCGGCTGTGTGGCCTTCTCCGGCATCACCTC
CCTCCGCAGCCTGAGCCTGGTGGATAATGAGATAGAGCTGCTCAGGGCAGGGGCCTTCCCTCCACACCCCACTGAC
TGAGCTGGACCTTTCTTCCAATCCTGGGCTGGAGGTGGCCACGGGGGCCTTGGGAGGCCTGGAGGCCTCCTTGGA
GGTCTGGCACTGCAGGGCAACGGGCTGATGGTCTGTCAGGTGGACCTGCCCTGCTTCATCTGCCTCAAGCGGCT
CAATCTTGCCGAGAACCGCCTGAGCCACCTTCCCGCCTGGACACAGGCTGTGTCACTGGAGGTGCTGGACCTGCG
AAACAACAGCTTCAGCCTCCTGCCAGGCAGTGCCATGGGTGGCCTGGAGACCAGCCTCCGGCGCCTCTACCTGCA
GGGGAATCCACTCAGCTGCTGCGGCAATGGCTGGCTGGCAGCCCAGCTGCACCAGGGCCGTGTGGACGTGGACGC
CACCCAGGACCTGATCTGCCGCTTCAGCTCCCAGGAGGAGGTGTCCCTGAGCCACGTGCGTCTGAGGACTGTGA
GAAGGGGGGACTGAAGAACATCAACCTCATCATCCTCACCTTCATACTGGTCTCTGCCATCCTCCTCACCAC
GCTGGCCGCTGCTGCTGCGTCCGCCGGCAGAAGTTTAAACCAACAGTATAAAGCCTAAAGAAGCCGGGAGACACT
CTAGGTCACTGGGGGAGCCTGAGGTACAGAGAAGAGTGAGGACTGACTCAAGGTACACAGTGATCCGGGATCCC
AGAACTCTGGTCTCCAAATTACAGCCCAGGACACCTTTCTCTGCCGCTGCTGCATCAGTGGGTGACCCCTTCC
CGGGCTGCACCTTGGGTCCAGCTGTGGAAGCCAGAAGTTGGGCGGTTTCAGGGACAGCCGAGAATAATGTTGACC
TGTCAGATCAACAAATCTTCACTGAGCATGTATTTTGTGCCACACCCTGCTCTGGGCACTGGGAATGCTGGGAAA
TGAGATACATTTCCCGCCCTCAAGAATCTCCAGTCTGGTAGGAGAGAGTGCTGCAGAGCCACGTGGCCGCCACGC
AGTGTGCTTAGGGCCTGAGGTGTGAAAGCCCAGGGCTCCAGAGCTCGGCAGGCCCCGCTGGTTTGGTGCGGTGAG
TCCTGCCCCGGCTGTGCCAGGGTGAGGGAGGGCCAAGCCCAGGAGGATTTGTCTGAGACATTTCCAAGCAGACTG
TTTGTACAGTCTTCTGAGAATGACTTTTCAGTCTCTCTGAAAATGAAAAGCTTAGGACCAGAAGAGAGAATTGGAG
CTGTACGAGTGTGTCTCGGATCTGGTGTGTTAGGTGGGCCACGGCGGCTCCAGCAGGGTCTGGTTAAGGGGTCC
AGCCCAGCACTGGACCATTCGCTCTCCTGCTCTGGACTTGCCCTCTCCCTTCCCTGGCACTCTCATGTTGCATACC
CTGACCCCACTGCTGCTCTAAGCACCGTCCCTGCCAGCCCCACTTCTCCATCGCAGCCCCACCTTGGCTGCTGA
GCCAGGAGCTAAAACCTTAGATATCTGGTTCTGTTTTGCACCCAGCTTGGCAGATGTGGATTGAATCCAAGCCT
TGTGTCTGCCCCCTATGTGACAGCTCTATATTTTATCCCCGTTTTTATAAAGAGGAACTGAAGTTCTGAAAATCT
CCTTCCAGGGCCCCAGCTAACTAATGCCATAGGTGAGATTCAAACCTTCATCCTTCTGTCTCCAGGGCCTGATCT
TTACCACTGCAGGGGCTGCAGGCCGTTAAGTGACAGGAAGTGGCCCCACATAGCCCGAGCAGGCTCTGGAAGCA
TCCTGTGCTGTGCACACCTGCTCTCTCCTCTCTCCAGGCAGGCAGCTGCAGGCGCTCTCCTCCTTCTCTGCCTG
TTTCCCTCCTCCCTTCTTTCCACCCTGGTGTGGGTTCTCCTGTTCTCTCTGTGCTCTTGCACTCTCTCATTCCC
TTTTCTCTATTGAGCAGAGCCTGGAGTTTGGAGACTATGGAATCCAACCTCCCCATTGCACAGATGGGGAACTG
AGGCTTAGGAAGAGAATGAAACTTGTGGAGAGCTTATACAGAGCCTCTGGGGGAAAAAAGAGCCCTTATTTGTGG
GGTGAGATTGGGGGTTGGACCAGAGTGATGTCCTCTCTCAGCTATCACATCACAAGATAATGCTGGCTCCAACT

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FIGURE 3335B

TCCTTTCTGTGCCTCATCATGCAAGGATCTTTTTTCCCTCTTACAAAAACAGGTAAAAAGCCTCACCCAGATGAC
CCCCATCCCTCATACCATGGAGTCATGAGCTGTCTGGGAAGAATGGACGTGCTGGGACCAACTCAAGACCTTGTT
TTGCTGTCTTCATCATCTTACCTGTGCTTGGCCCACAGTCTGGCTCATGATGTGGGCTCAGTAATGTGCGAGAAA
GTGAAAATGCCACTCTCTCCACCCCATTTTACAGAGGAGAACACCAAGGCCCAGAGGAAGTTAAGGGAGAGTCAA
TGGGCAGAGCCAGGGCTAGGCCCTGGTGGTGTGTGGAGCAGCCAGGCAGACCCAGTCCTGGTTGGGATCACACCC
ACGGGTGCTACTGCACGTAACACTCCTCCTTAGGCCTGGAGGCCAAGGTGTGGGTCCCCACGCCTGATCTTTGAA
AACACTACACAGGGCTGCTGTCACTTCCCAGGGCCCAGGCCTCAGCCCAGGCCTCGGGACCAACTCTTTGTATAA
CCTACCTGAATGTATTAAAACTAATTTTGG

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FIGURE 3336

ATGGATAGAATGGTGCTATCTGAGCTGTTATAATGTTGGCCTCATGCCTAGCTTTATATTGCAGCACGTCTGAGG
CATTGGTTTTTTCATCCTTCCAAACTTTTGGTCTACAGAGACTATTAGAAGATTAAAGTAGCTGCTGCTGGTGGTGA
CAATGTCAAATAACGGCCTAGACATTCAAGACAAACCCCCAGCCCCCTCCGATGAGAAATACCAGCACTATGATTG
GAGCCGGCAGCAAAGATGCTGGAACCCTAAACCATGGTTCTAAACCTCTGCCTCCAAACCCAGAGGAGAAGAAAA
AGAAGGACCGATTTTACCGATCCATTTTACCTGGAGATAAAACAAATAAAAAAGAAAGAGAAAGAGCGGCCAGAGA
TTTCTCTCCCTTCAGATTTTGAACACACAATTCATGTCGGTTTTGATGCTGTCACAGGGGAGTTTACGGGAATGC
CAGAGCAGTGGGCCCCGCTTGCTTCAGACATCAAATATCACTAAGTCGGAGCAGAAGAAAAACCCGCAGGCTGTTC
TGGATGTGTTGGAGTTTTACAACCTCGAAGAAGACATCCAACAGCCAGAAATACATGAGCTTTACAGATAAGTCAG
CTGAGGATTACAATTCTTCTAATGCCTTGAATGTGAAGGCTGTGTCTGAGACTCCTGCAGTGCCACCAGTTTCAG
AAGATGAGGATGATGATGATGATGATGCTACCCACCACCAGTGATTGCTCCACGCCCAGAGCACACAAAATCTG
TATACACACGGTCTGTGATTGAACCACTTCTGTCACTCCAACCTCGGGACGTGGCTACATCTCCCATTTACCTA
CTGAAAATAACACCACTCCACCAGATGCTTTGACCCGGAATACTGAGAAGCAGAAGAAGAAGCCTAAAATGTCTG
ATGAGGAGATCTTGGAGAAATTACGAAGCATAGTGAGTGTGGGCGATCCTAAGAAGAAATATACACGGTTTGAGA
AGATTGGACAAGGTGCTTCAGGCACCGTGTACACAGCAATGGATGTGGCCACAGGACAGGAGGTGGCCATTAAGC
AGATGAATCTTCAGCAGCAGCCCCAAGAAAGAGCTGATTATTAATGAGATCCTGGTCATGAGGGAAAACAAGAACC
CAAACATTGTGAATTACTTGGACAGTTACCTCGTGGGAGATGAGCTGTGGGTTGTTATGGAATACTTGGCTGGAG
GCTCCTTGACAGATGTGGTGACAGAACTTGCATGGATGAAGGCCAAATTGCAGCTGTGTGCCGTGAGTGTCTGC
AGGCTCTGGAGTTCTTGCAATTCGAACCAGGTCATTCACAGAGACATCAAGAGTGACAATATTCTGTTGGGAATGG
ATGGCTCTGTCAAGCTAACTGACTTTGGATTCTGTGCACAGATAACCCCAGAGCAGAGCAAACGGAGCACCATGG
TAGGAACCCCATACTGGATGGCACCAGAGGTTGTGACACGAAAGGCCATATGGGCCCAAGGTTGACATCTGGTCCC
TGGGCATCATGGCCATCGAAATGATTGAAGGGGAGCCTCCATACCTCAATGAAAACCCTCTGAGAGCCTTGTACC
TCATTGCCACCAATGGGACCCCGAAGCTTCAGAACCAGAGAAGCTGTGAGCTATCTTCCGGGACTTTCTGAACC
GCTGTCTCGAGATGGATGTGGAGAAGAGAGGTTGAGCTAAAGAGCTGTACAGGTGAGAAAAGTGAAGTTTCAAG
TGTTTAGTAACTTTCCATGATAGCTGCATCAATTCCTGAAGATTGCCAAGCCCCCTCTCCAGCCTCACTCCACTG
ATTGCTGCAGCTAAGGAGGCAACAAGAACAATCACTAAAACCACTCACCCAGCCTCATTGTGCCAAGCCTT
CTGTGAGATAAATGCACATTTAGAAATTCCAACCTCTGATGCCCTCTTCTCCTTGCCCTTGCTTCTCCCATTTCC
TGATCTAGCACTCCTCAAGACTTTGATCCTTGGAACCGTGTGTCCAGCATTGAAGAGAACTGCAACTGAATG

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FIGURE 3337

GTGACTGCCTCTTCCAGGGCGGGCGGTGTGGTGCACGCATTGCTGTGCTCCAACTCCCTCAGGGCCTGTGTTGCC
GCACTCTGCTGCT**ATG**AGCTTCCTCAAAAGTTTCCCGCCGCCTGGGCCAGCGGAGGGGCTCCTGCGGCAGCAGCC
AGACACTGAGGCTGTGCTGAACGGGAAGGGCCTCGGCACCTGGTACCCTTTACATCGCTGAGAGCCGCCTGTCTTG
GTTAGATGGCTCTGGATTAGGATTCTCACTGGAATACCCACCATTAGTTTACATGCATTATCCAGGGACCGAAG
TGAAGAGAGGAAGACAGTGATGATGATGTTGAACCTATTACTGAATTTAGATTTGTGCCTAGTGATAAATCAGC
GTTGGAGGCAATGTTCACTGCAATGTGCGAATGCCAGGCCTTGCAATCCAGATCCTGAGGATGAGGATTCAGATGA
CTACGATGGAGAAGAATATGATGTGGAAGCACATGAACAAGGACAGGGGGACATCCCTACATTTTACACCTATGA
AGAAGGATTATCCCATCTAACAGCAGAAGGCCAAGCCACACTGGAGAGATTAGAAGGAATGCTTTCTCAGTCTGT
GAGCAGCCAGTATAATATGGCTGGGGTCAGGACAGAAGATTCAATAAGAGATTATGAAGATGGGATGGAGGTGGA
TACCACACCAACAGTTGCTGGACAGTTTGAGGATGCAGATGTTGATC**ACTG**AAAATGATTTATGCAAGTTTAAGA
TTCTGCTCCTAAGTGTAGGAGAGA**AACT**TGGTGCCTCTTCCACTCTGGAGTGAAGTTAATGAAAGTCTTTTTCTCTT
TTCCAAAACCCAACCTGAACCAGTTCTTTCTTGAGACAGACTATACTGAGACAACAAGTTGTCACCAGCAGAAGA
TAGATAATATGACCTTTATTA**AACT**TGATGAATTA**AACT**TAAACCAAGAGGGTATTTGTAGTTTACTATTTACCTAA
AACTTTCTGTGTCTGGGTACCCTCTGAGTAGGCCTATAATTCCTACCTTGACTGTGTGCATCATTTGTAAGCTAG
CAGATCTATGTGGTGA**AAAT**GCACAGGAGCTTGGTAGACTGCGGGGGAAAGAGAGAGCTCCTTTTCGCCATGTTTT
ACCAGTCTGCTGTTATAACCTCTTAGGTTGTATCCTTTAATTTCCAGCCTTTTAGGTTAGTTTCTGTAACAGAAC
AAGTGAGTCTGGGATGAAGTCCTCAAAGTACTTCAAATGGTAATTGTTTTGTTTTGTAATAGCTTAACAAATAA
ACCTAGGTTTTCTATAAA

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FIGURE 3338

MSFLKSFPPPGPAEGLLRQQPDTEAVLNGKGLGTGTLYIAESRLSWLDGSGLGFSLEYPTISLHALSRDRSDCLG
EHLYVMVNAKFEEESKEPVADEEEEDSDDDVEPITEFRFVPSDKSALEAMFTAMCECQALHPDPEDEDSDDYDGE
EYDVEAHEQGQGDIPTFYTYEEGLSHLTAEGQATLERLEGMLSQSVSSQYNMAGVRTEDSIRDYEDGMEVDTTPT
VAGQFEDADVDH

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FIGURE 3339

CGTTCTTTGCCGAGAGTCGTCGGGGTTTCCTGCTTCAACAGTGCTTGGACGGAACCCGGTGCTCGTCCCCACCC
CAGCCGGCCGCCGCCACCTCTCCTTAGTCGCCGCCATGAGGACCACGTCCACCTCACAGGTGCGCCAGAACTACC
ACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTAGAGCTCTGTGCCCTCCTACGTTTACCTGTCCATGT
CTTACTGCTTTGACCGTGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGA
GGGAGCATGCTGAGAAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAAAAC
CAGACTGTGATGACTGGGAGAGCGGGCTGAATGTGATGGAGTGTGCATTACATTTGGAAAAAATGTGAATCAGT
CACTACTGGAAC TGCAAAATTGGCCACTGACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACC
TGAATGAGCAGGTGAAAGCCATCAAAGAATTGGATGACCATGTGACCAACTGCACAAGATGGGAGCACTCGAAT
CTGGCTTGGCAGAATATCTCTTTGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGCTAATT
TCCCGTAGCCGTGGGGTGACTTCCCTGGTCACCAAGGCAGTGCATGCATGTTGGGGTTTCCTTTACCTTTTCTA
TAAGTTGTACCAAAACATCCACCTAAGTTCTTTGATTTGTGCCATTCCTTCAGATGAAGAAATTTGGTACCCCC
CCCCAAAAAAAAAAAAAAAAAATC

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FIGURE 3340

MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQSHEEREHAEKIMKLQN
QRGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVNQSLLELHKLATDKNDPHLCDFIETHYLNEQVKAIKELG
DHVTNLRKMGAPESGLAEYLFDKHTLGDSDNES

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FIGURE 3341

GTCGTCGTGGTTTTTCCTTGTAGTTCGTGGTCTGAGACCAGGCCTCAAGTGGAAACGGCGTCACCATGATCGCACG
GCGGAACCCAGAACCCTTACGGTTTTCTGCCGGATGAGGCCCCGAGCCTGCCCCGCCCAAGCTGACCGACCCGCG
GCTCCTCTACATCGGCTTCTTGGGCTACTGCTCCGGCCTGATTGATAACCTAATCCGGCGGAGGCCGATCGCGAC
GGCTGGTTTTGCATCGCCAGCTTCTATATATTACGGCCTTTTTTTTTTGCTGGATATTATCTTGTAACGTTGAAGA
CTACCTGTATGCTGTGAGGGACCGTGAAATGTTTGGATATATGAAATTACATCCAGAGGATTTTCCTGAAGAAGA
TAAGAAAACATATGGTGAAATTTTTGAAAAATTCCATCCAATACGTTGAAGTCTTCAAATGCTTGCTCCAGTTT
CACTGATACCTGCTGTTTCTGAATTTGATGGAACATGTTTCTTATGACAGTTGAAGCTTATGCTAATCTGTATGT
TGACACCTTGTAATTAAATACGTACCATG

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FIGURE 3342A

ATGAGCGGCGGCGGCGACGTGGTGTGCACCGGCTGGCTGAGGAAATCGCCTCCCGAGAAGAAGTTGAGGCGCTAT
GCCTGGAAGAAACGCTGGTTTTATCCTGCGGAGTGGCCGGATGAGCGGTGACCCAGATGTTCTGGAATACTACAAG
AACGATCACTCCAAGAAGCCTCTGCGGATCATCAACCTGAACTTCTGTGAGCAGGTAGATGCAGGCCTGACCTTT
AACAAGAAGGAGCTGCAGGATAGTTTTGTGTTTGACATCAAGACCAGTGAACGCACCTTTTACCTGGTGGCTGAG
ACAGAAGAGGACATGAATAAGTGGGTCCAGAGCATCTGCCAGATCTGTGGCTTCAATCAGGCTGAGGAGAGCACA
GACTCCCTGAGAAATGTTTCTCAGCCGGTCATGGCCCCGCTCTTCTCCAGCTGAGCTCAGCAGCTCTAGCCAG
CACCTTCTCCGAGAGCGCAAGTCTCAGCCCCATCACACTCCAGCCAGCCAACCTCTGTTTCACGTTTGAACCCCT
GTGTCAAACCACATGCAGCCCACCTTGTCCACCAGCGCACCTCAGGAGTATCTCTACTTGCACCAGTGATAAGC
CGAAGAGCAGAAAATGCAAGGAGTGCCAGCTTCTCTCAGGGCACCAGAGCCTCTTTTCTCATGAGGAGTGACACA
GCTGTACAAAAACTTGCCAGGGCAATGGACACTGTGTCAACGGGATCAGTGGTCAAGTCCATGGCTTCTATAGC
CTTCCCAAGCCGAGCCGGCACAATACAGAATTACAGAGACAGTACCTACGACCTCCCCCGCAGCCTGGCCTCCCAT
GGCCACACCAAGGGCAGCCTCACAGGCTCCGAGACAGATAATGAGGATGTGTACACCTTCAAGACGCCAGCAAC
ACCTGTGCAGGGAGTTCGGGGACCTCCTGGTAGACAATATGGATGTTCCGGCCACCCACTCTCAGCCTACCAG
ATCCCTAGGACATTACTCTGGACAAAAACCACAATGCCATGACAGTGGCCACTCCTGGGGACTCAGCCATAGCT
CCCCCACCCTGCCCCCAAGCCAAGTCAGGCAGAAAACCTCGATGGGGCAGTCTCAGCAGAGACCGCCAATC
AGTGAAAATAGCAGATCTGTGCTGCCACCATCCCCAGACGCAACACCCTCCCTGCAATGGACAACAGCCGACTT
CACCGAGCTTCTTCTGTGAGACCTACGAGTACCCACAGCGTGGTGGAGAGAGTGACAGCCGGTCTGCTGAATCC
ATGAGTGATGGAGTTGGCTCTTTCTGCCAGGGAAAAATGATTGTGGGCCGATCGGACAGCACCAATTCTGAAGAC
AACTATGTGCCATGAATCCAGGTTCTTCCACCCTGTTGGCCATGGAACGAGCAGGTGATAATTCCAGAGCGTC
TACATCCCAATGAGCCCAGGGGCCATCACTTTGACTCACTTGGCTACCCATCAACAACCCTTCTGTGCACCGA
GGCCCCAGCAGAGGAAGTGAGATTACAGCCACCCCTGTCAACCGCAACCTCAAACCTGATCGGAAAGCAAAGCCA
ACACCCTTGACCTGAGGAACAACACCGTCATCGATGAACTCCCCTTCAAGTCACCTATCACCAAGTCTTGGTCT
AGGGCCAACCACACCTTCAACTCCAGCTCCTCCAGTACTGCCGCCCATCTCCACCCAGAGCATCACCAAGCACA
GACTCAGGAGACAGCGAAGAGAACTATGTCCCTATGCAAAACCCAGTGTCTGCATCTCCCGTTCCAGTGGCAG
AACAGTCTGCCCCTAAGAAGAGCACCGGCAGCGTTGATTATCTGGCCCTGGACTTCCAGCCGAGCTCCCCAAGC
CCCCACCGCAAGCCATCTACTTCATCCGTACCTCTGATGAGAAGGTGGACTACGTTACAGGTGGACAAGGAGAAG
ACCCAGGCCCTGCAGAACACCATGCAGGAGTGGACAGACGTGCGGCAGTCTCAGAGCCTTCCAAGGGTGCCAAG
CTGTGATGAGAGGGCCACCGCAGAGCCCAGGAGGCAGCATCTCCAGAGCTGGCCCTTCCCATCTCCCTCTCCCC
TCTCCCGTTCTTCTTCCCATCCACCTCCTCTCTACTCTGCCAGTCTCAGCCTTCAAAGCACTTGACATCAGGGAC
CCTGAACCTTCCCCTGGGAGGTGAGGGCCTGATCAAGGCACCTCCTCTGCCCCTCGGGGCCAGCTGTGATTT
TTATCAGTAATGGCCATGCCTCCACCCACCTTAGTTAGGAGCTACTTCAAAAAGCATCCTTCAGCCTCTTCTG
TCCTTTAGACCTGACTCTCTACCAGATGTTTGGAGGGAAGGGCTGGGGCTCTGAGCCAGATTCCACACCTCACGT
TCAGTCACAGCCCTCAGCTATCTTCCCTCCGGCCACTGGGCTACCTCTCCTTCAGTCCCAGAAGACAAGTCTCAC
CAACCCAGGGAGTCAAGGACCAGCAAACCAAAGTGATAATGGACTTTTTCATTCTCTGTTTTCTTGGCAGGAGA
GAAGCAAGGCCACTAAAAGAGGAGATGGTGGAGACGGAGGCTCAGCAGTGGTCTTGAGGGGTAAAGGACTTAGAT
GCCCAGATGAAGAGGGAAAGCTGACATCTGCAGGGAACCCACTTTGAGGCTGAGGCCATGGCAGGACAGCTGCTG
TGGGGTGACAGAGGCAGAAGATGAAGGACAAAAGGAAGGGAAAACCTGATGGCCAACCTAGAGCAGCAAGGAGCAGG
GCTTGGAGCTCGGGTGGTGGAGATGACAAGGACACTGTGGGGTCTGGGTCCCCAGAACTCTGGAGCTACAGGCCA
CTCTAGGCCCCAAGGGCTAGTCCTCTTCCCCAGTCCCCCTCAGAGGCCCCCGCCAGCCCCACCTTGAAAGCAGCATA
CAGGGGAAGGCTTGGACCAAGCTGGGCGACCAAGCACATGGGGCAGGAACACATGGTAAAGGGGTGGGGAAATATG
GGAGGGAGTGTGGTGTGGATGGGGGTGATGCAGGGACTGAGGGGAACCTGGGACAGGCACAGGCTGGGCAGAGG
CACAGGGCAGTGCAGGGGACTCTGCAGTGGGGTCTGGGAAGTGAGTTTCTTTGCAGTGAGCAGTGCAAGTGC
GGGCACAGAGGTAGCAGACAGATGTGAAGCAGTGGTGAAGGCCATGTAGCAAGTGGGGAAATACATCCAAAGGGC
CTGGGAGTTGGGGGTGCCAACGCAATCCTTGGGGGTGCAGGTGGAGCAGAAAGTGAAGGAGGGACACGTGCA
AGAGTGGTGTGCATGGTGGTGTGACATGAGGACCGTTCTTAGGATGGGACAGTGGGTGAGGCAGGACAAGGAGAA
AGCAGGGCAGAATGATGCCTAGAGGACCACATCAGGCATGGCTGACAGCTTGTGCCCATGGGCTGTGGCGTATGT
CAGATCGCAGGGTAGGAACGAGTCTGGCCTGGTGGCGCCAGTGTTTCTCAGCTCATCCGCCCTCTGTTGCTC
CCTAGCATTCCAGGAGCCATCTTGGACTCTCCTCCCCAGGTTTGAAGGCCATCAGATTAGCAGGGACGGGGTGT

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FIGURE 3342B

AGGGCATCACCCAAGGTTCCCTTCTCTTAACTAAGGGTGGGGGATCTGAATGTTTTTATGTTGACTGTTCTTGAC
TAAATTTTCAAGAGTTTCAGAAGCAACAGGACAGACCAGACGTTTTCATTCTACCCTGGGGCGAACAGAACTTCTT
CCTCCCAAACAATGACTTCCTGCCATGTTTGATGGGGACAGCTACCACTGTCTCTGCCCCATTCCCCTTTTCAG
CTCCCATGAGCATGCATAGTTCCACCAGACCAATGGCCTAGCCATTCTCTAAGTCCCATCCTGGAAGAAGTTATTT
CTTCAAGAGCTGCACCTCTCCTCCTAGCATTAGTTTAGATCAACTCAAGGAGTATTTATTAATGGCTGCTGTCTC
CAGTTTCTGGGGTTAAGCACTAAGGACACAAGAATCAATCAGACCTTCTCCCTGAACTTAAGATAGCCACAATCA
GAAAAAGGACAAGGACATGAGACAGTGGTGATGGCCATCAGACAGAGACTTCAAATGCTGATGGAGGGCAGAGGA
AGTACTTAGGGAGGTTGGTGTCAGAGGCAGGAGTGGGGGATCAGGGAAGGTGGATTCTAGGAAAAGGGAGTGCCCT
GAGGTAGGCCTTAGAAGGGGATGAGTCAGATTTTTTACAGAGGAGGAGGGCAGGGCTTGGGTCCAGTGGAAGA
AGGAAGGAGAGGCTTGGAAGCCTTGTTGTCTTGGGAAAAAAGGCCTTTGAGCATATGGGTCCAGCCACTCAGAA
GTGCAGGGGCCATGCCTTGGTGTTCCAATAAGTGAATGGAAGCAGTGGTGGTAGCTACACTGGGCAGAGTTGGCA
GGGTGCTGGTTCACTCTGCCAGCCCTGAATGTGTGCCTTAAAGGCCCTTACAAGGGGCCCATACGACAGAGC
TTTTAACTGGTGCCCTCCCTGTACCCGCAGCAGCCACAAGTGGGCCCAGACTATTGCAGCCTCCCATAAACATGT
GAGCATGTTCTGAGTGTGCCATGATGTGAGTGGACCTGGCTGGAATCTTCGGAGAGCGACTGAGGTGTTCAAATC
GAATCTCCAGGAGGCTTCCCTCCAGCCCCCTATTCTGGTAACTACCAGGAGGCTTCCCTCCAGCCCCCTATTCT
GGTAACTACCAAAATCCCTCGGGTGCAAGTGTAGGGGTAGAGATGGAAGGATGAGAGGTGAAATTGACCTTTTGA
AAGCAAAGCTCTGGCTCACAGGCCCAAACCTACCAGCCGTATCTAGCATATCCCCACCCTCCACCCACTACCTCC
TCCAACAAAGGAGTCAACTCAGTTGAAAAAAGTGGTCCCTTTGGCCTATCCATGGGTCAAAGTCCACCTCTCCTGG
GGGCTCTCCAAGGAGCCTTCTTCAACCACTCCAGCTCCACTTCTGCAAGGTTAAGTCAAGTGAGAACGATGAG
AAATAGGGAGATGGTGTCTCCTTAAGTCCTTGATCTGCCTGTCTGTGGAATGGGAGGTTGGATTAGCTGCGCTGA
GGTCCCATCCACAGCTGGTGCTCAGCTGCTTGAAGGGGAGACTCCCTCCTCTGTAACCTCTTTCTGGGGGATTGG
GGTGGGCAGTACCTATCCCCAGTCCCCTCCTAGCTTGACTTTAGTGGTTTCCAATGTAGAAGTTAACAAGTATG
CCCCATTCCTGTGACAAAAGCACAACCACTTCTGAAGTTACTGGAGCATGGGCTCAGCTCATCCTCCCTCTGGCCC
CTTCTCCCATGGGGACATCTCGGCCCAGCACCCCTATCCCATTTCCAGAGTTCTTCCTTCCCCATCTGGGCCTTC
ATAAAATGCAGGGGAAGCCAGACTGGTCTCAGGAGCGCTAAAGCCCTTCCGTGGGGGGTCGTCTTCTGGGACTA
GCCCTGCTGTTTAGGACCTGGGACCACAATGGGGTACCTGCCGAGGGGGTCCCCAAGAGATCCAGGCTGTCATGT
GATTTATGGTGGCATGTGTTGTGTATTTGTTGGCTACTTGTGTCTTGAAATCTAGAATTATTTACGCAGAATTG
TCACTGTTTGTGAGGAAGAGAAAAATGGGCTAGTGGAAGCCCAGTCTTGAGTTCTTGTCTTGTACCATTTAAAT
TGACATTTAATTTTCAAATCACTGTTGGTGCCTAATCACTTAAGTTATTAATTTATTCTGTTGTATTCTTTTTTT
TAAATTGTAACATATTTATCCGGTGGGTGGGACAGGAGTGTGTTCAAGTGGGTGATGTTTTTGTGTGGTGACAC
ATGGTACAGGCTTGGAGCTTGCAAGTCCCTTTCTACTGTGGTGTGGAGCAGGACAATAAAGTCCACTAGAAATG
CACCCCA

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FIGURE 3343

MSGGGDVVCTGWLKSPPEKKLRRYAWKKRWFILRSGRMSGDPDVLEYYKNDHSKKPLRIINLNFCEQVDAGLTF
NKKELQDSFVFDIKTSERTFYLVAEETEEDMNKQVQSICQICGFNQAEESTDSLNRNVSSAGHGPRSSPAELSSSSQ
HLLRERKSSAPSHSSQPTLFTFEPPVSNHMQPTLSTAPQEYLYLHQCISRRAENARSASFSGTRASFLMRSDT
AVQKLAQGNGHCVNGISGQVHGFYSLPKPSRHNTFEFRDSTYDLPRSLASHGHTKGSLTGSETDNEDVYTFKTPSN
TLCREFGDLLVDNMDVPATPLSAYQIPRTFTLDKNHNAMTVATPGDSAIAPPPRPPKPSQAETPRWGSPQQRPPI
SENSRSVAATIPRRNTLPAMDNSRLHRASSCETYEYPQRGGESAGRSAESMSDGVGSFLPGKMIVGRSDSTNSED
NYVPMNPGSSTLLAMERAGDNSQSVYIPMSPGAHHFDSLGYPSTTLFVHRGPPSRGSEIQPPPVNRNLKPDRKAKP
TPLDLRNNTVIDELPFKSPITKWSRANHTFNSSSSQYCRPISTQSIITSDSGDSEENYVPMQNPVSPVPSGT
NSPAPKKSTGSVDYLALDFQPSSPSPHRKPSTSSVTSDEKVDYVQVDKEKTQALQNTMQEWDVVRQSSEPSKGAK
L

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FIGURE 3344A

GAAATTTTGAGAAGTGGTGGGATGAAGAAGATCCCTGAAGAGAGGAGTAACTGAGACAAAGGCGAGGCTAGCAAT
AGAGAGACAAGTGAGGGAATTAGACCTTTGGTATCATCATGAAAAGGCCTGGAAGAAACGCTGGTTTATCCTGCG
GAGTGGCCGGATGAGCGGTGACCCAGATGTTCTGGAATACTACAAGAACGATCACTCCAAGAAGCCTCTGCGGAT
CATCAACCTGAACTTCTGTGAGCAGGTAGATGCAGGCCTGACCTTTAACAAGAAGGAGCTGCAGGATAGTTTTGT
GTTTGACATCAAGACCAGTGAACGCACCTTTTACCTGGTGGCTGAGACAGAAGAGGACATGAATAAGTGGGTCCA
GAGCATCTGCCAGATCTGTGGCTTCAATCAGGCTGAGGAGAGCACAGACTCCCTGAGAAATGTTTCCTCAGCCGG
TCATGGCCCCCGCTCTTCTCCAGCTGAGCTCAGCAGCTCTAGCCAGCACCTTCTCCGAGAGCGCAAGTCTCAGC
CCCATCACACTCCAGCCAGCCAACTCTGTTACGTTTGAACCCCTGTGTCAAACCACATGCAGCCACCTTGTC
CACCAGCGCACCTCAGGAGTATCTCTACTTGCACCACTGCATAAGCCGAAGAGCAGAAAATGCAAGGAGTGCCAG
CTTCTCTCAGGGCACCAGAGCCTCTTTTCTCATGAGGAGTGACACAGCTGTACAAAACTTGCCAGGGCAATGG
ACACTGTGTCAACGGGATCAGTGGTCAAGTCCATGGCTTCTATAGCCTTCCCAAGCCGAGCCGGCACAATACAGA
ATTGAGAGACAGTACCTACGACCTCCCCCGCAGCCTGGCCTCCCATGGCCACACCAAGGGCAGCCTCAGAGGCTC
CGAGACAGATAATGAGGATGTGTACACCTTCAAGACGCCCAGCAACACCCTGTGCAGGGAGTTGGGGACCTCCT
GGTAGACAATATGGATGTTCCGGCCACCCACTCTCAGCCTACCAGATCCCTAGGACATTCACTCTGGACAAAA
CCACAATGCCATGACAGTGGCCACTCCTGGGGACTCAGCCATAGCTCCCCCACCCTCGCCCCCAAGCCAAGTCA
GGCAGAAACACCTCGATGGGGCAGTCTCAGCAGAGACCGCCAATCAGTGAATAAGCAGATCTGTGCTGCCAC
CATCCCCAGACGCAACACCCTCCCTGCAATGGACAACAGCCGACTTCACCGAGCTTCTTCTGTGAGACCTACGA
GTACCCACAGCGTGGTGGAGAGAGTGCAGGCCGGTCTGCTGAATCCATGAGTGATGGAGTTGGCTCTTCTGCTGCC
AGGGAAAATGATTGTGGGCCGATCGGACAGCACCAATTCTGAAGACAACCTATGTGCCCATGAATCCAGGTTCTTC
CACCTGTGTGGCCATGGAACGAGCAGGTGATAATTCCAGAGCGTCTACATCCCAATGAGCCAGGGGGCCATCA
CTTTGACTCACTTGGCTACCCATCAACAACCCTTCTGTGCACCGAGGCCCCAGCAGAGGAAGTGAGATTGAGCC
ACCCCTGTCAACCGCAACCTCAAACCTGATCGGAAAGCAAAGCCAACACCCTTGACCTGAGGAACAACACCGT
CATCGATGAACTCCCTTCAAGTCACCTATCACCAAGTCTTGGTCTAGGGCCAACCACACCTTCAACTCCAGCTC
CTCCAGTACTGCCGCCCATCTCCACCCAGAGCATCACCAGCACAGACTCAGGAGACAGCGAAGAGAACTATGT
CCCTATGCAAAACCCAGTGTCTGCATCTCCCGTTCCAGTGGCACGAACAGTCTGCCCCTAAGAAGAGCACCGG
CAGCGTTGATTATCTGGCCCTGGACTTCCAGCCGAGCTCCCCAAGCCCCCACCAGCAAGCCATCTACTTCATCCGT
CACCTCTGATGAGAAGGTGGACTACGTTTCAAGGTGGACAAGGAGAAGACCCAGGCCCTGCAGAACACCATGCAGGA
GTGGACAGACGTGCGGCAGTCTCAGAGCCTTCCAAGGGTGCCAAGCTGTGATGAGAGGGCCACCGCAGAGCCCA
GGAGGCAGCATCTCCAGAGCTGGCCCTTCCCATCTCCCTCTCCCTCTCCCGTTCTTCTCCCATCCACCTCCT
CTCTACTCTGCCAGTCTCAGCCTTCAAAGCACTTGACATCAGGGACCCTGAACCTTCCCTGGGAGGTGAGGGC
CTGATCAAGGCACCTCCTCTGCCCCTCGGGGCCAGCTGTGATTTTTATCAGTAATGGCCATGCCTCCACCCAC
CTTAGTTAGGAGCTACTTCCAAAAGCATCCTTCAGCCTCTTCTGTCTTTAGACCTGACTCTCTACAGATGT
TTGGAGGGAAGGGCTGGGGCTCTGAGCCAGATTCCACACCTCACGTTTCACTCAGCCCTCAGCTATCTTCCCTC
CGGCCACTGGGCTACCTCTCCTTCAGTCCCAGAAGACAAGTCTCACCAACCCAGGGAGTCAAGGACCAGCAAACC
AAAGTGATAATGGACTTTTTTCATTCTGTTTTTCTTGGCAGGAGAGAAGCAAGGCCACTAAAAGAGGAGATGGT
GGAGACGGAGGCTCAGCAGTGGTCTTGAGGGGTAAAGGACTTAGATGCCCAGATGAAGAGGGGAAAGCTGACATCT
GCAGGGAACCCACTTTGAGGCTGAGGCCATGGCAGGACAGCTGCTGTGGGGTGCAGAGGCAGAAAGATGAAGGACA
AAAGGAAGGGAAAACCTGATGGCCAACCTAGAGCAGCAAGGAGCAGGGCTTGGAGCTCGGGTGGTGGAGATGACAA
GGACACTGTGGGGTCTGGGTCCCCAGAAGTCTGGAGCTACAGGCCACTTAGGCCCAAGGGCTAGTCTCTTCCC
CAGTCCCCTCAGAGGGCCCCCGCCAGCCCCACCTTGAAAGCAGCATACAGGGGAAGGCTTGGACCAAGCTGGGCGA
CCAAGCACATGGGGCAGGAACACATGGTAAAGGGGTGGGGAATATGGGAGGGAGTGTGGTGTGGATGGGGGTGAT
GCAGGGACTGAGGGGAACCTGGGACAGGCACAGGCTGGGCAGAGGCACAGGGCAGTGCAGGGGACTCTGCAGTG
GGGTGCGGAAGTGAGTTTCTTTGCACTGAGCAGTGCAGTGGAAGTGGGCACAGAGGTAGCAGACAGATGTGAAG
CAGTGGTGAAGGCATGTAGCAAGTGGGGAATACATCCAAAGGGCCTGGGAGTTGGGGGGTGGCCACGCAATC
CTTGGGGGTGCAGGGTGGAGCAGAAAGTGAAGGAGGGACACGTGCAAGAGTGGTGTGCATGGTGGTGTGACATGA
GGACCGTTCTTAGGATGGGACAGTGGGTGAGGCAGGACAAGGAGAAAGCAGGGCAGAATGATGCCTAGAGGACCA
CATCAGGCATGGCTGACAGCTTGTGCCATGGGCTGTGGCGTATGTGATCGCAGGGTAGGAACGAGTCTGGCC
TGGTGCCGGCCAGTGTTCCTCAGCTCATCCGCCCTCTGTTGCTCCCTAGCATTCCAGGAGCCATCTTGGACTC

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FIGURE 3344B

TCCTCCCCAGGTTTGAAGGCCATCAGATTAGCAGGGACGGGGTGTAGGGCATCACCCAAGGTTCTTTCTTTAA
ACTAAGGGTGGGGGATCTGAATGTTTTTATGTTGACTGTTCTTGACTAAATTTTCAAGAGTTTCAGAAGCAACAG
GACAGACCAGACGTTTTCATTCTACCTTGGGGCGAACAGAACTTCTTCCTCCCAAACAATGACTTCCTGCCATGTT
TGATGGGGACAGCTACCACTGTCCTCTGCCCCATTCCCCTTTCAGCTCCCATGAGCATGCATAGTTTACCAGAC
CAATGGCCTAGCCATTCTCTAAGTCCCATCCTGGAAGAAGTTATTTCTTCAAGAGCTGCACCTCTCCTCCTAGCA
TTAGTTTAGATCAACTCAAGGAGTATTTATTAATGGCTGCTGTCTCCAGTTTCTGGGGTTAAGCACTAAGGACAC
AAGAATCAATCAGACCTTCTCCCTGAACCTAAGATAGCCACAATCAGAAAAAGGACAAGGACATGAGACAGTGGT
GATGGCCATCAGACAGAGACTTCAAATGCTGATGGAGGGCAGAGGAAGTACTTAGGGAGGTTGGTGTGAGAGGCA
GGAGTGGGGGATCAGGGAAGGTGGATTCTAGGAAAAGGGAGTGCTGAGGTAGGCCTTAGAAGGGGATGAGTCAG
ATTTTTACAGAGGAGGAGGGCAGGGCTTGGGTCCAGTGGAGGAAGAAGGAAGGAGAGGCTTGGAAGCCTTGTGT
CTTGGGAAAAAAGGCCCTTTGAGCATATGGGTCCAGCCACTCAGAAGTGCAGGGGCCATGCCTTGGTGTTCAT
AAGTGAATGGAAGCAGTGGTGGTAGCTACACTGGGCAGAGTTGGCAGGGTGCTGGTTCACTCTGCCAGCCCTGA
ATGTGTGCCTTAAAGGCCCCCTACAAGGGGCCCATACGACAGAGCTTTTAACTGGTGCCTTCCCTGTACCCGCA
GCAGCCACAAGTGGGCCCAGACTATTGCAGCCTCCCATAAACATGTGAGCATGTTCTGAGTGTGCCATGATGTGA
GTGGACCTGGCTGGAAATCTTCGAGAGCGACTGAGGTGTTCAAATCGAATCTCCAGGAGGCTTCTTCCAGCCC
CCTATTCTGGTAACTACCAGGAGGCTTCTTCCAGCCCCCTATTCTGGTAACTACCAAAATCCCTCGGGTGCAAG
TGTAGGGGTAGAGATGGAAGGATGAGAGGTGAAATTGACCTTTTGAAAGCAAAGCTCTGGCTCACAGGCCCCAAA
CTACCAGCCGTATCTAGCATATCCCCACCCTCCACCCACTACCTCCTCCAACAAAGGAGTCAACTCAGTTGAAAA
AACTGGTCCCTTTGGCCTATCCATGGGTCAAAGTCCACCTCTCCTGGGGGCCTGGAGAGGACTGAGCCTACGGAAA
GGGGATACCTTCCCACTCAGCACTGCTTCACACAGGCCCCCTGCCTGGGGCTCTCCAAGGAGCCTTCTTCACCCA
CTTCCAGCTCCACTTCTGCAAGGTTAAGTCAAGTGAGAACGATGAGAAATAGGGAGATGGTGTCTCCTTAAGTCC
TTGATCTGCCTGTCTGTGGAATGGGAGGTTGGATTAGCTGCGCTGAGGTCCCATCCACAGCTGGTGTCTCAGCTGC
TTGAAGGGGAGACTCCCTCCTCTGTAACCTCTTTCTGGGGGATTGGGGTGGGCAGTACCTATCCCCAGTCCCCTC
CTAGCTTGACTTTAGTGGTTTCCAATGTAGAAGTTAACAAAGTATGCCCCATTCTGTGACAAAAGCACAAACCAT
TCTGAAGTTACTGGAGCATGGGCTCAGCTCATCCTCCCTCTGGGCCCTTCTCCCATGGGGACATCTCGGCCCAGC
ACCCCTATCCCATTTCCAGAGTTCTTCCTTCCCCATCTGGGCCTTCATAAAATGCAGGGGAAGCCAGACTGGTCT
CAGGAGCGCTAAAGCCCTTCCGTGGGGGGTGGTCTTTCTGGGACTAGCCCTGCTGTTTAGGACCTGGGACCACAA
TGGGGTACCTGCCGAGGGGGTCCCCAAGAGATCCAGGCTGTCATGTGATTTATGGTGGCATGTGTTGTGTATTTG
TAGTGGAAGCCCAGTCTTGAGTTCTTGTCTTGTACCATTTAAATTTGACATTTAATTTTCAAATCACTGTTGGT
GCCTAATCACTTAAGTTATTAATTTATTCTGTTGTATTCTTTTTTTTTAAATTGTAACATATTTATCCGGTGGGTG
GGACAGGAGTGTGTTCAAGTGGGTGATGTTTTTGTGTGGTGACACATGGTACAGGCTTGAGCTTGCAGGTCCC
TTTCTACTGTGGTGTGGAGCAGGACAATAAAGTCCACTAGAAATGCACCCCA

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FIGURE 3345

MSGDPDVLEYYKNDHSHKKPLRIINLNFCEQVDAGLTFNKKELQDSFVFDIKTSERTFYLVAEETEEDMNKWWQSIC
QICGFNQAEESTDSLNRNVSSAGHGPRSSPAELSSSSQHLLRERKSSAPSHSSQPTLFTFEPPVSNHMQPTLSTSA
PQEYLYLHQCISSRAENARSASFSGQTRASFLMRSDTAVQKLAQGNGHCVNGISGQVHGFYSLPKPSRHNTEFRD
STYDLPRSLASHGHTKGLTGSETDNEDVYTFKTPSNTLCREFGDLLVDNMDVPATPLSAYQIPRTFTLDKNHNA
MTVATPGDSAIAPPPRPPKPSQAETPRWGSPQQRPPISENSRSVAATIPRRNTLPAMDNSRLHRASSCETYEYPQ
RGGESAGRSAESMSDGVGSFLPGKMIVGRSDSTNSEDNYVPMNPGSSTLLAMERAGDNSQSVYIPMSPGAHHFDS
LGYPSTTLPVHRGFSRGSEIQPPPVNRNLKPDRKAKPTPLDLRNNTVIDELPFKSPITKWSRANHTFNSSSSQY
CRPISTQSITSTDSGDSEENYVPMQNPVVSASPVPSTNSPAPKKSTGSVDYLALDFQPSSPSPHRKPSTSSVTSD
EKVDYVQVDKEKTQALQNTMQEWDVDRQSSEPSKGAKL

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FIGURE 3346

TTTAACCATTTCTAACTTTGCCTTGGGATATTGAAAATTCTGAATCAGTGAGGTATCTAAATAATTTATATTTTCA
AAAAATAATGTTTATTTTATAATTCTGAGTGTAACACTATCAGAAAAGTAATCCTCATGCTCACTAAACAAAC
CTACTCTAAGACACTCAACAACCAGAACAGTTTTATTATTGAGTTGTGTACAAAAATCTTGACTGTCCAGATGAA
ATAGTTTTTTCAGCCTGCAGTGTGTTAGTGATATATCTCAAGGAGATGAACCAATAAAGTACAGACTTTGTGGTCT
GAAGCTCTGTTGTGAAAAAATAAGCTAAACCAATTCACACTGACAGTATAATTTGATTCAAGTGCAGCTCCAGTT
CAATAAAAACTAATGTTTTTAAAATTAACCTTTGTTTTGTATTTGGTTCAACTCCTTGCTAGTTCTCTCTCTATAT
AATTTATAAAAACTGCATGTTGCTAATCTCATGATCCTGTGCATGTGGACTACTCTGCCTTTAACTTTTTTACAA
AAACATGTTTGTTCATAGATTAAATAAAAGTATGTTTTCAACTTAATGTCTAATGTTTTCTGACAATTGTAAGAA
TAATTTTGAAATGGAAATGCTGCTGTTTAGTTTTCCACAGTGCCTACACAACCTGATAATCCATTTTCTCACCCCTG
ACAAACTCAAAAGGATGAGCAAGTCTGTTCCAGCATTTCTCCAAGATGAGAGTGATGACAGAGAAACAGATACAG
CATCAGAAAGCAGTTACCAGCTCAGCAGACACAAGAAGAGCCCGAGCTCTTTAACCAATCTTAGCAGCTCCTCTG
GCATGACGTCCTTGTCTTCTGTGAGTGGCAGTGTGATGAGTGTATAGTGGAGACTTTGGCAATCTGGAAGTTA
AAGGAAATATTAGTTTGAATTGAATATGTGGAGTCACTGAAGGAGTTGCATGTTTTTGTGGCCAGTGTAAGG
ACTTAGCAGCAGCGGATGTAAAAAACAGCGTTCAGACCCATATGTAAAGGCCTATTTGCTACCAGACAAAGGCA
AAATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCTTGAATCCTGTGTATAACGAAATACTGCGGTATAAAA
TTGAAAAACAAATCTTAAAGACACAGAAATTGAACCTGTCCATTTGGCATCGGGATACATTTAAGCGCAATAGTT
TCCTAGGGGAGGTGGAACCTTGATTTGGAACATGGGACTGGGATAACAAACAGAATAAACAATTGAGATGGTACC
CTCTGAAGCGGAAGACAGCACCAGTTGCCCTTGAAGCAGAAAACAGAGGTGAAATGAACTAGCTCTCCAGTATG
TCCCAGAGCCAGTCCCTGGTAAAAAGCTTCTTACAACCTGGAGAAGTGCACATCTGGGTGAAGGAATGCCTTGATC
TACCACTGCTAAGGGGAAGTCATCTAAATCTTTTGTAAATGTACCATCCTTCCAGATACAAGTAGGAAAAAGTC
GCCAGAAGACAAGAGCTGTAGGGAAAACCAACCAACCTATCTTCAACCACACTATGGTGTATGATGGGTTCAGGC
CTGAAGATCTGATGGAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTAACCAACCAATTTTTGGGAG
GTCTTCGTATTGGCTTTGGAACAGGTAAAAGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAGAGGAAG
TTGCTCTCTGGGAGAAGATGGTAAACTCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGA
TTGCCAAGATTTCCAAATGAGCCCAAATTCCACTGGCTCCTCCACTGAAAACCTACTAAACCGGTGGAATCTGATC
TTGAAAATCTGAGTAGGTGGACAAATATCCTCACTTCTATCTATTGCACCTAAGGAATACTACACAGCATGTAA
AAGTCAATCTGCATGTGCTTCTTTGATTACAAGGCCCAAGGGATTTAAATATAACAAAATGTGTAATTTGTGACT
CTAATATTAAATAAGATATTTGAACAAGCTAGGAAAATTGAATTTCTGCTGCTGCTTCAAAGAAAAAGCTGCCCC
AGAGCATTAAACATGGGGTATTGTTAAGAAGCAAAATGTTCTTGTGTTGCCATCATGTGTTTACACCACAATTCT
GTGCCACAGTTAAGAGGGTCTGGTACCCTTGACAGGACCTTTGTAGGTTGTGGGAAAAAGTCGCAGAAAGATACTC
AAAGTGGAGCAGGGAATGGAGACAGACATCAGTGATGATAAAAAAAAAAAGGACCTTAAGAAACTATTTACTCT
GTAATCTCTAATAAAAATATGGAATTCCATATTAGGGCAATGAGACTGAACTACTGGTGTTTTTCTGCCTTGAGA
AAACAAACAGTTAAAACAAGCCTCAAATGTATTTTAGTGCCACCCACTGGCCATAGGTACAATTCAGTTGTTGGC
TTGTTTTGACTTAATTCTAAAATAGGTCTCAAGCCTGTATTTTTATGAGTTTATTTTTTAAACCCCTGCATATA
TATGATTGTTTTCTTATACTTTACTATATGAAAGCAGCATAAGAGTAGTCACAAACATGTTTTGCAACAAAGT
TTTAATTAGAATGTAAGTTGCTCAGTTATACTGTTCTTCTTATGTATGTAAAATTTTCGTATTTTGTAAAAACCC
TTAGAATAAATTATCATTGATTTAAATTGT

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FIGURE 3347

MSKSVPAFLQDESDDRETDTASESSYQLSRHKKSPSSLTNLSSSSGMTSLSSVSGSVMSVYSGDFGNLEVKGNIQ
FAIEYVESLKELVFVAQCKDLAAADVKKQRSDPYVKAYLLPDKGKMGKKKTLVVKKTLNPFVNEILRYKIEKQI
LKTQKLNLSIWHRDTFKRNSFLGEVELDLETWDWDNKQNKQLRWYPLKRKTAPVALEAENRGEMKLALQYVPEPV
PGKKLPPTTGEVHIWVKECLDLPLLRGSHLNSFVKCTILPDTSRKSRQKTRAVGKTTNP IFNHTMVYDGRFPEDLM
EACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMVNSPNTWIEATLPLRMLLIAKIS
K

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FIGURE 3348

GGCAGGCATGGGAGCCGCGCGCTCTCTCCCGGCGCCACACCTGTCTGAGCGGCGCAGCGAGCCGCGGCCCCGGGC
GGGCTGCTCGGCGCGGAACAGTGCTCGGCATGGCAGGGATTCCAGGGCTCCTCTTCCTTCTCTTCTTTCTGCTCT
GTGCTGTTGGGCAAGTGAGCCCTTACAGTGCCCCCTGGAAACCCACTTGGCCTGCATACCGCCTCCCTGTGCTCT
TGCCCCAGTCTACCCTCAATTTAGCCAAGCCAGACTTTGGAGCCGAAGCCAAATTAGAAGTATCTTCTTCATGTG
GACCCCAAGTGTCTATAAGGGAACCTCCACTGCCCCACTTACGAAGAGGGCCAAGCAATATCTGTCTTATGAAACGCTCT
ATGCCAATGGCAGCCGCGCACAGAGACGCAGGTGGGCATCTACATCCTCAGCAGTAGTGGAGATGGGGCCCAACACC
GAGACTCAGGGTCTTCAGGAAAGTCTCGAAGGAAGCGGCAGATTTATGGCTATGACAGCAGGTTCAGCATTTTTG
GGAAGGACTTCCTGCTCAACTACCCTTTCTCAACATCAGTGAAGTTATCCACGGGCTGCACCGGCACCCTGGTGG
CAGAGAAGCATGTCCTCACAGCTGCCCCACTGCATACACGATGGAAAAACCTATGTGAAAGGAACCCAGAAGCTTC
GAGTGGGCTTCCTAAAAGCCCAAGTTTAAAGATGGTGGTTCGAGGGGGCCAACGACTCCACTTCAGCCATGCCCGAGC
AGATGAAATTTTCAGTGGATCCGGGTGAAACGCACCCATGTGCCCAAGGGTTGGATCAAGGGCAATGCCAATGACA
TCGGCATGGATTATGATTATGCCCTCCTGGAACCTAAAAAGCCCCACAAGAGAAAATTTATGAAGATTGGGGTGA
GCCCTCCTGCTAAGCAGCTGCCAGGGGGCAGAATTCACCTTCTCTGGTTATGACAATGACCGACCAGGCAATTTGG
TGTATCGCTTCTGTGACGTCAAAGACGAGACCTATGACTTGCTCTACCAGCAATGCGATGCCAGCCAGGGGGCCA
GCGGGTCTGGGGTCTATGTGAGGATGTGGAAGAGACAGCAGCAGAAGTGGGAGCGAAAAATTATTGGCATTTTTTT
CAGGGCACCAGTGGGTGGACATGAATGGTTCCCCACAGGATTTCAACGTGGCTGTCAGAATCACTCCTCTCAAAT
ATGCCCAGATTTGCTATTGGATTAAAGGAAACTACCTGGATTGTAGGGAGGGGTGACACAGTGTTCCCTCCTGGC
AGCAATTAAGGGTCTTCATGTTCTTATTTTAGGAGAGGCCAAATTGTTTTTTGTCATTGGCGTGACACGTGTGT
GTGTGTGTGTGTGTGTGTGTAAGGTGTCTTATAATCTTTTACCTATTTCTTACAATTGCAAGATGACTGGCTTTA
CTATTTGAAAACCTGTTTTGTGTATCATATCATATATCATTTAAGCAGTTTGAAGGCATACTTTTGCATAGAAATA
AAAAAATACTGATTTGGGGCAATGAGGAATATTTGACAATTAAGTTAATCTTCACGTTTTTGCAAACCTTGATT
TTTATTTTCATCTGAACTTGTTTCAAAGATTTATATTAAATATTTGGCATAACAAGAGATATGA

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FIGURE 3349

TGCTGGCCGGGCGAGAGGCTGGCGGCTGGGCTCTCGCGCCCCCTCCCTGCAGGGCTCAGGCTCTCCCCCTCCTGTC
TTCTCCGCGCTGTTCCCTCGTCATGGCGGCCCTCAGCAAGTCCATCCCTCATAACTGCTATGAGATCGGCCACACT
TGGCACCCCTTCCTGCCGGGTCTCCTTCCTGCAGATCACCGGGGGCGCCCTGGAGGAGTCCCTGAAGATCTATGCT
CCTCTGTACTTGATTGCAGCAATTCTCCGGAACCGAAATTAGACTATTATTTACACAACTACTCCCTGAGATC
CTACAATCCGCTTCATTTCTAACTGCTAATGGGGCCTTGTATATGGCTTTCTTTTGCATTTTAAGGAAGATACTT
GGAAAATTCTACTCATGGACTCCTGGCTTTGGTGCCGCTCTGCCAGCATCTTATGTGGCCATTCTCATTGAAAGA
AAAAGCAGGAGAGGGCTGCTCACAATTTATATGGCCAACCTTGGCCACAGAAACACTATTGAGAATGGGTGTAGCA
AGAGGAACCATCACAACTTAAGAAATGGAGAAGTCCTTTTGTGTTTGCATCACAGCTGCCATGTACATGTTCTTT
TTCAGGTGCAAGGATGGCTTGAAAGGATTTACATTTTCTGCACTTAGGTTTATTGTAGGGAAGGAAGAAATTCCC
ACACATTCTTTTTTACCAGAGGCGAGCATATGCAAAAGTGAACAAAAGAGAGAGCAACATGAGGAAAAACCCGGA
AGAATGAATATGATTGGTCTAGTCAGGAAATTTGTGGATTCAATATGCAAAACATGGACCAAGGCATAGATGTTGC
AAACATTATGAAGATAATTGCATCTCTTATTGCATTAAAGGTTTTCATCAGAATGTTTAGCGTGGGGTACTTGATC
CAGTGCTGCCTCCGAATCCCTTCTGCATTTAGGCATCTGTTTACACAGCCATCTCGGCTACTTTCTCTCTTCTAC
AATAAGAAAACTTCCAGCTTGGAGCTTTTCTTGGCTCTTTTGTAGTATATACAAGGGTACTAGTTGCTTCCTG
CGCTGGATCAGAACTTAGATGATGAACATACATGCTATTATAGCTGGATTTTGGCAGGTATATCAATGATGTTT
TATAAAGCACAACAATTTCCATGTATTTAGCGTCCAAATTGGTAGAGACAATGTATTTCAAAGGCATTGAAGCA
GGGAAGGTTCCCTATTTTCCCTCATGCAGATACTATCATCTATTCCATCTCTACAGCAATTTGCTTCCAGGCAGCT
GTCATGGAAGTTCAGACTTTGAGACCATCTTACTGGAAGTTCCTTTTAAGACTCACCAAGGGCAAATTTGCTGTC
ATGAACCGAAAAGTCTTGATGTTTTTGGTACTGGTGCATCTAAACACTTTCAGGATTTTCATCCCAGGTTGGAT
CCAAGATACACAACGTAAACACCAGAGTTGCCACAGAGTTTCTCTGAAGATGACTGTAACCTTATTAATGTGACT
AAATGTTTTCATCTTGAAGAGTTAATTATGTTGAACACAAAGGAGGGGGCCCAAGCTCGAAGCTTCAGTGTTATTTT
AGTTAGAGATACTCTTTTCATTTGTTTTGTTTTCTTATGAATCAGAAATTCAGAAGCTTTTTAGGAAGATGTTG
CTTAATAATTAAGCTTCCCTCCATAGCCAGAATAAGATTCTGGATCACTGTAGTGACTGACATTATATATTATGA
TCAAATTATGTCCACAAGCAATATTATATAATCTACGTAGAAGTGAATAACAAACAAGAGTACACTTAAATTA
CTTTAAAGATGTCTTTAGTTTCATTCCAATATAATTCTTGATTAAATTAGGATTATTTCTACATTTTAGGATTT
ACAAAGGATCACGGGTACATGGATTTGGTCTATATATTTTTTAAAGTTTTGAATTGGTATCTGTAGTAGTGAA
TGTTATAGATTTGAAGTAACTCTCCACGGACAGTGCTGCTTTCGTGTAGAGCAATTTAATTGGAGAAGTGCCAT
TCTTACTTCAGGGATGCAAAGATGGGTCTCATACCATTTGGATAAATGTCGTGGTATCCATGCTTTTTTTCAACT
AATAACATCATCTCTCTTCATGACCAGTTAATTGGGCTATTTGGCAGCCAGTGAACCTATGTACTAATGGCAAG
TTAGGGGCAAATGGAAATGGACACATCCGATAAAGTTGAAATGTATGTTTTAATCTTTACAGAAGTATTACACT
TGAATATTTAAAAACAAACCTTTTAAACTTCCTATAGGTTTATGATGTTTGTGTTTTTCAATTTATATGGACATAATCC
TTCATAGCTCAGTTTATATGCCATTGTTGTATTAGAAGGGATCAAAATCCTATGGAACAAAGTAGTCTTGGCAAG
TTGGCAGTTTGTGTCCCTCTCAGCTGTTTAACTTATGTAATGGATGTTTTGCACCTGAAAACACTATAAAAAATCCA
GTGGTTGTTTTAAAAGTCCATTTGTCACTAATTCCATTCAGGTTCTCCAACCTTCTTCTTGAATATCATTGTAC
CATTTTTACTGTTAGATAAAGAGGTGACACCATAAAGTCCTGCTGATAATGAGAGTAGTTTCAAGGACAGCTGTGA
TTGAAATATGGTCGCTATTTACAGTTTTTTCAGGGAAAAGTTATACTTTTCTATGTTAATAAAGAGCTGAAGTGGT
CTACAGTTAATGTGACATGTAGGGATGATGATATTTTTTAAATACATTTTGTGCTAAAAAGTTTTTLAGGCCAGT
GCAAATTATGCAGTAGAACTTGTGTTGCAAAAGGAATTATAACCCATACTTTAAAAATGCTTAATCCCTCATATT
CAATTTTCATCAAGCCTTGATACCTTCTGCTTAAATGTAATTCAATCCTTGGTTGTTATGGCAAACAGAAACCCAA
CAAAAAGACAGACTCTGGTACTATGGTAACAGAGCCACTTTATCATTTGGTCAAAATTTGGCATTATGATTAGCT
TTGTAGAAGTACCTGTTTTATTTGGCAATGCTGTTAAAGGATCATTTTCGGTTTTCAGACTTCAAAGTTGATTATA
AATTTAATCTTAACTTTTTATTTCACTGGAATCAAAACGATGGTTGGTACTGTGTTTACTGTTTAAATGAAGTAC
TAAAGCCCTGAGAAGTGCACCTCATTTTCTTATCCAGAAATTGTGCTTATATATTTTCTGTCAGGTTTAAAAA
GATGTTTTTAATTCATAAATTATTGTTTTTATTGACATTTAAAGACTGTGATATTG

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FIGURE 3350

TTAGCTTGTTGGGGACGGTAACCGGGACCCAGTGTCTGCTCCTGTCACCTTCGCCTCCTAATCCCTAGCCACTAT
GCGTGAATGCGTCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGTCTGCTGGGAGCTCTACTGCCT
GGAACATGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTTCAACAC
CTTCAGTGAGACGGGTGCTGGCAAGCATGTGCCCCGGGCTGTGTTTGTAGACTTGAACCCATGGTCATTGATGA
AGTTTGCACTGGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAAGATGCTGCCAATAA
CTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGAATTCGCAAGCTGGCTAA
CCAGTGCACTGGTTTTTCAGGGCTTCTTGGTTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCTGGGTTACCTCCCT
GCTCATAGAACGTCTCTTAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCAATTAÇCCAGCGCCCCAGGT
TTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCTGGAGCACTCTGATTGTGCCTT
CATGGTAGACAATGAGGCCATCTGTGACATCTGTTGTAGAAACCTCAATATCGAGCGCCGTGCATGCTGAGCAAC
ACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAG

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FIGURE 3351

MRECVSIHVGQAGVQIGNVCWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFSETGAGKHVPRAVFVDLEPMVID
EVCTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKLANQCTGFQGFVLFHSFGGGTGSGFTS
LLIERLLVDYGKSKLEFSNYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAICDICCRLNIERPTYTN
LNHLISQIVSSITASLRFDGALNVDLTEFQTNLVPYSHIHPLATYAPVISAEKAYHEQLSVAEITNASFEPANQ
MVKCDPRHGKYMCCLLCHGDVVPKDANAAIATIKTKRSIQFVDWCPTGFKVGINYQSPTVVPGGDLAMVQSAC

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FIGURE 3352

GGGACGGTAACCGGGACCCAGTGTCTGCTCCTGTCACCTTCGCCTCCTAATCCCTAGCCACTATGCGTGAATGCG
TCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGTCTGCTGGGAGCTCTACTGCCTGGAACATGGCA
TCCAGCCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTGTGTTTGTAGACTTGGAACCC
ATGGTCATTGATGAAGTTTGCACTGGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAA
GATGCTGCCAATAACTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGAATT
CGCAAGCTGGCTAACCAGTGCACTGGTTTTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCT
GGGTTACCTCCCTGCTCATAGAACGTCTCTTAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCAATTAC
CCAGCGCCCCAGGTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCTGGAGCAC
TCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTGTGACATCTGTTGTAGAAACCTCAATATCGAGCGCCCA
ACCTACACTAACCTTAACCACCTTATTAGCCAGATTGTGTCCTCTATCACTGCTTCCCTGTCATTTCTGCTGAGA
AAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTCCTTTGAGCCAGCCAACCAGATGGTGAAAT
GTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTATTGTGCCATGGTGATGTGGTTCCCAAAGATGCCAATG
CTGCCATTGCCACCATCAAGACCAAGCGTAGCATCCAGTTTGTAGATTGGTGCCCCACTGGCTTCAAGGTTGGCA
TCAACTACCAGTCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGCGAGTTTTTCAGAGGCCCGTGAAGACAT
GGCTGCCCTTGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAAGAGAGGA
ATACTAATCCATTCCTTTTGGCCCTGCAGCATGTCGTGCTCCCAGAAATTCAGCTTCAGCTTAGCTGACAGACAT
TAAAGCTTTCTGGTTAGATTTTCATTIGGTGATCATGTCTTTTCCATGTGTACCTGTAATGTTTTTCCATCATGT
CTCAAAGTACAGT

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FIGURE 3353

CACTGTTGCCTATCAGAAGTCAATTCAAACGACCTGCCCCAGAGAGACAAAAGATACAGATATTGTGGATGAAG
CATCTATTACTTCAAGGCCAATATCTTCTTCAAAAACCTATGAAATTAAGAATGAAGCTGATAGGACCTTGATAAT
ATATA**ATG**ATATATATAACTCTCTACATTTCTGAATGTCTGAAGAACTCCAAAAGTGCAATTCCCCTGGAAAGC
CTGGTTTTCTACTTAACGCAATTTATGCCAAACCTGCAAACAAACAGGAAGATGAAGTGATGAGAGCCTATTTAC
AACAGCTAAGGCAAGAGACTGGACTGAGACTTTGTGAGAAAGTTTTCGACCCTCAGAATGATAAACCCAGCAAGT
GGTGGACTTGCTTTGTGAAGAGACAGTTCATGAATAAGAGTCTTTCAGGACCTGGGCAG**TGA**AGGGAGCCCGGGC
AGCCACCGTCTC

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FIGURE 3354

MIYITLYISECLKKLQKCNSPGKPGFLLNAIYAKPANKQEDEVMRAYLQQLRQETGLRLCEKVFDPPQNDKPSKWW
TCFVKRQFMNKSLSGPGQ

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FIGURE 3355A

AGGGGCACTATGGCAGACAAAGTTAGGAGGCAGAGGCCGAGGAGGCGAGTCTGTTGGGCCTTGGTGGCTGTGCTC
TTGGCAGACCTGTTGGCACTGAGTGATACTGGCAGTGATGTCTGTGGACCTGGGCAGTGAGTCCATGAAGGTG
GCCATTGTCAAACCTGGAGTGCCCATGGAAATTGTCTTGAATAAGGAATCTCGGAGGAAAACACCGGTGATCGTG
ACCCTGAAAGAAAATGAAAGATTCTTTGGAGACAGTGACGCAAGCATGGCGATTAAGAATCCAAAGGCTACGCTA
CGTTACTTCCAGCACCTCCTGGGGAAGCAGGCAGATAACCCCCATGTAGCTCTTTACCAGGCCCGCTTCCCGGAG
CACGAGCTGACTTTTGACCCACAGAGGCAGACTGTGCACTTTCAGATCAGCTCGCAGCTGCAGTTCTCACCTGAG
GAAGTGTGGGCATGGTTCTCAATTATTCTCGTTCTCTAGCTGAAGATTTTGAGAGCAGCCCATCAAGGATGCA
GTGATCACCGTGCCAGTCTTCTTCAACCAGGCCGAGCGCCGAGCTGTGCTGCAGGCTGCTCGTATGGCTGGCCTC
AAAGTGCTGCAGCTCATCAATGACAACACCGCCACTGCCCTCAGCTATGGTGTCTTCCGCCGAAAGATATTAAC
ACCACTGCCCAGAATATCATGTTCTATGACATGGGCTCAGGCAGCACCGTATGCACCATTGTGACCTACCAGATG
GTGAAGACTAAGGAAGCTGGGATGCAGCCACAGCTGCAGATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGC
CTGGAGATGGAGCTCCGGCTTCGAGAACGCCTGGCTGGGCTTTTCAATGAGCAGCGCAAGGGTCAGAGAGCAAAG
GATGTGCGGGAGAACCCGCGTGCCATGGCCAAGCTGCTGCGTGAGGCTAATCGGCTCAAAACCGTCCTCAGTGCC
AACGCTGACCACATGGCACAGATTGAAGGCCTGATGGATGATGTGGACTTCAAGGCAAAAGTGACTCGTGTGGAA
TTTGAGGAGTTGTGTGCAGACTTGTTTGAGCGGGTGCTTGGGCCTGTACAGCAGGCCCTCCAGAGTGCCGAAATG
AGTCTGXXXXXXXXXXXXXXXXXGTGATCCTGGTGGGTGGGCCACTCCGGGTCCCAGAATTCAAGAAGGTGCTG
CTGAAGXXXXXXXXXXGGAGGAGCTGGGGAAGAACATCAATGCAGATGAAGCAGCCGCCATGGGGCAGTGATC
CAGGCAGCTGCGCTCAGCAAAGCCTTTAAAGTGAAGCCATTTGTCGTCCGAGATGCAGTGGTCTACCCCATCCTG
GTGGAGTTCACGAGGGAGGTGGAGGAGGAGCCTGGGATTCACAGCCTGAAGCACAATAAACGGGTACTCTTCTCT
CGGATGGGGCCCTACCCTCAACGCAAAGTCATCACCTTTAACCGCTACAGCCATGATTTCAACTTCCACATCAAC
TACGGCGACCTGGGCTTCTTGGGGCCTGAAGATCTTCGGGTATTTGGCTCCCAGAATCTGACCACAGTGAAGCTA
AAAGGGGTGGGTGACAGCTTCAAGAAGTATCCTGACTACGAGTCCAAGGGCATCAAGGCTCACTTCAACCTGGAT
GAGAGTGGCGTGCTCAGTCTAGACAGGGTGGAGTCTGTATTTGAGACACTGGTAGAGGACAGCGCAGAAGAGGAA
TCTACTCTCACCAAATTGGCAACACCATTTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAAT
GGTACTGATACTGTCCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGAGCAAGGACGAGCCTGGGGAGCAGGTGGAG
CTCAAGGAGGAAGCTGAGGCCCCAGTGAGGATGGCTCTCAGCCCCACCCCTGAACCTAAGGGAGATGCAACC
CCTGAGGGAGAAAAGGCCACAGAAAAGAAAATGGGGACAAGTCTGAGGCCCAGAAACCAAGTGAGAAGGCAGAG
GCAGGGCCTGAGGGCGTCGCTCCAGCCCCAGAGGGAGAGAAGAAGCAGAAGCCCGCCAGGAAGCGGCGAATGGT
AGAGGAGATCGGGGTGGAGCTGGTTGTTCTGGACCTGCCTGACTTGCCAGAGGATAAGCTGGCTCAGTCGGTGCA
GAAACTTCAGGACTTGACACTCCGAGACCTGGAGAAGCAGGAACGGGAAAAAGCTGCCAACAGCTTGGAAGCGTT
CATATTTGAGACCCAGGACAAGCTGTACCAGCCCCAGTACCAGGAAGTGTCCACAGAGGAGCAGCGTGAGGAGAT
CTCTGGGAAGCTCAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTGGAGCCACCACAGTGATGTTGAAGGA
GAAGCTGGCTGAGCTGAGGAAGCTGTGCCAAGGGCTGTTTTTTCGGGTAGAGGAGCGCAAGAAGTGCCCCGAACG
GCTGTCTGCCCTCGATAATCTCCTCAACCATTCCAGCATGTTCTCAAGGGGGCCCCGGCTCATCCCAGAGATGGA
CCAGATCTTCACTGAGGTGGAGATGACAACGTTAGAGAAAGTCATCAATGAGACCTGGGCCTGGAAGAATGCAAC
TCTGGCCGAGCAGGCTAAGCTGCCCCCACAGAGAAGCCTGTGTTGCTCTCAAAAGACATTGAAGCTAAGATGAT
GGCCCTGGACCGAGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCCCCGGCCCCGGCCTAAGGACAA
GAATGGGACCCGGGCAGAGCCACCCCTCAATGCCAGTGCCAGTGACCAGGGGGAGAAGGTCACTCCCTCCAGCAGG
CCAGACTGAAGATGCAGAGCCCATTTCAGAACCTGAGAAAGTAGAGACTGGATCCGAGCCAGGAGACACTGAGCC
TTTGGAGTTAGGAGGTCTTGGAGCAGAACCTGAACAGAAAGAACAATCGACAGGACAGAAGCGGCCCTTTGAAGAA
CGACGAACTATTACCCCCACCTCTGTTTTTCCCCATTCATCTCCACCCCTTCCCCCACCCTTCTATTATTATTA
CATCGAGGGTTGGGGGAGGGGTGGTCTCTGCCCTCGGCTGGAGTTCTTTCTCACCCTGTGATTTGGAGGTGTG
GAGAAGGGGAAGGGAGGGACAGCTCACTGGTTCTTCTGCAGTACCTCTGTGGTTAAAAATGGAAGTGTCTCCT
CCCCAGCCCCACTCCTGTTCCCTACCCATATAGGCCCAAATTTGGGAAAATCACTATTAATTTCTGAATCCTTTG
CCTGTGCGGTAGGAAGAGAATGGCTGCCAGTGGCTGATGGGTCCCGGTGATGGGAAGGGTATCAGGTTGCTGGGG
AGTTTCCACTCTTCTCTGGTGATTGTTCTTCCCTCCCTTCTCTCCACCATGCGATGAGCATCCTTTCAGGCC
AGTGTCTGCAGAGCCTCAGTTACCAGGTTTGGTTTCTGAGTGCCTATCTGTGCTCTTCTCCTCCTCTGCGGGCTT
CTCTTGCTCTGAGCCTCCCTTCCCCATTCCCATGCAGCTCCTTCCCCCTGGGTTTCTTGGCTTCTCTGCAGCAA

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FIGURE 3355B

ATTGGGCAGTTCTCTGCCCCCTTGCCTAAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGATTCTCA
CTCGTATTTCCACCCCTAGTGGCCAGAGGAGGGAGGGGCACAGTGAAGAAGGGAGCCCACCACCTCTCCGAAGA
GGAAAGCCACGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTCATAATCTGCATCTTCCCAGCA
GCCTGGTACCCCAGGTTCTGTAACTCCCTGCCTCCTCCTCTCTTCTGCTGTTCTGCTCCTCCCAGACAGAGCCT
TTCCCTCACCCCTGACCCCTGGGCTGACCAAAATGTGCTTTTCTACTGTGAGTCCCTATCCCAAGATCCTGGGG
AAAGGAGAGACCATGGTGTGAATGTAGAGATGCCACCTCCCTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAG
GGTCAGGGCTGGCCTTCTCTGTGCATCACTCTGCTAGGTTGGGGGCCCCGACCCACCATACTACGCCTAGGG
AGCCCGTCTCCAGTATTCCGTCTGTAGCAGGAGCTAGGGCTGCTGCCTCAGCTCCAAGACAAGAATGAACCTGG
CTGTGTCAGTCATTTTGTCTTTTCTTTTTTTTTTTTTTTTTTTTGGCACATTGGCAGAGATGGGACCTAAGGGTCCCAC
CCCTCACCCACCCCCACCTCTTCTGTATGTTTGAATTCTTTTCTAGTAGCTGTTGATGCTGGTTGGACAGGTTTGA
GTCAAATTGTACTTTGCTCCATTGTTAATTGAGAACTGTTTCAATAAAATATCTTTTCTAC

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FIGURE 3357

GGAGGGCTCAAGGGGCTCTAAGAGGGAAAAGCTCCCCACACCCCCAGATGCTGCTCCTCCTCCCGGCTAGAGGGA
ACCCAACACCCACCAGTGAAATCTGATGCAGCTGGGAGTTTGGACCTTGGGTCTAGACAGCTGGTGCGCCCAAGA
GGTAGGGGGAGGGGTGCGGCTTCTCCCCAGTTCCAGGGAGTCTTGTGTTTAAAGCGGGGCTTGGGCAGTGTTT
TCCTGCTGAGGGTGGTTTTACATTTTTTTTCTCATTGGCCACAGAGAGTGGAGTTGGCCTAGCTCTGACGCGT
CCCCCTTTTATCCCCAATGTGCCCCCTCCATTAGGGGCTCCAGGTGGGCTCCAGCCACACTTGCTCTCTGCCTC
TGCTGACACGTGCACACACACACATGCACACACTGCTCCTCTCTGCCTGCTTTCCCTGGAGTCCCATGCCCT
GCCCCATCCAGACACTGCCAAGGCCCACCGTCTATTTCCACCTCATTCCCCCTTTAAGCTGAGAATGGGGTCT
GCCTATAGAAGCTTCCAGAGACAGCTGAGACTGGGTCCCCGGTGCCTCCACCCTAGGATCTCAGGCCTGCCCAA
ACTGCTTCTTACAGCGTGGAGGTTTCTCTGATTCTCCCTTATCTAGCAACACTTGTTCTTTTGGCTAGTCAGG
GCTGGGATCCCAGGGGGATCCACCTGCAGGAGTCAGAGGTAAAGAAGCATCCACACGGAGGGTAGTGGGGAAGGA
AGCCACATGGCAGAAGCTCTGCAACACAGTCCGAGGGACTGAGGAGTCCATACAATGCCTCACACACAAAGGC
CATTGTCAAAGCCTCGGGCCTGGCAGAAAGTGAGGGGGGTGGGGCCGCTAGGCCACCTCCTGCTCAGCCACCCCT
GGTCTCATTCTGGGATGAGGGGGAGGGCCTAGGAGAAGCCCTCCCTTTCAGTGCAGATTCCCTTCTTGAATGGG
ACATTGAGTTCTATCAGCCACCCAGACTGGGTCTTCCCATGTATATAATGGAGGAAGACCCCTCCCAGCCCTC
TCAGTCCCCCAACTCAAAGTGCCTCAGTTCTCCATCTGCTCCCAGATCCCCTGGCACTCTAGACAGGCATGCC
ATGGGAAGGACCCTGGGATGGAGAGGCAGGCTTCGCGGCCCTTCATGCCTGCCCACTGGGATTCCAGTTAACTCA
CCCCAGGGTGTGAGGGGCTCTGCAGGATGGCAAGTGTGGGGAGGAGGGAGGCAGACCACTCTGTGCCCCACGGG
CACTGACCCACCCCTGCCATAGGTTTCTAAAGGGAGGXCXAXAAACCCTCTCCCCTCCCCTCCCCTCCCTGGTGC
TGCTATTGAACCCCTGCCAGCTCCATTTCTGCCCTGGCAACCCTGGGCCAGCAGGTGGGTGCTGCTGTCTGG
CCCTCACTGCCCTGGCCCCAGCCAGGCTGCCAGTAGCCACGTAGCAGAAGTCTGAAGCCATGCCAGCCCTGGT
GCGGCTCTCCCCTCTACACATTTGGGGTACTGGATAGGGTGAAGTTAGGGGAGAAAATTGTGGAGTCTTCCAGC
CACAGGGCAGAGGGAGGTGGAGGAGCTGGGCTGCTTTTCCAGCAGTATTAGTGTCCCCCAGGACAGGGGACCTT
TTCCACATTACATCACTGCCCCATCCCACCTTACAACACTCTGGCCCCCTCTGCTTGGTCCCCTTTTCCCCCAGGC
AGGAGGCAATCCCAGGGGCTGCTGATAGAGGCATTTCTGTCCCTGTCTCCTCCTGCATCTCCTTTATCCTGC
ACTGCCACCCCTCTATTCCCCATTCTGTGTTGGACTTTGAAGGCCCCAAGCCCAGCCAAAGCACTGAGTTCCCCCT
TAAGACACCTCCACACCCCTCCCCACAAGCAAAGCACAAATTTTGGGGTCCATGTAGCATGGGCCACGTAGGAGGC
TCCTGACTTGCCAGGGGGCCAGCCTCAGCATAACCCACCGAGCAGCTGCCAGCCTGGGCTGAGGGTGGGCATGAGG
CAGGAGTCAGCACTTGGACCTAGGGATGTGAGGTTTTCTGTGCCCAAGTTTGTGGGAAGGTGGGCACTACTGCT
GGGCCCACAGACACAGCCAGCTGGCAAAAGGGAGGTCTAGCCCAGCAGAGAGATGAGGACATTTTGCCTTCTCCTT
CATGCCCACAGCATGAGCTGAGCTTCTGCTTTGCTGGAAATGAAATAAACTTGGTATGAATTGTGCCAAGGCCTC
CCCAGTTGTATCTCTGCTCTTGTGTCCTTCCCTGTCTTGGCCCCCACCCACACCCATGCCCTGTTTTCTTAA
CAGATTTTGATATTGTTCTAATGTGTAATAGAACCAGCCGAGTCCCCCTTTTATCAGAAGGGTCTGAAAAGCAGCA
GCACAGAGTAGGTGAACACAGGCCTGCAAGTGCGACCACCTCAGACCCAGTACGTGTGCCACAGTGGACACACT
CACACCTCCAACACACCCACGCGCAGGCATGTGTACACGCATGTACACACGCATGCATGCACAGCCAGATGGCCA
CTCAGCACAGATGTGGCAGAGGGAATGGTCTGATCCTGCTGAAAGCCATTAAGGAGAAACGAATTTCCAGTGCC
CGGGCTGCAAGAGAGCCTTATAGGGGCCCTGTTTCTGGGCATGCGCTTCTCTGCCAGCCAACCCCCACTTGCC
CAAGTCACTGGTGCAATAACTTTTCTGCCTTCTCAGAGCAGAGAAATTGGGAATTGTGTTAGGTGGGTGTGGGC
AGCTCTGCTGAGCCAAGCAGACACGGATGTCCCCTCTTCTGGGAGGAGGGTAGTGCTCCCAGGCCTCAGGAGTCC
AGACAGAGACCCCCAAAGCCTGACTGCCAACAGAAACCCTCTCCTAGTGAGGGGCAGGTGGGTGTGCCCCAGGTC
CCCACACCCACAGGGAGGCTTCACACACTGCCAGTACCGGGGATGCCAGGAGGCAGGCCCTCTGCTGCTGCCA
CTGCTGCCAACACTGCCAGCTTGTGAGGCCAGGAGAGCCCTGTCCACTCGGTGCTGCTGCTCTTCTGACCC
CTGCTGTGAGGAATGGGATTCTTGGTCAAAAAATTGGTTTTCTTTTGTATAAATGAAAAGAATCCAGGAGA
AGCTGCCACCCCTCCCCTCCCAGCGTGATGCGCTACCTTGCTTCGGCGTCTGTGCGCCCTTTCCGCTTTGGTCCA
GGGACAGCCCAGCAGATCCTCCTGGTTCTGACCTGGGGGGTGTGTCATCACCCCTTTTACTTGTATTAAAAAA
AAATGATGGGTTGAAAATGTACTGAGGATTAAAAATGTACTTTTTTATAAATAAAGTGTTTAAAAAC

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FIGURE 3358

CAGGCATCCAAAGCTGAGGTCGCTCCTACGGCCTGGGCTCGCCTTCGCTTTAGAGATGTTTGGCCTCTTCCCTCC
CAAACAGCCCATCTTCAAACCTGGACTCTTGGACTGGCACCTTGCCACCTTTCCCTCTACCAAGACTCCACTTC
CGTCTTACCCACTTCTTCCCTCAGATTCTTGGTACCCCTGGGTGGAGACTGCTCATTTTCCCTTCCAAATTAATC
CCAGACCCCTAAAAATATTGACAACCTTGACAACCCCCCAACCGAGGAGCCAGACTTTGTTTTGGACTAACTTCC
ATAGCCCTATCATGGAGGCAGTGTACCTGGTAGTGAATGGGTGGGCCTGGTGCTGGACGTGCTGACCTTGGTGT
TGGACCTCAACTTCTGCTGGTGTCTTCCCTCCTGGCTTCCCTGGCCTGGCTCCTGGCCTTCGTCTACAACCTGC
CGCACACGGTACTGACTAGTCTTCTGCACTTGGGCCGCGGAGTCTTGCTTTTATTGCTGGCCTTGATCGAAGCCG
TGGTCCGGTTCACATGTGGGGGCTTGCAGGCCTTGTGTA CTCTGCTGTATAGCTGCTGCTCTGGCCTAGAGAGCC
TAAAGCTCCTGGGGCACCTGGCCTCTCATGGGGCACTGCGGAGCAGGGAGATACTGCACCGGGGCGTCTCAATG
TGGTCTCCAGTGGCCATGCTTTGCTGCGCCAGGCCTGTGACATCTGTGCCATTGCCATGAGCCTGGTGGCTTATG
TGATCAACAGCCTGGTCAACATCTGCCTCATCGGCACTCAGAACCTCTTTTCCCTGGTGCTGGCCCTGTGGGATG
CAGTGACCGGGCCTCTGTGGAGGATGACAGACGTAGTGGCTGCCTTCCTAGCCACATTTCCAGCAGTGTGTGG
CCATGGCCATCCTCCTTTGGACACCCTGCCAACTAGCCCTGGAGCTGCTGGCCTCAGCTGCCCCGCTCCTGGCCA
GCTTTGTGCTTGTCAATCTCACTGGCTTGGTGTGCTAGCTTGTGTGCTGGCAGTGACGGTGACTGTGTTGCATC
CGGACTTCACCCCTGAGGCTGGCTACCCAGGCACTCAGCCAGCTCCATGCCCGGCCATCCTACCACCGTCTTCGAG
AGGATGTCTATGCGGCTCTCTCGCCTAGCACTGGGCTCAGAGGCCTGGCGCCGAGTCTGGAGCCGCAGTCTGCAGC
TGGCGAGTTGGCCAAACCGGGGAGGGGCACCTGGAGCTCCCCAGGGTGACCCTATGAGGGTATTCTCAGTTAGGA
CCCGGAGACAGGACACTCTTCCCTGAAGCGGGGCGCAGATCAGAGGCAGAAGAGGAGGAGGCCAGGACCATCAGAG
TGACACCTGTCAGGGGCCGAGAGAGGCTCAATGAGGAGGAGCCTCCAGGTGGGCAAGACCCTTGAAAATTGCTGA
AGGAGCAAGAGGAGCGGAAGAAGTGTGTCTATCTGCCAGGACCAGAGCAAGACAGTGTGCTCCTGCCCTGCCGGC
ATCTGTGCCTGTGCCAGGCCTGCACTGAAATCCTGATGCGCCACCCGCTCTACCACCGCAATTGCCCGCTCTGCC
GCCGGGGCATCCTGCAGACCCTCAATGTCTACCTCTGAAGCCTCCTTCCCTGCCTGCCCCACCCCTCCATGCTCCA
CGCAGGCACTCACGCTAGGACAGCATTAACAC

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FIGURE 3359

GGCACGAGGGGGCCACCGAGGCGCTGTCCCTGACCACCAGCACGAGACCCCTTTCTATCGCGCCAGTCCTGTGGTC
TCCGCACCTCTCCAGCTCCTGCACCCCCGGCCCCCGTGGTTCCCAGCCGCACAGTAGCGTGTCTGGGTAGCGTG
AGGACCCACGGGGCTGAGCAGGTGCCACGAGCCCCGCCGCTCTTCGCCGCCGCCGCTCTCCTCCTCTCCCGCC
CGCCGCTTGGCCCTCCCCTACCAGGCTGAGCCTCTGGCTGCCAGAAGCGCGGGGCTCCGGGAGAATACGTGCGG
TCGCCCCGTCCGCGTGCCTACGCCTTCTGCTCCAGTTGCTTTCCCAATTGAGCGGAAAAGCCGGGGCATGTTG
CCGGGGCCCTGGGCGGGACGGTTGTGCCCTGCAGCCCGAAGCCCGCCGGGGCACCTTCCCGCCACGAGCTGCC
AGTCCCTCTGCTTGGCGCCCTGCCAACGTCCACAGGACACTGGGTCCCCTTGGAGCCTCCCCAGGCTTAATGA
TTGTCCAGAAGGCGGCTATAAAGGGAGCCTGGGAGGCTGGGTGGAGGAGGAGCAGAAAAAACCAACTCAGCAG
ATCTGGGAACGTGTGAGAGCGGCAAGCAGGAACGTGGTTCAGAGGCTGTGCGTCTTGGCTGGTAGGGCTGCTCTT
TTCTACCAATGGCAGCCCAGGGCTATGGCTATTATCGCACTGTGATCTTCTCAGCCATGTTTGGGGGCTACAGCCT
GTATTACTTCAATCGCAAGACCTTCTCCTTTGTCATGCCATCATTGGTGGAAAGAGATCCCTTTGGACAAGGATGA
TTTGGGGTTCATCACCAGCAGCCAGTCGGCAGCTTATGCTATCAGCAAGTTTGTCTAGTGGGGTGCTGTCTGACCA
GATGAGTGCTCGCTGGCTCTTCTCTTCTGGGCTGCTCCTGGTTGGCCTGGTCAACATATTCTTTGCCTGGAGCTC
CACAGTACCTGTCTTTGCTGCCCTCTGGTTCCCTTAATGGCCTGGCCAGGGGCTGGGCTGGCCCCCATGTGGGAA
GGTCTGCGGAAGTGGTTTGTAGCCATCTCAGTTTGGCACTTGGTGGGCCATCCTGTCAACCAGCATGAACCTGGC
TGGAGGGCTGGGCCCTATCCTGGCAACCATCCTTGCCCAGAGCTACAGCTGGCGCAGCACGCTGGCCCTATCTGG
GGCACTGTGTGTGGTTGTCTCCTTCTGTCTCCTGCTCATCCACAATGAACCTGCTGATGTTGGACTCCGCAA
CCTGGACCCCATGCCCTCTGAGGGCAAGAAGGGCTCCTTGAAGGAGGAGAGCACCTGCGAGGCTGCTGCTGTC
CCCTTACCTGTGGGTGCTCTCCACTGGTTACCTTGTGGTGTGGAGTAAAGACCTGCTGTACTGACTGGGGCCA
GTTCTTCTTATCCAGGAGAAAGGACAGTCAGCCCTTGTAGGTAGCTCCTACATGAGTGCCCTGGAAAGTTGGGGG
CCTTGTAGGCAGCATCGCAGCTGGCTACCTGTCAGACCGGGCCATGGCAAAGGCGGGACTGTCCAACCTACGGGAA
CCCTCGCCATGGCCTGTTGCTGTTTCATGATGGCTGGCATGACAGTGTCCATGTACCTCTTCCGGGTAACAGTGAC
CAGTGACTCCCCCAAGCTCTGGATCCTGGTATTGGGAGCTGTATTGTGGTTTCTCCTCGTATGGCCCCATTGCCCT
GTTTGGAGTCATAGCCAACGAGAGTGCCCCCTCCCAACTTGTGTGGCACCTCCACGCCATTGTGGGACTCATGGC
CAATGTGGGCGGCTTTCTGGCTGGGCTGCCCTTACGACCATTTGCCAAGCACTACAGTTGGAGCACAGCCTTCTG
GGTGGCTGAAGTGATTTGTGCGGCCAGCACGGCTGCCTTCTTCTCCTACGAAACATCCGCACCAAGATGGGCCG
AGTGTCCAAGAAGGCTGAGTGAAGAGAGTCCAGGTTCCGGAGCACCATCCACGGTGGCCTTCCCCCTGCACGCT
CTGCGGGGAGAAAAGGAGGGGCTGCCTGGCTAGCCCTGAACCTTCACTTTCCATTTCTGCGCCTTTTCTGTCA
CCCGGTGGCGCTGGAAGTTATCAGTGGCTAGTGAGGTCCCAGCTCCCTGATCCTATGCTCTATTTAAAAGATAA
CCTTTGGCCTTAGACTCCGTTAGCTCCTATTTCTGCTTCAGACAAACAGGAACTTCTGCAGTCAGGAAGGCT
CCTGTACCCTTCTTCTTTCTAGGCCCTGTCTGCCCGCATCCTACCCCATCCCACTGAAGTGAGGCTATCC
CTGCAGCTGCAGGGCACTAATGACCCTTGACTTCTGCTGGGTCTAAGTCTCTCAGCAGTGGGTGACTGCTGTT
GCCAATACCTCAGACTCCAGGGAAAGAGAGGAGGCCATCATTCTCACTGTACCACTAGGCGCAGTTGGATATAGG
TGGGAAGAAAAGGTGACTTGTTATAGAAGATTAAACTAGATTGATACTGAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 3360

MAAQGYGYRTVIFSAMFGGYSLYYFNRKTF SFVMPSLVEEIPDKDDLGFITSSQSAAYAI SKFVSGVLSQMS
ARWLFSSGLLLVLVNIFFAWSSTVPVFAALWFLNGLAQGLGWPPCGKVL RKWFEP SQFGTWWAILSTSMNLAGG
LGPILATILAQSYSWRSTLALSGALCVVVSFLCLLLIHNEPADVGLRNLDMPMPSEGKKGSLKEESTLQE LLLSPY
LWVLSTGYLVVFGVKTCCTDWGQFFLIQEKQSALVGSSYMSALEVGGLVGSI AAGYLSDRAMAKAGLSNYGNPR
HGLLLFMMAGMTVSMYLFRTVTSDSPKLWILVLGAVFGFSSYGPIALFGVIANESAPPNL CGTSHAIVGLMANV
GGFLAGLPFSTIAKHYSWSTAFWVAEVICAASTAAFFLLRNIRTKMGRVSKKAE

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FIGURE 3361

CTTCCTTTTTGTCCGACATCTTGACGAGGCTGCGGTGTCTGCTGCTATTCTCCGAGCTTCGCAATGCCGCCTAAG
GACGACAAGAAGAAGAAGGACGCTGGAAAAGTCGGCCAAGAAAGACAAAGACCCAGTGAACAAATCCGGGGGCAAG
GCCAAAAAGAAGAAGTGGTCCAAAGGCAAAGTTCGGGACAAGCTCAATAACTTAGTCTTGTTTGACAAAGCTACC
TATGATAAACTCTGTAAGGAAGTTCCCAACTATAAACTTATAACCCAGCTGTGGTCTCTGAGAGACTGAAGATT
CGAGGCTCCCTGGCCAGGGCAGCCCTTCAGGAGCTCCTTAGTAAAGGACTTATCAAAC TGGTTTCAAAGCACAGA
GCTCAAGTAATTTACACCAGAAATACCAAGGGTGGAGATGCTCCAGCTGCTGGTGAAGATGCATGAATAGGTCCA
ACCAGCTGTACATTTGGAAAAATAAACTTTATTAAATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3362

MPPKDDKKKKDAGKSAKKDKDPV NKSGGKAKKKKWSKGKVRDKLNNLVLFDKATYDKLCKEVPNYKLITPAVVSE
RLKIRGSLARAALQELLSKGLIKLVSKHRAQVIYTRNTKGGDAPAAGEDA

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FIGURE 3363

GAAGAAAACAGCCCAAAGATGAGAGTGATTGCGGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGAC
AGTGTGGTGGCAACATTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGAC
AAGATTCTTGATACTGCACTCTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAG
AAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCCAGTGTGCTTCCTCCTGGCTTCACCATCGGA
GCCATCTGCAAGCGGGAAAACCTCATGATGCTGTTGTCTTTACCCAAAATTTGTTGGGAAGACCCTAGAAACC
CTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCAGCTGCAGAGAAAGTTCCCGCATCTG
GAGTTCAGGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGACGAGCAGCAGGAGTTCAGTGCCATC
ATCCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCACAACCGGGTGGGGCAGATCCTGCACCCTGAGGAATGC
ATGTATGCTGTGGGCCAGGGGGCCTTGGGCGTGGAAGTGCAGGCCAAGGACCAGGACATCTTGATCTGGTGGGT
GTGCTGCACGATCCCAGACTCTGCTTCGCTGCATCGCTGAAAGGGCCTTCCTGAGGCACCTGGAAGGAGGCTGC
AGTGTGCCAGTAGCCGTGCATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGAC
GGCTCAGATAGCATACAAGAGACCATGCAGGCTACCATCCATGTCCCTGCCCAGCATGAAGATGGCCCTGAGGAT
GACCCACAGTTGGTAGGCATCACTGCTCGTAACATTCCACGAGGGCCCCAGTTGGCTGCCCAGAACTTGGGCATC
AGCCTGGCCAACTTGTTGCTGAGCAAAGGAGCCAAAAACATCCTGGATGTTGCACGGCAGCTTAACGATGCCCAT
TAACTGGTTTGTGGGGCACAGATGCCTGGGTGCTGCTGTCCAGTGCCTACATCCCGGGCCTCAGTGCCCCATTC
TCACTGCTATCTGGGGAGTGATTACCCCGGGAGACTGAACTGCAGGGTTCAAGCCTTCCAGGGATTGCTCACC
TTGGGGCCTTGATGACTGCCTTGCTCCTCAGTATGTGGGGGCTTCATCTCTTTAGAGAAGTCCAAGCAACAGCC
TTTGAATGTAACCAATCCTACTAATAAACAGTTCTGAAGGT

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FIGURE 3364

CGCAGACCTATGAATGAAGATGGAGGGAGAGCTGATGTGAAAGGCCTGGGTCCCGGCCGCAGAAGGGGCGCCAGA
CCGAAATCAGCGATCGCGTCTCTCCACCAAAGCCTCCCGGCCAGCGGCCGCGTCTGAAAGAAGAAAACAGCCCA
AAGATGAGAGTGATTTCGCGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCAACA
TTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACT
GCACCTCTCTAAGGGATTCACTCAGGCTCTTTCTGTCCGGCAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTT
GAACATGCCCTGGAGAAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCCACTGTGCTTCCTCCT
GGCTTCACCATCGGAGCCATCTGCAAGCGGGAAAACCCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGG
AAGACCCTAGAAACCCTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCAGCTGCAGAGA
AAGTCCCGCATCTGGAGTTCAGGAGTATTGTATCCTTTTAG

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FIGURE 3365

ATGTCGGGCGCGGCAAGACTGGCGGCAAGGCCCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCCTCCAG
TTCCCAGTGGGCGGTGTACACCGGCTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCCGGCGCGCCAGTG
TACCTGGCGGCAGTGCTGGAGTACCTCACCCTGAGATCCTGGAGCTGGCGGGCAATGCGGCCCCGCGACAACAAG
AAGACGCGAATCATCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGC
GTGACGATCGCCCAGGGAGGCGTCCTGCCCCAACATCCAGGCCGTGCTGCTGCCCAAGAAGACCAGCGCCACCGTG
GGGCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCTCCCAGGAGTACTAA

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FIGURE 3366

CCCAGAATCCCAGGGAGTGATCAGCGGTGCTGTTTTTCCTTATCATCCTCTTCTGCTTCATCCCTTTCCCCTTCCT
GAACTGCTTTGTGAAGGAGCAGTGTAAGGCATTCCCCACCATGAATTTGTGGCCCTGATAGGTGCCCTCCTTGC
CATCTGCTGCATGATCTTTCCTGGGCTTTGCGGATGATGTACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACC
TACAGCTGCCTCACTACCTCTCCTCATGGTCTATTTACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCC
CTTCCGCCCCGATACTTGGCCTGCATCTGGACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGGCAGTGTT
CTGTACCAATGCCATCAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCATTTCTGCTTC
CATCATTGTCTTCAACCTGGTAGAGTTGGAAGGTGATTGTCTGGGATGATCATGTCTTTTCCCTCTACTTCATGAT
ACCCTTTTTTTTTACCACCTTTGGGATTGCTCTACCACAACCTGGTACCCATCACGGGTGTTTGTGGGAGATACCTT
CTGTTACTTTTGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTT
CATGCCCCAGGTGTTCAACTTCCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCTGCCCTCGCCACCGCAT
ACCCAGACTCAATATCAAGACAGGCAAACTGGAGATGAGCTATTCCAAGTTCAAGACCAAGAGCCTCTCTTTCTT
GGGCACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGACAGTACACCAGAGTGAGACTGAAGATGGTGA
ATCACTGAATGTAACAACATGACCCTCATCAACTTGCTACTTAAAGTCCTTGGGCCCATACATGAGAGAAACCT
CACATTGCTCCTGCTGCTGCTGCAGATCCTGGGCAGTGCCATCACCTTCTCCATTGATATCAGCTCGTTGACT
CTTCTATGATGTCTGAGTCCCTTGATCATTGTCCTTTACCTCACAGTCTCTAGGATTCTGACTCAGGCTGACCT
CTCTCTCTGGTCCCAGACTGCCTCCTTGCCCAGGCCTCTCTCACTCTTCATACTCCTCCAGATTTTGTTCCTCAGC
ATTTTCCTTTCTCTGTGATCATTGGCATCCTGGGCGTTTCTTGCCCTCTGCTGACTACTGATTGGATTTTACCTA
TGGCTTTCTGCAACTTGCTACTCTCTCCCTCTCCATCCCATCTTGCAGCCTCATAGGGTGGGATACAGCAGCTTT
TTTGCAGTTATCCACACTCACATTTAGAGTCTGACTCTCAAGGAACCACTGGTTTTTTGGGATAGAAGTTGGGC
CAGGGCTAGGAACACAGGCTCCACGGTGACATGTCTTTGATTGTAAATTAAGTGTTCGATTAGTAAGAATAA
GCAGGGGGCCACATGCTCTCAATGGAGACAATAAAGTGTGTCTTTTTCTT

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FIGURE 3367A

GCATGATTCCAGCAGGGGGCCGAGCCCCCTGGGCCCCCTACAGCCCTGTTCTGCAGAATCAGAAAGTCTGGTAA
ATGGGAACCACACCCACAGACTGCAACACGGGGACCCCTCTGCCTGTGCCAGCCACAGTTCCCTGGTGAGCTCTA
TTGAGAAGGACCTGCAAGAGATCATGGACTCACTGGTGCTAGAGGAGCCTGGAGCTGCTGGCAAGAAGCCTGCCG
CAACCTCTCCACTGTACCCGATGGCTAATGGTGGGCGCTACCTGCTGTCTCCCCAACCAGCCCCGGCGCCATGT
CTGTGGGCTCCAGCTATGAGAACACCTCTCCAGCCTTCTCTCCACTTCTGCGGTTTGGGTTCATGGCCAACTG
TAAGTGATGAGAGACACTTGAGGAGGTCTAGGGACCCTAGAGAGCCATGGAAGCCTCACAAACCAGGCTTCAGGC
CTATAGGTAGGCCTGCGGGAAAAGGCAACAAAGACCAGGAATGTGATTGTGTTCATCCCTCCTTTACCTCCTAGGC
CCCTGAGAGGTGACTGTATCTGGGTGGGTGTGTATGTGGAGAGGGGTGGATGAAGTGGTAGGGCCATGGGAGTAC
TCACTCATGGGCCTGGGCATTCAAGGACTGGCAGCAGCCCATCTGCTGATAAACAGCCAAGGGCTGCCTGAGGG
TAACTTGAGCTGAGGTGGGGACAAAGAGGGCCGTGTCCTTGGTCTACCTCTTCTCCATGTATGTCTGTGGTTGG
GTGTCTGGTCCCTGTGGGCTCATGGGTCTGTTTTCCAGCACTGTCTGTCTGCATACATGCCACCTGTCTGTATG
CTAGACTGTGTTTATCTGTGAGTGTGCATCAGTGTGCATTTGTGCATGTGAGGGCTGGTGTCTCTGTACTTGCCT
ATTAATGCAGGGCCAGGGCACATGTTGTATCCTTGTGTGCCTGTGCATCAGTGTGGTGTGTGAGTATGTGTCT
TGTGTCTGTAGATCTGTGTGTACCTGCGTCAGGACGAGCAACTGAGTTTATCTGTGTCTCATTGTGGTCTGTAGT
CTGCTTAACAGTGTGTTTCTGTATGTGTTTGTGTGTACTGTGGGTCCATTTGGTGTGTTTCTGTGTCTCTGG
GGTAGACTGAAAAAAGAAAGGAACAGGAAGATGGAAGGGGCTGTCCAGAAGTGGGCAGGAAGAACCAGGCTGTT
ATGCCATGTGGGCATGTGGCACAACAGCCTCGTTCTTCTGCCCACTTCTGGGGCACCTTGTTCCTCTGCCTC
CCCTAGGTCTTGGGGTCAGGCCTCTCCTGACTTGACACTGATGTCTAGCCCCCTGTAAACCTGCTCTCCCTCCT
GACAGGATACTGAACCTGGCTCTATCCCCACCAGGGCTCAGCTTCTCCCTTCATGTCTGCTCTGTCCATCCT
CCCCAGGAACGCCAGCGCCTGGAGACCATCCTGAACCTGTGTGCCGAATACAGCCGGGCTGATGGGGGACCTGAG
GCTGGGGAGCTTCCCAGCATTGGGGAGGCCACCGCAGCATTGGCACTGGCAGGCCGGAGGCCCTCACGAGGCCCT
GCAGGGGCTCTGGGCGGAGCAGCGAGGAGCCTGGCGTTGCCACCCAACGCCTATGGGAGAGTATGGAGCGCTCA
GATGAGGAAAATCTCAAGGAGGAGTGCAGCAGCACTGAGAGCACCCAGCAGGAGCACGAAGATGCACCTAGCACC
AAGCTCCAGGGAGAGGTGCTAGCCCTGGAAGAAGAGCGGGCTCAGGTGCTGGGGCACGTGGAGCAGCTCAAGGTC
CGTGTGAAGGAGCTAGAGCAGCAGCTGCAGGAGTCAGCCCAGAGGGCCGAATGGAGCGGGCACTGCTGCAGGGA
GAGAGGGAGGCAGAGCGGGCACTGCTGCAGAAGGAGCAGAAGGCAGTGGATCAGCTGCAGGAGAAGCTGGTGGCC
TTGGAGACAGGCATCCAGAAGGAGAGGGACAAGGAGGCAGAGGCCCTGGAGACTGAGACAAAGCTCTTTGAGGAC
TTGGAGTTCCAGCAGTTGGAGCGGGAGAGCCGCGTGGAGGAGGAGCGGAGCTGGCCGGCCAGGGGCTGCTCCGG
AGCAAGGCTGAGCTGCTCCGCAGCATCGCCAAGAGGAAGGAGCGCCTGGCCATCCTGGACAGTCAGGCTGGGCAG
ATCCGGGCTCAGGCCGTGCAGGAATCAGAACGCCTGGCCGGGACAAGAATGCCTCCTTACAGCTGCTGCAAAAG
GAGAAGGAGAAGCTGACTGTGCTGGAAGGAGATACCACTCACTCACAGGGGGCAGGCCTTTCCCGAAGACCACA
TCGACCCCTCAAAGAGATGGAGAAGCTGCTGCTCCCTGCTGTAGACTTAGAGCAGTGGTACCAGGAGCTGATGGCC
GGGCTGGGGACTGGCCCCGCTGCAGCCTCCCCTCACTCTTCTCCCCCGCTCTGCCCGCCAAAGCTTCCCGTCAG
CTGCAGGTTTACCGCTCCAAGATGGATGGCGAGGCCACCAGCCCCCTTCCCCGGACCCGCAGCGGCCCTCCCC
TCCTCCTCTGGCTCTTCTCCTCCTCCTCCTCCAGCTCAGCGTGGCTACCCTGGGGCGTAGCCCCCTCCCCAAAGAGC
GCTCTACTCACCCAGAATGGCACGGGCAGCCTTCTCGCAACCTGGCAGCCACACTGCAGGACATCGAGACCAAG
CGCCAACTAGCTCTGCAGCAGAAGGGACAACAAGTGATTGAAGAGCAGCGCGGGCGACTGGCTGAGCTGAAGCAG
AAAGCGGCAGCTGAGGCACAGTGCCAGTGGGATGCCCTTACGGGGCAGCACCCCTTCCCAGCGGGCCCCCTCGGGC
TTCCCCCTCTCATGCACCACTCTATCCTACACCACCTGCCTGCGGGGGCGGGAGCGTGGGGAGGAGGGTGAGCAC
GCCTATGATACGCTGAGTCTGGAGAGCTCTGACAGCATGGAGACCAGCATCTCCACCGGGGGCAACTCGGCCTGC
TCCCCTGACAACATGTCCAGCGCGAGTGGTCTGGACATGGGGAAGATCGAGGAGATGGAGAAGATGCTGAAAGAG
GCTCATGCAGAGAAGAACC GGCTCATGGAGTCGAGGGAGCGGGAGATGGAGCTGCGGCGGCAGGCCCTGGAGGAG
GAGCGGCGGAGGCGTGAGCAGGTAGAACGGAGGCTGCAGAGTGAGAGTGCCCGGAGGCAGCAGCTGGTCTGAGAAG
GAGGTCAAGATGCGGGGAGAAACAATTTTCCAGGCACGACCCCTGACCCGCTACCTGCCAATCCGGAAGGAGGAC
TTTGACCTGAAGACACATATTGAGTCATCGGGCCATGGTGTGATACCTGCCTGCACGTGGTGTCTCAGCAGCAAG
GTCTGCCGTGGCTACTTGGTCAAGATGGGCGGCAAGATTAAATCATGGAAGAAGCGCTGGTTTGTCTTCGACCGG
CTCAAGCGCACCCCTTTCTATTATGTGGACAAGCATGAGACGAAGCTGAAGGGAGTCATCTATTTCCAGGCCATT
GAGGAAGTGTACTACGACCACCTGCGCAGTGCAGCCAAGAAGAGGTTTTTCCGCTTCACTATGGTGACTGAGAGC

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FIGURE 3367B

CCGAACCCAGCCCTCACCTTCTGCGTAAAGACCCATGACCGGCTGTACTACATGGTGGCCCCATCTGCAGAGGCC
ATGCGTATCTGGATGGATGTCATTGTACAGGGGCTGAGGGCTACACTCAGTTTCATGAACCTAACTGCCGTGGGCC
TCCTGGCAGAGCACAACTGGGGCTTTTGTATAAGAAGACTTTAATATTCTGTAAGGAGCTTGGTCCTGTGAGTTT
CTGGGCTCTGGCCTCCTGAAGAACCAGCCAGAAGAAGAAAAGTAGAGGTGGCTTTGCTGCCTCCTGGGAGCCCAG
AACTTGACAGTAACCCCTTTAGGGTCCTGCCCCAGGCCAGCCAGGGCTGAGGAGCTGTCACAGAGAGGGCCTCAGC
TCTGACCTGACACCTGCTCTCCCCAGCCTGTTTTCTCTTTTCTAAAAGACAAATTATGGTACCATAAGCTGCCAA
AGATCCCCTCCTGCCTCAGACCCCTTTGCCAGGGGCTTTGGGGGCTGAGCAGAGCCACATCCAGAGTGGGGTAAT
AGCTCAGGCGGGCCGCTTCCCATTCTCAAACCCCGCTCTGCCCCATTGTTCTCCTTTCCCTTATACTTTTTTATT
ACCTTGCTCAAGGGCCAGAGATCTCAAGTGTCAACCTTGAGGTCCCAGCTCCATCCCCTAGTTGCAGACTCATCA
CCATGGTTACCATAGTGACTGCTTCATTGCCATGGTTACATACTAATTGCTGCAGCTCTGTGGCCCAGCCCACTG
CTTCAGCTGTGGGCCATCTGAGGGTACGTGCCATCATCTCTCCAGCCCAGGCCCTGGGCATCTCATGCTGGGGG
GAAGGGACTGAATACCTTTTTCTTCCCCCTGCCTGTGTCTTCAGCCCTGATGCACAGGCTGCCAGCCCCCAGT
CCAGCCCTCTCCCTTCCACTGGTGCCTTGCTTAGAGCCAGAAGGGATGAAGCCGGGGGATCTATGGAACAGAGGA
GGAGCGATGCAGTTGGGAGAGGAAGCTAGAAGGGTTATGGTTGGAGTTCTGTACAGTGTTGAGTTTCCGACAGGG
AAAGAGGATTCTCCAATGCTCCTAGAGAGAAAAGCCTGAGCAGGAGATGATGCAGCAGAGGGGAAGGGCCCTGTG
GTGCCGCCGCCCTTCTTCAGCCTCCGAAGGGTGATGGAAATGGAGAGTGGAGGACCAGGCCTCCAGCTGTCTGG
CCTCGCCCTTCACGCCTTAACACTAAGCCCACCTCCCCTGCTCTCCTTCCCAGCATTGAGCCCTTGGTTGCCTGG
GCCCAGGCTGGGGGTTTTTCAGTATTTGTAAGCATTTTCAGCAGAACAATAAAGCCTTTGGACTACGGAA

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FIGURE 3368

MDALNRNQIGPGCQTQTMVQKGPLDLIETGKGLKVQTDKPHLVSLGSGRLSTAITLLPLEEGRTVIGSAARDISL
QGPGLAPEHCYIENLRGTLTLYPCGNACTIDGLPVRQPTRLTQGCMCLCLGQSTFLRFNHPAEAKWMKSMIPAGGR
APGPPYSPVPAESES LVNGNHTPQTATRGP SACASHSSLVSSIEKDLQEIMDSLVL EEPGAAGKKPAATSPLSPM
ANGGRYLLSPPTSPGAMSVGSSYENTSPA FSP LSSPASSGSCASHSPSGQEPGPSVPPLVPARSSSYHLALQPPQ
SRPSGARSESPRLSRKGGHERPPSPGLRGLLTDSPAATVLA EARRATESPRLGGQLPVVAISLSEYPASGALSQP
TSIPGSPKFQPPVPAPRNKIGTLQDRPPSPFREPPGSE RVLTTSPSRQLVGRTFSDGLATRTLQPPESPRLGRRG
LDSMREL PPLSPSLSRRLSPLPTRTTPDPKLNREVAESPRPRRWA AHGASPEDFSLTLGARGRRTRSPSPTLGE
SLAPHKGSFSGRLSPAYSLGSLTGASPCQSPCVQRKLSSGDLRVPVTRERKNSITEISDNEDDLLEYHRRQRQER
LREQEMERLERQRLETILNLCAEYSRADGGPEAGELPSIGEATAALALAGRRPSRGLAGASGRSSEEPGVATQRL
WESMERSDEENLKEECSSTESTQQEHEDAPSTKLQGEVLAL EEEERAQVLGHVEQLKVRVKELEQQQLQESAREAM
ERALLQGEREAERALLQKEQKAVDQLQEKLVLETGIQKERDKEAEAL ETETKLFEDLEFQQLERESRVEEEREL
AGQGLLRSKAELLRSIAKRKERLAILDSQAGQIRAQAVQESERLARDKNASLQLLQKEKEKLT VLERRYHSLTGG
RPFPKTTSTLKEMEKL LLLPAVDLEQWYQELMAGLGTGPAAASPHSSPPPLPAKASRQLQVYRSKMDGEATSPLPR
TRSGPLPSSSGSSSSSSQLSVATLGRSPSPKSALLTQNGTGSLPRNL AATLQDIETKRQLALQQKGQQVIEEQR
RLAELKQKAAAEAQ CQWDALHGAAPFPAGPSGFPPLMHHSILHHL PAGRERGEEGEHAYDTLSLESSDSMET SIS
TGGNSACSPDNMSSASGLDMGKIEEMEKMLKEAHA EKNRLMESREREMELRRQALEEEERRRREQVERRLQSESAR
RQQLVEKEVKMREKQFSQARPLTRYLP IRKEDFDLKTHIESSGHGVDTC LHVVLSKVKCRGYLVKMGGKIKSWKK
RWFVFDRLKRTL SYVDKHETKLKGVIYFQAIEEVYDHLRSA AKKRFFRFTMVTESPNPALTF CVKTHDRLYM
VAPSAEAMRIWMDVIVTGAEGYTQFMN

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FIGURE 3369

CCCAGGCTCCTCGGGACTCGGCGGGTCCTCCTGGGAGTCTCGGAGGGGACCGGCTGTGCAGACGCCATGGAGTTG
GTGCTGGTCTTCCTCTGCAGCCTGCTGGCCCCCATGGTCCTGGCCAGTGCAGCTGAAAAGGAGAAGGAAATGGAC
CCTTTTCATTATGATTACCAGACCCTGAGGATTGGGGGACTGGTGTTTCGCTGTGGTCCCTCTTCTCGGTTGGGATC
CTCCTTATCCTAAGTCGCAGGTGCAAGTGCAGTTTCAATCAGAAGCCCCGGGCCCCAGGAGATGAGGAAGCCCAG
GTGGAGAACCTCATCACCGCCAATGCAACAGAGCCCCAGAAAGCAGAGAACTTGAAGTGCAGCCATCAGGTGGAAG
CCTCTGGAACCTGAGGCGGCTGCTTGAACCTTTGGATGCAAATGTGCATGCTTAAGAAAACCGGCCACTTCAGCA
ACAGCCCTTTCCCCAGGAGAAGCCAAGAAGTGTGTGTCCCCACCCTATCCCCTCTAACACCATTCCTCCACCT
GATGATGCAACTAACACTTGCCTCCCCACTGCAGCCTGCGGTCTGCCACCTCCCGTGATGTGTGTGTGTGTGT
GTGTGTGTGTGACTGTGTGTGTTTGCTAACTGTGGTCTTTGTGGCTACTTGTTTGTGGATGGTATTGTGTTTGT
AGTGAAGTGTGGACTCGCTTTCCAGGCAGGGGCTGAGCCACATGGCCATCTGCTCCTCCCTGCCCCCGTGGCCC
TCCATCACCTTCTGCTCCTAGGAGGCTGCTTGTGCCCCGAGACCAGCCCCCTCCCCTGATTTAGGGATGCGTAGG
GTAAGAGCACGGGCAGTGGTCTTCAGTCGTCTTGGGACCTGGGAAGGTTTGCAGCACTTTGTCATCATTCTTCAT
GGACTCCTTTCACTCCTTTAACAAAAACCTTGCTTCCTTATCCCACCTGATCCCAGTCTGAAGGTCTCTTAGCAA
CTGGAGATACAAAGCAAGGAGCTGGTGAGCCCAGCGTTTGACGTCAGGCAGGCTATGCCCTTCCGTGGTTAATTT
CTTCCCAGGGGCTTCCACGAGGAGTCCCCATCTGCCCCGCCCCCTTACAGAGCGCCCCGGGGATTCCAGGCCCAGG
GCTTCTACTCTGCCCCCTGGGGAATGTGTCCCCCTGCATATCTTCTCAGCAATAACTCCATGGGCTCTGGGACCCTA
CCCCTTCCAACCTTCCCTGCTTCTGAGACTTCAATCTACAGCCCAGCTCATCCAGATGCAGACTACAGTCCCTGC
AATTGGGTCTCTGGCAGGCAATAGTTGAAGGACTCCTGTTCCGTTGGGGCCAGCACACCGGGATGGATGGAGGGA
GAGCAGAGGCCTTTGCTTCTCTGCCTACGTCCCCCTTAGATGGGCAGCAGAGGCAACTCCCGCATCCTTTGCTCTG
CCTGTCGGTGGTCAGAGCGGTGAGCGAGGTGGGTTGGAGACTCAGCAGGCTCCGTGCAGCCCTTGGGAACAGTGA
GAGGTTGAAGGTCATAACGAGAGTGGGAACTCAACCCAGATCCCGCCCCCTCCTGTCTCTGTGTTCCCGCGGAAA
CCAACCAAACCGTGCGCTGTGACCCATTGCTGTTCTCTGTATCGTGATCTATCCTCAACAACAACAGAAAAAAGG
AATAAAATATCCTTTGTTTCCTAGTGA

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FIGURE 3370

MELVLVFLCSLLAPMVLASAAEKEKEMDPFHYDYQTLRIGGLVFAVVLFSVGILLILSRCKCSFNQKPRAPGDE
EAQVENLITANATEPQKAEN

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FIGURE 3371

ATCCTGTCTGTCCGAACCCAGACACAAGTCTTCACTCCTTCCTGCGAGCCCTGAGGAAGCCTTCTTTCCCCAGAC
ATGGCCAACAAGGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATCGAGAAGAAGTATGACGAGGAG
CTGGAGGAGCGGCTGGTGGAGTGGATCATAGTGCAGTGTGGCCCTGATGTGGGCCGCCAGACCGTGGGCGCTTG
GGCTTCCAGGTCTGGCTGAAGAATGGCGTGATTCTGAGCAAGCTGGTGAACAGCCTGTACCCCTGATGGCTCCAAG
CCGGTGAAGGTGCCCCGAGAACCCACCCCTCCATGGTCTTCAAGCAGATGGAGCAGGTGGCTCAGTTCCTGAAGGCG
GCTGAGGACTATGGGGTCATCAAGACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGCAAAGACATGGCAGCA
GTGCAGAGGACCCTGATGGCTTTGGGCAGCTTGGCAGTGACCAAGAATGATGGGCACTACCGTGGAGATCCCAAC
TGGTTTATGAAGAAAGCGCAGGAGCATAAGAGGGAATTACAGAGAGCCAGCTGCAGGAGGGAAAGCATGTCATT
GGCCTTCAGATGGGCAGCAACAGAGGGGCCTCCCAGGCCGGCATGACAGGCTACGGACGACCTCGGCAGATCATC
AGTTAGAGCGGAGAGGGCTAGCCCTGAGCCCGGCCCTCCCCAGCTCCTTGGCTGCAGCCATCCCGCTTAGCCTG
CCTCACCCACACCCGTGTGGTACCTTCAGCCCTGGCCAAGCTTTGAGGCTCTGTCACTGAGCAATGGTAACTGCA
CCTGGGCAGCTCCTCCCTGTGCCCCCAGCCTCAGCCCAACTTCTTACCCGAAAGCATCACTGCCTTGGCCCCCTCC
CTCCCGGCTGCCCCCATCACCTCTACTGTCTCCTCCCTGGGCTAAGCAGGGGAGAAGCGGGCTGGGGGTAGCCTG
GATGTGGGCCAAGTCCACTGTCTCCTTGGCGGCAAAAGCCCATTGAAGAAGAACCAGCCAGCCTGCCCCCTAT
CTTGTCTGGAATATTTTTGGGGTTGGAACCTC

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FIGURE 3372

MANKGPSYGMSREVVQSKIEKKYDEELEERLVEWIIIVQCGPDVGRPDGRRLGFQVWLKNGVILSKLVNSLYPDGSK
PVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTDMFQTVDLFEGKDMAAVQRTLMALGSLAVTKNDGHYRGDPN
WFMKKAQEHKREFTESQLQEGKHVIGLQMGSNREGASQAGMTGYGRPRQIIS

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FIGURE 3373

CCTTTCCGGCGGTGATGACCTACCCACACGAGAACATGCCTCTTGCAAAGGGTCTCCTTCATCCCTCTCCAGAAA
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTGCTTCATGGATGTGAAATGCCCAG
GATGCTATAAAATCATCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCT
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCCCTTCAGGAGGAAGCAGCACTAAAAGCACTCTG
AATCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAATT

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FIGURE 3374

GAC**ATG**CTCAGCAACATGCCAGGCACAGCTGCAGGCTCCAGTGGGCGCGGCATCTCCATCAGCCCCAGTGCTGGT
CAGATGCAGATGCAGCACCGTACCAACCTGATGGCCACCCTCAGCTATGGGCACCGTCCCTTGTCCAAGCAGCTG
AGTGCTGACAGTGCAGAGGCTCACAGCTTGAACGTGAATCGGTTCTCCCCTGCTAACTACGACCAGGCGCATTTA
CACCCCCATCTGTTTTTCGGACCAGTCCCGGGGTTCCCCCAGCAGCTACAGCCCTTCAACAGGAGTGGGGTTCTCT
CCAACCCAAGCCCTGAAAGTCCCTCCACTTGACCAATTCCCCACCTTCCCTCCCAGTGCACATCAGCAGCCGCCA
CACTATACCACGTCGGCACTACAGCAGGCCCTGCTGTCTCCCACGCCGCCAGACTATACAAGACACCAGCAGGTA
CCCCACATCCTTCAAGGACTGCTTTCTCCCCGGCATTGCTCACCGGCCACTCGGACATCCGGCTGCCCCCAACA
GAGTTTGACAGCTCATTAAAAGGCAGCAGCAACAACGGCAGCAGCAGCAGCAACAGCAGCAACAGCAAGAATAC
CAGGAACTGTTTCAGGCACATGAACCAAGGGGATGCGGGGAGTCTGGCTCCCAGCCTTGGGGGACAGAGCATGACA
GAGCGCCAGGCTTTATCTTATCAAAATGCTGACTCTTATCACCATCACACCAGCCCCCAGCATCTGCTACAAATC
AGGGCACAAGAATGTGTCTCACAGGCTTCCTCACCCACCCCGCCCCACGGGTATGCTCACCAGCCGGCACTGATG
CATTGAGAGAGCATGGAGGAGGACTGCTCGTGTGAGGGGGCCAAGGATGGCTTCCAAGACAGTAAGAGTTCAAGT
ACATTGACCAAAGGTTGCCATGACAGCCCTCTGCTCTTGAGTACCGGTGGACCTGGGGACCCCTGAATCTTTGCTA
GGAAGTGTGAGTCATGCCCCAAGAATTGGGGATACATCCCTATGGTCATCAGCCAAGTCTGCATTCAGTAAAAAT
AAGGTGCCCAGCAGAGAGCCTGTCATAGGGAAGTGCATGGATAGAAGTTCTCCAGGACAAGCAGTGGAGCTGCCG
GATCACAATGGGCTCGGGTACCCAGCACGCCCCCTCCGTCCATGAGCACCACAGGCCCCGGGCCCTCCAGAGACAC
CACACGATCCAGAACAGCGACGATGCTTATGTACAGCTGGATAAAGTGGCAGGAATGAGTCTCGTGGCTGGGAAA
GCACTTAGCTCTGCCCGGATGTCGGATGCAGTTCTCAGTCAGTCTTCGCTCATGGGCAGCCAGCAGTTTCAGGAT
GGGGAAAATGAGGAATGTGGGGCAAGCCTGGGAGGTCATGAGCACCCAGACCTGAGTGATGGCAGCCAGCATTTA
AACTCCTCTTGCTATCCATCTACGTGTATTACAGACATTCTGCTCAGCTACAAGCACCCCCGAAGTCTCCTTCAGC
ATGGAGCAGGCAGGCGTG**TAA**CAAGAAAACAGAGAGTTTTGTGTACAGCTTGGGAATGAAAAGGTTGATTGTAAAC
CCACAGTATCTAGCAGCGTTGTGCCAAATTGCCCTTGTGTTTTCTCTCCACCCAAAATATCACAGCTGCTTTCCTC
ACATTTGGTTCATCCGTGTGCTGTTCTTTTGGGTTCTGAGAGGGTTTTGCCATGTTTGCTTGTATGACCAAGTCA
CCAAGGAAATAAACAGGAAGGAAATCC

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FIGURE 3375

MLSNMPGTAAGSSGRGISISPSAGQMOMQHRTNLMATLSYGHRPLSKQLSADSAEAHSLNVNRFSPANYDQAH LH
PHLFSDQSRGSPSSYSPSTGVGFSTQALKVPPLDQFPTFPSSAHQQPPHYTTSA LQQALLSPTPPDYTRHQQVP
HILQGLLSPRHSLTGHS DIRLPPTFAQLIKRQQQQRQQQQQQQQQQEYQELFRHMNQGDAGSLAPSLGGQSMTE
RQALSYQNADSYHHHTSPQHLLQIRAEQCVSQASSPTPPHGYAHQPALMHSESMEEDCSCEGAKDGFQDSKSSST
LTKGCHDSPLLLSTGGPGDPESLLGTVSHAQELGIHPYGHQPTAAFSKNKVPSREPVIGNCMRDRSSPGQAVELPD
HNGLGYPARPSVHEHHRPRALQRHHTIQNSDDAYVQLDNLPGMSLVAGKALSSARMSDAVL SQSSLMGSQQFQDG
ENEECGASLGGHEHPDLS DGSQHLSNSSCYPSTCITDILLSYKHPEVSFSMEQAGV

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FIGURE 3376

AGAGACTGCGAGAAGGAGGTCCCCACGGCCCTTCAGGATGAAGCTGCGGTGCTGACCTTGGCCGTGCTCTTCC
TGACGGGGAGCCAGGCTCGGCATTTCTGGCAGCAAGATGAACCCCCCAGAGCCCCTGGGATCGAGTGAAGGACC
TGGCCACTGTGTACGTGGATGTGCTCAAAGACAGCGGCAGAGACTATGTGTCCCAGTTTGAAGGCTCCGCCTTGG
GAAAACAGCTAAACCTAAAGCTCCTTGACAACCTGGGACAGCGTGACCTCCACCTTCAGCAAGCTGCGCGAACAGC
TCGGCCCTGTGACCCAGGAGTTCTGGGATAACCTGGAAAAGGAGACAGAGGGCCTGAGGCAGGAGATGAGCAAGG
ATCTGGAGGAGGTGAAGGCCAAGGTGCAGCCCTACCTGGACGACTTCCAGAAGAAGTGGCAGGAGGAGATGGAGC
TCTACCGCCAGAAGGTGGAGCCGCTGCGCGCAGAGCTCCAAGAGGGCGCGCGCCAGAAGCTGCACGAGCTGCAAG
AGAAGCTGAGCCCACTGGGCGAGGAGATGCGCGACCGCGCGCGCGCCCATGTGGACGCGCTGCGCACGCATCTGG
CCCCCTACAGCGACGAGCTGCGCCAGCGCTTGGCCGCGCGCCTTGAGGCTCTCAAGGAGAACGGCGGGCGCCAGAC
TGGCCGAGTACCACGCCAAGGCCACCGAGCATCTGAGCACGCTCAGCGAGAAGGCCAAGCCCGCGCTCGAGGACC
TCGCCAAGGCCTGCTGCCCCTGCTGGAGAGCTTCAAGGTCAGCTTCTGAGCGCTCTCGAGGAGTACACTAAGA
AGCTCAACACCCAGTGAGGCGCCCGCCGCGCCCCCTTCCCGGTGCTCAGAATAAACGTTTCCAAAGTGGG

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FIGURE 3377

MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLLDNWD
SVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYRQKVEPLRAEL
QEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRLAARLEALKENG GARLA EYHAKATEHLS
TLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ

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FIGURE 3378

CTGAATTGCGCGTGGTGGCC**ATG**GCGGCCAGCGGGGCTGTGGAACCAGGGCCCCCGGGGGCTGCCGTCGCCCCGT
CGCCCGCCCCGGCCCCGCCGCTGCCCCTGATCACCTGTTCCGGGCCATCAGCGCCGAGGACGAGGAGCAGCAGC
CCACCGAGATCGAGTCGCTATGCATGAACTGTTACTGCAATGGCATGACGCGCCTCCTGCTCACCAAGATTCCCT
TCTTCAGAGAAATAATAGTGAGCTCCTTTTCTGCGAGCACTGTGGCTGGAACAACACGGAGATCCAGTCGGCAG
GCAGGATCCAGGACCAGGGAGTGCCTACACTTTTGTCTGTGAGGGCTCTGGAGGACATGAACAGAGAAGTGGTGA
AGACTGACTCTGCTGCCACAAGGATTCCCTGAGCTAGATTTTGAAATTCCTGCCTTTAGCCAGAAAGGAGCTCTGA
CCACTGTTGAAGGATTGATCACCCGTGCTATCTCTGGCCTGGAGCAGGACCAGCCTGCACGAAGGGCAAACAAAG
ATGCTACAGCTGAAAGAATTGATGAGTTCATTGTCAAACCTGAAGGAGCTAAAGCAAGTAGCCTCCCCCTTTACTC
TGATCATTGATGATCCCTCAGGGAACAGTTTTGTGGAAAACCCACATGCTCCTCAGAAAGATGATGCCCTGGTGA
TCACACACTACAACCGGACCCGACAGCAGGAAGAGATGCTGGGGCTTCAAGAAGAAGCACCAGCAGAGAAGCCAG
AAGAGGAAGATCTCAGAAATGAAGTGCTCCAGTTCAGCACAAACTGCCCAGAATGCAATGCCCCCGCTCAGACCA
ACATGAAGCTAGTACAAATCCCTCACTTTAAGGAGGTTATCATCATGGCTACCAACTGCGAGAACTGTGGGCATC
GGACCAATGAGGTGAAATCTGGAGGAGCAGTAGAACCCTTGGGCACCAGGATCACCTCCACATCACAGATGCCT
CAGATATGACCAGAGACCTCCTCAAGTCTGAGACTTGCACTGTGGAAATCCCAGAGCTAGAATTTGAACTGGGAA
TGGCAGTCCTCGGGGGCAAGTTACACCACTGGAAGGGCTGCTGAAAGACATCCGGGAACTGGTGACCAAAAATC
CTTTCACACTGGGCGACAGTTCCAATCCTGGACAGACGGAGAGACTACAGGAGTTTAGCCAGAAAGATGGACCAGA
TCATCGAAGGTAACATGAAGGCCCACTTTATTATGGATGATCCAGCAGGAAACAGTTACTTGCAGAATGTGTATG
CGCCTGAAGATGATCCTGAGATGAAGGTGGAGCGTTACAAGCGCACCTTTGACCAAAATGAGGAGCTAGGGCTCA
ATGACATGAAGACAGAGGGCTATGAGGCAGGCCTGGCTCCGCAACGGT**AG**CAGTGGGTGGCTCAAGGGCCAGCCT
CCAGCGCTGCTCTTTCTGTAGGTTATTTATTAGTATTGGATGAAGGCGAAGGCTGGGAGTGTCTTTCCCACCAGC
CCTTGCCCATGGTGGGGAGGACATCTGGTCTGAGTCAGAGATCTGTGCACACTTTCTAAACAGCTTGTGATGCAA
GTGTGAGCCTATTGTGTTACTTGACCTTATTTTGGAAGTTTTGAATTGGCCTAGGAGGAAACCCAGAAATGAACC
AGGGGTATGTCATCACTTTTTTTCATATCAAGTCCTCACCTCCTTCCACATAATGCTCTATCCTCTAAGGTTGGA
ACTCTGAAGTTGGAGAAGGTGGAATAAAGTTACACCTGG

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FIGURE 3379

MAASGAVEPGPPGA AVAPSPAPAPPPAPDHLFRPISAEDEEQOPTIEIESLCMNCYCNGMTRLLLLTKIPFFREIIV
SSFSCHEHCGWNNTETIQSAGRIQDQGVRYTLSVRALEDMNREVVKTD SAATRIPELDFEIPAFSQKGALTTVEGLI
TRAI SGLEQDQPARRANKDATAERIDEFIVKLKELKQVASPFTLIIDDP SGNSFVENPHAPQKDDALVITHYNRT
RQQEEMLG LQEEAPAEKPEEEDLRNEVLQFSTNCPECNAPAQTNMKLVQIPHFKVII MATNCENCGHRTNEVKS
GGAVEPLGTRITLHITDASDMTRDLLKSETCSVEIPELEFELGMAVLGGKFTTLEGLLKDI RELVTKNPFTLGDS
SNPGQTERLQEF SQMDQII EGNMKAHFIMDDPAGNSYLQNVYAPEDDPEMKVERYKRTFDQNEELGLNDMKTEG
YEAGLAPQR

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FIGURE 3380

TGAACTCTGGATGCTGTTAGCCTGAGACTCAGGAAGACAACTTCTGCAGGGTCACTCCCTGGCTTCTGGAGGAAA
GAGAAGGAGGGCAGTGCTCCAGTGGTACAGAAGTGAGACATAATGGAATCAGGCTTCACCTCCAAGGACACCTAT
CTAAGCCATTTTAACCCTCGGGATTACCTAGAAAAATATTACAAGTTTGGTTCTAGGCACTCTGCAGAAAAGCCAG
ATTCTTAAGCACCTTCTGAAAAATCTTTTCAAGATATTCTGCCTAGACGGTGTGAAGGGAGACCTGCTGATTGAC
ATCGGCTCTGGCCCCACTATCTATCAGCTCCTCTCTGCTTGTGAATCCTTTAAGGAGATCGTCGTCCTGACTACTAC
TCAGACCAGAACCTGCAGGAGCTGGAGAAGTGGCTGAAGAAAGAGCCAGAGGCCTTTGACTGGTCCCCAGTGGTG
ACCTATGTGTGTGATCTTGAAGGGAACAGAGTCAAGGGTCCAGAGAAGGAGGAGAAGTTGAGACAGGCGGTCAAG
CAGGTGCTGAAGTGTGATGTGACTCAGAGCCAGCCACTGGGGGCCGTCCCCTTACCCCCGGCTGACTGCGTGCTC
AGCACACTGTGTCTGGATGCCGCCTGCCCAGACCTCCCCACCTACTGCAGGGCGCTCAGGAACCTCGGCAGCCTA
CTGAAGCCAGGGGGCTTCCTGGTGATCATGGATGCGCTCAAGAGCAGCTACTACATGATTGGTGAGCAGAAGTTC
TCCAGCCTCCCCCTGGGCCGGGAGGCAGTAGAGGCTGCTGTGAAAGAGGCTGGCTACACAATCGAATGGTTTGAG
GTGATCTCGCAAAGTTATTCTTCCACCATGGCCAACAACGAAGGACTTTTCTCCCTGGTGGCGAGGAAGCTGAGC
AGACCCCTGTGATGCCTGTGACCTCAATTAAAGCAATTCCTTTGACCTGTCA

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FIGURE 3381

MESGFTSKDITYLSHFNPRDYLEKYYKFGSRHSAESQILKHLLKNLFKIFCLDGVKGDLLIDIGSGPTIYQLLSAC
ESFKEIVVTDYSDQNLQELEKWLKKEPEAFDWSEPVVTYVCDLEGNRVKGPKEEEKLRQAVKQVLKCDVTQSQPLG
AVPLPPADCVLSTLCLDAACPDLP TYCRALRNLSLLKPGGFLVIMDALKSSYYMIGE QKFSSLPLGREAVEAAV
KEAGYTIEWFEVISQSYSSTMANNEGLFSLVARKLSRPL

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FIGURE 3382

CAGATGCAGTTTTCTCCGCACGTGCGCGCCTTCTCTCCTTCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATC
AGGGGCAGCAGTACCTGTGGCAGCATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC
CAGCGGCTTAAGCCATGGCGCTTCTCAGGGCATTTCAGCAGCAGCGTTGCTGTAAACCGACAAAGACACCTTCGAAT
TAAGCACATTCTCGATTCCAGCAAAGCACCGCAACATGACCGAAATGAGCTTCCTGAGCAGCGAGGTATTGGTG
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCCTAGGTCTCTTAGATAACTACCTG
GAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGGGACAAGGCTAAGGCGGGCTTCTCCGAATGGCTGGCT
GTGGATGGGTTAGGCAGTCCCTCCAATAACAGCAAGGAGGATGCCTTCTCCGGGACAGATTGGATGTTGGAGAAA
ATGGATTTGAAGGAGTTCGTCTTTGATGCCCTGTTGGGTATAGATAACCTGGAAACCATGCCAGATGAACTTTTG
ACCACTTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAGGAGACTAATAAGGAGACCCCCAGACGGTGA

ACCCAATTGGCCATCTCCCAGGAAGTTTAACAAAACCCGACCAGGTTGCCCCCTTCACCTTCTTGCAACCTCTTC
CCCTTTCCCCAGGGGTCCTGTCTCCACTCCAGGTCATTCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATCC
TGAAGGAGATAGGAAGCCAGACTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACCCC
TTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTATCTAGGGTCTCCTCAGCATAGCCCCCTCTACCAG
GGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCGCCCCAAACCTTACAATCCTCC
TGGAGAGACGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTGGATAAGAAGTTGAAAAAATGGAGTAAAACAA
GACAGCAGCCACTGGGTACCGCCAGAAGAAGAGGGTGGAGCAGGAGGCTCTCACTGGTGAGTGCAAAGAGCTGGA
AAAGAAGAACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAAGATTTGATAGA
AGAGGTCCGCAAGACAAGGGGGAAGAAAAGGGTCCCCTAGTTGACGGTAGTCAGGAGCGTCAATGTGCTTGTACA
TGGAGCCTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTGTAGGG

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FIGURE 3383

MTEMSFLSSEVLVGDLMSPFQSGLGAEESLGLLDNYLEVAKHFKPHGFSRDKAKAGFSEWLAVDGLGSPSNNK
EDAFSGTDWMLEKMDLKEFVFDALLGIDNLETMPDELLTTLDDTCDLFAPLVQETNKETPRR

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FIGURE 3384

GGCAGCCGTCCGGGGCCGCCACTCTCCTCGGCCGGTCCCTGGCTCCCGGAGGCGGCCGCGCGTGGATGCGGCGGG
AGCTGGAAGCCTCAAGCAGCCGGCGCCGTCTCTGCCCCGGGGCGCCCTATGGCTTGAAGAGCCTGGCCACCCAGT
GGCTCCACCGCCCTGATGGATCCACTGAATCTGTCTGGTATGATGATGATCTGGAGAGGCAGAACTGGAGCCGG
CCCTTCAACGGGTGAGACGGGAAGGCGGACAGACCCCACTACAATACTATGCCACACTGCTCACCCCTGCTCATC
GCTGTCTATCGTCTTTCGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGCGAGAAGGCGCTGCAGACCACCACCAAC
TACCTGATCGTCAGCCTCGCAGTGGCCGACCTCCTCGTCGCCCACTGGTCATGCCCTGGGTTGTCTACCTGGAG
GTGGTAGGTGAGTGGAAATTCAGCAGGATTCACTGTGACATCTTCGTCACTCTGGACGTCATGATGTGCACGGCG
AGCATCCTGAACTTGTGTGCCATCAGCATCGACAGGTACACAGCTGTGGCCATGCCCATGCTGTACAATACGCGC
TACAGCTCCAAGCGCCGGGTACCGTCATGATCTCCATCGTCTGGGTCTGTCTTACCATCTCTGCCCACTC
CTCTTCGGACTCAATAACGCAGACCAGAACGAGTGCATCATTGCCAACC CGGCTTCGTGGTCTACTCCTCCATC
GTCTCCTTCTACGTGCCCTTCAATTGTACCCCTGCTGGTCTACATCAAGATCTACATTGTCTCCGAGACGCCGC
AAGCGAGTCAACACCAAACGCAGCAGCCGAGCTTTCAGGGCCACCTGAGGGCTCCACTAAAGGGCAACTGTACT
CACCCCGAGGACATGAACTCTGCACCGTTATCATGAAGTCTAATGGGAGTTTCCCAGTGAACAGGCGGAGAGTG
GAGGCTGCCCGGCGAGCCCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCAGCCCACCCGAGAGGACCCGGTAC
AGCCCCATCCCACCCAGCCACCACCAGCTGACTCTCCCCGACCCGTCCCACCATGGTCTCCACAGCACTCCCGAC
AGCCCCGCCAAACCAGAGAAGAATGGGCATGCCAAAGACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACC
ATGCCCAATGGCAAACCCGGACCTCCCTCAAGACCATGAGCCGTAGGAAGCTCTCCAGCAGAAGGAGAAGAAA
GCCACTCAGATGCTCGCCATTGTTCTCGGCGTGTTCATCATCTGCTGGCTGCCCTTCTTCATCACACACATCCTG
AACATACTGTGACTGCAACATCCCGCCTGTCTGTACAGCGCCTTCACGTGGCTGGGCTATGTCAACAGCGCC
GTGAACCCCATCATCTACACCACCTTCAACATTGAGTTCGCAAGGCCTTCTGGAAGATCCTCCACTGCTTGACTC
TGCTGCCTGCCCGCACAGCAGCCTGCTTCCCACCTCCCTGCCAGGCCGGCCAGCCTCACCCCTGCGAACCCTGA
GCAGGAAGGCCTGGGTGGATCGGCCTCCTCTTACCCCGGCAGGCCCTGCAGTGTTTCGCTTGGCTCCATGCTCCT
CACTGCCCCGACACCCTCACTCTGCCAGGGCAGTGCTAGTGAGCTGGGCATGGTACCAGCCCTGGGGCTGGGCC
CCCAGCTCAGGGGCAGCTCATAGAGTCCCCCTCCACCTCCAGTCCCCCTATCCTTGGCACCAAGATGCAGCC
GCCTTCCTTGACCTTCTCTGCGGCTCTAGGGTTGCTGGAGCCTGAGTCAGGGCCCAGAGGCTGAGTTTTCTCTT
TGTGGGGCTTGGCGTGGAGCAGCGGTGGGGAGAGATGGACAGTTACACCCTGCAAGGCCACAGGAGGCAAGC
AAGCTCTCTTGCCGAGGAGCCAGGCAACTTCAGTCCTGGGAGACCCATGTAAATACCAGACTGCAGGTTGGACCC
CAGAGATTCCCAAGCCAAAAACCTTAGCTCCCTCCCGCACCCCGATGTGGACCTCTACTTCCAGGCTAGTCCGG
ACCCACCTCACCCCGTTACAGCTCCCCAAGTGGTTCCACATGCTCTGAGAAGAGGAGCCCTCATCTTGAAGGGC
CCAGGAGGGTCTATGGGGAGAGGAACTCCTTGGCCTAGCCACCCCTGCTGCCTTCTGACGGCCCTGCAATGTATC
CCTTCTCACAGCACATGCTGGCCAGCCTGGGGCCTGGCAGGGAGGTGAGGCCCTGGAACCTCTATCTGGGCCTGGG
CTAGGGGACATCAGAGGTTCTTTGAGGGACTGCCTCTGCCCACTCTGACGCAAAACCACTTTCTTTCTATTCT
CTTCTGGCCTTTCTCTCTCTCTGTTTCCCTTCCCTTCCACTGCCTCTGCCTTAGAGGAGCCCACGGCTAAGAGGC
TGCTGAAAACCATCTGGCCTGGCCTGGCCCTGCCCTGAGGAAGGAGGGGAAGCTGCAGCTTGGGAGAGCCCCTGG
GGCTAGACTCTGTAACATCACTATCCATGCACCAACTAATAAACTTTGACGAGTCACCTTCCAGGACCCCTG
GGTAAAAAAAAAAAAAAAAA

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FIGURE 3385

MDPLNLSWYDDDLERQNWSRPFNGSDGKADRPHYNYATLLTLLIAVIVFGNVLVCMASREKALQTTTNYLIVS
LAVADLLVATLVMPWVYLEVVGWKFSTRHCDIFVTLVMMCTASILNLCAISIDRYTAVAMPMYLNTRYSSKR
RVTVMISIVWVLSFTISCPLLFGLNNADQNECIIANPAFVVYSSIVSFYVPFIVTLLVYIKIYIVLRRRRKRVNT
KRSSRAFRAHLRAPLKGNCTHPEDMKLCTVIMKSNGSFPVNRRRVEAARRAQELEMEMLSSTSPPERTRYSPIPP
SHHQLTLPDP SHHGLHSTPDSPAKPEKNGHAKDHPKIAKIFEIQTMPNGKTRTSLKTMSRRKLSQQKEKKATQML
AIVLGVFIICWLPFFITHILNIHCDNIPPVLYSAFTWLGYVNSAVNP IYTTFNIEFRKAFLKILHC

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FIGURE 3386

GATGCTGATAAAGAGAAAGATTTGCAGAAAATTTCTTAAAAATGTGGATGAAATCTCCAATTTAATTCAGGAGATG

AATTCTGATGACCCAGTTGTGCAACAGAAAAGCTGTCCTGGAGACAGAAAAGAGACTACTGCTTATGGAGGAAGAC
CAGGAGGAGGATGAATGCAGGACCACCTTGAACAAGACTATGATCAGTCCTCCACAACTGCTATGAAGAGTGCA
GAAGAAATAAACTCAGAGGCCTTCTTGGCATCTGTGGAGAAGGATGCAAAGGAACGAGCCAAGAGAAGAAGGGAA
AACAAAGTCTTGGCGGATGCCCTAAAAGAAAAAGGGAATGAAGCATTGTGCTGAAGGCAATTATGAAACAGCTATC
CTGCGCTACAGTGAGGGTTTGGAGAAGCTGAAGGACATGAAAGTGCTGTACACCAACCGAGCCCAGGCTTATATG
AACTTGAGGACTATGAGAAGGCACTGGTGGATTGTGAGTGGGCTCTCAAGTGTGATGAAAAATGCACAAAAGCA
TATTTTCACATGGGAAAAGCCAACCTGGCCCTGAAGAACTACAGTGTGTCTAGAGAGTGTATAAGAAGATCTTA
GAAATAAACCCCAAGCTGCAAACCCAGGTGAAAGGTTACCTGAATCAAGTAGATCTTCAGGAAAAAGCAGACCTT
CAAGAAAAGGAAGCCACGAACTGCTGGATTTCAGGAAAGAACACAGCCGTGACCACCAAGAACCTCCTGGAGACC
CTTTCCAAGCCTGACCAGATCCCCTTGTTCTATGCTGGGGGGATTGAGATCCTGACTGAAATGATAAATGAGTGC
ACAGAACAACTTTTATTGAGAATGCACAATGGATTAGTATCATCAGTGACAACGAGGTGATAAGAAGGTGTTTT
TCCACAGCAGGAAATGATGCAGTTGAAGAAATGGTCTGTGTGTCTGTTCTCAAGCTCTGGCAAGCAGTGTGCAGC
AGGAACGAGGAAAACCAGCGTGTGCTAGTGATACACCATGACAGGGCCAGGCTGTTGGCCGCCCTCTTGTCTCTCC
AAGGTCTTGGCCATCCGGCAGCAGAGCTATGCCCTGCTGCTGCATCTCGCCCAGACTGAGAGCGGACGGAGCCTG
ATCATCAACCACCTTGACCTGACCAGATTATTGGAAGCGCTGGTGTCAATTTCTTGATTTCTCGGATAAGGAGGCC
AACACTGCTATGGGACTGTTACAGACTTGGCTCTGGAAGAAAGATTCCAAGTCTGGTTCCAGGCCAACCTTCCA
GGTGTCTCTCCCTGCACTCACAGGCGTTCTGAAGACAGATCCCAAGGTAAGCAGCTCCTCGGCTCTGTGCCAGTGC
ATTGCCATCATGGGAAACCTCAGTGCTGAGCCCACTACCCGAAGACACATGGCGGCCTGTGAGGAATTTGGGGAT
GGCTGCTTGAGCCTCCTGGCCAGGTGTGAGGAGGATGTGGACCTGTTTCAGAGAGGTTATCTACACACTCCTGGGA
CTCATGATGAACCTGTGTCTTCAGGCTCCCTTTGTCTCTGAGGTTTGGGCTGTGGAGGTGAGCAGAAGGTGCCCTG
TCTTTACTAAACAGCCAGGATGGAGGAATCCTGACAAGAGCTGCTGGTGTCTGAGCCGGACCCCTTCTTCCTCT
CTGAAAATTGTTGAGGAGGCCTTGCGAGCAGGAGTGTTAAAGAAAATGATGAAATTCCTGAAGACAGGAGGTGAG
ACTGCATCACGTTATGCTATAAAGATACTAGCTATCTGCACGAATAGTTATCATGAAGCTCGGGAAGAAGTAATA
AGACTGGATAAAAAGTTGAGCGTTATGATGAAGCTGCTCAGCTCGGAGGATGAGGTTCTGGTGGGCAACGCTGCC
CTCTGCCTTGGTAACTGCATGGAGGTGCCCAACGTTGCGTCTTCCCTGCTAAAGACGGACCTTTTGCGGGTCTTG
TTAAAGCTTGCAGGCAGTGACACACAGAAGACGGCCGTGCAGGTGAACGCAGGCATTGCTCTGGGGAAGCTGTGC
ACAGCTGAGCCAGATTTGCTGCTCAACTGAGAAAGCTTCATGGCCTAGAAATTCTCAACTCTACGATGAAATAC
ATCAGTGATTCTTGAGAGAGACAGGGTTTGTGTGCATTTGGGGAACACACAGATGCACACCGTGTGTGTTTCCTA
TGCTAATAAAGACCTTTGATGTATCCACTTCAAAAAAAAAAAAAAAAAA

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FIGURE 3387

MNSDDFVVQQKAVLETEKRLLLLMEEDQEEDCRTLNTKTMISPPQTAMKSAEEINSEAF LASVEKDAKERAKRRR
ENKVLADALKEKGNEAFAEGNYETAILRYSEGLEKLDKMKVLYTNRAQAYMKLEDYEKALVDCEWALKCDEKCTK
AYFHMGKANLALKNYSVSRECYKKILEINPKLQTQVKGYNQVDLQEKADLQEKEAHELLDSGKNTAVTTKNLLE
TLSPDQIPLFYAGGIEILTEMINECTEQTLFRMHNGFSIISDNEVIRRCFSTAGNDAVEEMVCVSVLKLWQAVC
SRNEENQRVLVIIHHDRAALLSSKVLAIQQSYALLLHLAQTESGRSLIINHLDLTRLLEALVSFLDFSDKE
ANTAMGLFTDLALEERFQVWFQANLPGVLPALTGVLTDPKVSSSSALCQCIAMGNLSAEPTTRRHMAACEEFG
DGCLSLARCEEDVDLFREVIYTLLGLMMNLCQAPFVSEVWAVEVSRCLSLLSQDGGILTRAAGVLSRTLSS
SLKIVEEALRAGVVKKMMKFLKTGETASRYAIKILAICTNSYHEAREEVIRLDKKLSVMMKLLSSEDEVLVGNA
ALCLGNCMEVPNVASSLLKTDLLRVLLKLAGSDTQKTAVQVNAGIALGKLCTAEPRFAAQLRKLHGLEILNSTMK
YISDS

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FIGURE 3388

AAATATTCAGGAAACAAAAATCACTCAAACGGAATCGAAGCCTTTTAAACAAAGAAAATGAAATACAGATGATGAT
GATGATGATGAAGATGATGCTAAGTAAACAGAAAATCAGTACTCCGCATGCGCTCCTCTCCTAAGGTACAAAGCAG
CAAGAGGTTAGGGTGGCAAGGCTGCCTCTGGGTCCATTCTGTGGGCCACTCTCCCCAACGTTCTGACACTTCTGC
AGTCTGATCAGTGGCGATGCTAGATTATAATTTCAAACGTGTGAAGAATAATGGTCTTGTCAATTTGCTCAATGTGG
GGTTATGTTGCATTTTCTCAGCTCCTGGGGATGGAAATGGAGGATCCCAGAACACACAGCCCTGGCCCCCTTTGAT
TCTAGGGCCTGCACAGATCTCTGGTTCAAATGCACAGGCCCTCAGAATAGAGGAACATGAAGAGAGATCTTAGAG
CACACAGTAGAATGTGAGAGCCTGGGTGTCTGAGACCGGGAGGGCCAGCAGTGAGGGGCAGGCTCTTCTGGTCA
CCAGGCTGTTTCAGTGGACTCAGTTCTTCATCTTGTAAATGTCGATGGCTTTGCCACACCAGGCCAAGCCCATGCCA
TACCTTGTCAAGACTGTCAAAGTGGTTGTGGTTAGGTCAAACGTGGTTTTGGTTCTGATGGTTAGGAAGAAACAGG
TCAGCCCTCAGATCACCTGGCCCGGGACAGCTGACCCCTAGAACCCCTGGCTCTGCCATTAGCTAGGACCTAAGA
CTCTGCCCACATTTTGGTCTGTTCTCTCCATTACACATAGGTTTGTCTCAGCATGCAAGAGTTTTTCCTTTAAA
AAAAAAAAAAAAAAAAAAAAAAAAAGCAATGCTTTCTCTAAAATCAAAGAGGGAGTCATTTTATTCCAAGATGTTT
TATCTTTTATGTTAAGAGATCAAAGCTTATAATTTCTTTTTTTAATTTTTGAAGGAGGGATCAACTCCAGTTTCC
AATGTCTATGTGTCT**ATG**TGTGTATGTGCCATACATATGTATTACATGAAGACCGGCATGGCCAAGTTCTGCTG
GAGGAGCACTCAAGTGTGACGAGCAGGGCCACTGGACCCCTGCAGGGCTGTGGTGTATATAGTGCAGCTTTGGAGG
TGGAACCTCTATTTTACACTTTTCTATGGAGCCTTCCGAGTCCCAGGTTTTCACTTGAGGCTGTCTGTCTGGATG
GCGGTTTTTCAGACCTCCATTAACATCCCTACCCAGCATTTCTGTACTTCGGGGGCCTTCTCTCTTGTATATAAACT
TTTTACCAAGTGAAACATCGATACCACCTTTGTTTCCATTCTCACTGGTGTAATACT**TGAG**TACTAACTGAGAAT
TTTGACTTTGCATTCTGTGCGGAATACTTGTGTTCAATAAAAAATTG

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FIGURE 3389

MCVCAIHMYSHEDRHGQVLL EEHSSVTSRATGPCRAVVYIVQLWRWNSIFTLFYGAFRVPGFHLRLSVWMAVFRP
PLTSLPSILYFGGLLSCYKTFYQVKHRYHLCFHS HWCKY

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FIGURE 3390

CCAGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCTAGGAGGCCGAGCTCTGTTGCTTC
GAACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTTCCTTCAGGACCGACCTATCCCAGAATGGTGTGGAGTGC
AGCACATACACTTGTACCCGAGCCACCATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTTG
TCAGTGTTTTGCTCCTGGGTCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGATGGACTATTCCCTGGCTG
CAGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTTACTGACTATGTTTCATGGGGATGCCTTGCAGA
AAGCTGCCAAGGCAGGGCTTTTGGCACTTTCAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATG
TGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTTGACCTTTTTGACTTCATACTTTGAAGAATTGATGTA
TGCCTCTTTGCCTCTGCTTTGTCATGCCATTAAGCTCACAATAAGGAAGAAATAACAGATAAGTCCATTGGTGGA
CAGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAATTTAATCTTTGAGGAAAAGGTTTGAGAGGAATTATATC
TAAGTTGTGAGACTGAGTTCTATATTCTGGTGAGTTAATGGGGTTGCCTCCCAGCTTCTTATAAGACTCACAGTA
TAACTAAACATGATATATCAGCTTTTGCCTTTCAATTTATCAATCTCTTAAAGAGAATCCAACCTTTATTACGATT
AGTATATGATCAAACCTCCATATTTGCCTTGGGAATAATGGACAAAGGGAAATACTCTTAATTCATGAATAAAAA
CTTTCAGAAAATTAGACAGTGTTTAATTTTCGAAAACCTCCCTCTCTAGACAGTAGATACCACCTACTGATGGT
TACATATACTAGGGAAATTTTAAAATTAGGAAATGCTGATAGCTCATATTATAAAATTTCTAAATCCTAGGAAGAA
ACGCTTGGAGTGCTTCTGAATATACAGAAGTTCCATTTAAGGGCAAGTTTCCCCGTAGATGTATCAAATACTAC
CAACTGTAAATTGAGATTTAATTCCCAAATGTATTCTACTTGTCTAAAACAATCTGTCCACAAATATAAACTA
TAAGTAATAAATTGTTATTTTCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTATGAAAATAATTTTTTAA
ATAAAATGTTATATAATAAAAGTGTCTTCTATGCTTTT

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FIGURE 3391

MAVLWRLSAVCGALGGRALLLRTPVVRPAHISAFIQDRPIPEWCGVQHIHLSPSHHSGSKAASLHWTSERVVS
VLLGLLPAAAYLNPCSAMDYSLAAALTLHGHWGLGQVVTDYVHGDALQKAAKAGLLALSALTTFAGLCYFNYH
DVGICKAVAMLWKL

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FIGURE 3392

CCGTGAGTCTGACCTTAGGTGTCTCGTGTCTGGGGTTGATCCGAGCTGTGCGCGCCGCCGCCGCA**ATGGG**CAAAA
CGGCCAACTCTCCGGGTTCCGGGAGCCCCGACCCGACCCGGTGCAGGAGCTTCAATCGCTGGAAAGAAAAACACAGCC
ATAGGCAGAACAAAAAGAAGCAGTTGAGGAAGCAACTGAAGAAACCCGAATGGCAGGTCGAGCGCGAGAGTATCA
GCCGCCTCATGCAGAACTATGAAAAAGATAAATGTAAATGAAATCACAAAGATTTTCAGATTTTCCCTTGTCCAAAA
AAACATTGAAAGGTTTTCGAAGAAGCTCAGTACCGTTTGGTGACTGAGATACAGAAGCAGACCATTGGATTGGCTT
TGCAAGGTAAAGATGTACTTGGAGCGGCCAAAACCTGGATCTGGCAAGACTCTGGCTTTTCTTGTTCAGTGCTGG
AAGCCTTATATCGTCTGCAATGGACTTCAACAGATGGGCTGGGGGTTCTCATAATATCACCTACGAGAGAACTGG
CCTATCAGACCTTTGAGGTTCTCCGAAAAGTAGGAAAGAATCA**TG**ACTTCTCAGCTGGTCTCATCATTGGTGGA
AGGATCTAAACACGAAGCTGAGAGGATCAACAACATAAATATACTCGTGTGCACACCAGGTCGGCTTCTTCAAC
ACATGGATGAAACAGTATCTTTTCATGCTACCGACCTCCAAATGTTAGTTCTTGATGAAGCAGATAGAATCTTGG
ATATGGGCTTTGCTGATACCATGAATGCTGTTATTGAAAATCTCCCCAAGAAACGTCAGACTTTACTTTTCTCAG
CAACACAACTAAATCTGTAAAGGACCTTGACGCTTGAGTTTGAAAAACCTGAGTATGTCTGGGTTTCATGAAA
AAGCAAAATATAGCACCCCTGCCACTTTGGAACAGAACTACATAGTCTGTGAGCTGCAGCAAAAAATAAGTGTGC
TGTATTCCTTTTTTGAGAAGCCATCTGAAGAAGAAGAGCATTGTATTTTTTTCCAGTTGCAAAGAGGTCCAGTATC
TGTACCGAGTGTTTTGCGCGCTACGTCCTGGTGTTTCTATCCTTGCACTCCATGGTCGACAGCAGCAAAATGAGAA
GAATGGAAGTCTATAATGAGTTTGTCCGTAAGAGAGCTGCAGTACTCTTTGCTACTGATATTGCAGCCAGGGGTC
TGGATTTCCCGGCCGTGAATTGGGTTCTTCAGTTTGATTGTCTGAGGATGCCAACACATATATTCACAGAGCAG
GTAGAAGTCCAGGTACAAAGAGGATGGTGAAGCTTTGCTAATTTTGTACCTCAGAAAAAGCTATGGTGCAGC
AGCTTCTTCAGAAGAAAGTACCTGTGAAGGAAATCAAAATCAATCCAGAAAACTTATAGATGTCCAGAAAAAAT
TGGAATCTATTTTAGCTCAAGATCAAGATTTAAAAGAAAGAGCTCAAAGGTGTTTCGTCTCCTATGTACGATCTG
TATATCTGATGAAGGATAAAGAAGTATTTGATGTGAGCAAGTTACCTATACCTGAATATGCCCTGTCTCTTGGTC
TTGCTGTGGCACCACGCGTAAGATTTCTTCAGAAAATGCAGAAACA**ACCC**ACCAAAGAATTGGTAAGGAGCCAAG
CCGATAAAGTAATTGAGCCAAGGGCTCCCTCCCTCACCAATGACGAAGTGGAAGAATTTAGAGCCTACTTCAATG
AGAAAATGTCCATCCTTCAAAAAAGGTGGAAGAAAGACTCGAAGGGACAGAGCACAGACAGGATAATGATACTGGTA
ATGAAGAACAGGAAGAAGAAGACGATGAAGAAGAAATGGAAGAGAAACTGGCAAAAGCAAAAGGATCTCAAG
CCCCATCTCTTCTAACACCAGTGAGGCACAGAAGATCAAGGAAGTTCTACACAGTTCTTGGACAGAGATGAGG
AGGAAGAAGATGCTGATTTCTTGAAGGTGAAGCGGCATAATGTGTTTGGATTGGACCTTAAAGACGAGAAAACAT
TACAGAAGAAAGAACCTTCTAAATCCAGCATCAAGAAAAAATGACCAAGTTGCAGAAGCAAAAAAAGTAATGA
AGAGAAATTTTAAAGTGAATAAGAAGATAACATTTACTGATGAAGGGGAGTTGGTTCAGCAGTGGCCACAAATGC
AGAAATCTGCCATCAAGGATGCTGAGGAAGATGATGACACAGGTGGTATCAACTTACATAAAGCAAAGGAAAGAC
TTCAGGAAGAGGACAAATTTGACAAAGAAGAATATAGGAAAAAATTAAGGCAAAGCATCGGGAGAAAAGACTGA
AAGAAAGGGAAGCCAGAAGAGAAGCCAACAAGAGACAAGCAAAGGCCAAAGATGAAGAGGAAGCCTTTCTGGATT
GGAGTGATGATGATGATGATGATGATGATGGATTTGATCCAAGCACACTCCAGATCCAGATAAATACAGAAGCT
CTGAAGATTCAGATAGTGAAGATATGGAATAAAATAAGTGATACCAAGAAGAAGCAGGGGATGAAGAAGAGGA
GCAACAGTGAAGTGGAAGACGTGGGACCAACAAGTCATAACAGAAAGAAGGCCAGGTGGGACACTTTAGAGCCTT
TGGATACCGCCTGTCTTTAGCAGAGGATGAAGAGCTGGTGTTACATCTGCTAAGAAGTCAAAGCT**TAA**ATACTTC
CTGCGCCTGCCTTCTCCTTGAAACCTTGGTTATGACTGCGTAGGCAAGAAGTTGAAAAACAGTTGATTTGGGGGC
ACTTAGGTACCATATGCCCCATTCCCAAAGGGCACATTTCTGGATAGAAGCGATCGTATCTCCAAGTCCCTCTCA
CAGGACATGCTTTGTGCCATCACTGAGCATACTCAGATCGAGGTTGGATGATACCATTTCTTGACCCCGTTTCC
AGCATGTGTTCTGTTAGATTTTATCCATGGGTTCTACGCCTTGTCATTGGAAACACTGCCTTTGTCTTACTGG
CAAGTTCTGGAGCTCTTGTGTCAATTGTTAGAAATCCCTGTCTTGCTTACTGTACAGAAGTTTCTGTTGCTGTAA
AATTGCTCATGATTTGACGTATTTAATATTTTCAAAGAGACTATGATGGACCAGCCCTGAGAAAGAATGAGTAT
TTTTGAATTGAGATGATCAATAATAACATATTTCTATAAAAAAAAAAAAAA

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FIGURE 3393

MGKTANSPGSGARPDVRSFNRWKKKHSRQNKKKQLRKQLKKPEWQVERESISRLMQNYEKINVNEITRFSDFP
LSKKTLLKGLQEAQYRLVTEIQKQTIGLALQGKDVLGAAKTGSGKTLAFLVPVLEALYRLQWTSTDGLGVLIISPT
RELAYQTFEVLRLKVGKNHDFSAGLIIGGKDLKHEAERINNINILVCTPGRLLQHMDETVSFHDLDLQMLVLDEAD
RILDMGFADTMNAVIENTLPKKRQTLLFSATQTKSVKDLARLSLKNPEYVWVHEKAKYSTPATLEQNYIVCELQQK
ISVLYSFLRSHLKKKSIVFFSSCKEVQYLYRVFCRLRPGVSILALHGRQQQMRMEVYNEFVRKRAAVLFATDIA
ARGLDFPAVNWVLQFDCPEDANTYIHRAGRTARYKEDGEALLILLPSEKAMVQQLQKKVPVKEIKINPEKLIDV
QKKLESILAQDQDLKERAQRCFVSYSVYLMKDKEVFDVSKLPIPEYALSLGLAVAPRVRFLOKMQKQPTKELV
RSQADKVIEPRAPSLTNDEVEEFRAIFYNEKMSILQKGGKRLEGTEHRQDNDTGNEEQEEEEDEEEMEELAKAK
GSQAPSLPNTSEAQKIKEVPTQFLDRDEEEEDADFLKVKRHNVFGLDLKDEKTLQKKEPSKSSIKKKMTKVAEAK
KVMKRNFVNKKITFTDEGELVQQWPMQKSAIKDAEEDDDTGGINLHKAKERLQEEDKFDKEEYRKKIKAKHRE
KRLKEREAREANKRQAKAKDEEEAFLDWSDDDDDDDDGFDPSLTPDPDKYRSSEDSSEDMENKISDTKKKQGM
KKRSNSEVEDVGPTSHNRKKARWDTLEPLDTGLSLAEDEELVLHLLRSQS

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FIGURE 3394

ATTCAGTAAACCACTGGGAGTCCGGCAGCATGAAGGCAGCGCGCCCTCCCATGACTGCAGGGAAGTTCATGGTGG
TCGGCGGCGGCATCGCGGGCGTCACTTGTGCGGAGCAGTTGGCTACTCACTTTCCATCAGAAGATATTCTCTTGG
TAACAGCTTCTCCTGTTATGAAAGCAGTTACAAATTTCAAGCAGATTTCTAAAATATTGGAAGAATTTGATGTTG
AAGAACAATCAAGTACCATGTTAGAAAAACGCTTTCCCAACATCAAGGTTATAGAATCTGGCGTAAAGCAACTGA
AGAGTGAAGAACACTGCATTGTAACAGAAGATGGCAATCAGCATGTATATAAGAACTCTGTGTGCTGGAGCTAA
ACCAAAGTTGATATGTGAAGGAAATCCTTATGTATTAGGAATCCGTGATACAGACAGTGCTCAGGAATTTTCAGAA
ACAGCTTACTAAAGCTAAAAGAATAATGATCTTAGGGAACGGTGGTATCGCACTTGAGTTAGTGTATGAAATTGA
AGGCTGTGAAGTGATTTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTCTTCGATGCAGGAGCAGCTGAATT
CTTGACTTCAAAGCTCATTGCTGAAAAATCAGAGGCTAAAATTGCATATAAAAGAACCAGATATACAACCTGAAGG
AAGGAAAAAGGAAGCTAGAAGCAAATCTAAATCAGATAATGTAGGCAGTGCGTTGGGACCAGATTGGCATGAAGG
CTTGAATCTTAAAGGAACAAAAGAGTTTTCTCATAAGATTCACCTTGAAGCTATGTGTGAAGTAAAGAAAATCTA
CCTTCAGGATGAGTTTAGAATTTTGAAGAAAAAGTCCTTCACTTTTCCAAGAGACCATAACGTCAGTTACAACATA
TACAGAGATGTGGCCTGTCTATGTGGAATTGACCAATGAAAAGATATATGGCTGCGATTTTCATTGTCAGTGCTAC
AGGAGTTACACCGAATATAGAACCCTTTCTCCATGGTAACAGTTTTGTATCTAGGAGAAGATGGTGGCCTGAAAGT
GGATGATCATATGCACACATCCCTTCTGATATCTATGCTGCCGGTGACATCTGTACTACATCCTGGCAGCTGAG
CCCAGTCTGGCAGCAGATGAGGCTGTGGACCCAGGCTAGACAGATGGGATGGTATGCAGCAAAAGTGCATGGCTGC
AGCGAGTTCAGGAGACTCTATTGACATGGATTTTCAGCTTTGAAGCTGTTTGCTCATGTGACAAAAATTTTTAACTA
TAAGGTTGTACTGCTGGGAAAATACAATGCACAGGGCTTAGGTTAGATCATGAATTAATGCTGAGATGTACCAA
AGGACAAGAATACATCAAAGTCGTCATGCAAAATGGACGAATGATGGGAGCTTTCTTAATTGGTGAAACTGATTT
AGAAGAAACATTTGAAAACCTAATCTTAAACCAAATGAATCTTTTCATCATATGGAGAAGATCTGCTAGATCCAAA
TATTGATATAGAAGATTATTTTGACTAAAAATGGAATTTCTTCAAGAATCATATAAAGTTCCAAATGACACCAGA
AAAAATCACAAGTCAATAAAATGAATGACTGTATTGAGTTAATGATGACCACACTGAAAATTACAGAAGTGATAAT
GATATTAGTGGA AAAAATATAAAAAACATAAATTTCTAAGTTTGAAATCAGTTCAAAGTTTATTTATAGATATATCTT
TCCAATACAACACTGACCCTTGATAAAAAATCTTAAGTTATTTATTTCTGTGTTTTAAACATAAATATGTTTAC
TTGTGATTTAGCTTTGGAGCAAATTTAGGTAAGTTATCTATTTAGCCAAATGTACTCTAGTAGATTAGAACCATT
CTTTGTGAAATGTCAAATATGGCTGTGGTTTCAGGAACTTTAAATCGGTTGTATTTTACTTTAAATAGAGATG
TAGCAATATCTCGTTTGCTAATATTTATATTGATGACTTACTCCTTTTTTGTGAAATTGTACTTCTGGTTTTATA
ACCTGAAATCATCTACAAGCTTGTCCAACCTTAGCCACGGGTGCAATGCAGCCCAGGACAGCTTTGAATGCAGC
CCAACACAAATTTGTAACTTTCTTAAACCTTGAGATTTTTCTTGCAATTTTTTTTTTAAGCTTATCAGCTATCGT
CAGTGTTAGCATGTTTTATGTGCGGCCCAAGACAATTCTTCTTCCAGTGTGGCTCAGGGAAGCCAAAAGATTGGA
CATCCCTGATCTACATATTTAACTTAAAGTATCACTCAGTGAGCCTCTGTGAGTGAATATTGCTTTCAAAAAGA
TAGTTATGTCAAAGAAAAAATATAGCTAAGTATATAAAGGCATAAAAAACTTAAGACAATTATATGGACTTATT
CTCAAAATATTTTACATTTTTTGTAACTTTCTTAAACATGAGATTTTTCTTGCAATTTTTTTTTTAAGCTCATC
AGCTGTCATCAGTGTTAGCATATTTTATGTGAGGCCCAAGACAATTCTTCTTCCAATGTGGCTCAGGGAAGCCAA
AAGATTGGACATCCCTGATCTACATATTTAACTTAAAGTATCACTCATTGAAATTCTTTTAAAAACTATTGTCTA
ACTACAAAAATAGTGGCATATACATGCATAAACCATCTTTAATTAGAAAATTTAGTAACATTCATGTCAGGCATC
ATCGATTTTTCTTTTCTTAGCTCCTGTATTCTTAGAACCAGATTGCTGAAGCATGTTTGCAGCCTTCTTCTGGAA
GTTGCTGAATTTTTTCTCCATCTTTTTTATCACCTTGTTTCAAGATGACAAGTTTGAGACGATTTCAGCCTAC

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FIGURE 3395

GGCACGAGGCTGCCGCGCTGTCCGCGTTATCTCCTCCCGGTGAGAACGAACCGCAGTGTCCACCGGCGAGGAGCC
AGCCCTGTCCCGGTGAGAGAAAGACGACGAGGATACCTGGGAGCGGGCGGCGGGCTGGGCCGCGCCGGTGC
GGGCTGGCGACTCTGCTCCTCCGCTTGCTGCTGTCTCTGGGAAGTGGGTGCCAGCGCTGAGGGGCTTCCAGCGGA
CAGGGACCCCTTCCCCGGCTCCCTGCCACCCTGCCGGGGAGGGCGGAAGATGCCGGTGAAGAAGAAGAGAAA
ATCCCCTGGGGTGGCAGCAGCAGTAGCGGAAGACGGAGGCCTCAAAAAGTGTAATCTCCAGCTATTGCAGATC
CCAACCCCTGCTAGACTAATAAGTGGAGAGGAACATTTTTCAAGCAAGAAGTGCCTGGCTTGGTTTTATGAATA
TGCAGGTCCTGATGAAGTTGTAGGGCCAGAAGGAATGGAATAATTTGTGAAGACATTGGTGTGTAACCTGAAAA
TATTATTATGTTAGTTTTAGCGTGGAAATTGGAGGCTGAAAGCATGGGATTTTTTACCAAGGAAGAATGGTTAAA
GGGAATGACTTCATTACAGTGTGACTGCACAGAAAAGTTACAAAACAAATTTGACTTTTTGCGCTCACAGTTGAA
TGATATTTTCGTCATTTAAGAATATCTACAGATATGCCTTTGATTTTGCAAGGGATAAAGATCAGAGAAGCCTTGA
TATTGATACTGCTAAATCTATGTTAGCTCTTCTGCTTGGGAGGACATGGCCACTGTTTTCAGTATTTTACCAGTA
CCTGGAGCAATCAAAGTATCGTGTTATGAACAAAGATCAATGGTACAATGTATTAGAATTCAGCAGAACAGTCCA
TGCTGATCTTAGTAAGTATGATGAAGATGGTGCTTGGCCTGTTCTTCTTGATGAATTTGTTGAGTGGCAAAAAGT
CCGTCAGACATCATAGCAAGAACTATGTGAAGAAAATGCAAACCTTTCAATTTCCACGTGTATACAAGCTAATGT
GATGAGGGGGGAAAAAAATCCAACGGGTGCATTTTCATTCATATGAAAGACTTCTCATAGTACTTTTTTTTCTTTT
TTTTAAAGGAGGTTTTTTCTTGTTACATGTGATGGGCATTGAGCCACACCTCTTCTTAGACTGAATATTGAAGTTT
TTGTTTTGAGTTATGTTTATAACATTTATTTTCAGAACAATAAAGATTCAGATTTGTGAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 3396

MPVKKKRKSPGVAAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCE
DIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQNKFDLRSQNLNDISSFKNIYRYAFDFAR
DKDQRSLDIDTAKSMLALLLGRTWPLFSVFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLD
EFVEWQKVRQTS

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FIGURE 3397

CCCAGCCCCGCCCCGCGCCCCGGCTGCGCACGCGACGCCCCCTCCAGGCCCCGCTCCTGCGCCCTATTTGGTCA
TTCGGGGGGCAAGCGGCGGGAGGGGAAACGTGCGCGGCCGAAGGGGAAGCGGAGCCGCGCGCGCTGCGCAGAGG
AGCCGCTCTCGCCGCCGCCACCTCGGCTGGGAGCCCCACGAGGCTGCCGCATCCTGCCCTCGGAACAATGGGACTC
GGCGCGCGAGGTGCTTGGGCCGCGTGTCTCTGGGGACGCTGCAGGTGCTAGCGCTGCTGGGGGCCGCCCATGAA
AGCGCAGCCATGGCGGAGACTCTCCAACATGTGCCTTCTGACCATACAAATGAACTTCCAACAGTACTGTGAAA
CCACCAACTTCAGTTGCCTCAGACTCCAGTAATACAACGGTCACCACCATGAAACCTACAGCGGCATCTAATACA
ACAACACCAGGGATGGTCTCAACAAATATGACTTCTACCACCTTAAAGTCTACACCCAAAACAACAAGTGTTC
CAGAACACATCTCAGATATCAACATCCACAATGACCGTAACCCACAATAGTTCAGTGACATCTGCTGCTTCATCA
GTAACAATCACAACAACATATGCATTCTGAAGCAAAGAAAGGATCAAAATTTGATACTGGGAGCTTTGTTGGTGGT
ATTGTATTAACGCTGGGAGTTTTATCTATTCTTTACATTGGATGCAAAATGTATTACTCAAGAAGAGGCATTTCGG
TATCGAACCATAGATGAACATGATGCCCATTTTAAGGAAATCCATGGACCAAGGATGGAATACAGATTGATGCT
GCCCTATCAATTAATTTTGGTTTTATTAATAGTTTTAAACAATATTCTCTTTTTGAAAATAGTATAAACAGGCCAT
GCATATAATGTACAGTGTATTACGTAAATATGTAAAGATTCTTCAAGGTAACAAGGGTTTGGGTTTTGAAATAAA
CATCTGGATCCTTATAGACCGTTCATACAATGGTTTTAGCAAGTTCATAGTAAGACAAACAAGTCCTATCTTTTT
TTTTTTGGCTGGGGTGGGGGCATTGGTCACATATGACCAGTAATTGAAAGACGTCATCACTGAAAGACAGAATGC
CATCTGGGCATACAAATAAGAAGTTTGTACAGCACTCAGGATTTTGGGTATCTTTGTAGCTCACATAAAGAAC
TTCAGTGCTTTTCAGAGCTGGATATATCTTAATTACTAATGCCACACAGAAATTATACAATCAAACCTAGATCTGA
AGCATAATTTAAGAAAAACATCAACATTTTTTGTGCTTTAAACTGTAGTAGTTGGTCTAGAAACAAAATACTCCA
AGAAAAAGAAAATTTTCAAATAAAAACCCAAAATAATAGCTTTGCTTAGCCCTGTTAGGGATCCATTGGAGCATT
AGGAGCACATATTTTTTATTAACCTTCTTTGAGCTTTCAATGTTGATGTAATTTTTTGTCTCTGTGTAATTTAGGT
AAACTGCAGTGTTTAACATAATAATGTTTTAAAGACTTAGTTGTGAGTATTAAATAATCCTGGCATTATAGGGAA
AAAACCTCCTAGAAGTTAGATTATTTGCTACTGTGAGAATATTGTCACCACCTGGAAGTTACTTTAGTTCATTTAA
TTTTAATTTTATATTTTGTGAATATTTTAAGAAGTGTAGAGCTGCTTTCAATATCTAGAAATTTTTAATTGAGTG
TAAACACACCTAACTTTAAGAAAAAGAACCGCTTGTATGATTTTTCAAAGAACATTTAGAAATCTATAGAGTCAA
AACTATAGCGTAATGCTGTGTTTTATTAAGCCAGGGATTGTGGGACTTCCCCAGGCAACTAAACCTGCAGGATGA
AAATGCTATATTTTCTTTCATGCACTGTGATATTACTCAGATTTGGGGAAATGACATTTTATACTAAAACAAA
CACCAAAATATTTTAGAATAAATTTCTTAGAAAGTTTTGAGAGGAATTTTTAGAGAGGACATTTCTCTCTCTGA
TTTGGATATTCCCTCAAATCCCTCCTCTTACTCCATGCTGAAGGAGAAGTACTCTCAGATGCATTATGTTAATGG
AGAGAAAAAGCACAGTATTGTAGAGACACCAATATTAGCTAATGTATTTTGGAGTGTTTTCCATTTTACAGTTTA
TATTCCAGCACTCAAACCTCAGGGTCAAGTTTTAACAAAAGAGGTATGTAGTCACAGTAAATACTAAGATGGCAT
TTCTATCTCAGAGGGCCAAAGTGAATCACACCAGTTTCTGAAGGTCCTAAAAATAGCTCAGATGTCCTAATGAAC
ATGCACCTACATTTAATAGGAGTACAATAAACTGTTGTGAGCTTTTGTGTTTACAGAGAACGCTAGATATTAAGA
ATTTTGAAATGGATCATTTCTACTTGCTGTGCATTTTAACCAATAATCTGATGAATATAGAAAAAATGATCCAA
AATATGGATATGATTGGATGTATGTAACACATACATGGAGTATGGAGGAAATTTTCTGAAAAATACATTTAGATT
AGTTTAGTTTGAAGGAGAGGTGGGCTGATGGCTGAGTTGTATGTTACTAAGTGGCCCTGACTGGTTGTGCAACC
ATTGCTTCATTTCTTTGCAAAATGTAGTTAAGATATACTTTATTCTAATGAAGGCCTTTTAAATTTGTCCACTGC
ATTCTTGGTATTTCACTACTTCAAGTCAGTCAGAACTTCGTAGACCGACCTGAAGTTTCTTTTTGAATACTTGTT
TCTTTAGCACTTTGAAGATAGAAAAACCACTTTTTAAGTACTAAGTCATCATTTTGCCCTTGAAAGTTTCCTCTGCA
TTGGGTTTGAAGTAGTTTAGTTATGTCTTTTTCTCTGTATGTAAGTAGTATAATTTGTTACTTTCAAATACCCGT
ACTTTGAATGTAGGTTTTTTTTGTTGTTGTTATCTATAAAAATTGAGGGAAATGGTTATGCAAAAAAATATTTTGC
TTTGGACCATATTTCTTAAGCATAAAAAAATGCTCAGTTTTGCTTGCAATTCCTTGAGAATGTATTTATCTGAAG
ATCAAAACAAACAATCCAGATGTATAAGTACTAGGCAGAAGCCAATTTTAAATTTCTTTGAATAATCCATGAAA
GGAATAATTCAAATACAGATAAACAGAGTTGGCAGTATATTATAGTGATAATTTTGTATTTTCACAAAAAAAAG
TTAAACTCTTCTTTTCTTTTATTATAATGACCAGCTTTTGGTATTTTATTGTTACCAAGTTCTATTTTGAAT
AAAAATTGTTCTCTTCTAAAA

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FIGURE 3398

CACACAGCCTACTTTCCAAGCGGAGCCATGTTTGGTAACGGCAATGCGGCTGCAACGGCGGAAGAAAACAGCCCA
AAGATGAGAGTGATTTCGCGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCAACA
TTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACT
GCACTCTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAGAAGAATGAAGTGGAC
CTGGTTGTTCACTCCTTGAAGGACCTGCCCAGTGTGCTTCCTCCTGGCTTCACCATCGGAGCCATCTGCAAGCGG
GAAAACCCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGGAAGACCCTAGAAAACCCTGCCAGAGAAGAGT
GTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCCAGCTGCAGAGAAAGTTCCCGCATCTGGAGTTCAGGACGGGG
GAAACCTCAACACCCGGCTTCGGAAGCTGGACTATTATCTCGAGTTCAGTGCCATCATCCTGGCAACAGCTGGCC
TGCAGCGCATGGGCTGGCACAACCGGGTGGGGCAGATCCTGCACCCTGAGGAATGCATGTATGCTGTGGGCCAGG
GGGCCTTGGGCGTGGAAAGTGCAGGCCAAGGACCAGGACATCTTGGATCTGGTGGGTGTGCTGCACGATCCCGAGA
CTCTGCTTCGCTGCATCGCTGAAAGGGCCTTCCTGAGGCACCTGGAAGGAAGCTGCAGTGTGCCAGTAGCCGTGC
ATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGACGGCTCAGATAGCATACAAG
AGACCATGCAGGCTACCATCCATGTCCCTGCCCAGCATGAAGATGGCCCTGAGGATGACCCACAGTTGGTAGGCA
TCACTGCTCGTAACATTCCACGAGGGCCCCAGTTGGCTGCCCAGAACTTGGGCATCAGCCTGGCCAACTTGTTGC
TGAGCAAAGGAGCCAAAAACATCCTGGATGTTGCACGGCAGCTTAACGATGCCCATTAACTGGTTTGTGGGGCAC
AGATGCCTGGGTTGCTGCTGTCCAGTGCCTACATCCCGGGCCTCAGTGCCCCATTCTCACTGCTATCTGGGGAGT
GATTACCCCGGGAGACTGAACTGCAGGGTTCAAGCCTTCCAGGGATTTCCTCACCTTGGGGCCTTGATGACTGC
CTTGCCTCCTCAGTATGTGGGGGCTTCATCTCTTTAGAGAAGTCCAAGCAACAGCCTTTGAATGTAACCAATCCT
ACTAATAAACCAGTTCTGAAGGT

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FIGURE 3399

ACAGCAGTTACACTGCGGCGGGCGTCTGTTCTAGTGTTTGAGCCGTCGTGCTTCACCGGTCTACCTCGCTAGCAT
GTCGGGCCGCGGCAAGACTGGCGGCAAGGCCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCCTCCAGTT
CCCAGTGGGCGGTGTACACCGGCTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCCGGCGCGCCAGTGTA
CCTGGCGGCAGTGCTGGAGTACCTCACCGCTGAGATCCTGGAGCTGGCGGGCAATGCGGGCCGCGACAACAAGAA
GACGCGAATCATCCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGCGT
GACGATCGCCCAGGGAGGCGTCCCTGCCAACATCCAGGCCGTGCTGCTGCCCAAGAAGACCAGCGCCACCGTGGG
GCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCTCCCAGGAGTACTAAGAGGGCCCGCGCCGCGGCCG
GCCGCCAGGCCTCCCCATGCCACCACAAAGCCCTTTTTAAGGGCCACCACCGCCCTCATGGAAAGAGCTGAGCCG
CTTCAGACTGCGGGGCAAGCGGGCCGCGGCTCCCTTCCCCTCCCCTCCCCTCGCCCGCCTTCGCCGCCCGGCCTC
GAGTCCCCGCCCCGCCCCCGCTCCCGTCCCGCACCGCCTGCCGCGTCGGCCTCGGGCCCTGCCCTGTCCGCCGTCC
GCCCTCCGGTAGGGTTTCGGGCCCTTCCGGATGCGGCTTGGGCGCTCTTCGGGGACCTCCGTGGCGCGGAAGACCCG
AGCCTGCCGGGGGGAGGCCCGGCGGCGCCGCACCTGCCCGCCTCGGCGTTTCGTGACTCAGCCGCCCCATCCCGAGT
CGCTAAGGGGCTGCGGGGAGGCCGCGAGCACCTTCTGGAAGACTTGGCCTTCCGCTCTGACGCAGGGCCGAGGTGG
GCAGTCCAGGCCGAGAGGCCGCGGCCCTGAAGGTGAGTGAGGCCCTCGGCAGCTGCAGCCGGGGTGTCTGGTAC
CCCCCGGCGTGCTTAGCCCAGAAATTTTCAGACGCGGCGGCTGGCCGGGAGGCTTTGGTGGGAGAGACGCGA
TCCCCAATTTTCGGTCTGGCGCCCTTTCTGCGGCCGGGACCCAGGCCTTTCACATCAGCTCTCCCTCCATCTTCAT
TCATAGGTCTGCGCTGGGGCCGGGACGAACCACTTGTAACAGGCACATCTTCTCCCGAGTGACTGCCTCCTAG
GAGGACATTTAGGGGAGGGCAGAGGCCTGCAGTTTGGCTTCACGGCTGGCTATGTGGACAGCAAGAGTCGTTTTT
GCGGAAGCCGACTGGCAGCCAGGCCTGTCGGGCCCCCGACGCCGCCCATTTCCCTTCCAGCAAACCTCAACTCG
GCAATCCAAGCACCTAGATACCAGCACAAAGTCGGTTAATCCCTGTCTGGACTGAGCCTCCGTGGCTTCTGAACT
GGAATTCGAGCTAACCCTTCCACGACTAGAACCTTAGGCATTGGGGAGTTTTAGATGGACTAATTTTATTAAA
GGATTGTTTTTTTTTT

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FIGURE 3400

CGGAATTGCCCATGCCGCTGCTGATCAATTTGATCGTCTCGCTGCTGGGATTTGTGGCCACAGTCACCCTCATCC
CGGCCTTCCGGGGCCACTTCATTGCTGCGCGCCTCTGTGGTCAGGACCTCAACAAAACCAGCCGACAGCAGATCC
CAGAATCCCAGGGAGTGATCAGCGGTGCTGTTTTCTTATCATCCTCTTCTGCTTCATCCCTTTCCCTTCCCTGA
ACTGCTTTGTGAAGGAGCAGTGTAAGGCATTCCCCCACCATGAATTTGTGGCCCTGATAGGTGCCCTCCTTGCCA
TCTGCTGCATGATCTTCCCTGGGCTTTGCGGATGATGTACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACATA
CAGCTGCCTCACTACCTCTCCTCATGGTATATTTACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCCTT
TCCGCCCCGATACTTGGCCTGCATCTGGACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGCAGTGTTCTG
TACCAATGCCATCAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCATTTCTGCTTCCAT
CATTGTCTTCAACCTGGTAGAGTTGGAAGGTGATTGTCTGGGATGATCATGTCTTTTCCCTCTACTTCATGATACC
CTTTTTTTTTACCACCTTTGGGATTGCTCTACCACAACCTGGTACCCATCACGGGTGTTTGTGGGAGATACCTTCTG
TTACTTTTGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTTCAT
GCCCCAGGTGTTCAACTTCCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCCTGCCCTCGCCACCGCATACC
CAGACTCAATATCAAGACAGGCAAACCTGGAGATGAGCTATTCCAAGTTCAAGACCAAGAGCCTCTCTTTCTTGGG
CACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGACAGTACACCAGAGTGAGACTGAAGATGGTGAATT
CACTGAATGTAACAACATGACCCTCATCAACTTGCTACTTAAAGTCCTTGGGCCCATACATGAGAGAAACCTCAC
ATTGCTCCTGCTGCTGCTGCAGATCCTGGGCAGTGCCATCACCTTCTCCATTGATATCAGCTCGTTCGACTCTT
CTATGATGTCTGAGTCCCTTGATCATTGTCTTTACCTCACAGTCTCTAGGATTCTGACTCAGGCTGACCTCTC
TCTCTGGTCCCAGACTGCCTCCTTGCCCAGGCCTCTCTCACTCTTCATACTCCTCCAGATTTTGTCTCAGCATT
TTCTTTCTCTGTGATCATTGGCATCCTGGGCGTTTCTTGCCCTCTGCTGACTACTGATTGGATTTTACCTATGG
CTTTCTGCAACTTGCTACTCTCTCCCTCTCCATCCCATCTTTGCAGCCTCATAGGGTGGGATACAGCAGCTTTTT
TTGCAGTTATCCACACTCACATTTTCAAGAGTCTGACTCTCAAGGAACCACTGGTTTTTGGGATAGAATTGGGCC
AGGGCTAGGAACACAGGCTCCACGGTGACATGTCATTTGATTGTAAATTAAGTGTTCTGATTAGTAAGAACTAAG
CAGGGGGCCACATGCTCTCAATGGAGACAATAAAGTGTTGTCTTTTTCTT

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FIGURE 3401

AGGCTCTTGCAAGCAATGCCGGAACAGGATTTGCTGTTGCTGAGCCTCAAATCGCAATGTTTTGTGGGAAGTTAA
ATATGCATGTGAACATTTCAGACTGGGAAATGGGAACCTGATCCAACAGGCACCAAGAGCTGCTTTGAAACAAAAG
AAGAAGTTCTTCAGTACTGTGAGGAGATGTATCCAGAGCTACAGATCACAAATGTGATGGAGGCAAACCAGCGGG
TTAGTATTGACAACCTGGTGCCGGAGGGACAAAAAGCAATGCAAGAGTGCCTTTGTTACACCTTTCAAGTGTCTCG
TGGGTGAATTTGTAAGTGTATGCTGCTAGTTCAGAAAAGTGCCAGTTTTTCCACAAAGAGCGGATGGAGGTGT
GTGAGAATCACCAGCACTGGCACACGGTAGTCAAAGAGGCATGTCTGACTCAGGGAATGACCTTATATAGCTACG
GCATGCTGCTCCCATGTGGGGTAGACCAGTTCCATGGCACTGAATATGTGTGCTGCCCTCAGACAAAGATTATTG
GATCTGTGTCAAAGAAGAGGAAGAGGAAGATGAAGAGGAAGAGGAAGAGGAAGATGAAGAGGAAGACTATGATG
TTTATAAAAGTGAATTTCTTACTGAAGCAGATCTGGAAGACTTCACAGAAGCAGCTGTGGATGAGGATGATGAGG
ATGAGGAAGAAGGGGAGGAAGTGGTGGAGGACCGAGATTACTACTATGACACCTTCAAAGGAGATGACTACAATG
AGGAGAATCCTACTGAACCCGGCAGCGACGGCACCATGTGAGACAAGGAAATTACTCATGATGTCAAAGCTGTCT
GCTCCCAGGAGGCGATGACGGGGCCCTGCCGGGCGGTGATGCCTCGTTGGTACTTCGACCTCTCCAAGGGAAAGT
GCGTGCGCTTTATATATGTTGGCTGCGGCGGCAACAGGAACAATTTTGAGTCTGAGGATTATTGTATGGCTGTGT
GTAAAGCGATGATTCTCTCAACTCTCTGCCAACCAATGATGTTGATGTGTATTTTCGAGACCTCTGCAGATGATA
ATGAGCATGCTCGCTTCCAGAAGGCTAAGGAGCAGCTGGAGATTCCGGCACCGCAACCGAATGGACAGGGTAAAGA
AGGAATGGGAAGAGGCAGAGCTTCAAGCTAAGAACCTCCCCAAAGCAGAGAGGCAGACTCTGATTTCAGCACTTCC
AAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGAAGCAGCAGCTGGTGGAGACCCACCTGGCCCGAG
TGGAAGCTATGCTGAATGACCGCCGTCGGATGGCTCTGGAGAACTACCTGGCTGCCTTGCAGTCTGACCCGCCAC
GGCCTCATCGCATTCTCCAGGCCTTACGGCGTTATGTCCGTGCTGAGAAACAAAGATCGCTTACATACCATCCGTC
ATTACCAGCATGTGTTGGCTGTTGACCCAGAAAAGGCGGCCAGATGAAATCCCAGGTGATGACACATCTCCACG
TGATTGAAGAAAGGAGGAACCAAGCCTCTCTGCTCTACAAAGTACCTTATGTAGCCCCAAGAAATTCAAGAGG
AAATTGATGAGCTCCTTCAGGAGCAGCGTGACAGATATGGACCAGTTCACTGCCTCAATCTCAGAGACCCCTGTGG
ACGTCCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCACCGTTCCACCCCTTCCACCCCTTCCAGCCCTACCTG
AGAACGAAGACACTCAGCCGGAGTTGTACCACCCAATGAAAAAAGGATCTGGAGTGGGAGAGCAGGATGGGGGAC
TGATCGGTGCCGAAGAGAAAGTGATTAAACAGTAAGAATAAAGTGGATGAAAACATGGTCAATTGACGAGACTCTGG
ATGTTAAGGAAATGATTTTCAATGCCGAGAGAGTTGGAGGCCTCGAGGAAGAGCGGGAATCCGTGGGCCCACTGC
GGGAGGACTTCAGTCTGAGTAGCAGTGCTCTCATTGGCCTGCTGGTCAATCGCAGTGCCATTGCCACGGTCATCG
TCATCAGCCTGGTGTGCTGAGGAAGAGGCAGTATGGCACCATCAGCCACGGGATCGTGGAGGTTGATCCAATGC
TCACCCCAGAAGAGCGTCACCTGAACAAGATGCAGAACCATGGCTATGAGAACCCACCTACAAATACCTGGAGC
AGATGCAGATTTAGGTGGCAGGGAGCGCGGCAGCCCTGGCGGAGGGATGCAGGTGGGCCGGAAGATCCCACGATT
CCGATCGACTGCCAAGCAGCAGCCGCTGCCAGGGGCTGCGTCTGACATCCTGACCTCCTGGACTGTAGGACTATA
TAAAGTACTACTGTAGAACTGCAATTTCCATTCTTTTAAATGGGTGAAAAATGGTAATATAACAATATATGATAT
ATAAACCTTAAATGAAAAAATGATCTATTGCAGATATTTGATGTAGTTTTCTTTTTTAAATTAATCAGAAACCC
CACTTCCATTGTATTGTCTGACACATGCTCTCAATATATAATAAATGGGAAATGTCGATTTTCAATAATAGACTT
ATATGCAGGCTGTGCTTCCGGTTATGTTGTGTAAGTCAACTCTTCAGCCTCATTCACTGTCCTGGCTTTTATTTA
AAGAAAAAAGGCAGTATTCCCTTTTTTAAATGAGCTTTCAGGAAGTTGCTGAGAAATGGGGTGAATAGGGAAC
TGTAATGGCCACTGAAGCACGTGAGAGACCCCTCGAAAATGATGTGAAAGGACCAGTTTCTTGAAGTCCAGTGTT
TCCACGGCTGGATACCTGTGTGTCTCCATAAAAGTCCTGTACCAAGGACGTTAAAGGCATTTTATTCCAGCGTC
TTCTAGAGAGCTTAGTGTATACAGATGAGGGTGTCCGCTGCTGCTTTTCTTCCGAATCCAGTGCTTCCACAGAGA
TTAGCCTGTAGCTTATATTTGACATTCTTCACTGTCTGTTGTTTACCTACCGTAGCTTTTTTACCCTTCACTTCCC
CTTCCAATATGTCCAGATGTGACAGGCTCCTCCTCTCTGGACTTTTCTCAAAGGCACTGACCCCTCGGCCTCTACT
TTGTCCCCTCACCTCCACCCCTCCTGTACCGGCCTTGTGACATTCACTCAGAGAAGACCACACCAAGGAGGCG
GCCGCTGGCCCAGGAGAGAAACACGGGGAGGTTTGTGTTGTGTGAAAGGAAAGTAGTCCAGGCTGTCCCTGAAACTG
AGTCTGTGGACACTGTGGAAAGCTTTGAACAATTGTGTTTTTCGTACAGGAGTCTTTGTAATGCTTGTACAGTTG
ATGTCGATGCTCACTGCTTCTGCTTTTTCTTTCTTTTTTAAATCTGAAGGTTCTGGTAACCTGTGGTGTAT
TTTTATTTTCTGTGACTGTTTTTGTGTTTTTTTTTCTTTTTCTCCCTTTGACCTATTCAATGTCTCTACC
CACTATGCACAGATTAACTTCACCTACAACTCCTTAATATGATCTGTGGAGAATGTACACAGTTTAAACACAT
CAATAAATACTTTAACTTCCA

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FIGURE 3402

MAATGTAAAAATGRLLLLLLVGLTAPALALAGYIEALANAGTGFAVAEPQIAMFCGKLNMHVNIQTGKWE PDPT
GTKSCFETKEEV LQYCQEMYPELQITNVMEANQ RVSIDNWCRRDKKQCKSRFVTPFKCLVGEFVSDVLLVPEKCQ
FFHKERMVCENHQHWHTVVKEACLTQGMTLYSYGMLLP CGVDQFHGTEYVCCPQTKIIGSVSKEEEEEDEEEEEE
EEDEEEDYDVYKSEFPTEADLEDFTAAVDEDEDEDEEEGEEVVEDRDYYYDTFKGDDYNEENPTEPGSDGTMSDK
EITHDVKAVCSQEAMTGPCRAVM PRWYFDLSKGKCVRFIYGGCGGNRRNFESEDYCMAVCKAMIPPTPLPTNDVD
VYFETSADDNEHARFQKAKEQLEIRHRNRMDRVKKEWEEAE LQAKNLPKAERQTLIQHFQAMVKALEKEAASEKQ
QLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDR LHTIRHYQHVLAVDPEKAAQM
KSQVMTHLHVIEERRNQSLSLLYKVPYVAQEIQEEIDELLQEQRADMDQFTAS ISETPVDVRSSEEESEEIPPFH
PFHPPFPALPENEDTQP ELYHPMKKGSGVGEQDGGGLIGAE EKVIN SKNKVDENMVIDETLDVKEMIFNAERVGGLE
EERESVGPLREDFSLSSSALIGLLVIAVAIATVIVISLVMLRKRQYGTISHGIVEVDPMLTPEERHLNKMQNHGY
ENPTYKYLEQMQI

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FIGURE 3403

CTTTCACAAAAGGTGAAATGAGCTCTTTGTAGTGTTTCCCGCCCAGGCTGCATTTTAGAATCACAGAGGAGGGTG
GCCCCGAGGCAGCCGGGATGACAGCTCTCCCCAGGAATCCTGCTGCCTGCTGAGAAACATGGTCAGCAAGTCCCGC
TGGAAGCTCCTGGCCATGTTGGCTCTGGTCCTGGTCGTCATGGTGTGGTATTCCATCTCCCGGGAAGACAGGTAC
ATCGAGCTTTTTTATTTTCCCATCCCAGAGAAGAAGGAGCCGTGCCTCCAGGGTGAGGCAGAGAGCAAGGCCTCT
AAGCTCTTTGGCAACTACTCCCGGATCAGCCCATCTTCTGCGGCTTGAGGATTATTTCTGGGTCAAGACGCCA
TCTGCTTACGAGCTGCCCTATGGGACCAAGGGGAGTGAGGATCTGCTCCTCCGGGTGCTAGCCATCACCAGCTCC
TCCATCCCCAAGAACATCCAGAGATTGAACAATGCCCCAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACC
ACCATGCGTCTCTTCTACCCTGAATCTGCCCACCTCGACCCCCAAAGTAGAAAACAACCCAGACACACTCCTCGTC
CTGGTAGCTTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTGCGAAAGGGT
TTCTGGAAACAGCCTCCCTCATCTGGGATGTCAATCCTAAACAGATTGCGATTCTCAACCCCTTCTTCATGGAG
ATTGCAGCTGACAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCAGGATGCGGAATTTGGTCAG
AGCCGTTTCATGTCAGAGCTCAGCAGAATGGCAGCTGAACCCCTGGGAGAGCACTGCCTGTTCTGAGAAAGGCCTGC
AATTGTGTCTTCACGATGCTTTTCCAAGACAGCCAAGGCAGGTATAATTTTCTCAGCAAGAAAAGAGGAACCTCG
GAGGTGTGCACCGCCTGGCTGGCCACCCAGGTATTGGCAAAAGTGACTGTTGGGCTGCTGGCCCCGGCCCCGCCC
GCCGTCCCTGGAGCACTCACGATGCGGTCCGGCGGCGGCGTGCTCCGGATGAAGCACTTGATCTGGCCCTTCTCG
CCGTGGAGGGCGTGCTGGGTCTGGGTGCTGGAGATGATGGGGGGTCTGTTGAGAAACAGCGTCCCATTAGGCAC
CCGGGAAGGGCACGTCCCTGCTGGCGCCCTCTTGGGTGGGTTCAGAAGTGATTTCATTAATCCAAGCATTTCAGCA
AACATTTGCCGAAGGCCTGTATGTGCAAGGTAAAGTGCAAGGTAGAGGACTCAGAGATAAATTAGGCATTTCAGTC
ATAAACCTCTCAAGGGATCATGAGCGAATGCTTCTAAGTCAGAACCCCCAGAAGATACAAATAACTGTAATAAAA
GGTGGTGAGTGTTAGTACCACAGGAGCGGTGCAGATAAAGTGCTAACCGACTTC

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FIGURE 3404

GGAGAAAGGAGAGAAAGGAAAGCGCGAGGAGCCGCCGCCACCACCAGCGCAGCAGTCCTGGAGCTGTGAGGAGAT
TCGGGCCGTCACCCCTGCCTCCCCTGCGTCCCGCCACCGGCCGCTTCTGTCTCGGACCCATTCCAACAATCTCGT
AAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAAGACATGCCTCACCCGAGGATATTA AAAAAGGCATATC
GGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGAAGAAGCAGAGAGAAAAATTCAAGCAAG
TAGCGGAGGCATATGAAGTGCTGTCTCGGATGCTAAGAAACAGGACATCTATGACAAATATGGCAAAGAAGGATTAA
ATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCCAGATGATG
TCTTCAGGGAATTTTTTGGTGGAAGGGACCCATTTTCATTTGACTTCTTTGAAGACCCTTTGGAGACTTCTTTG
GGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTTCTCCGTGTTTCAGTGGATTTCCGT
CTTTTAGAAGTGGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCACTAGGTCACGGGGGCCTCACTT
CATTCTCTTCCACGTCATTTGGTGGTAGTGGCATGGGCAACTTCAAATAGATATCAACTTCAACTAAAATGGTTA
ATGGCAGAAAAATCACTACAAAGAGAATTGTGCGAAGCGGTCAAGAAAGAGTAGAAGTTGAAGAAGATGGCCAGT
TAAAGTCCTTAACAATAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAGTAATTCAACGCACGCACTTAAC
AGAAATGTTAAACTATAACAAGCACCATTTGAGGATTAACAGGAACATTTTTTTGAAGATTTCAAACGAACTCGA
CTTTCAGTATAATTGTACCTAAAGTATTTATAAACAGCTCATCGGAGCCTCTATTTGTCATAGACTTTTGAGTTG
ATTGTTGGGACCACATAATAGGACCATTTTTTTTTTGTCTTTAAATTTGTTGTAAATCTCTGTATGCACCTTGCT
TTTTTATTAAACGTACTCCAAGGTGAGTCTTGACTCTTTAGTGTAGGACAAGATTGTACACTAACACCAGCATGG
ACCTGCTTTTCATTGTGTCTGAAATGTGAGCCACGTAGTGTGCGCCTGCTGTGAAGTTAACATTGCCAGGACGAT
TCTTCTACAGAAATAATTTCAAATTTTTTCAGCATTTAGTAGTGAAAGATATTAATACATTAATGGTAATACATT
TCTGGTTTAAATATAAATTAAGGATGTTTTCTAGTTGTGTCATGAATGCTGGCAACTTAGTAAGTTTTGACAATTGT
TTAAATATGTAATGTTAAGCTTAGGTTTTAAAAAAGTAAAGCTGGTAAACTGGGTCTTTGTCAATTTGCTTTAAAAA
AAAAAAAAAGAAAATAAATGCGAATGTGTTGGTGCATTC

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FIGURE 3405

MVDYYEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAKKQDIYDKYGKEGLNG
GGGGGSHFDSPFEFGFTFRNPDDVFREFFGGRDPFSFDFFEDPFEDFFGNRRGPRGSRSRGTGSFFSVFSGFPSPF
RSGFSSFDTGFTSFGLGHGGLTSFSSTSFGGSGMGNFKRISTSTKMVNNGRKITTKRIVENGQERVEVEEDGQLK
SLTINGKEQLLRLDNK

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FIGURE 3406

CAGCAGTCCTGGAGCTGTGAGGAGATTCGGGGCCGTCACCCTGCCTCCCCTGCGTCCCGCCACCGGCCGCTTCTGT
CCTCGGACCCATTCCAACAATCTCGTAAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTC
ACCCGAGGATATTA AAAAGGCATATCGGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGA
AGAAGCAGAGAGGGACATCTATGACAAATATGGCAAAGAAGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATTT
TGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCCAGATGATGTCTTCAGGGAATTTTTTGGTGAAGGGA
CCCATTTTCATTTGACTTCTTTGAAGACCCTTTTGAGGACTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAG
AAGCCGAGGGACGGGGTCGTTTTTCTCCGTGTTCA GTGGATTTCCGTCTTTTAGAAGTGGATTTTCTTCTTTGA
TACAGGATTTACTTCATTTGGGTCACTAGGTCACGGGGGCCTCACTTCATTCTCTTCCACGTCATTTGGTGGTAG
TGGCATGGGCAACTTCAAATAGATATCAACTTCAACTAAAATGGTTAATGGCAGAGAAGATGGCCAGTTAAAGTC
CTTAACAATAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAGTAATTCAACGCACGC

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FIGURE 3407

CTTGTAAG**ATG**GCGGCGCCAGGTGGAGCGCGTCGGGCCCCCTGGATCCGGGGAAACGGCCAAGGTTGCGGGAGTC
TCTTCACTCTCGTCTCAAAGCCATTTTGTGCCGCTGCCGCTGCCCTCTACGGCCATAAATGCCCAGAGATTAGCGG
AGAAAGCTCCGAGCCCAGAAACGGGAACAAGACACAAAGAAGGAGCCGGTGTCCACAAACGCTGTTTCAGCGGAGAG
TGCAAGAAATAGTGCGGTTTACACGGCAGCTGCAGCGAGTCCACCCCAACGTGCTTGCTAAGGCACTGACCCGAG
GAATTCTCCACCAGGACAAGAACCTTGTGGTCAATCAATAAGCCCTACGGTCTCCCTGTGCATGGTGGCCCTGGGG
TCCAGCTCTGCATCACTGATGTACTACCTATCCTGGCAAAGATGCTTCATGGCCACAAGGCAGAGCCCTTGCATC
TGTGCCACCGGCTGGACAAGGAAACCACAGGTGTAATGGTGTGGCTTGGGACAAGGACATGGCACATCAAGTCC
AAGAGTTGTTTAGAACCCGTCAGGTGGTGAAGAAGTACTGGGCCATCACTGTGCATGTCCCCATGCCCTCAGCAG
GAGTCGTGGACATCCCCATTGTGGAGAAGGAGCGCAAGGCCAGCAGCAACACCACAAGATGACATTGTCCCCGA
GCTACCGCATGGACGATGGGAAAATGGTGAAAGTGCGGCGCAGCCGGAATGCGCAAGTTGCTGTAACCTCAGTACC
AGGTGCTCAGCAGCACTCTCTCCTCCGCCCTCGTGGAGCTCCAGCCCATCACTGGAATAAAACATCAGCTTCGAG
TTCATTGTCTTTTGGATTGGATTGTCCAATCCTTGGTGATCACAAGTACTCAGACTGGAATAGGTTGGCCCCC
AGAAGCTGTCTGTGGGCACCCTGAAGAAGCTGGGGCTAGAACAGTCGAAGGCCCGCTACATCCCCCTTCACCTGC
ACGCCCCGGCAGCTGATCCTGCCTGCCCTGGGGTCCGGGAAGGAGGAACCTCAACTTGGTCTGCAAACTTCCTCGCT
TCTTTGTGCATTCCCTGCACCGCCTGCGTTTAGAGATGCCAAATGAGGATCAAAATGAGAACAATGAAGCCAAGT
GTCTGGGAGCACAG**TGA**AGACCATGGGAGCACCTGGCACCTGGGAGCACAGTGAAGACCCTGAGAGCATCCTGG
CACCTGGGAGCGCAGGTTGGCCCCTGAACTGTTCTTTGTTTACAGGACTCTGCTAACTTCTCACTTGGAAACAGAC
TGCGTAAGAGCCAGGTGGGATAAGGTAAAGCAACTCAGCTGCTACAGGGCTTTTAATGGAGAACAAGTCTATTT
ACTGATAGTTTGGCTGCACTGTGGAAAAGCCTGCTGGAAGTCTCCCTGCCGTGGGCTCTCATTGCCAATATGGAA
CAGAGCCCAGGGCCAGGCAGACTGGGGCAGTGACTGGAAAAGGAAAACCTAAAGGTCAGAAATCCGGGATCAGGAAC
TGTTTTTATCCAGCAGTGAAGCTCTTGAGCTCTTAGGAAGGTTCCCGTGGTTGGAAAAGACATAATGGTTAACAA
ATATCACAGCATCCAGGGATTGCCAGCTATAGTGTGGGTGCCCTACTGAACTCTGATTAGGGAACCTGTATAAG
GGTATTGAGTGTGAGGTTGAGGTGGGACATTTGCTGAGCAAGGAGAACCGATGTGAATGGCAGGCAGATAACATG
CACACATGAAGCTGGCTGGGTGTAAGGCAGTAGCGGGGAGCGGCATGCTGTCTAACAGCTGTTAGCTCCAGCTGG
TTGTTGCCATGTGGGAATGGATTTTCTCATTTCTTCAGAGAAGCTGGAAACCTAGATATTTATGTGAAACCTCCC
AGTGTATTGCCAACTAAATCAAATTTTTTAAAGATGCTTAGGCACCTAAGCAAATAATACTTAGAGGTTGAATTTG
GTCTACAGGCTAGCAGTTTGCAGTCTATGTTTAATGAATGGTATAGAAGTTTGGGGAAAGGTGCCATCTTGAAAA
TTCTGGATCAGTGTTGGCATTTCGCTGCGTGTAGTATGTATCCTTTCTAGGCTTGGAGATGGCTTTGGTTGGT
CCGTGAATGTAGTTATGAGAGTGCTGCCATTAAAAAATCAAAAATC

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FIGURE 3408

MAAPRWSASGPWIRGNGQCGSLFTLVSKPFCAAAAASTAINAQRLAEKLRAQKREQDTKKEPVSTNAVQRRVQE
IVRFTRQLQRVHPNVLAKALTRGILHQDKNLVVINKPYGLPVHGGPGVQLCITDVLPIAKMLHGHKAEPLHLCH
RLDKETTGVMLAWDKDMAHQVQELFRTRQVVKKYWAITVHVPMPSSAGVVDIPIVEKEAQGQQQHHKMTLSPSYR
MDDGKMVKVRRSRNAQVAVTQYQVLSSTLSSALVELQPITGIKHQLRVHLSFGLDCPILGDHKYSDWNRLAPQKL
SVGTLKKLGLEQSKARYIPLHLHARQLILPALGSGKEELNLVCKLPRFFVHSLHRLRLEMPNEDQENNEAKCLG
AQ

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FIGURE 3409

CAGATAGAAACCAAATTCTATGAGGAAGTTCACGATCTTGAAAGGAATATGCTGTTCTCTATCAGCCTCTATTTG
ATAAGCGATTTGAGATTATTAATGAAATTTATGAACCCACAGAAGAACAATGTGAATGGTAACCAGATAAAGAAG
ATGAGATTTGAGAGGAGTTGAAAGAAAAGGCCAAGATCGAAGATGAGAAAAAGGATGAAGAAAAAGAAGACCCCA
AAGAAATTCCTGAATTTTGGTTAACTGTTTCTAAGAATGTTGACTTGTTTCAGTGATATGGTTCAACAACATGATG
AACCTATTCTGAAACACTTGAAAGATACTAAAGTGAAGCTCTCAGATGCTGACCAGCCTATGAATTTTGTCTTAG
AATTTCACTTTGAACCCAATGAATATTTTACAAATGAAATGCTGTCAAAGACATACAGGATGAGGTCAGAACCAG
ATGATTCTGATCCCTTTTCTTTTGATGGACCAGAAATTATGGGTTGCACAGGGTGCCAGATAGATTGGAAAAAAG
GAAAGAATGTCACTTTGAAAACCATTAAGAAGAAGCAGAAACACAAGGGAAGTGGGACAGTTCATACTGTGACTG
AGAGTGGAGATCTGGATGATGATGCTGAAATCCTTGACAGACTTCAAAATAGGTCACTTTTTACGTGAGCGTAT
AATCCCAAGAGCAGTGTCTACTTTACTGGAGAAGCTATTGAAGTTGATGATGATGTTTATGATGAAGAAGGTGA
AGAAGCGGATGAGGTAATGTTTACCAAATGAGCAAATAATTCTCTGTGTTTAAACACATTGAGAAGCAAATTGAAT
GACTTATGTATTCCTTTGCTATAATCATTCTGCAATTTGGGTTAAAAACATTTTGAAAAATATGATTTTAGAATT
CTACAGCCAAACAGTGTATGTGTAAAGTTTCAATAAAATAAA

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FIGURE 3410

MVQQHDEPILKHLKDTKVKLSADQPMNFVLEFHFEPNEYFTNEMLSKTYRMRSEPDDSDPFSDGPEIMGCTGC
QIDWKKGKNVTLKTIKKKQKHKGSGTVHTVTESGDLDDDAEILAQTSK

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FIGURE 3411

GGGGCCAGTCGTTCCGCCGAAAGCATTGTCTCCACCTCATCATAACAACAATTAATTTCTCTGGGGCCTGAG
GAGGGCAGAATTTCAACCTTCGGTGTGCTTGGGAGTGGCGATTGTGATTTACACGACAAAATGCCGAGGTGCTCG
GTGGAGTC**ATG**GCAGTGCCCTTTGTGGAAGACTGGGACTTGGTGCAAACCCTGGGAGAAGGTGCCTATGGAGAAG
TTCAACTTGCTGTGAATAGAGTAACTGAAGAAGCAGTCGCAGTGAAGATTGTAGATATGAAGCGTGCCGTAGACT
GTCCAGAAAATATTAAGAAAGAGATCTGTATCAATAAAATGCTAAATCATGAAAATGTAGTAAAAATTTCTATGGTC
ACAGGAGAGAAGGCAATATCCAATATTTATTTCTGGAGTACTGTAGTGGAGGAGAGCTTTTTTGACAGAATAGAGC
CAGACATAGGCATGCCTGAACCAGATGCTCAGAGATTCTTCCATCAACTCATGGCAGGGGTGGTTTATCTGCATG
GTATTGGAATAACTCACAGGGATATTAAACCAGAAAAATCTTCTGTTGGATGAAAGGGATAACCTCAAAATCTCAG
ACTTTGGCTTGGCAACAGTATTTCCGTATAATAATCGTGAGCGTTTGTGAACAAGATGTGTGGTACTTTACCAT
ATGTTGCTCCAGAACTTCTGAAGAGAAGAGAATTTTCATGCAGAACCAAGTTGATGTTTGGTCCTGTGGAATAGTAC
TTACTGCAATGCTCGCTGGAGAATTGCCATGGGACCAACCCAGTGACAGCTGTCAGGAGTATTCTGACTGGAAAG
AAAAAAAAACATACCTCAACCCTTGGAATAAAATCGATTCTGCTCCTCTAGCTCTGCTGCATAAAATCTTAGTTG
AGAATCCATCAGCAAGAATTACCATTCCAGACATCAAAAAAGATAGATGGTACAACAAACCCCTCAAGAAAGGGG
CAAAAAGGCCCGAGTCACTTCAGGTGGTGTGTCAGAGTCTCCAGTGGATTTTCTAAGCACATTCAATCCAATT
TGGACTTCTCTCCAGTAAACAGTGCTTCTAGTGAAGAAAATGTGAAGTACTCCAGTTCTCAGCCAGAACCCCGCA
CAGGTCTTTCTTATGGGATACCAGCCCTCATACTTGATAAATTGGTACAAGGGATCAGCTTTTCCCAGCCCA
CATGTCCTGATCATATGCTTTTGAATAGTCAGTTACTTGGCACCCAGGATCCTCACAGAACCCCTGGCAGCGGT
TGGTCAAAAGAATGACACGATTCTTTACCAAATTGGATGCAGACAAATCTTATCAATGCCTGAAAGAGACTTGTG
AGAAGTTGGGCTATCAATGGAAGAAAAGTTGTATGAATCAGGTTACTATATCAACAACATGATAGGAGAAACAATA
AACTCATTTTCAAAGTGAATTTGTTAGAAATGGATGATAAAATATTGGTTGACTTCCGGCTTTCTAAGGGTGATG
GATTGGAGTTCAAGAGACACTTCCTGAAGATTAAAGGGAAGCTGATTGATATTGTGAGCAGCCAGAAGGTTTGGC
TTCCTGCCACAT**TGA**TCGGACCATCGGCTCTGGGGAATCCTGGTGAATATAGTGCTGCTATGTTGACATTATTCTT
CCTAGAGAAGATTATCCTGTCTGCAAACTGCAAAATAGTAGTTCTGAAGTGTTCACTTCCCTGTTTATCCAAAC
ATCTTCCAATTTATTTTGTGTTTGGGCATACAAATAATACCTATATCTTAATTGTAAGCAAACTTTGGGGAAA
GGATGAATAGAATTCATTTGATTATTTCTTCATGTGTGTTTAGTATCTGAATTTGAAACTCATCTGGTGGAACC
AAGTTTCAGGGGACATGAGTTTTCCAGCTTTTATACACACGTATCTCATTTTTATCAAAACATTTTGTTTAATTC
AAAAAGTACATATTTCTTCCATGTTGATTTAATTCTAAGATGAACCAATAAAGACATAATTCTTGCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 3412

MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEICINKMLNHENVVKFYGHRR
EGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRFHQLMAGVVYLHGIGITHRDIKPENLLLDERDNLKISDFG
LATVFRYNNRERLLNKMCGTLPYVAPELLKRREFHAEPVDVWSCGIVLTAMLAGELPWDQPSDSCQEYSDWKEKK
TYLNPWKKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTSGGVSESPSGFSKHIQSNLDF
SPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKLVQGIFSQPTCPDHMLLNSQLLGTGSSQNPWQRLVK
RMTRFFTKLDADKSYQCLKETCEKLGQWKKSCMNQVTISTDRRNNKLIFKVNLLMDDKILVDFRLSKGDGLE
FKRHFLKIKGKLIDIVSSQKVWLPAT

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FIGURE 3413

CTGGCCTGCGGTGGGCTAGGGGCAGGGCCGGAGCCGCGGCGGCGGAGCTGTGGATCCTTCATGATGAGAGATTTG
GGGACACTTCTCTCTCCTGTGTGTAGTTGATAGTTTGGTGGTGAAGAGATGGCTGACAGTGTCAAAACCTTTCTC
CAGGACCTTGCCAGAGGAATCAAAGACTCCATCTGGGGTATTTGTACCATCTCAAAGCTAGATGCTCGAATCCAG
CAAAAGAGAGAGGAGCAGCGTCAAGAAGGGCAAGTAGTGTCTTGGCACAGAGAAGAGCCCAGAGTATAGAGCGG
AAGCAAGAGAGTGAGCCACGTATTGTTAGTAGAATTTTCCAGTGTGTGCTTGGAAATGGTGGAGTGTCTGGTTC
AGTCTCCTCTTGTTTTATCGAGTATTTATTCCTGTGCTTCAGTCGGTAACAGCCCGAATTATCGGTGACCCATCA
CTACATGGAGATGTTTGGTCGTGGCTGGAATTTCTCCTCACGTCAATTTTCAGTGCTCTTTGGGTGCTCCCCTTG
TTTGTGCTTAGCAAAGTGGTGAATGCCATTTGGTTTCAGGATATAGCTGACCTGGCATTGAGGTATCAGGGAGG
AAGCCTCACCCATTCCCTAGTGTCAGCAAAATAATTGCTGACATGCTCTTCAACCTTTTGCTGCAGGCTCTTTTC
CTCATTCAGGGAATGTTTGTGAGTCTCTTTCCCATCCATCTTGTGCGTTCAGCTGGTTAGTCTCCTGCATATGTCC
CTTCTCTACTCACTGTACTGCTTTGAATATCGTTGGTTCAATAAAGGAATTGAAATGCACCAGCGGTTGTCTAAC
ATAGAAAGGAATTGGCCTTACTACTTTGGGTTTGGTTTGGCCTTGGCTTTTCTCACAGCAATGCAGTCCCTCATAT
ATTATCAGTGGCTGCCTTTTCTCTATCCTCTTTCTTTATTTCATTATCAGCGCCAATGAAGCAAAGACCCTGGCA
AAGCATATCTCTTCCAGTTGCGCCTCTTCTCCTTGGTGGTCTTCTTAAGCAACAGACTCTTCCACAAGACAGTCT
ACCTGCAGTCGGCCCTGAGCAGCTCTACTTCTGCAGAGAAGTTCCCTTCACCGCATCCGTGCGCTGCCAAACTGA
AGGCTACTGCAGGTCACTGAGTTGCCTGCCATCCAAAGGGGATGGGCGGGATTGGAAGAAGCTGTGGCAGCTCTT
TTCCCTGTTACCTCCCGCCTGCCAGGGAAGGCAGGACCCGCTCTGCCAAGGGCCCTCTGCGTATTCCCTTCTCT
CTGAGGAATTGAAATTTTTGTCTCTGGTGCACGTAAGGCAGAATGTTCCCTGACACCAGTGTGTGGATTTTTAAC
ATCACCGTGAGTCTGAAAGGACCACAGGTTTTTCTGCAGCTATTTTCTAGCATTTGCCAGTCCCTGTGCCTGGAC
TGATTGGAACACTTTGTTTTTCTCCCTGTGCCATTTACCCTTCCACCTTTCCATCCTGCCTTCTACCACCCTTGG
ATGAATGGATTTTGTAAATTCTAGCTGTTGTATTTTGTGAATTTGTTAATTTTGTGTTTTTCTGTGAAACACATA
CATTGGATATGGGAGGTAAAGGAGTGTCCAGTTGCTCCTGGTCACTCCCTTTATAGCCATTACTGTCTTGTTTC
TTGTAACTCAGGTTAGGTTTTTGGTCTCTCTTGCTCCACTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG
CCTGAAGAGATGAGATAGGAGGAAAGACCTCACAGCCAGATCTGCTGGGTTTTGAGGAGTGATTTTCTTTCTTCC
CCTTGAAGGGGAAAAAGCTATTTTCATTGGTACATTTAAAGTCCCCCAACTATGGGGAGGTACCAATTCTGGACA
AGTGCCACTACAACAACACTAAACCTGAACTTTTCAACTCCGTTGGTGGTGGGAGGCAGCGGGCAGAAATTTACT
GTTGGCCACTGCCAGGTCTATTTTCATATTTCAAAGGAATATTGGGTGCTGCATATAGGAACTGAAGGGGTCAATG
TATTAACCTGTGATTGGTTGTTTTCTGTCAATTTGAGAGACTAAATGTGGGGGCAGATGTCAAAATACCTGT
ACAATTTTAAAAATGTCACAATTAAACATGAGCTGGTTTCCCA

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FIGURE 3414

CTGCAGCTCTTGGGTTTTTTGTGGCTTCCTTCGTTATTGGAGCCAGGCCTACACCCAGCAACCATGTCCAAGGG
ACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTTTTCCAGCACGGAAGTCGAGATAAT
TGCCAATGATCAGGGAAACCGAACCACTCCAAGCTATGTCGCCTTTACGGACACTGAACGGTTGATCGGTGATGC
CGCAAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTTGATGCCAAACGTCTGATTGGACGCAGATTTGA
TGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAATGATGCTGGCAGGCCCAAGGTCCA
AGTAGAATACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTTCTATGGTTCCTGACAAAGATGAAGGA
AATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTGCACAGTGCCAGCTTACTTTAATGACTCTCA
GCGTCAGGCTACCAAAGATGCTGGAACATTGCTGGTCTCAATGTACTTAGAATTATTAATGAGCCAACTGCTGC
TGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAGAAACGTGCTCATCTTTGACCTGGGAGGTGGCAC
TTTTGATGTGTCAATCCTCACTATTGAGGÀTGGAATCTTTGAGGTCAAGTCTACAGCTGGAGACACCCACTTGGG
TGGAGAAGATTTTGAACAACGAATGGTCAACCATTTTATTGCTGAGTTAAGCGCAAGCATAAGAAGGACATCAG
TGAGAACAAGAGAGCTGTAAGACGCCTCCGTACTGCTTGTGAACGTGCTAAGCGTACCCTCTCTTCCAGCACCCA
GGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTCCATTACCCGTGCCCGATTTGAAGA
ACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCTTCGAGATGCCAACTAGACAAGTC
ACAGATTCATGATATTGTCCTGGTTGGTGGTTCTACTCGTATCCCCAAGATTGAGAAGCTTCTCCAAGACTTCTT
CAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTATGGTGCAGCTGTCCAGGCAGCCAT
CTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGATGTCACTCCTCTTTCCCTTGGTATTGA
AACTGCTGGTGGAGTCATGACTGTCCTCATCAAGCGTAATACCACCATTCCTACCAAGCAGACACAGACCTTCAC
TACCTATTCTGACAACCAGCCTGGTGTGCTTATTCAGGTTTATGAAGGCGAGCGTGCCATGACAAAAGGATAACAA
CCTGCTTGGCAAGTTTGAACCTCACAGGCATACCTCCTGCACCCCGAGGTGTTCTCAGATTGAAGTCACTTTTGA
CATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGGAAAAGAGAACAAGATTACTATCAC
TAATGACAAGGGCCGTTTGGAGCAAGGAAGACATTGAACGTATGGTCCAGGAAGCTGAGAAGTACAAAGCTGAAGA
TGAGAAGCAGAGGGACAAGGTGTATCCAAGAATTCATTGAGTCCTATGCCTTCAACATGAAAGCAACTGTTGA
AGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAACAGAAGATTCTGGACAAGTGTAATGAAATTATCAA
CTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACAGAAAGAGCTGGAGAAAAGTTTGCAA
CCCCATCATCACCAAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAATGCCTGGGGGATTTCTTGGTGGTGG
AGCTCCTCCCTCTGGTGGTGTTCCTCAGGGCCACCATTTGAAGAGGTTGATTAA

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FIGURE 3415

GA CTGCTAGGCGAGGAGAGGGAAGGGGGCGGAGGAGACAGGGCTACTGCAGGCGCAGAGCTGGGGGCAGCCGGGG
GCCCCAGTGGCTGAGGCTGGTCCCGCAGCGGCCGCTTGCCGGCGTTCTGGCTCCTGTGGCCTCACCAGGAAGCGT
CAGAGTCCCACACTGGGGAAGCTCGGAGCGCCGCTCCGCTGCCGCCGCTCCTGCTGGCTCTGGGTCCCCGA
GCCCCCTCCCCTGGCCCCAGCCGACTCCCTCCTCCTTCCCGAACCATCCGGCTCGGGCTCCTTCCCTGGCGATGG
CTGGCCGCTGAGCCATGGCTCAGTACGGCCACCCAGTCCGCTCGGCATGGCTGCGAGAGAGGAGCTGTACAGCA
AAGTCACCCCCCGGAGGAACCGCCAACAGCGCCCCGGCACCATCAAGCATGGATCGGCGCTGGACGTGCTCCTCT
CCATGGGGTTCCCCAGAGCCCCGCGCACAAAAGCCTTGGCATCCACGGGAGGAAGAAGTGTTCAGGCAGCATGTG
ACTGGTTATTCTCCCATGTGCGGTGACCCCTTCTGGATGACCCCTGCCCCGGGAGTACGTCTCTACCTCCGTC
CCACCGGCCCTTAGCACAGAAGCTTCCGACTTTTGGCAGCAGTCAAGCAGATCTGCGGGAAGAACAAGGCAC
ACAACATCTTCCCCACATCACACTCTGCCAGTTCTTTATGTGCGAGGACAGCAAGGTGGATGCCCTGGGGGAAG
CCCTGCAGACCACGGTCAGTCGCTGGAATGTAAAGTTCTCGGCCCGCTGCCCTGGAGCTCTATACGTCGTCCA
ACTTCATCGGCCTCTTTGTAAAGGAAGACAGTGGGAGGTCTCAAGAAGTTTGCTGCTGACTTTGCTGCAGAGG
CTGCATCCAAAACCGAAGTGCATGTGGAACCTCATAAGAAGCAGCTACATGTGACCCTGGCTTACCACTTCCAAG
CCAGCCACCTACCCACCCTAGAGAACTGGCCCCAGAACATTGACGTCAAGCTAGGGTGTGACTGGGTGGCTACCA
TATTTTCTCGGGATATCCGATTTGCTAACCATGAGACATTACAGGTCATCTACCCCTATACCCACAAAATGACG
ATGAGCTGGAGCTGGTCCCCGGGACTTCATCTTCATGTCTCCAATGGAGCAGACCAGCACCAGCGAGGGTTGGA
TCTATGGCACGTCTTAAACCACCGGCTGCTCTGGACTCCTGCCTGAGAATTACATTACCAAGGCTGATGAATGCA
GCACCTGGATATTTTATGTTTCTTATTCAATCTTAAATACATCGTCATCCAACTCTCTCACGTTTGGGGATGGAG
TATTGGAGAGGCGCCTTATGAGGACCAGGGGCTCGGGGAGACGACTCCTCTTACTATCATCTGCCAGCCCATGC
AGCCGCTGAGGGTCAACAGCCAGCCCGCCCCCAGAAGCGATGCCTTTTTTGTGTGTCGGCATGGTGAGAGGATGG
ATGTTGTGTTTGGGAAGTACTGGCTGTCCAGTGCTTCGATGCCAAAGGCCGCTACATACGCACCAACCTGAACA
TGCTCATAGTTTACCTCAGCGGAGTGGTGGTTTCCGAGATTACGAGAAAGATGCTCCCATCACTGTGTTTGGAT
GCATGCAAGCAAGACTAGTGGGTGAAGCCTTATTAGAGAGCAATACCATTATCGATCATGTCTATTGCTCCCCGT
CCCTTCGCTGCGTTTCACTGTCACACAATATCTTGAAAGGTTTACAACAAGAAAATCACTTGAAGATCCGTGTAG
AGCCCGGCTTATTTGAGTGGACAAAATGGGTGCTGGGAGCACATTACCTGCATGGATACCTCCATCAGAGTTAG
CTGCAGCCAACCTGAGTGTGATACAACCTACAGACCTCACATTCCAATCAGCAAATTAGTTGTTTTCAGAATCCT
ATGATACTTATATCAGTAGAAGTTTCCAAGTAACAAAAGAAATAATAAGTGAATGTAAAAGTAAAGGAAATAACA
TCCTGATTGTGGCCACGCATCTTCCCTTGAAGCGTGTACCTGCCAACTTCAGGGCCTGTCACCTCAGAACTCCA
AGGACTTCGTACAAATGGTCCGAAAGATCCCATATCTGGGATTTTGTTCCTGTGAAGAATTAGGAGAACTGGAA
TATGGCAGCTGACAGATCCACCAATCCTTCTCTTACCCATGGACCAACTGGGGGCTTCAACTGGAGAGAGACCT
TGCTTCAAGAATAAACCACACCAGTGAACAAGAAGGAAAGGCCTTTTGGAGTGTGTCTTCTGTGTGTTTTAAAA
ACAGTGGGAAAATCCACACCACACTCTAAGTGGACAGCTCAGAATAATTTAGCATATTTCCCTTTCACACTTAAAG
TTCTTAAAGATGAGACTGTGTAAATGAGAGAAAGACTTGATTACAGAGGAAAAAATGTGTTCTCTCTGGACTCTTG
CCTAGCTCACAAGGCTTTGGAGAATTGTCTTCTAAATCGGGGCACCTGCTACAGAAGAGAATGTTTCGTTCCCT
CTGGGTATGCACAGCTAAGGGGCCTCATTTCTCCAGAGGGAGCTGCTGGCCCGCTCTAAGGGGTGCAAGAGGAA
GGAGTGTGCCAGACCAGCTGGGGGAGCATTGAAAGGACAGCTTGGGGATGGAATTTTTTTTTTTTATCTCCAT
TTTCCAGTTAGGTAGAGCCAAGCTGAGGAATCCTTTTAAAGATTATTAGAAAACATGCCCTGAAGAGAGTTGTCT
TAGGTTACACATGAAATCCTACCGTCACTAGCCCCCATAACCAGTGTTGCTGGCTGAAGATACCCGCTTAAAGGA
TGCTAACATTTACCCTGGTACTGCCACATTTTCTCTAGAGCAGCTGGCCCTTCTTGCTACAGCCCTATCCCCCT
CCTTGCTTCTGTGAAATGGGGAGACAAAGCACTTTTGCTCTCCAAAGCACTTTTGGATACTCAGGAGGAAAGATA
AGATACATGTTTGAAGTATTCAATCATAGGAGCAAAGAACTTGCAAAATATGAAGTGACTTGGAATTAACCATGT
TGTAGCCTAACGTGCTACTGCATTTCTAAATCATCAATATTGCTTGTCTTTGCCCTAGACTCTAGACTATGTT
AACTAGTTAAGGATGTTACATTTTGAAGGATGTATGTTAGATATATTATTTGCAGCAAGAAGTTCATTCTGTGC
AATATGGACATGTTTGAACCATACCAAGGGTCAGGTTGTTGTACACTTACAGTACGTGTCAACCATAATGGAA
CATCCACAAATGCATCAATTATACCAGGGATGTATAGTAAGTCAGGGAATAATATAAATGATGACAGTCATGGC
TGCACTGCTACTTGTGCTGTGTTTTGTTTGTCTTCTATGATAATTTAAATACATAGGTAGGGCTACTGAGGA
AATTTGGAGAGCCACATTCTGTGGTTTCTCATTTACTTACTTCTGCATTTAGAGGGAGTTTATTTAAAGAAA
TAAATGACAATCAAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3416

MAAREELYSKVTPRRNRQQRPGTIKHGSALDVLLSMGFPRARAQKALASTGGRSVQAACDWLF SHVGD PFLDDPL
PREYVLYLRPTGPLAQKLSDFWQQSKQICGKNKAHNIFPHITLCQFFMCEDSKVDALGEALQTTVSRWKCKFSAP
LPLELYTSSNFIGL FVKEDSAEVLKKFAADFAAEAASKTEVHV EPHKKQLHVTLAYHFQASHLPTLEKLAQNIDV
KLGCDWVATIFSRDIRFANHETLQVIYPYTPQNDDELELVP GDFIFMSPMEQTSTSEGWIYGTSLTTGCSGLLPE
NYITKADECSTWIFHGSYSILNTSSSNSLTFGDGVLERRPYEDQGLGETTPLTIICQPMQPLRVNSQPGPQKRCL
FVCRHGERMDVVFGKYWLSQCFDAKGRYIRTNLNMPSL PQRSGGFRDYEKDAPITVFGCMQARLVGEALLESNT
IIDHVYCSPSLRCVQTAHNILKGLQQENHLKIRVEPGLFEWTKWVAGSTLP AWIPPSELAAANLSVDTTYRPHIP
ISKLVVSESYDTYISRSFQVTKEI ISECKSKGNNILIVAHASSLEACTCQLQGLSPQNSKDFVQMVRKIPYLGFC
SCEELGETGIWQLTDPPI LPLTHGPTGGFNWRETLLQE

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FIGURE 3417

GAAGGCACCCCCATTCCCACCCTGTGCCTTCCTTGCGGGCAGAGAGGGAGAGAAGGGCTCCCCAGATCTACACCC
CTCCCTCCTGCATCTCCCCTGGAGTGTTCACTTGCAAGCTGCCAAAACATGATGGCCTCTGGTTGTTCTGTTGAA
CTCCTTGAACGTTTAGACCCTGCACACATCTGGAAGGAGCTGGCCCCCTCAGTCCCTTCCTACTCCCCAACAAGGG
GCTCACTATCCCCAAAGAAGGAGCTGTTGGGGACCCACGACGCAGCCCCTGTACTGGATTACAGCATATTCTCAT
CTCTGGCCCCGAGGCTGCCTGTGGGGCGAGTGGAGACCTCCCATCACTG

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FIGURE 3418

ATGTGCAGCCCAGTGCCAGGTACACAGGGCTACAGAGATGTCATTATTGAGCACCTTCTGCATACAAAGCACCAT
GCTGGGCATAAGGTGGACGCAAAGAGGGGCCAGGTTTCAGCCTACAAAGACCCTGCGGGTCCGCGTGCGGCTGCCG
GACGGCCAGGTGACCGAGGAGAGCCTGCAGGCGGACAGCGACGCGGACAGCATCAGCCTCGAGCTGCGCAAGCCC
GACGGCACCCCTCGTCTCCTTCACCGCCGACTTCAAGAAGGATGTGAAGGTCTTCCGGGGCCCTGATCCTGGGGGAG
CTGGAGAAGGGGCAGAGTCAGTTCCAGGCCCTCTGCTTTGTACCCAGCTGCAGCACAATGAGATCATCCCCAGT
GAGGCCATGGCCAAGCTCCGGCAGAAAAATCCCCGGGCAGTGCGGCAGGCGGAGGAGGTTCCGGGTCTGGAGCAT
CTGCACATGGATGTCGCTGTCAACTTCAGCCAGGGGGCCCTGCTGAGCCCCCATCTCCACAACGTGTGTGCCGAG
GCCGTGGATGCCATCTACACCCGCCAGGAGGATGTCCGGTTCTGGCTGGAGCAAGGTGTGGACAGTTCTGTGTTT
GAGGCTCTGCCCAAGGCCTCAGAGCAGGCGGAGCTGCCTCGCTGCAGGCAGGTGGGGGACCACGGGAAGCCCTGC
GTCTGCCGCTATGGCCTGAGCCTGGCCTGGTACCCCTGCATGCTCAAGTACTGCCACAGCCGCGACCGGCCACG
CCCTACAAGTGTGGCATCCGCAGCTGCCAGAAGAGCTACAGCTTCGACTTCTACGTGCCCCAGAGGCAGCTGTGT
CTCTGGGATGAGGATCCCTACCCAGGC**TAG**

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FIGURE 3419

MCSPVPGTQGYRDVITIEHLLHTKHHAGHKVDAKRGVQPTKTLRVRVRLPDGQVTEESLQADSDADSISLELRKP
DGTLVSEFTADFKKDVKVFRALILGELEKGQSQFQALCFVTQLQHNEIIPSEAMAKLRQKNPRAVRQAEEVRGLEH
LHMDVAVNFSQGALLSPHLHNVCAEAVDAIYTRQEDVRFWLEQQGVDSSVFEALPKASEQAELPRCRQVGDHGKPC
VCRYGLSLAWYPCMLKYCHSRDRPTPYKCGIRSCQKSYSFDFYVPQRQLCLWDEDPYPG

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FIGURE 3420

CTCCTCACAGGTGTGTCTCTAGTCCTCGTGGTTGCCTGCCCCACTCCCTGCCGAGACGCCTGCCAGAAAAGGTCAC
CTATCCTGAACCCCAGCAAGCCTGAAACAGCTCAGCCAAGCACCCCTGCGAATGGGAAGCTGCAGATGCCTCCAGGAG
CAACGGGTCGAGCCCAGAAGCCAGGGATGCCCCGAGCCCCGTCGGGCCCCAGTGGCAGCCTGGAGAAATGGCACCAA
GGCTGACGGCAAGGATGCCAAGACCACCAACGGGCACGGCGGGGAGGCAGCTGAGGGCAAGAGCCTGGGCAGCGC
CCTGAAGCCAGGGGAAGGTAGGAGCGCCCTGTTGCGGGCAATGAGTGGCGGGCAGCCCATCATCCAGTTTGTGCGA
GTCCGGGGACGACAAGAACTCCAACCTACTTCAGCATGGACTCTATGGAAGGCAAGAGGTGCGCGTACGCAGGGCT
CCAGCTGGGGGCTGCCAAGAAGCCACCCGTTACCTTTGCCGAAAAGGGCGAGCTGCGCAAGTCCATTTTCTCGGA
GTCCCGGAAGCCCACGGTGTCCATCATGGAGCCCCGGGAGACCCGGCGGAACAGCTACCCCCGGGCCGACACGGG
CCTTTTTTTCAGGTCCAAGTCCGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCGGT
CAAGTCTGCCTGGTGTGCCAGGCCTCCTTCTGCGAGCTGCATCTCAAGCCCCACCTGGAGGGCGCCGCCTTCCG
AGACCACCAGCTGCTCGAGCCCATCCGGGACTTTGAGGCCCGCAAGTGTCCCGTGCATGGCAAGACGATGGAGCT
CTTCTGCCAGACCGACCAGACCTGCATCTGCTACCTTTGCATGTTCCAGGAGCACAAGAATCATAGCACCCGTGAC
AGTGGAGGAGGCCAAGGCCGAGAAGGAGACGGAGCTGTCACTGCAAAAGGAGCAGCTGCAGCTCAAGATCATTTGA
GATTGAGGATGAAGCTGAGAAGTGGCAGAAGGAGAAGGACCGCATCAAGAGCTTACCACCAATGAGAAGGCCAT
CCTGGAGCAGAACTTCCGGGACCTGGTGGCGGACCTGGAGAAGCAAAAGGAGGAAGTGAGGGCTGCGCTGGAGCA
GCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCATGGATGCTCTGGATGAGAGAGCCAAGGTGCTGCATGA
GGACAAGCAGACCCGGGAGCAGCTGCATAGCATCAGCGACTCTGTGTTGTTTCTGCAGGAATTTGGTGCATTGAT
GAGCAATTACTCTCTCCCCCACCCCTGCCCACCTATCATGTCTGCTGGAGGGGGAGGGCCTGGGACAGTCACT
AGGCAACTTCAAGGACGACCTGCTCAATGTATGCATGCGCCACGTTGAGAAGATGTGCAAGGCGGACCTGAGCCG
TAACTTCATTGAGAGGAACCACATGGAGAACGGTGGTGACCATCGCTATGTGAACAACCTACACGAACAGCTTCGG
GGGTGAGTGGAGTGCACCGGACACCATGAAGAGATACTCCATGTACCTGACACCCAAAGGTGGGGTCCGGACATC
ATACCAGCCCTCGTCTCCTGGCCGCTTACCAAGGAGACCACCCAGAAGAATTTCAACAATCTCTATGGCACCAA
AGGTAACTACACCTCCCGGGTCTGGGAGTACTCCTCCAGCATTGAGAACTCTGACAATGACCTGCCCGTCTGTTCA
AGGCAGCTCCTCCTTCTCCCTGAAAGGCTATCCCTCCCTCATGCGGAGCCAAAGCCCCAAGGCCCAGCCCCAGAC
TTGGAAATCTGGCAAGCAGACTATGCTGTCTCACTACCGGCCATTCTACGTCAACAAAGGCAACGGGATTGGGTC
CAACGAAGCCCCATGAGCTCCTGGCGGAAGGAACGAGGCGCCACACCCCTGCTCTTCTCCTGACCCTGCTGCTC
TTGCCCTTCTAAGCTACTGTGCTTGTCTGGGTGGGAGGGAGCCCTGGTCTGCACCTGCCCTCTGCAGCCCTCTGCC
AGCCTCTTGGGGGCAGTTCCGGCCTCTCCGACTTCCCCACTGGCCACACTCCATTGAGACTCCTTTCCTGCCTTG
TGACCTCAGATGGTCACCATCATTCCTGTGCTCAGAGGCCAACCCATCACAGGGGTGAGATAGGTTGGGGCCTGC
CCTAACCCGCCAGCCTCCTCCTCTCGGGCTGGATCTGGGGGCTAGCAGTGAGTACCCGCATGGTATCAGCCTGCC
TCTCCCGCCACGCCCCTGCTGTCTCCAGGCCTATAGACGTTTCTCTCCAAGGCCCTATCCCCCAATGTTGTCAGC
AGATGCCTGGACAGCACAGCCACCCATCTCCCATTCACATGGCCACCTCCTGCTTCCCAGAGGACTGGCCCTAC
GTGCTCTCTCTCGTCTACCTATCAATGCCCAGCATGGCAGAACCTGCAGCCCTTGGCCACTGCAGATGGAAACC
TCTCAGTGTCTTGACATCACCTACCCAGGCGGTGGGTCTCCACCACAGCCACTTTGAGTCTGTGGTCCCTGGAG
GGTGGCTTCTCCTGACTGGCAGGATGACCTTAGCCAAGATATTCCTCTGTTCCCTCTGCTGAGATAAAGAATTCC
CTTAACATGATATAATCCACCCATGCAAAAGCTACTGGCCCAGCTACCATTTACCATTTGCCTACAGAATTTCA
TTCAGTCTACACTTTGGCATTCTCTCTGGCGATGGAGTGTGGCTGGGCTGACCGCAAAAGGTGCCTTACACACTG
CCCCCACCTCAGCCGTTGCCCATCAGAGGCTGCCTCCTCCTTCTGATTACCCCCCATGTTGCATATCAGGGTG
CTCAAGGATTGGAGAGGAGACAAAACCAGGAGCAGCACAGTGGGGACATCTCCCGTCTCAACAGCCCCAGGCCTA
TGGGGGCTCTGGAAGGATGGGCCAGCTTGCAAGGGGTGGGGAGGGAGACATCCAGCTTGGGCTTTCCCTTTGGGA
ATAAACCATTGGTCTGTC

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FIGURE 3421

MEAADASRSNGSSPEARDARSPSGPSGSLNGTKADGKDAKTTNGHGGEAAEGKSLGSAKPGEGRSALFAGNEW
RRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGAAKKPPVTFAEKGELRKSIFSESARKPTVSIMEFGETRR
NSYPRADTGLFSRSKSGSEEVLCDSCIGNKQKAVKSCLVQASFCEHLHLKPHLEGAAFRDHQLLEPIRDFEARKC
PVHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKIIIEIEDEAEKWQKEKDRIK
SFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHEDKQTREQLHSISDSVL
FLQEFGALMSNYSLPPLPTYHVLLEGEGLGQSLGNFKDDLNVCMRHVEKMCKADLSRNFIERNHMENGGDHRY
VNNTNSFGGEWSAPDTMKRYSMYLTPKGGVRTSYQFSSPGRFTKETQKNFNNLYGTGKNYTSRVWEYSSSIQN
SDNDLPVVQGSSSFSLKGYPMLMRSQSPKAQFQTKWSGKQTMLSHYRPFYVKNKNGIGSNEAP

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FIGURE 3422

CTCCTCACAGGTGTGTCTCTAGTCCTCGTGGTTGCCTGCCCCACTCCCTGCCGAGACGCCTGCCAGAAAGGTCAC
CTATCCTGAACCCAGCAAGCCTGAAACAGCTCAGCCAAGCACCCCTGCG**ATG**GAAGCTGCAGATGCCTCCAGGAG
CAACGGGTCGAGCCCAGAAGCCAGGGATGCCCCGAGCCCCGTGGGGCCCCAGTGGCAGCCTGGAGAATGGCACC
GGCTGACGGCAAGGATGCCAAGACCACCAACGGGCACGGCGGGGAGGCAGCTGAGGGCAAGAGCCTGGGCAGCGC
CCTGAAGCCAGGGGAAGGTAGGAGCGCCCTGTTCGCGGGCAATGAGTGGCGGGCAGCCCATCATCCAGTTTGTGCA
GTCCGGGGACGACAAGAAGTCCAAGTACTTTCAGCATGGACTCTATGGAAGGCAAGAGGTGCCGTACGCAGGGCT
CCAGCTGGGGGCTGCCAAGAAGCCACCCGTTACCTTTGCCGAAAAGGGCGAGCTGCGCAAGTCCATTTTCTCGGA
GTCCCGGAAGCCCACGGTGTCCATCATGGAGCCCGGGGAGACCCGGCGGAACAGCTACCCCGGGCCGACACGGG
CCTTTTTTACGGTCCAAGTCCGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCGGT
CAAGTCCTGCCTGGTGTGCCAGGCCTCCTTCTGCGAGCTGCATCTCAAGCCCCACCTGGAGGGCGCCGCCTTCCG
AGACCACCAGCTGCTCGAGCCCATCCGGGACTTTGAGGCCCGCAAGTGTCCCGTGCATGGCAAGACGATGGAGCT
CTTCTGCCAGACCGACCAGACCTGCATCTGTACCTTTGCATGTTCCAGGAGCACAAGAATCATAGCACCCTGAC
AGTGGAGGAGGCCAAGGCCGAGAAGGAGACGGAGCTGTCACTGCAAAAGGAGCAGCTGCAGCTCAAGATCATTGA
GATTGAGGATGAAGCTGAGAAGTGGCAGAAGGAGAAGGACCGCATCAAGAGCTTACCACCAATGAGAAGGCCAT
CCTGGAGCAGAACTTCCGGGACCTGGTGCGGGACCTGGAGAAGCAAAAGGAGGAAGTGAGGGCTGCGCTGGAGCA
GCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCATGGATGCTCTGGATGAGAGAGCCAAGGTGCTGCATGA
GGACAAGCAGACCCGGGAGCAGCTGCATAGCATCAGCGACTCTGTGTTGTTTCTGCAGGAATTTGGTGCATTGAT
GAGCAATTACTCTCTCCCCCACCCTGCCACCTATCATGTCTGCTGGAGGGGGAGGGCCTGGGACAGTCACT
AGGCAACTTCAAGGACGACCTGCTCAATGTATGCATGCGCCACGTTGAGAAGATGTGCAAGGCGGACCTGAGCCG
TAACTTCATTGAGAGGAACCACATGGAGAACGGTGGTGACCATCGCTATGTGAACAATAACGAAACAGCTTCGG
GGGTGAGTGGAGTGCACCGGACACCATGAAGAGATACTCCATGTACCTGACACCCAAAGGTGGGGTCCGGACATC
ATACCAGCCCTCGTCTCCTGGCCGCTTCACCAAGGAGACCACCCAGAAGAATTTCAACAATCTCTATGGCACCAA
AGGTAACTACACCTCCCGGGTCTGGGAGTACTCCTCCAGCATTGAGAACTCTGACAATGACCTGCCCGTCGTCCA
AGGCAGCTCCTCCTTCTCCCTGAAAAGGCTATCCCTCCCTCATGCGGAGCCAAAGCCCCAAGGCCAGCCCCAGAC
TTGGAAATCTGGCAAGCAGACTATGCTGGTGGTT**TAAG**CAAGGTCTGAGCATCCCTCAAGTCCTGCTGTGGACCA
CACAAAGGCAAGGAGCTGACCAGGAGGTGTCAGTTCCCTGAGAGACAGGGCCAAAGGCAGTGTACCCTTGAGTCT
CACTACCGGCCATTCTACGTCAACAAAGGCAACGGGATTGGGTCCAACGAAGCCCCATGAGCTCCTGGCGGAAGG
GTGCTCAAGGATTGGAGAGGAGACAAAACAGGAGCAGCACAGTGGGGACATCTCCCGTCTCAACAGCCCCAGGC
CTATGGGGGCTCTGGAAGGATGGGCCAGCTTGCAAGGGTTGGGGAGGGAGACATCCAGCTTGGGCTTTCCCTTT
GGAATAAACCATTTGGTCTGTC

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FIGURE 3423

MEAADASRSNGSSPEARDARSPSGPSGSLNGTKADGKDAKTTNGHGGEAAEGKSLGSALKPGEGRSALFAGNEW
RRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGAACKPPVTFAEKGELRKSIFSES RKPTVSIMEPGETR
NSYPRADTGLFSRSKSGSEEVLCDSICGNKQKAVKSCLVCQASFCEHLHLKPHLEGAAFRDHQLLEPIRDFEARKC
PVHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKIIIEIEDEAEKWQKEKDRIK
SFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHEDKQTREQLHSISDSVL
FLQEF GALMSNYSLPPPLPTYHVLLEGEGLGQSLGNFKDDLNVCMRHVEKMKADLSRNFIERNHMENGGDHRY
VNNYTNSFGGEWSAPDTMKRYSMYLTPKGGVRTSYQPSSPGRFTKETTQKNFN NLYG TKGNYTSRVWEYSSSIQN
SDNDLPVVQGSSSFSLKGYP SLMRSQSPKAQFPQTW KSGKQTMLVV

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FIGURE 3424

GGTGACTTTTTGAAAAGATAGTATCTCTTGTTGCAAGAAATGGTCCATCTGTGATTTCAAGTCTCTCGCTTGAGT
GAATTGGATGGAAGTGTGAATTTTCAGCCGAAGTGGCCAAAGAAATCCTGTTCCCTGTGATAATGAACGCCATCAGC
CTCTGCACCTCTGTTTTCCCTTCTGCCACATGTTGCCTGTTCTCCGTGACTTTGGCCCCGCAGCGCCTCCACCCC
AGAGACCCGGACCAAGTTCACACAGGACAATCTGTGCCGTGCCAGCGCAAGCGCCTGGAGCTCGGCCAACCTGT
GGGTTCTTGTTGGACTGCATCCTTCGCGACACCTCCGAGGACCTGGGACTCCAGTGTGACGCCGTGAACCTGGCCT
TCGGGCGCCGCTGTGAGGAACTGGAGGACGCGCGGCACAAGCTGCAGCACCACCTGCACAAGATGCTGCGGGAAA
TCACAGATCAGGAACACAACGTGGTGGCACTGAAGGAGGCCATCAAGGACAAGGAGGAACCTCTGCACATAGCCC
AGACCCGGCTGTACCTGCCCTCACACCGGCCCAACATGCAGCTGTGCCGCGAAGCAGCCCAGTTCAGGTACTGCC
TGGGCCTCTGAAGCAGTCCCAXGTGCCCCCATCCACCTCCTCGCTGTTACCCTCTCCAATAAACACTCCAATCTC
CACACACACATCCCCACAGGTGCTGAGAGGGGAGGGAGACTTTGCGGCCACACACAACACGCAAGCACGCCTTA
AACACACAGATATAGACATGACACTGGGCAGGTCATGGGTGCGGGGCCTCCCAGTGCCAGGGACCTGTGCCACG
TGGTCTCACCCACCCTGTGCTACCTCATCTTCCCGGGGAGGAAGCTCCTTCAGACAAGGTGAGCTCCTGGAGGC
CACGGGGCCAGAGAGGCCAGAGAGGGCCATTCCCTGCTGCCCTGAGGGTGTGTCCCCACCTCTGGTGGAAGTA
TGACCTACGCCTGGGCTACAGGCATAGATGGGCCGTCCTTTTGTTCCTTGTTAACGGATGCC

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FIGURE 3425

MLPVLRDFGPAAPPPQRPGPSSHRTICAVPSASAWSSANLWVLVDCILRDTSEDLGLQCDVNLAFGRRCEELED
ARHKLQHHLHKMLREITDQEHNVVALKEAIKDKEEPLHIAQTRLYLPShRPNMQLCREAAQFRYCLGL

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FIGURE 3426

ATGGGAAATTCGATGGACATGGACATAAGCCCCCTGAGGCCCCAGGACTATCTTTTCAGTTGTGAACTAAAGGCC
GACGAATTGAAGTGTGGTTCAGGGCCAGTGTATATTAGTGGACAGCACTTAGTATCTGTGGAGGAAGATGCAGAG
TCAGAAGATGAAGAAGAGGAGGATGTGAACTCTTAATCGAAGCCAAGTTCATCAATTATGTGAAGAATTGCTTC
CGGAAGACTGACCAGGAGGCTATTCAAGATCTCTGGCAGCGGAGGAAGCCTCTTGAAGAAAATAGTTTAAACAGT
TTTTTATAA

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FIGURE 3427

ACAATTCGCGCCAACTTGACCGCGCTTCTGCTGTAACGAGCGGGCTCGGAGGTCTCCCGCTGCTGTCATGG
TTGGTTCGCTAAACTGCATCGTCGCTGTGTCCCAGAACATGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCAC
CGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCACAACCTCTTCAGTAGAAGGTAAACAGAATCTGGTGA
TTATGGGTAAAGAAGACCTGGTTCTCCATTCTGAGAAAGATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCA
GCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTCTTTCCAGAAGTCTAGATGATGCCTTAAAACTTACTG
AACAAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGA
ATCACCCAGGCCATCTTAAACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAA
TTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCTGATGTCCAGGAGGAGAAAAGGCATTA
AGTACAAAATTTGAAGTATATGAGAAGAATGATTAATATGAAGGTGTTTTCTAGTTTAAAGTTGTTCCCCCTCCCTC
TGAAAAAGTATGTATTTTTACATTAGAAAAGGTTTTTTGTTGACTTTAGATCTATAATTATTTCTAAGCAACTA
GTTTTTATTCCTACTCTTGTCTCTATCAGATACCATTTATGAGACATTCTTGCTATAACTAAGTGCTTCTC
CAAGACCCCAACTGAGTCCCCAGCACCTGCTATAGTGAGCTGCCATTCCACACCCATCACATGTGGCACTCTTGC
CAGTCCCTGACATTGTGCGGCTTTTTCACATGTTGGTAATATTTATTAAAGATGAAGATCCACATACCCCTTCAACT
GAGCAGTTTCACTAGTGGAATAACAAAAGATTCTACGTGTATATCCAGAGGTTTGTAGATAAATGTGCCACC
TTGTTTGTAAACAGTGGAATAATGAAAACAACCTGGAAGTCCAGTGATGGGAAAATGAGTATGTTTCTGTCTTAGA
TTGGGGAACCCAAAGCAGATTGCAAGACTGAAATTTCAAGTAAAGCAGTGTATTTGCTAGGTCATACCAGAAATC
ATCAATTGAGGTACGGAGAACTGAACTGAGAAGGTAAGAAAAGCAATTTAAAGTCAGCGAGCAGGTTCTCATTG
ATAACAAGCTCCATACTGCTGAGATACAGGGAATGGAGGGGGGAAAGCTGGAGTATTGATCCCGCCCCCTCCT
TGGTTGTCAGCTCCCTGTCTGTGTGGGCGGAACATAGTCCAGCTGCTCTATAGCAAGTCTCAGGTGTTTGCA
GTAAGAAGCTGCTGGCATGCACGGGAACAGTGAAATGCCAAACACTTAAAGCAATTCGATGTTTAAAGTATGTAAGT
TCTTTTTTTTTTAGACAGCGTTTCGCTCTTGTGTTGCCAGGCTAGCATGCAATGGTGTGACCTCGGCTTACTGCAA
CCTCCGCTTCCCAGATTCAAGCGATTCTCCTGCCTCAGGCTCCCAAGTAGCTGGGACCGGGTGCAGCGCCACCAC
GCCCCGCTAATTTTTGTATTTTGTATTTTGGTAGAGATGGGGTTTCGCCATGTTGGTCAGGCTAGTCTCGAACT
CGTGACCGCAAGCGATTACCCACCTCAGCCTCCCAAGTGCTGGGATTACCGGCTTGAGCCACCACACCCGGCA
CATCTTCATTCTTTTTATGTAGTAAAAAGTATAAGGCCACACATGGTTTATTTGAAGTATTTTACAATTTAAAAA
AATACAGAAGCAGGAAAACCAATTATAAGTTCAAGTGAGGGATGATGGTTGCTTGAACCAAAGGGTTGCATGTAG
TAAGAAAATTGTGATTTAAGATATATTTTAAAGTTATAAGTAGCAGGATATTCTGATGGAGTTTGACTTTGGTTTT
GGGCCCACGGAGTTTCAGATGCCTTTGAGAAATGAATGAAGTAGAGAGAAAATAAAAGAAAAACTAGCCAGGCAC
AGTGGCTCACGCCTGTAATCCAGCGCTTTGGGAGGCTAAGGCAGGCAGATCACTTGAGACCAGCTTGGGCAACA
TGGCGAAGCCCCATCTCTACAAAAACACAGAAATTAGCTGGGCATTGTGGCGCACACCTGTATTCCCATCTACT
CAGGAAGCTGAGATGGAAGAATTAATTGAGCCCACGAGTTCAAGGCTGCAGTGAGTCGTGATTGTGCCACTGCAC
TCCAGCCGGGTGACAGAAGAGACCTTGTCTCGAAAAGGAATCTGAAAACAATGGAACCATGCCTTCATAATTCT
AGAAAGTTATTTCACTGATAAATCTATATTCACCCAAATAATCAAGGGTGAAGGTAAAATAATACATTTTGTAG
ACAAGCAAAGACTCAGGGGTACCTCCATGTGCCCTTTTATAGGGAAGCTGTTGGAGAAAATACTCCAGCAAAATG
AAGGAGTACACAAACCAGAGAATGACATGAATCCAGCAAAATAGGATCCAACACAGGCAATATTCCAGCTATGGAG
CTAGCTTTAAAAAGGAACAGTAAAAATATTAATCGGTTAGCTGGGTGGAATGGCCCATGCCTGTAGTCCCAGCTA
CTCGGGAGGCTCAGCAGCAGGACGACTTGAGCCCAAGAGTTCCAGACCAGCCTGGCCACCTTAGTGAGATCCCTT
CTCTTAAAAATAATAACTTATTGCCAGATTTGGGGCATTGGGAAAGAAGTTCATTGAAGATAAAGCAAAAGTAAA
AAAAAAAAAAAAAAAAAAAAAAGGGGAAAGGGTTGGTTAGGCAATCATTCTAGGGCAGAAAGAAGTACAGGATAG
GAAGAGCATAATACACTGTTTTTCTCAACAAGGAGCAGTATGTACACAGTCATAATGATGTGACTGCTTAGCCCC
TAAATATGGTAACCTACTCTGGGACAATATGGGAGGAAAAGTGAAGATTGTGATGGTGTAAAGAGCTAAATCCTCAT
CTGTCTATATCCAGAAATCACTATATAATACATAATAATGAAATGACTAAGTTATGTGAGGAAAAAACAGAAGAC
ATTGCTAAAAAGAGTTAAAGTCATTGCTCTGGAGAATTAGGAGGGATGGGGCAGGGGACTGTTAGGATGCATTAT
AAACTGAAAAGCCTTTTTTAAATTTTATGTATTAATATATGCATTCACTTGAAAACTAAAAAAAAACAATAATT
TGGAAAAACCCATGAAGGTAACCTAACGGAAGGAAAACTAAGAGAATGAAAAGTATTTGCCTCTGGAAAGAACAA
CTGGCAGGACTGTTGTTTTTATTGTAAGACTTTTGGAGCCATTTAATTGTACTTAACCATTTTCATCTATTTCTT
TAATAAGAACAATTCCATCTTAATAAAGAGTTACACTTGTTAATA

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FIGURE 3428

GGAGGTCTCCCGCTGCTGTTCATGGTTGGTTGCTAAACTGCATCGTCGCTGTGTCCCAGAACATGGGCATCGGC
AAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCACAACCTCTTCA
GTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAAGAAGACCTGGTTCTCCATTCTGAGAAGAATCGACCTTTA
AAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTTCTTTCCAGAAGT
CTAGATGATGCCTTAAAACTTACTGAACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGC
AGTTCTGTTTATAAGGAAGCCATGAATCAGCCAGGCCATCTTAAACTATTTGTGACAAGGATCATGCAAGACTTT
GAAAGTGACACGTTTTTTCCAGAAATTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCT
GATGTCCAGGAGGAGAAAGGCATTAAGTACAAATTTGAAGTATATGAGAAGAATGATTAATATGAAGGTGTTTT
TAGTTTAAGTTGTTCCCCCTCCCTCTGAAAAAATACCATTTATGAGACATTCTTGCTATAACTAAGTGCTTCTC
CAAGACCCCAACTGAGTCCCCAGCACCTGCTATAGTGAGCTGCCATTCCACACCCATCACATGTGGCACTCTTGC
CAGTCCTTGACATTGTCGGGCTTTTTCATGTTGGTAATATTTATTAAAGATGAAGATCC

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FIGURE 3429A

ATGTCTGGCGGCGCCGCAGAGAAGCAGAGCAGCACTCCCGGTTCCCTGTTCCTCTCGCCGCGGGCTCCTGCCCC
AAGAATGGCTCCAGCTCCGATTCCCTCCGTGGGGGAGAACTGGGAGCCGCGGCGCCGACGCTGTGACCGGCAGG
ACCGAGGAGTACAGGCGCCGCCGACACTATGGACAAGGACAGCCGTGGGGCGGCGGACCACTACCACTACT
GAGCACCGCTTCTTCCGCGGAGCGTCATCTGTGACTCCAATGCCACTGCACTGGAGCTTCCCGGCCTTCCCTCTT
TCCCTGCCCCAGCCAGCATCCCCGCGGCTGTCCCGCAGAGTGCTCCACCGGAGCCCCACCGGGAAGAGACCGTG
ACCGCCACCGCCACTTCCCAGGTAGCCAGCAGCCTCCAGCCGCTGCCGCCCTGGGGAACAGGCCGTGCGGGG
CCTGCCCCCTCGACTGTCCCAGCAGTACCAGCAAAGACCGCCAGTGTCACAGCCTAGCCTTGTGGGGAGCAAA
GAGGAGCCGCGCGCGGAGAGTGGCAGCGGGCGGCGAGCGCCAAGGAGCCACAGGAGGAACGGAGCCAGCAG
CAGGATGATATCGAAGAGCTGGAGACCAAGGCCGTGGGAATGTCTAACGATGGCCGCTTTCTCAAGTTTGACATC
GAAATCGGCAGAGGCTCCTTTAAGACGGTCTACAAAGGTCTGGACACTGAAACCACCGTGGAAGTCGCCTGGTGT
GAACTGCAGGATCGAAAATTAACAAAGTCTGAGAGGCAGAGATTTAAAGAAGAAGCTGAAATGTTAAAAGGTCTT
CAGCATCCCAATATTGTTAGATTTTATGATTCTGGGAATCCACAGTAAAAGGAAAGAAGTGCATTGTTTTGGTG
ACTGAACTTATGACGTCTGGAACACTTAAACGTATCTGAAAAGGTTTAAAGTGATGAAGATCAAAGTTCTAAGA
AGCTGGTGCCGTGAGATCCTTAAAGGTCTTCAGTTTCTTCATACTCGAACTCCACCTATCATTACCGCGATCTT
AAATGTGACAACATCTTTATCACCGGCCCTACTGGCTCAGTCAAGATTGGAGACCTCGGTCTGGCAACCTGAAG
CGGGCTTCTTTTGCCAAGAGTGTGATAGGTACCCAGAGTTCATGGCCCTGAGATGTATGAGGAGAAATATGAT
GAATCCGTTGACGTTTATGCTTTTGGGATGTGCATGCTTGAGATGGCTACATCTGAATATCCTTACTCGGAGTGC
CAAAATGCTGCACAGATCTACCGTCGCGTGACCAAGTGGGGTGAAGCCAGCCAGTTTTGACAAAGTAGCAATTCCT
GAAAGTGAAGGAAATTATTGAAGGATGCATACGACAAAAACAAAGATGAAAGATATTCCATCAAAGACCTTTTGAAC
CATGCCCTTCTTCCAAGAGGAAACAGGAGTACGGGTAGAATTAGCAGAAGAAGATGATGGAGAAAAAATAGCCATA
AAATTATGGCTACGTATTGAAGATATTAAGAAATTAAGGGGAAAATACAAAGATAATGAAGCTATTGAGTTTTCT
TTTGATTTAGAGAGAGATGTCCCAGAAGATGTTGCACAAGAAATGGTAGAGTCTGGGTATGTCTGTGAAGGTGAT
CACAAGACCATGGCTAAAGCTATCAAAGACAGAGTATCATTAAATTAAGAGGAAACGAGAGCAGCGGCAGTTGGTA
CGGGAGGAGCAAGAAAAAAGAGCAGGAAGAGAGCAGTCTCAAACAGCAGGTAGAACAATCCAGTGCTTCCCAG
ACAGGAATCAAGCAGCTCCCTTCTGCTAGCACCGGCATACCTACTGCTTCTACCACTTCAGCTTCAGTTTCTACA
CAAGTAGAACCTGAAGAACCTGAGGCAGATCAACATCAACAACCTACAGTACCAGCAACCCAGTATATCTGTGTTA
TCTGATGGGACGGTTGACAGTGGTCAGGGATCCTCTGTCTTCACAGAATCTCGAGTGAGCAGCCAACAGACAGTT
TCATATGGTTCCCAACATGAACAGGCACATTCTACAGGCACAGTCCAGGGCATATACCTTCTACTGTCCAAGCA
CAGTCTCAGCCCCATGGGGTATATCCACCCTCAAGTGTGGCACAGGGGCAGAGCCAGGGTCAGCCATCCTCAAGT
AGCTTAACAGGGGTTTCACTCTTCCCAACCCATACAACATCCTCAGCAGCAGCAGGGAATACAGCAGACAGCCCCT
CCTCAACAGACAGTGCAGTATTCACTTTACAGACATCAACCTCCAGTGAGGCCACTACTGCACAGCCAGTGAGT
CAGCCTCAAGCTCCACAAGTCTTGCCCTCAAGTATCAGCTGGAAAACAGCTTCCAGTTTCCCAGCCAGTACCACT
ATCCAAGGCGAACCTCAGATCCCAGTTGCGACACAACCTCGGTTGTTCCAGTCCACTCTGGTGCTCATTTCCCTT
CCAGTGGGACAGCCGCTCCCTACTCCCTTGCTCCCTCAGTACCCTGTCTCTCAGATTCCCATATCAACTCCTCAT
GTGTCTACGGCTCAGACAGGTTTCTCATCCCTTCCCATCACAATGGCAGCTGGCATTACTCAGCCTCTGCTCAG
TTGGCTTCATCTGCTACAACAGCTGCGATCCCGGGGTATCAACTGTGGTTCCTAGTCAGCTTCCAACCTTCTG
CAGCCTGTGACTCAGCTGCCAAGTCAGGTTACCCACAGCTCCTACAACCAGCAGTTCAAGTCCATGGGAATACCA
GCTAACCTTGGACAAGCTGCTGAGGTTCCACTTTCCCTCTGGAGATGTTCTGTACCAGGGCTTCCCACCTCGACTG
CCACCACAGTACCCAGGAGATTCAAATATTGCTCCCTCTTCCAACGTGGCTTCTGTTTGCATCCATTCTACAGTC
CTATCCCCCTCCCATGCCGACAGAAGTACTGGCTACACCTGGGTACTTTCCACAGTGGTGAGCCTTATGTGGAA
TCAAATCTTTTAGTTCTATGGGTGGTGTAGGAGGACAGGTTCAAGTGTCCCAGCCAGGAGGGAGTTTAGCACAA
GCCCCCACTACATCCTCCCAGCAAGCAGTTTTTGGAGAGTACTCAGGGAGTCTCTCAGGTTGCTCCTGCAGAGCCA
GTTGCAGTAGCACAGACCAAGCTACCCAGCCGACCCTTTGGCTTCCCTCTGTAGACAGTGACATTCAGATGTT
GCTTCAGGTATGAGTGATGGCAATGAGAACGTCCCCTCTTCCAGTGGAAGGCATGAAGGAAGAACTACAAAACGG
CATTACCGAAAATCTGTAAGGAGTCGCTCTCGACATGAAAAAAGTTTACGCCCCAAAATTAAGAAATTTGAATGTT
TCAAATAAAGGAGACCGAGTAGTAGAATGTCAATTAGAGACTCATAATAGGAAAATGGTTACATTCAAATTTGAC
CTAGATGGTGACAACCCGAGGAGATAGCAACAATTATGGTGAACAATGACTTTATTCTAGCAATAGAGAGAGAG
TCGTTTGTGGATCAAGTGCGAGAAATTATTGAAAAAGCTGATGAAATGCTCAGTGAGGATGTCAGTGTGGAACCA

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FIGURE 3429B

GAGGGTGATCAGGGATTGGAGAGTCTACAAGGAAAGGATGACTATGGCTTTTCAGGTTCTCAGAAAATTGGAAGGA
GAGTTCAAACAACCAATTCCTGCGTCTTCCATGCCACAGCAAATAGGCATTCCCTACCAGTTCTTTAACTCAAGTT
GTTCAATTCTGCGGGAAGGCGGTTTATAGTGAGTCTGTGCCAGAAAGCCGATTACGAGAATCAAAAAGTTTCCCC
AGTGAAATAACAGATACAGTTGCTGCCTCTACAGCTCAGAGCCCTGGAATGAACTTGTCTCACTCTGCATCATCC
CTTAGTCTACAACAGGCCTTTTCTGAACTTAGACGTGCCCAAATGACAGAAGGACCCAACACAGCACCTCCAAAC
TTTAGTCATACAGGACCAACATTTCCAGTAGTACCTCCTTTCTTAAGTAGCATTGCTGGAGTCCCAACCACAGCA
GCAGCCACAGCACCAAGTCCCTGCAACAAGCAGCCCTCCTAATGACATTTCCACATCAGTAATTCAGTCTGAGGTT
ACAGTGCCCACTGAAGAGGGGATTGCTGGAGTTGCCACCAGCACAGGTGTGGTAACTTCAGGTGGTCTCCCCATA
CCACCTGTGTCTGAATCACCAGTACTTTCCAGCGTAGTTTCAAGTATCACAACTGCAGTTGTCTCAATATCT
ACTACATCCCCGTCACTTCAAGTCCCCACATCCACATCTGAGATCGTTGTTTCTAGTACAGCACTGTATCCTTCA
GTAACAGTTTCAGCAACTTCAGCCTCTGCAGGGGGCAGTACTGCTACCCCAGGTCTAAGCCTCCAGCTGTAGTA
TCTCAGCAGGCAGCAGGCAGCACTACTGTGGGAGCCACATTAACATCAGTTTCTACCACCACTTCATTCCCAAGC
ACAGCTTCACAGCTGTGCATTAGCTTAGCAGCAGTACTTCTACTCCTACTTTAGCTGAAACCGTGGTAGTTAGC
GCACACTCACTAGATAAGACATCTCATAGCAGTACAACCTGGATTGGCTTTCTCCCTCTCTGCACCATCTTCCTCT
TCCTCTCCTGGAGCAGGAGTGTCTAGTTATATTTCTCAGCCTGGTGGGCTGCATCCTTTGGTCAATCCATCAGTG
ATAGCTTCTACTCCTATTCTTCCCCAAGCAGCAGGACCTACTTCTACACCTTTATTACCCCAAGTACCTAGTATC
CCACCTTGGTACAGCCTGTTGCCAATGTGCCTGCTGTACAGCAGACACTAATTCATAGTCAGCCTCAACCAGCT
TTGCTTCCCCAACCAGCCCCATACTCATTGTCTGAAGTAGATTCTGATACACAACCCAAAGCTCCTGGAATTGAT
GACATAAAGACTCTAGAAGAAAAGCTGCGGTCTCTGTTTCAGTGAACACAGCTCATCTGGAGCTCAGCATGCCTCT
GTCTCACTGGAGACCTCACTAGTCATAGAGAGCACTGTACACCAGGCATCCCAACTACTGCTGTTGCACCAAGC
AAACTCCTGACTTCTACCACAAGTACTTGGCTTACCACCAACCAATTTACCCTAGGAACAGTTGCTTTGCCAGTT
ACACCAGTGGTACACCTGGGCAAGTTTCTACCCAGTCAGCACTACTACATCAGGAGTGAAACCTGGAACCTGCT
CCCTCCAAGCCACCTCTAATAAGGCTCCGGTGCTGCCAGTGGGTACTGAACTTCCAGCAGGTACTCTACCCAGC
GAGCAGCTGCCACCTTTTCCAGGACCTTCTCTAACCAGTCCAGCAACCTCTAGAGGATCTTGATGCTCAATTG
AGAAGAACACTTAGTCCAGAGATGATCACAGTGACTTCTGCGGTTGGTCTGTGTCCATGGCGGCTCCAACAGCA
ATCACAGAAGCAGGAACACAGCCTCAGAAGGGTGTTTCTCAAGTCAAAGAAGGCCCTGTCTTAGCAACTAGTTCA
GGAGCTGGTGTTTTTAAGATGGGACGATTTTCAGGTTTCTGTTGCAGCAGACGGTGCCAGAAAGAGGGTAAAAAT
AAGTCAGAAGATGCAAAGTCTGTTCAATTTGAATCCAGCACCTCAGAGTCTCAGTGCTATCAAGTAGTAGTCCA
GAGAGTACCTTGGTGAACCCAGAGCCGAATGGCATAACCATCCCTGGTATCTCTTCAGATGTGCCAGAGAGTGCC
CACAAACTACTGCCTCAGAGGCAAAGTCAGACACTGGGCAGCCTACCAAGGTTGGACGTTTTTCAGGTGACAACT
ACAGCAAACAAAGTGGGTGTTTTCTCTGTATCAAAAAGTGGAGACAAGATCACTGACACAAAGAAAGAAGGACCA
GTGGCATCTCCTCCTTTTATGGATTGGAACAAGCTGTTCTTCTGCTGTGATACCAAAGAAAGAGAAGCCTGAA
CTGTCAGAGCCTTCACATCTAAATGGGCGTCTTCTGACCCGGAGGCCGCTTTTTTAAGTAGGGATGTGGATGAT
GGTTCGGTAGTCCACACTCGCCCCATCAGCTGAGCTCAAAGAGCCTTCTAGCCAGAATCTAAGTCAAAGCCTT
AGTAATTCATTTAACTCCTCTTACATGAGTAGCGACAATGAGTCAGATATCGAAGATGAAGACTTAAAGTTAGAG
CTGCGAGCACTACGAGATAAACATCTCAAAGAGATTTCAGGACCTGCAGAGTGCAGAGCATGAAATTGAATCT
TTGTATACCAAAGTGGGCAAGGTGCCCCCTGCTGTTATTATTTCCCCAGCTGCTCCCCCTTCAGGGAGAAGACGA
CGACCCACTAAAAGCAAAGGCAGCAAACTAGTCAAGCAGTTTCTTGGGGAATAAAAGCCCCCAGCTTTCAGGT
AACCTGTCTGGTCAGAGTGCAGCTTCAGTCTTGACCCCCAGCAGACCCTCCACCCTCCTGGCAACATCCCAGAG
TCCGGGCAGAAATCAGCTGTTACAGCCCCCTTAAGCCATCTCCCTCCAGTGACAACCTCTATTTCAGCCTTACCAGT
GATGGTGCCATTTTCAGTACCAAGCCTTTCTGCTCCAGGTCAAGGAACCAGCAGCACAAACACTGTTGGGGCAACA
GTGAACAGCCAAGCCGCCCAAGCTCAGCCTCCTGCCATGACGTCCAGCAGGAAGGGCACATTCACAGATGACTTG
CACAAGTTGGTAGACAATTGGGCCCCGAGATGCCATGAATCTCTCAGGCAGGAGAGGAAGCAAAGGGCACATGAAT
TACGAGGGCCCTGGAATGGCAAGGAAGTTCTCTGCACCTGGGCAACTGTGCATCTCCATGACCTCGAACCTGGGT
GGCTCTGCCCCCATCTCTGCAGCATCAGTACCTCTCTAGGTCACTTACCAAGTCTATGTGCCCCCACAGCAG
TATGGCTTTCCAGCTACCCCATTTGGCGCTCAATGGAGTGGGACGGGTGGCCAGCACCACAGCCACTTGGCCAG
TTCCAACCTGTGGGAAGTGCCTCCTTGCAAGATTTCAACATCAGCAATTTGCAGAAATCCATCAGCAACCCCCCA
GGCTCCAACCTGCGGACCACCTTAG

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FIGURE 3430A

CGGCGGCGGCGGTAGTGGCGGCGGCGGCGGTGCCCGGGCGGCAGCGGCAGCAGTAGCGGCAGCCCTGAGGACGGT
GAGACGGCCGCGGCGGCGGCGGCGACAGCGCGGAAGTCGCGCGGGACCCAGAGCTTCCCCCTGTCTGCTAGTGCTGAG
GCTTTCGCCCTTTCCTACCCAGCTTCTTGCTCACGGCCCGGGCTGGGCTGGGCAGGGCAACGCGCCCCCGGGCAGG
GGCGGAGCTGTAGATATGGTGTAAGATACTTCTTCAAGATTGGACAGCTGGGGACCTTCTTCTGATTAACTTAA
ACCAACTTGTAGCCATAGAGACACCTCACAAAGTTCCCATTTTTGTTGTTGTTGTTGTTGATTTCCTGCTCACAC
CTTTCCTGACCTTGCAACC**ATGT**ATGGAAGTGCCCCGCTCTGTTGGGAAGGTGGAGCCGAGCAGCCAGAGCCCTGG
GCGTTACCCAGGCTTCCACGTTCCCCCTCGCTTGGGTACCCGTCGAACCAACAGTACGGGAGGGAGTTCGGGAAG
CAGTGTGGAGGTGGCAGTGGGAAAACCCCTTCAATGGAAAATATACAATCTTTAAATGCTGCCTATGCCACCTC
TGGCCCTATGTATCTAAGTGACCATGAAAATGTGGGTTCAGAAACACCTAAAAGCACCATGACACTTGGCCGTTT
TGGGGGACGTCTGCCTTACGGTGTTCGGATGACTGCTATGGGTAGTAGCCCCAATATAGCTAGCAGTGGGGTTGC
TAGTGACACCATAGCATTGGAGAGCATCACCTCCCTCCTGTGAGTATGGCATCCACTGTACCTCACTCCCTTCG
TCAGGCGAGAGATAACACAATCATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAGAAAATGATCTCTTGCG
GAAGGATGTGGAAGTAAAGGAGAGCAAATTGAGTCTTCAATGAATAGCATCAAGACCTTCTGGAGCCCAGAGCT
GAAGAAGGAACGAGCCCTGAGAAAAGATGAAGCTTCCAAAATCACCATTGGGAAGGAACAGTACAGAGTTGTACA
GGAGGAAAACCAGCACATGCAGATGACAATCCAGGCTCTCCAGGATGAATTGCGGATCCAGAGGGACCTGAATCA
GCTGTTTCAGCAGGATAGTAGCAGCAGGACTGGCGAACCTTGTGTAGCAGAGCTGCAGAGGAGAACTTTCAGAG
GCTTCATGCTGAGCATGAGCGGCAGGCCAAAGAGCTGTTTCTTCTCGAAAGACATTGGAGGAAATGGAGCTGCG
TATTGAGACTCAAAGCAGACCCTAAATGCTCGGGATGAATCCATTAAAGAAGCTTCTGGAAATGTTGCAGAGCAA
AGGACTTCTGCCAAGGCTACCGAGGAAGACCATGAGAGAACAAGACGACTGGCAGAGGCAGAGATGCACGTTCA
TCACCTAGAAAGCCTTTTGGAGCAGAAGGAAAAAGAGAACAGTATGTTGAGAGAGGAGATGCATCGAAGGTTTGA
GAATGCTCCTGATTCTGCCAAAACAAAAGCTCTGCAAACCTGTTATTGAGATGAAGGATTCAAAAAATTCCTCTAT
GGAGCGTGGGCTTCGAGACCTGGAAGAGGAAATTCAGATGCTGAAATCGAATGGTGCTTTGAGTACTGAGGAAAG
GGAAGAAGAAATGAAGCAAATGGAAGTGTATCGGAGCCATTCTAAATTTATGAAAAATAAGATTGGCCAGGTGAA
ACAGGAGCTGTCCAGAAAGGACACAGAACTACTCGCCCTGCAGACAAAGCTAGAAACACTCACAAACCAGTTCTC
AGATAGTAAACAGCACATTGAAGTGTTGAAGGAGTCCTTGACTGCTAAGGAGCAGAGGGCTGCCATCCTGCAGAC
TGAGGTGGATGCTCTCCGATTGCGTTTGGAAAGAGAAGGAAACCATGTTGAATAAAAAGACAAAACAAATTCAGGA
TATGGCTGAAGAGAAGGGGACACAAGCTGGAGAGATACATGACCTCAAGGACATGTTGGATGTGAAGGAGCGGAA
GGTTAATGTTCTTCAGAAGAAGATTGAAAATCTTCAAGAGCAGCTTAGAGACAAGGAAAAGCAGATGAGCAGCTT
GAAAAGAACGGGTCAAATCCTTGCAGGCTGACACCACCAACACTGACACTGCCTTGACAACCTTTGGAGGAGGCCCT
TGCAGAGAAAAGAGCGGACAATTGAACGCTTAAAGGAGCAGAGGGACAGAGATGAGCGAGAGAAGCAAGAGGAAAT
TGATAACTACAAAAAAGATCTTAAAGACTTGAAGGAAAAAGTCAGCCTGTTGCAAGGCGACCTTTCAGAGAAAGA
GGCTTCACTTTTGGATCTGAAAGAGCATGCTTCTCTCTGGCATCCTCAGGACTGAAAAGGACTCACGGCTTAA
GACACTAGAGATTGCTTTGGAGCAGAAGAAGGAGGAGTGCTGAAAATGGAATCACAAATTGAAAAGGCACATGA
GGCAGCATTGGAAGCCAGAGCCAGTCCAGAGATGAGTGACCGAATACAGCACTTGGAGAGAGAGATCACCAAGTA
CAAAGATGAATCTAGCAAGGCCAGGCAGAAAGTTGATCGACTCTTAGAAATCTTGAAGGAGGTGAAAAATGAGAA
GAATGACAAAGATAAGAAGATAGCTGAGTTGGAAAGTCTCACCTCAAGGCAAGTGAAGACCAGAAATAAGAAGGT
AGCAAATCTGAAGCACAAAGGAACAGGTGGAAAAAAGAAGAGTGCACAAATGTTAGAGGAGGCGCGACGACGGGA
GGACAATCTCAACGACAGCTCTCAGCAGCTACAGGTGGAGGAGTTACTGATGGCCATGGAGAAGGTAAAGCAGGA
ACTAGAATCCATGAAAGCAAAGCTGTCCTCCACCCAGCAGTCTCTGGCAGAAAAGGAACTCACTTGACTAATCT
TCGGGCAGAGAGAAGGAAACACTTAGAGGAAGTTCTGGAGATGAAGCAAGAAGCTCTTCTGGCTGCCATTAGTGA
AAAAGACGCCAATATAGCTCTCTTGGAGCTTTCGTCTCTAAGAAGAAGACCCAAGAGGAAGTGGCTGCCCTGAA
GCGGGAGAAGGATCGTCTGGTACAGCAGCTTAAGCAGCAGACGCAAAATCGAATGAAGCTAATGGCCGACAACCTA
CGAGGATGACCACTTCAAATCCTCCCATTTCCAATCAAACAAATCACAAAGCCCTCCCCAGACCAGGATGAGGAGGA
GGGTATATGGGCAT**AG**CCAATCAGAGGCTTAGTTTACGCCATTTTGTTCAGAACGATCATCCAGCCCCCTCTTAGAA
CTTGACCAAAATAGAAGTAAATTAAAGTTGTACATTGGACACCTGACAACCCTCTGCCATGACCGAGACCCCCCTG
ATCCTCCGTGGACTCACTCCACCAGCTTCCCTATAACTTGGACGATGACCAGGCGGCTTGGGAGAATGAGCTGCAG
AAGATGACCCGGGGGCGAGCTTCAGGATGAGTTAGAGAAAGGTGAACGGGACAATGCAGAACTGCAGGAGTTTGCC
AACGCCATTCTTCAGCAGATAGCAGACCATTGTCCCGACATCCTAGAGCAAGTGGTCAACGCCCTGGAAGAGTCC

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FIGURE 3430B

TCTTGACCCTGCTTTATGGGGAAGCCTGAGGTAGTCAACCCAGGAGCCAAGAAAAGAGAACTACGAGGAACAGGT
GCCCCGAACCTTCTTGGCACCAAACACTACAACTTCATCCCAACTTGCTCACTTGAAGAAGTGTGATTCCAGCA
CCGTTTCTACATCTGCCATCTTACTCTGCCTTTCTGCTTTGGATGTGGTCTCTACACTAACCTTCTTGATGTCCA
GGGTAGATAAAGGGTCGAATCTCTCTGAAGAACTGCCACCTGGTCATCAGCAGTGGAGAACTGTGGGAGCTGGTG
GCTCTGCCCTGACAGAGAGCCATGGAGCAGAGGAGCCTCTCACCTCCTGTCTCTGACATGAGAATGAAACCAGG
AATGGACTTGGAGTTCAACAGGCTGAGAGGATGCCTCCAATGGACCAGAGAGCTGAGTGTTCTAATATCACATA
GGTGCTTTCTCCTAAAAGGGCAAAAAACAATCTCAAAAAGATTAGAAAAAGAGAAGGGGGGAAGGGAAGAGAAAA
TCGACTCTTCTTTTTTACTGTCTCTTCTGCTTACTTTCCACATGAGATGCTTTGTACCGGGGAGCTGTGAGCAGGC
CTCACGATGGCTTGGGAGCACTCGTTCTCCCAAGGTCTGAGTCTTCATCCAGCCCTGCCTGTCTGTGCGCAGCCTT
CCTCACTCTGTTCCCTCGGCCAGTTAACAAGAAGATGGTGTGAGGTGTTCTCCACCAGTCTCTCCTGTTTGAGACT
GTTGACGTTATCATACTGAGGTGTTAGATCAAATATCTCTAATTGAAGAACATGTGAGGTTGAAAGAGCACCAGC
CAGGGCAACATAGCGTGACCCTGTCTCTACAAAAAATTAAAAAGAGAACATACAAAGTTGACATATGAGACCCTG
TTGTCCCCGCCTGCAGCTTTGCCCCAGTAACAGATGCCCGTTGCTCTTGGGCTGGTTTCCCTGAACACCTCCAA
GAGGCTGCCTGCCTTGCCAGCACCCGTGTCCTGAGCTCCTGCAGCCCAGTGGCTGCTGAAGTTGTGATCCCTCAC
TCACCCTGCTAGCTTTGCCCTTGACTCGTCTTCTCTGAACCTCAGCCTCGTGCATTGCCTGGAACCTTCTTCTAG
CATAAATGAAGGTTTTTCTCCTACACACATTCCTTCCTCGGTTATTTTATTTCAGAGAATATTTATGAAATGCCT
ACTGTGTGCAAGTCATCCATCCTTGAAAAGGCCACTTCTCAGTGAGGGAGAGATGTAGTGGATTCTGTGAGACAT
ACCTGCTGGAGTTGAAGCAGTAAATAGCATGTCCTTCCCCTCCCCGATCTTAAGGTGTGTTTTCTAGA

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FIGURE 3431

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGSSVGGGSGKTLSMENIQSLNAAAYATSGPMYLS
DHENVGSETPKSTMTLGRSGGRLPYGVRMTAMGSSPNIASSGVASDTIAFGEHHLPPVSMAS TVPHSLRQARDNT
IMDLQTQLKEVLRENDLLRKDVEVKESKLSSSMNSIKTFWSPELKKERALRKDEASKITIWKEQYRVVQEEHQHM
QMTIQALQDELRIQRDLNQLFQQDSSSRTGEP CVAELTEENFQRLHAEHERQAKELFLLRKTL EEMELRIETQKQ
TLNARDESIKKLLEMLQSKGLSAKATEEDHERTRRLAEAEMHVHHLESLL EQKEKENSMLREEMHRRFENAPDSA
KTKALQTVIEMKDSKISSMERGLRDLEEEIQMLKSNGALSTEEREEMKQMEVYRSHSKFMKNKIGQVKQELS RK
DTELLALQTKLETLTNQFSDSKQHIEVLKESLTAKEQRAAILQTEVDALRLRLEEKETMLNKKTKQIQDMAEEKG
TQAGEIHDLKDMLDVKERKVNVLQKKIENLQEQLRDKEKQMS SLKERVKSLQADTTNTDTALT TLEEALAEKERT
IERLKEQRDRDEREKQEEIDNYKKDLKDLKEKVSL LQGD LSEKEASLLDLKEHASSLASSGLKKDSRLKTL EIAL
EQKKEECLKMESQLKKAHEAALEARASPEMSDRIQH LEREITRYKDESSKAQAEVDRLL EILKEVENEKNDKDKK
IAELESLSRQVKDQNKKVANLKHKEQVEKKKSAQMLEEARRREDNLNDSSQQLQVEELLMA MEKVVKQELES MKA
KLSSTQQSLAEKETHLTNLRAERRKHLEEVLEMKQEALLAAI SEKDANIALLELSSSKKKTQEEVAALKREKDRL
VQQLKQQTQNRMKLMADNYEDDHF KSSH SNQTNHKPSPDQDEEEGIWA

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FIGURE 3432

TATTCTTCCAAATGGAACTGCTAATTTTTGAAGCAGAAGGTTGACAGCTTCAGTAAGATCTCAAGAGAGCGAGA
AGACTGGAATCAGGGAACCCTACTCTGGAACTGTCAGTCCCAGGGCACTGGGGAGGGCTGAGGCCGACC**ATGCC**
CAGCCTGCTGCTGCTGTTACGGCTGCTCTGCTGTCCAGCTGGGCTCAGCTTCTGACAGACGCCAACTCCTGGTG
GTCATTAGCTTTGAACCCGGTGCAGAGACCCGAGATGTTTATCATCGGTGCCCAGCCCGTGTGCAGTCAGCTTCC
CGGGCTCTCCCCTGGCCAGAGGAAGCTGTGCCAATTGTACCAGGAGCACATGGCCTACATAGGGGAGGGAGCCAA
GACTGGCATCAAGGAATGCCAGCACCAGTTCCGGCAGCGGCGGTGGAATTGCAGCACAGCGGACAAACGCATCTGT
CTTTGGGAGAGTCATGCAGATAGGCAGCCGAGAGACCGCCTTACCCACGCGGTGAGCGCCGCGGGCGTGGTCAA
CGCCATCAGCCGGGCCTGCCGCGAGGGCGAGCTCTCCACCTGCGGCTGCAGCCGGACGGCGCGGCCCAAGGACCT
GCCCCGGGACTGGCTGTGGGGCGGCTGTGGGGACAACGTGGAGTACGGCTACCGCTTCGCCAAGGAGTTTGTGGA
TGCCCCGGGAGCGAGAGAAGAAGCTTTGCCAAAGGATCAGAGGAGCAGGGCCGGGTGCTCATGAACCTGCAAAACAA
CGAGGCCGGTTCGACGGGCTGTGTATAAGATGGCAGACGTAGCCTGCAAATGCCACGGCGTCTCGGGGTCTGTCAG
CCTCAAGACCTGCTGGCTGCAGCTGGCCGAGTTCCGCAAGGTGCGGGACCGGCTGAAGGAGAAGTACGACAGCGC
GGCCGCCATGCGCGTCACCGCAAGGGCCGGCTGGAGCTGGTCAACAGCCGCTTACCCAGCCCACCCCGGAGGA
CCTGGTCTATGTGGACCCAGCCCCGACTACTGCCTGCGCAACGAGAGCACGGGCTCCCTGGGCACGCAGGGCCG
CCTCTGCAACAAGACCTCGGAGGGCATGGATGGCTGTGAGCTCATGTGCTGCGGGCGTGGCTACAACCAGTTCAA
GAGCGTGCAGGTGGAGCGCTGCCACTGCAAGTTCCACTGGTGCTGCTTCGTCAGGTGTAAGAAGTGCACGGAGAT
CGTGGACCAGTACATCTGTAAAT**TAG**CCCGGAGGGCCTGCTCCCGCCCCCTGCACTCTGCCTCACAAAGGTCTA
TATTATATAAATCTATATAAATCTATTTTATATTTGTATAAGTAAATGGGTGGGTGCTATACAATGGAAAGATGA
AAATGGAAAGGAAGAGCTTATTTAAGAGACGCTGGAGATCTCTGAGGAGTGGACTTTGCTGGTTCTCTCCTCTTG
GTGGGTGGGAGACAGGGCTTTTTCTCTCCCTCTGGCGAGGACTCTCAGGATGTAGGGACTTGGAATATTTACTG
TCTGTCCACCACGGCCTGGAGGAGGGAGGTTGTGGTTGGATGGAGGAGATGATCTTGTCTGGAAGTCTAGAGTCT
TTGTTGGTTAGAGGACTGCCTGTGATCCTGGCCACTAGGCCAAGAGGCCCTATGAAGGTGGCGGGAACCTCAGCTT
CAACCTCGATGTCTTCAGGGTCTTGTCCAGAATGTAGATGGGTTCGTAAGAGGCCTGGTGCTCTCTTACTCTTT
CATCCACGTGCACTTGTGCGGCATCTGCAGTTTACAGGAACGGCTCCTTCCCTAAAATGAGAAGTCCAAGGTCAT
CTCTGGCCCAGTGACCACAGAGAGATCTGCACCTCCCGGACTTCAGGCCTGCCTTTCCAGCGAGAATTCTTCATC
CTCCACGGTTCACTAGCTCCTACCTGAAGAGGAAAGGGGGCCATTTGACCTGACATGTCAGGAAAGCCCTAACT
GAATGTTTTCGCTGGGCTGCAGAAGCCAGGTTGCATGACCAGGCTGCGTGGACGTTATACTGTCTTCCCCACC
CCCGGGGAGGGGAAGCTTGAGCTGCTGCTGTCACTCCTCCACCGAGGGAGGCCTCACAAACCACAGGACGCTGCA
ACGGGTACGGCTGGCGGGCCCCGGCGTGTCTCATCTCTGCCCCAGGTGTACGGTTTCTCTCTGACATTAAATGC
CCTTCATGG

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FIGURE 3433

MPSLLLLFTAALLSSWAQLLTDANSWWSLALNPVQRPEMFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMAYIGEG
AKTGIKECQHQFRQRRWNCSTADNASVFGRVMQIGSRETAFTHAVSAAGVVNAISRACREGELSTCGCSRTARPK
DLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRVLMNLQNEAGRRAVYKMADVACKCHGVSGS
CSLKTCWLQLAEFRKVGDRLEKYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESTGSLGTQ
GRLCNKTSEGMDGCELMCCGRGYNQFKSVQVERCHCKFWCCFVRCKKCTEIVDQYICK

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FIGURE 3434

GACCATTAGCAGGCACCCAGGCCTGTCTTTGGCTCGGAAACGGTGGCCCCCAATGTAGCCTAGTTTGAACCTAGG
AACTGCAGGACCAGAGAGATTCCACTGGAGCCTGATGGACGGGTGACAGAGGGAACCTACTCTGGAAACTGTCA
GTCCCAGGGCACTGGGGAGGGCTGAGGCCGACC**ATG**CCCAGCCTGCTGCTGCTGTTACGGCTGCTCTGCTGTCC
AGCTGGGCTCAGCTTCTGACAGACGCCAACTCCTGGTGGTCATTAGCTTTGAACCCGGTGCAGAGACCCGAGATG
TTTATCATCGGTGCCCAGCCCGTGTGCAGTCAGCTTCCCGGGCTCTCCCTGGCCAGAGGAAGCTGTGCCAATTG
TACCAGGAGCACATGGCCTACATAGGGGAGGGAGCCAAGACTGGCATCAAGGAATGCCAGCACCAGTTCCGGCAG
CGGCGGTGGAATTGCAGCACAGCGGACAACGCATCTGTCTTTGGGAGAGTCATGCAGATAGGCAGCCGAGAGACC
GCCTTCACCCACGCGGTGAGCGCCGCGGGCGTGGTCAACGCCATCAGCCGGGCCTGCCGCGAGGGCGAGCTCTCC
ACCTGCGGCTGCAGCCGGACGGCGCGGCCCAAGGACCTGCCCCGGGACTGGCTGTGGGGCGGCTGTGGGGACAAC
GTGGAGTACGGCTACCGCTTCGCCAAGGAGTTTGTGGATGCCCGGGAGCGAGAGAAGAACTTTGCCAAGGATCA
GAGGAGCAGGGCCGGGTGCTCATGAACCTGCAAAACAACGAGGCCGGTTCGAGGGCTGTGTATAAGATGGCAGAC
GTAGCCTGCAAATGCCACGGCGTCTCGGGTCTGTCAGCCTCAAGACCTGCTGGCTGCAGCTGGCCGAGTTCCGC
AAGGTCGGGGACCGGCTGAAGGAGAAGTACGACAGCGCGGCCGCCATGCGCGTCACCCGCAAGGGCCGGCTGGAG
CTGGTCAACAGCCGCTTCACCCAGCCCACCCCGGAGGACCTGGTCTATGTGGACCCAGCCCCGACTACTGCCTG
CGCAACGAGAGCACGGGCTCCCTGGGCACGCAGGGCCGCCTCTGCAACAAGACCTCGGAGGGCATGGATGGCTGT
GAGCTCATGTGCTGCGGGCGTGGCTACAACCAGTTCAAGAGCGTGCAGGTGGAGCGCTGCCACTGCAAGTTCCAC
TGGTGTGCTGCTTCGTGAGGTGTAAGAAGTGCACGGAGATCGTGGACCAGTACATCTGTAAA**TAG**CCCCGAGGGCCT
GCTCCCGGCCCCCCTGCACTCTGCCTCACAAAGGTCTATATTATATAAATCTATATAAATCTATTTTATATTTGT
ATAAGTAAATGGGTGGGTGCTATACAATGGAAAGATGAAAATGGAAGGAAGAGCTTATTTAAGAGACGCTGGAG
ATCTCTGAGGAGTGGACTTTGCTGGTTCTCTCCTCTTGGTGGGTGGGAGACAGGGCTTTTCTCTCCCTCTGGCG
AGGACTCTCAGGATGTAGGGACTTGAAAATATTTACTGTCTGTCCACCACGGCCTGGAGGAGGGAGGTTGTGGTT
GGATGGAGGAGATGATCTTGTCTGGAAGTCTAGAGTCTTTGTTGGTTAGAGGACTGCCTGTGATCCTGGCCACTA
GGCCAAGAGGCCCTATGAAGGTGGCGGGAACCTCAGCTTCAACCTCGATGTCTTCAGGGTCTTGTCCAGAATGTAG
ATGGGTTCCGTAAGAGGCCTGGTGTCTCTTACTCTTTTCATCCACGTGCACCTTGTGCGGCATCTGCAGTTTACAG
GAACGGCTCCTTCCCTAAAATGAGAAGTCCAAGGTCTCTCTGGCCAGTGACCACAGAGAGATCTGCACCTCCC
GGACTTCAGGCCTGCCTTTCCAGCGAGAATTCTTCATCCTCCACGGTTCACTAGCTCCTACCTGAAGAGGAAAGG
GGGCCATTTGACCTGACATGTGAGGAAAGCCCTAAACTGAATGTTTGCGCCTGGGCTGCAGAAGCCAGGGTGCAT
GACCAGGCTGCGTGGACGTTATACTGTCTTCCCCACCCCCGGGGAGGGGAAGCTTGAGCTGCTGCTGTCACTCC
TCCACCGAGGGAGGCCTCACAAACCACAGGACGTGCAACGGGTGAGGCTGGCGGGCCCGGCGTGTCTCATCTCT
CTGCCCCAGGTGTACGGTTTCTCTCTGACATTAAATGCCCTTCATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 3435

MPSLLLLLFTAALLSSWAQLLTDANSWWSLALNPVQRPEMFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMAYIGEG
AKTGIKECQHQRQRRWNCSTADNASVFGRVMQIGSRETAFTHAVSAAGVVNAISRACREGELSTCGCSRTARPK
DLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRVLMNLQNEAGRRAVYKMADVACKCHGVSGS
CSLKTCWLQLAEFRKVGDRLEKEYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESTGSLGTQ
GRLCNKTSEGMDGCELMCCGRGYNQFKSVQVERCHCKFHWCCFVRCKKCTEIVDQYICK

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FIGURE 3436

GTATGGGAAGGTCGGTGGCGAGTGATCCCTCATGATGTACTACCAGACTGGCTCAAGGATAATGACTTCCTCTTG
CATGGACACCGGCCTCCTATGCCTTCTTTCCGGGCCTGTTTTAAGAGCATTTTCAGAATACACACAGAAACAGGC
AACATTTGGACACATCTCTTAGGTTGTGTATTCTTCTGTGCCTGGGGATCTTTTATATGTTTCGCCCAAATATC
TCCTTTGTGGCCCCCTCTGCAAGAGAAGGTGGTCTTTGGATTATTTTTCTTAGGAGCCATTCTCTGCCTTTCTTTT
TCATGGCTCTTCCACACAGTCTACTGCCACTCAGAGGGGGTCTCTCGGCTCTTCTCTAAACTGGATTACTCTGGT
ATTGCTCTTCTGATTATGGGAAGTTTTGTTCCTTGGCTTTATTATTCTTTCTACTGTAATCCACAACCTTGCTTC
ATCTACTTGATTGTCATCTGTGTGTCTGGGCATTGCAGCCATTATAGTCTCCCAGTGGGACATGTTTGCCACCCCT
CAGTATCGGGGAGTAAGAGCAGGAGTGTTTTTGGGCCTAGGCCTGAGTGGAATCATTCTACCTTGCACTATGTC
ATCTCGGAGGGGTTCCTTAAGGCCGCCACCATAGGGCAGATAGGCTGGTTGATGCTGATGGCCAGCCTCTACATC
ACAGGAGCTGCCCTGTATGCTGCCCGGATCCCCGAACGCTTTTCCCTGGCAAATGTGACATCTGGTTTCACTCT
CATCAGCTGTTTCATATCTTTGTGGTTGCTGGAGCTTTTGTTCACCTCCATGGTGTCTCAAACCTCCAGGAGTTT
CGTTTCATGATCGGCGGGGGCTGCAGTGAAGAGGATGCACCTGTGATACCTACCAGTCTCCAGGGACTATGACCCT
AAACCAGGGCCTGCGGCACTTGCGGGCCTCCCTGCTGGCTACTGATGCCAGTACCAGAGGAGCCCCAAAACCTTG
ACAGCCTCGTGGGCTTTGTGACGGCCAGTGGCTCTGCGTGGTACATGACTGAGAAGAGAAAAACAAAAATAAAT
CATACTCAAAGGATGGAGTGCATCAATTGGGAGAAAAGGAGACATAGCCCAAACCTGGCTTATTCTTGGGATC
TACTGATTGCGGGCTCTGCAAGACCCTTGCCAACTGGCTTCTGATCCATATCATATTTATTTGTAGAAGATGGC
GAAACAGTTTLAGCTGGTGGTCTTTCTTCTCCCTTTCTCTCTCTATGACAATAATACAAACCAATTTAAGTGA
ACATTTATATCCGATAAGGGGTGGGAGTGTGATTTTAAATGCTCTTTTGGGAGAACAAAGAAATTAATGTAAATA
AGATTTCTAACTGTTTAAATAAGACTTTATATAAATGTTTAAACATAGGGGTAAAGGAGGGAGGGAGAATTTTT
GTATAGAATGAAACATGCAAGTACCACACACTGTTTGAATTTTGCACAAAAGTGAAGTGTAGGATCAGGTGATAG
CCCCGGAATGTACAGTGTCTTGGTGCACCAAGATGCCTTCTAAAGGCTGACATACCTTGGACCTAATGGGGCAG
AGAGTATAGCCCTAGCCAGTGGTGACATGACCACTCCCTTTGGGAGGCCTGAGGTAGAGGGGAGTGGTATGTGT
TTTCTCAGTGGAAGCAGCACATGAGTGGGTGACAGGATGTTAGATAAAGGCTCTAGTTAGGGTGTCAATTGTCAAT
TGAGAGACTGACACACTCCTAGCAGCTGGTAAAGGGGTGCTGGAGGCCATGGAGGAGCTCTAGAAAACATTAGCAT
GGGCTGATCTGATTACTTCCTGGCATCCCGCTCACTTTTATGGGAAGTCTTATTAGAGGGATGGGACAGTTTTCC
ATATCCTTGCTGTGGAGCTCTGGAACACTCTCTAAATTTCCCTCTATTAAAAATCACTGCCCTAACTACACTTCC
TCCTTGAGGGAATAGAAATGGACCTTTCTCTGACATAGTTCTTGGCATGGGAGCCAGCCACAAATGAGATTCTGA
CGTGTCAGGTTTCTCCTGAGCTCATCTACATAGATTGGTAGACCCTTCCTTTGGATTAGGAAAGATGAGTTTTA
CCTCTGGTACACTGTCTTGGTAAGCCTGGATGTGACAGACACCTCGGCTCTCCTTGAATAAGAAAGCCAGCAGAA
CTCTTAAAGCCAGTTGTAGTACGGAGTTGTCAGCACTCACTGAACCTCACTTTACAGGGATAAGAGTGGTGTGGC
ATTTTAAATACAATGGTATGTTATTGCCAGGGAGTGAGGTACAAGACGATGGCTCATGTACAGGCCTACCTGAT
ACGGTGTGACAGAAAGTGGTGGGGAAAGGATCTGGTTCATGGAATCTGATCTTGGCCCATAGGTGAACCACCAA
AATAGTGTCTCGAGTCTTAGGTTACTGTCAATCAAGACTTGGGATGACTCCATTATATCCTGGGGTTGTGGGTATT
AGAACTAAATATGGAGGTCCTGAGCATGGGGACTGGCGTCTCAGTAGGTGTTTGGGAATATGGGAAGGGTCTCC
TATTTATTCAATAGAGTTTTCTCAGTTATTTTCCCTTGGCCCTTGCAATCTCCAGCAAAAGGTGGGATCTAGG
AAGAAAGAATCCAGTGTAGAAGTTGAGAAGAACTTGAACGTTTTGGTCTTGATAAGGTCACTGTCTTAGGTGCT
AGGTGGACCGAGCAAAAGACTCAGTGGATGAACGGTGCAGTGCCTGACAGAATAAAGAACAGTATTAATCCCTT
TGAGAAAGCATAGTCCAGCAGGACAGTGGCCATTTGGACAGAAGCCCACTTAGTTTCTTGGGAGCAACAGCACGT
ATCAGAAGCCAGACTTGCTCTTCCGGTCATGCACTTTGGGATACAGCGTATAGGTGCAGCCCTGTCAACAACCAA
CAGAAGTAGCAGCCTCTGGGTGCAGTCACCCACACCCCAAAGCTGGAAGGATCTGGTTCACATAGCACAAACCC
TTAGGAAAAATGAAATTAACATCACTGATGTGTAATCCAGTAAAATCTCCCTTTTTTCGGGTGTGTATGTGGGCAT
GTGCCCATTTCTATGTGTGTGTCTACGTGCAGCTCACTACCAACAGCCTCATGTGCACTTGACCTGACAGTGCTC
GCTGAGAACTCTCACCAGGTTGGCGCCTGAATGCCTTACTCTCAGCAGTCAGAGGCTTGCTTGCTCTGTGCAGAT
TTTTAATTTTCTTTTTTGGCCCTAGGCTGGTTGGGACCTCTACAGCTTCATTCTTTTACCATTAAATAGTGGCCT
TTTTCAGTATTTTCCCTCTTCCCTTTTATAAATTATGCTAAAGCCACAAAGCACATTTTTTGGGGATCATAGAAGG
TTGGGGTTCCAGAAAGGCATCTGTGTGATGGTTCCATTGATGTGGGATTTCCCTACTTGCTGTATTCTCAGTTTC
TAATAAAAAGAACCAATG

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FIGURE 3437

TGCGAGGCAGCTCGCTCGTTCTGCGATCTATTGAGAGTGGCTTCCAAGAGCCCCGTGCCTATGTCTGGGAGGGAG
GGAAGATGGCAGCCGTGGCGGCAGGCGGCCTGGTGGGAAAAGGGGCGCGACATCAGCCTAGCGGCCCTGCAGCGCC
ACGACCCCTATATCAACCGCATCGTGGACGTGGCCAGCCAGGTGGCTCTGTACACCTTCGGCCATCGGGCCCAACG
AGTGGGAGAAAACTGATGTGGAAGGAACCTTATTTGTTTATACAAGGTCTGCTTCTCCAAAGCATGGATTACCA
TTATGAATAGGCTGAGCATGGAATAAGGACAGAACCTATTACTAAAGACTTGGATTTCCAAGTCCAGGACCCTT
TCCTTCTCTACAGAAATGCCAGATTGTCCATCTATGGAATTTGGTTTTATGATAAGGAAGAATGCCAAAGAATTG
CAGAGCTTATGAAAAACCTAACTCAGTATGAACAGTTGAAAGCCCATCAGGGAAGTGGAGCAGGAATTTCCCCAG
TGATCCTCAATTCAGGAGAGGGCAAAGAAGTAGACATTTTACGAATGCTCATCAAGGCCAAAGACGAATACACAA
AGTGTAACCTGTTCTGAGCCAAAAAAGATAACAGTTCCTCTGCCATCTATGACAATCCAAATCTCATCAAAC
CAATTCCAGTGAAACCCAGTGAAACACAGCAACAGCGTATACCTCAGCCCAACCAGACCTTAGACCCCTGAACCCC
AACACTTATCCTTGACAGCTCTGTTTGGGAAGCAGGACAAAAGCTACATGTCAGGAACTGTGGAGCCTCCGCAGA
CTCTCCACCAGCAGCAGCAGCAGCAGCAGCAGCAAGAGAAGCTTCCAATTAGGCAGGGGGTGTACGCTCCC
TGTCTATGAGGAAQCCAGAAGACACTCACCCCCATTGAGAAGCAGCTCTGTCCAGCCATTAGAAACTCATGG
TCAGGAGCGCAGACCTCCACCCATTGTCTAGAGCTGCCTGAAAACCGGCCTTGTGAAAATGGCAGTACCCATTCTG
CGGGAGAATTTTTTACAGGACCTGTCCAGCCAGGGTCTCCTCACAACATTGGAACCTTCTCGTGGTGTACAAAATG
CTTCCAGAACTCAGAACCTGTTTCGAGAACTTCAGAGTACCCAGGGGCAGCAAACAAGTGTGACCCTAGTACAC
CAGCACCTGCCAGCTCAGCTGCCCTGAACCGCAGCAGAGCTCCCACTTCTGTACCCCTGTGGCTCCAGGAAAGG
GTCTGGCTCAGCCACCACAGGCCTATTTCAATGGCTCCCTTCCACCTCAGACAGTAGGACATCAGGCTCATGGAA
GAGAACAGTCCACACTCCCAAGACAAACACTCCCCATCTCTGGTAGTCAGACTGGCAGCTCTGGAGTGATCTCCC
CTCAAGAGTTACTGAAGAAGCTTCAGATTGTACAGCAGGAGCAGCAGCTGCATGCCTCTAACCGGCCAGCCTTGG
CCGCTAAGTTTCTGTGCTCGCTCAGAGCTCTGGAACAGGGAAACCCTTGGAATCCTGGATCAACAAGACACCCA
ACACAGAACAGCAGACTCCTCTTTTTCCAGGTCTCTCACCTCAGCGCATCCCTGCTACAGCAGCTCCGTCTCTGC
TTATGTCCCCCATGGTGTTCGCACAACCCACCTCCGTCCCGCCAAAGGAAAGGGAGAGCGGCCTCTTGCCTGTGG
GAGGCCAGGAGCCACCTGCTGCTGCCACCAGCCTCCTCCTGCCCATACAGAGCCCGGAGCCCTCCGTGATCACCA
GCAGCCCACTACCAAGCTCCAGCTCCAGGAGGCACTGCTGTACCTCATTGAGAATGATGACAACCTCTTAAATA
TAATCTATGAAGCCTATCTCTTCAGCATGACTCAAGCAGCCATGAAAAAGACTATGTGACAGCAAGGCCTTTTAA
AACTGATTTTCAAGGTCCTTCTAGAACTCCGGCACAAGGTTCTTTTCATGTTGAGTGTTGTTTCTTCAATGTTTC
TGCTTTTTTAAAAAAAAGTATGTGTAATATGAAGTAAATGTTTCAGACTTTTTTTTTAT

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FIGURE 3438

MAAVAAGGLVGKGRDISLAALQRHDPYINRIVDVASQVALYTFGHRANEWEKTDVEGTLFVYTRSASPKHGFTIM
NRLSMENRTEPITKDLDFQLQDPFLLYRNARLSIYGIWFYDKEECQRIAEMLKNLTQYEQLKAHQGTGAGISPMI
LNSGEGKEVDILRMLIKAKDEYTKCKTCSEPKKITSSSAIYDNPNIKPIPVKPSSENQQQRIPQPNQTLDPQ
LSLTALFGKQDKATCQETVEPPQTLHQQQQQQQQQQEKLPVIRQGVVRSLSYEEPRRHSPPIEKQLCPAIQKLMVR
SADLHPLSELNRPENRPCENGSTHSAGEFFTGVPVQPGSPHNIGTSRGVQNASRTQNLFEKLQSTPGAANKCDPSTPA
PASSAALNRSRAPTSVTPVAPGKGLAQPPQAYFNGLPPQTVGHQAHGREQSTLPRQTLPISGSQTGSSGVISPM
ELLKKLQIVQQEQQLHASNRPALAAKFPVLAQSSGTGKPLESWINKTPNTEQQTPLFQVISPMQRIPTAAPSLM
SPMVFAQPTSVPPKERESGLLPVGGQEPPAAATSLLLPIQSPEPSVITSSPLTKLQLQEALLYLIQNDDNFLNII
YEAYLFSMTQAAMKKT

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FIGURE 3439

GCCGCGTG CAGAGGTGCTCAAGCCTCCTCGCGGTCCGCAGTCAGTGCCGCCGCGCCCGGCCTCCCGCACGCCCCG
CAGGTAGCGCCCCCGCCGCGGCCAGAGTGCGCTCGCGCCGGCACCAGCTCCCGGATAAACGGCGCGCCGCGCG
GAGATGACAGCCGAGGAGATGAAGGCGACCGAGAGCGGGGCGCAGTCGGCGCCGCTGCCCATGGAGGGAGTGAC
ATCAGCCCCAAACAGGACGAAGGCGTGCTGAAGGTCATCAAGAGAGAGGGCACAGGTACAGAGATGCCCATGATT
GGGGACCGAGTCTTTGTCCACTACACTGGCTGGCTATTAGATGGCACAAAGTTTGACTCCAGTCTGGATCGCAAG
GACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTCATCAAGGCTTGGGACATTGCCATAGCCACCATGAAGGTG
GGGGAGGTGTGCCACATCACCTGCAAACCAGAATATGCCTACGGTTCAGCAGGCAGTCCTCCAAAGATTCCCCC
AATGCCACGCTTGATTTGAGGTGGAGTTGTTTGAGTTTAAGGGAGAAGATCTGACGGAAGAGGAAGATGGCGGA
ATCATTTCGAGAATACAGACTCGCGGTGAAGGCTATGCTAAGCCCAATGAGGGTGCTATCGTGAGGTTGCACTG
GAAGGGTACTACAAGGACAAGCTCTTTGACCAGCGGGAGCTCCGCTTTGAGATTGGCGAGGGGGAGAACCTGGAT
CTGCCTTATGGTCTGGAGAGGGCCATTGAGCGCATGGAGAAAGGAGAACATTCCATCGTGACCTCAAGCCCAGC
TATGCTTTTGGCAGTGTTGGGAAGGAAAAGTTCCAAATCCCACCAAATGCTGAGCTGAAATATGAATTACACCTC
AAGAGTTTTGAAAAGGCCAAGGAGTCTTGGGAGATGAATTCAGAAGAGAAGCTGGAACAGAGCACCATAGTGAAA
GAGCGGGGCACTGTGTACTTCAAGGAAGGTAAATACAAGCAAGCTTTACTACAGTATAAGAAGATCGTGTCTTGG
CTGGAATATGAGTCTAGTTTTTCCAATGAGGAAGCACAGAAAGCACAGGCCCTTCGACTGGCCTCTCACCTCAAC
CTGGCCATGTGTCATCTGAAACTACAGGCCTTCTCTGCTGCCATTGAAAGCTGTAACAAGGCCCTAGAACTGGAC
AGCAACAACGAGAAGGGCCTCTTCCGCGGGGAGAGGCCACCTGGCCGTGAATGACTTTGAACTGGCACGGGCT
GATTTCCAGAAGGTCCTGCAGCTCTACCCCAACAACAAAGCCGCCAAGACCCAGCTGGCTGTGTGCCAGCAGCGG
ATCCGAAGGCAGCTTGCCCGGGAGAAGAAGCTCTATGCCAATATGTTTGAGAGGCTGGCTGAGGAGGAGAACAAG
GCCAAGGCAGAGGCTTCCTCAGGAGACCATCCCACTGACACAGAGATGAAGGAGGAGCAGAAGAGCAACACGGCA
GGGAGCCAGTCTCAGGTGGAGACAGAAGCATAGCCCCCTCTCCACCAGCCCTACTCCTGCGGCTGCCTGCCCCCA
GTCTCCCCACTCCACCCTGTTAGTTTTGTAAAACTGAAGAATTTTGAGTGAATTAGACCTTTATTTTTCTATCT
GGTTGGATGGTGGCTTTAGGGGAAGGGGAAAGGTGTAGGCTGGGGGATTGAGGTGGGGAATCATTTTAGCTGGT
GTCAGCCCCCTCTTCCCTTCCTCCATTGCACATGAACATATGTCCATCCATATATATTCATCAGAATGTTAATTTA
TTTTGCTCCCTCTGTTAGGTCCATTTTCTAAGGGTAGAAGAGGCAAGTGGTAGGGATGAGGTCTGATAAGAACC
AGGGTGGAGAGGGAGACTCCTGGGCAGCCGTTTTCTCATCCTTTCCCTCTCCAGTCCATTTCCAAATGTGGCC
TCCATGTGGGTGCTAGGGACATGGGAAAAACCACTGCTATGCCATTTCTTCTCTCTGTTCCCTTCCTCACCCCG
ACGGTGTGGCTGATGATGTCTTCTGGTGTGATGGTGACCAACCCCTGTTCCCTGTTCTGGTATTTCCCTGTGAG
TTTCCCTCTCGGCCAGGTTGTGTCCCAAAATCCCTCAGCCTCTTCTCTGCAGTTGCTGAAGGTCCAGGCTTG
CCTCAAGTTCCATGCTTGAGCAATAAAGTGGAACAATAAACCTGGGTGTCAGACAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 3440

MTAEEMKATESGAQSAPLPMEGVDISPQDEGVLEKVIKREGTGTEMPMIGDRVVFVHYTGWLLDGTKFDSSLDRKD
KFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGI
IRRIQTRGEGYAKPNEGATIVEVALEGGYKDKLFDQRELRF EIGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSY
AFGSVGKEKFQIPPNAELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGT VYFKEGKYKQALLQYKKIVSWL
EYESSFSNEEAQKAQALRLASHNLAMCHLKLQAFSAAIESCNKALELDSNNEKGLFRRGEAHLAVNDFELARAD
FQKVLQLYPNNKAAKTQLAVCQQRIRRLAREKKLYANMFERLAEEENKAKAEASSGDHPTDTEMKEEQKSNTAG
SQSQVETEA

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FIGURE 3441

GCGGAGCTGCCAGCCGCGGGCCGCTCGTTGGTGGCGGTGCCAGGGCTCGCCACCCGGGCGGTGGAACACGGGC
CAGGACGGGGAGCGACTCCCCACAGTGCTTTCCTGGCCCTTCGGCCTTTGTGCGACGCAGGCGCGACAGGGTTCC
GGCGCCCTCCCGGGGTCCCCTGCCGACGCCGGGACCCAGCGAGGTCCCCACTCGCCGCGCGGGCGCCCCCTCCCTC
GGCCCCGGGGAGGCCGGGCGCGGGGCATGCCGGGAGCTGTAGTCCCCTCCCCCTCCGCCGCTCCCGGAGCCAG
GGCTGCGGGGTGTGGGGCGGGGAGGAGGCGCTCTGCTGTGGAGCCTGCCGCCGAGTGACCGCTCGACTACAAATA
GCCTGGGGAGCTGCGGGGAGGGCATCTTGACCTGGGCCAGGACAACCTGCCTTGGGTGCGGAGCAGGTTCCAGGGA
GAATCAGAGATGGTGAATTCCCAGCCTGCGTCTTATGCCTTCTCCCCATCCGCTGCTGCGTCCTCATCCTGGCTT
CCCACCGCTGAGCTCCGCGTGTGCGGCACCCACCTCAGGGGGCCTTTACCTGGTCCAGAAGTGCATCTGTCTTTG
CACCAGATTATTGGGGACCTCAAGCGTCTGCTCCAGCGGCTCTCCTGTGGCATGTGACTTCCCCTTCTCGCTCCA
GCGTCCTGCCGTTTTTCTACGAGATTGTTATTCCAGGTCATCAAGAGAGAGGGCACAGGTACAGAGATGCCCATGA
TTGGGGACCGAGTCTTTGTCCA

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FIGURE 3442

GTCGCGACGGGGGTTT CAGGGAATATTTACTGGGCCTCTCCGCTCCCTCTGCTCTTGGAGGTGCCATGAGGTCAGT
TAGCTACGTGCAGCGCGTGGCGCTGGAGTTT CAGCGGGAGCCTCTTCCCGCACGCAATCTGCCTCGGAGACGTTGA
TAACGATACGTTAAATGAACTGGTGGTGGGAGACACCAGCGGGAAGGTGTCTGTGTATAAAAAATGATGACAGTCG
GCCATGGCTCACCTGTTCTGCCAGGGAATGCTGACTTGCGCTGGGGTTGGAGACGTGTGTAATAAAGGAAAGAA
CCTGTTGGTGGCAGTGAGTGCTGAAGGCTGGTTTCATTTGTTTGACCTGACACCTGCCAAGGTGTTGGATGCTTC
TGGGCACCACGAGACACTAATCGGAGAGGAGCAGCGTCCAGTCTTCAAGCAGCACATCCCTGCCAACACCAAGGT
CATGCTGATCAGCGACATCGATGGAGATGGGTGTCGTGAGCTGGTGGTGGGCTACACAGACCGTGTGGTGCGAGC
TTTCCGCTGGGAGGAGCTAGGTGAGGGTCTGAACATCTGACAGGGCAGCTGGTGTCCCTCAAGAAATGGATGCT
GGAGGGTCAGGTGGACAGCCTCTCAGTGACTCTGGGGCCACTGGGTCTTCCTGAACTGATGGTGTCTCAGCCAGG
TTGTGCGTATGCAATTCTACTGTGTACCTGGAAAAAGGACACTGGGTCCCCTCCTGCCTCTGAAGGGCCACGGA
TGGTAGTAGGGAGACCCAGCTGCCCCGAGACGTGGTGCTGCACCAGACATCTGGCCGTATCCACAACAAGAATGT
CTCCACTCACCTAATTGGCAACATCAAACAAGGCCACGGCACTGAGAGTAGTGGCTCTGGCCTCTTTGCCCTGTG
CACCTGGATGGGACACTGAAGCTCATGGAAGAAATGGAAGAAGCAGACAAGCTGCTGTGGTCAGTGCAGGTGGA
TCACCAGCTCTTTGCCCTGGAGAACTGGATGTCACCGGCAACGGGCATGAGGAGGTAGTTGCATGCGCCTGGGA
TGGACAGACATATATCATTGATCACAACCGCACCGTCGTCCGCTTCCAAGTGGATGAAAAATATCCGTGCCTTCTG
TGCGGGCCTGTACGCCTGCAAAGAGGGCCGCAACAGCCCCCTGCCTCGTATATGTCACTTTCAACCAGAAGATCTA
TGTGTACTGGGAGGTGCAGCTGGAGCGGATGGAGTCTACCAATCTGGTGAAACTGCTGGAGACCAAGCCGGAGTA
CCACAGCCTGCTGCAGGAGCTGGGCGTGGATCCTGACGACCTCCCTGTGACTCGTGCCCTGCTTCACCAAACGCT
CTACCATCCAGACCAGCCACCACAGTGCTCCCTCAAGCCTCCAGGATCCCACCTTAGCTGTACTTGCCTCATAG
CTGGTGAAGGATTCTTCTGAACCCCCACCCTACCCCCCTAAAGGTATCTGTGGTATTGGCAGGATAGGGAATATGC
ATTACAGAAATGCAGGATTTGACTCTGGGCATGAAAGATGGCAGCAGCCCTAGGGTGACCGTGAACCTATAGACCT
CGCAGTCTTTTTCGGTGAAAGAAGAGACAAGTTGACCCTCTGCCATTTCCTTATGGACCTCACCCATCATGCCAG
CAGGGTCATAGGACCCTGGCCTTGTTCCAAATCATCTGGGACATGACCCACTCCCCACTGTCACTGTGTTGAAAA
CAGAGACTTGTTTGTGTGGCCCCAACACCCATAAGGAAACCAGGCTTTAGGCCAGGGGAGCAGTGGAGGTAAGG
GCTCCACCCCATCTTAAGCTCTGTCTTCCGTGGCACAATTCCAAGTTCTTGACGTTAGTAATTGTTAAAGGAATG
GCAAACCTGTTTTGTTTTGAAGGATCTTTCTACAGTCTGGTCTTACCCATGTTCTTAGCAACCCTGAGATGATTTT
CTTCCATTTACCAAAGCAGCCGGGTCAGTGCCTTCTCACGTTGCCGTATTCTTCAGGTATTAGTCAGCTTCAGAA
GCCCTGCTCCCATTTTTCCACCCACCCATTCCCCCATAAAACAGCTTATTGTCTCCAAGACAATAGACATTTAAA
ATGTGATGCGGGTTTATGATCCAGACCACAATCAGAATTATATCTTGGGTCATTT

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FIGURE 3443

MRSVSYVQRVALEFSGSLFPHAICLGDVDNDTLNELVVGDTSGKVSVKNDSDSRPWLTCSQGMMLTCAGVGDVCN
KGKNLLVAVSAEGWFHFLDTPAKVLDASGHHE TLIGEEQRPVFKQHIPANTKVMLISDIDGDGCRELVVGYTDR
VVRAFRWEELGEGPEHLTGQLVSLKKWMLEGQVDSL SVTLGPLGLPELMVSQPGCAYAILLCTWKKDTGSPPASE
GPTDGSRETPAARDVVLHQTSGRIHNKNVSTHLIGNIKQGHGTESSGSLFALCTLDGTLKLMEEMEEADKLLWS
VQVDHQLFALEKLDVTGNGHEEVVACAWDGQTYIIDHNRTVVRVFQVDENIRAF CAGLYACKEGRNSPCLVYVTFN
QKIYVYWEVQLERMESTNLVKLLET KPEYHSL LQELGVDPDDL PVTRALLHQTLYHPDQPPQCAPSSLQDPT

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FIGURE 3444

CGGCGGCGACTGCAGTCTGGAGGGTCCACACTTGTGATTCTCAATGGAGAGTGAAAACGCAGATTTCATAATGAAA
GCTAGCCCCCGTTCGGCCACTGATTCTCAAAAGACGGAGGGCTGCCCCCTCCTGTTCAAAATGCCCCAAGTGAAACA
TCAGAGGAGGAACCTAAGAGATCCCCTGCCCAACAGGAGTCTAATCAAGCAGAGGCCTCCAAGGAAGTGGCGGAG
TCCAACCTCTTGCAAGTTTCCAGCTGGGATCAAGATTATTAACCAACCCACCATGCCCAACACGCAAGTAGTGGCC
ATCCCCAACAAATGCTAATATTCACAGCATCATCACAGCACTGACTGCCAAGGGAAAAGAGAGTGGCAGTAGTGGG
CCCAACAAATTCATCCTCATCAGCTGTGGGGGAGCCCCAACTCAGCCTCCAGGACTCCGGCCTCAAACCCAAACC
AGCTATGATGCCAAAAGGACAGAAGTGACCCTGGAGACCTTGGGACCAAAACCTGCAGCTAGGGATGTGAATCTT
CCTAGACCACCTGGAGCCCTTTGCGAGCAGAAACGGGAGACCTGTGCAGATGGTGAGGCAGCAGGCTGCACTATC
AACAATAGCCTATCCAACATCCAGTGGCTTCGAAAGATGAGTTCTGATGGACTGGGCTCCCGCAGCATCAAGCAA
GAGATGGAGGAAAAGGAGAATTGTACCTGGAGCAGCGACAGGTTAAGGTTGAGGAGCCTTCGAGACCATCAGCG
TCCTGGCAGAACTCTGTGTCTGAGCGGCCACCCTACTCTTACATGGCCATGATACAATTGCCCATCAACAGCACT
GAGAGGAAGCGCATGACTTTGAAAGACATCTATACGTGGATTGAGGACCACTTTCCCTACTTTAAGCACATTGCC
AAGCCAGGCTGGAAGAATCCATCCGCCACAACCTTTCCCTGCACGACATGTTTGTCCGGGAGACGTCTGCCAAT
GGCAAGGTCTCCTTCTGGACCATTACCCCCAGTGCCAACCGCTACTTGACATTGGACCAGGTGTTTAAGCCACTG
GACCCAGGGTCTCCACAATTGCCCGAGCACTTGGAATCACAGCAGAAACGACCGAATCCAGAGCTCCGCCCGAAC
ATGACCATCAAAACCGAACTCCCCCTGGGCGCACGGCGGAAGATGAAGCCACTGCTACCACGGGTGAGCTCATAC
CTGGTACCTATCCAGTTCCCGGTGAACCAGTCACTGGTGTGTCAGCCCTCGGTGAAGGTGCCATTGCCCTGGCG
GCTTCCCTCATGAGCTCAGAGCTTGCCCGCCATAGCAAGCGAGTCCGCATTGCCCCCAAGGTGCTGCTAGCTGAG
GAGGGGATAGCTCCTCTTTCTTCTGAGGACCAGGGAAAAGAGGAGAACTCCTGTTTGGAGAAGGGTTTTCTCCT
TTGCTTCCAGTTCAGACTATCAAGGAGGAAGAAATCCAGCCTGGGGAGGAAATGCCACACTTAGCGAGACCCATC
AAAGTGAGAGCCCTCCCTTGGAAGAGTGCCCTCCCCGGCCCCATCTTTCAAAGAGGAATCATCTCACTCCTGG
GAGGATTCGTCCCAATCTCCCACCCCAAGACCCAAAGAAGTCCTACAGTGGGCTTAGGTCCCCAACCCGGTGTGTC
TCGGAATGCTTGTGATTCAACACAGGGAGAGGAGGGAGAGGAGCCGCTCTCGGAGGAAACAGCATCTACTGCCT
CCCTGTGTGGATGAGCCGGAGCTGCTCTTCTCAGAGGGGGCCAGTACTTCCCGCTGGGCGCAGAGCTCCCGTTC
CCAGCAGACTCCTCTGACCCTGCCTCCCAGCTCAGCTACTCCCAGGAAGTGGGAGGACCTTTTAAGACACCCATT
AAGGAAAACGCTGCCCATCTCCTCCACCCCGAGCAAATCTGTCTCCTCCCAAGAACCCCTGAATCCTGGAGGCTCAG
CCCCCAGCCAAAGTAGGGGGACTGGATTTTCAGCCCACTACAAACCTCCAGGGTGCCTCTGACCCCTTGCCCTGAC
CCCCTGGGGCTGATGGATCTCAGCACCCTCCCTTGCAAAGTGCTCCCCCCTTGAATCACCGCAAAGGCTCCTC
AGTTCAGAACCCTTAGACCTCATCTCCGTCCCCTTTGGCAACTCTTCTCCTCAGATATAGACGTCCCCAAGCCA
GGCTCCCCCGAGCCACAGGTTTCTGGCCTTGACGCAATCGTTCTCTGACAGAAGGCCTGGTCTTGACACAATG
AATGACAGCCTCAGCAAGATCCTGCTGGACATCAGCTTCTCTGGCCTGGACGAGGACCCACTGGGCCCTGACAAC
ATCAACTGGTCCAGTTTATTCTGAGCTACAGTTAGAGCCCTGCCCTTGCCCTGTGCTCAAGCTGTCCACCATC
CCGGGCACTCCAAGGCTCAGTGCACCCCAAGCCTCTGAGTGAGGACAGCAGGCAGGGACTGTTCTGCTCCTCATA
GCTCCCTGCTGCCTGATTATGCAAAAGTAGCAGTCACACCCTAGCCACTGCTGGGACCTTGTGTTCCCCAAGAGT
ATCTGATTCTCTGCTGTCCCTGCCAGGAGCTGAAGGGTGGGAACAACAAAGGCAATGGTGAAAAGAGATTAGGA
ACCCCCAGCCTGTTTCCATTCTCTGCCAGCAGTCTCTTACCTTCCCTGATCTTTGCAGGGTGGTCCGTGTAAA
TAGTATAAATTCCTCAAATTATCCTCTAATTATAAATGTAAGCTTATTTCTTAGATCATTATCCAGAGACTGCC
AGAAGGTGGGTAGGATGACCTGGGGTTTCAATTGACTTCTGTTCCCTTGCTTTTAGTTTTGATAGAAGGGAAAGACC
TGAGTGCACGGTTTCTTCCAGGCTGAGGTACCTGGATCTTGGGTCTTCACTGCAGGGACCCAGACAAGTGGAT
CTGCTTGCCAGAGTCTTTTTTGCCCCCTCCCTGCCACCTCCCCGTGTTTCCAAGTCAGCTTTCTGCAAGAAGAAA
TCCTGGTTAAAAAAGTCTTTTGTATTGGGTGAGGAGTTGAATTTGGGGTGGGAGGATGGATGCAACTGAAGCAGA
GTGTGGGTGCCCAGATGTGCGCTATTAGATGTTTCTCTGATAATGTCCCAATCATACCAGGGAGACTGGCATTG
ACGAGAACTCAGGTGGAGGCTTGAGAAGGCCGAAAGGGCCCCCTGACCTGCCTGGCTTCCTTAGCTTGCCCCCTCAG
CTTTGCAAAGAGCCACCCTAGGCCCCAGCTGACCGCATGGGTGTGAGCCAGCTTGAGAACACTAACTACTCAATA
AAAGCGAAGGTGGACCXAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3445

MKASPRRPLILKRRRLPLPVQNAPSETSEEEPKRSPAQQESNQAEASKEVAESNSCKFPAGIKIINHPTMPNTQV
VAIPNNANIHSIITALTAKGKESGSSGPNKFILISCGGAPTQPPGLRPQTQTSYDAKRTEVTLETLGPKPAARDV
NLPRPPGALCEQKRETCADGEAAGCTINNSLSNIQWLRKMSSDGLGSRSIKQEMEEKENCHLEQRQVKVEEPSRP
SASWQNSVSERPPYSYMAIMQFAINSTERKRMTLKDIIYTWIEDHFPYFKHIAKPGWKNSIRHNLSLHDMFVRETS
ANGKVSFWTIHPSANRYLTLDQVFKPLDPGSPQLPEHLESQQKRPNPELRRNMTIKTELPLGARRKMKPLLPRVS
SYLVPIQFPVNQSLVLQPSVKVPLPLAASLMSSELARHSKRVRRIAPKVLLAEEGIAPLSSAGPGKEEKLLFGEGF
SPLLPVQTIKEEEIQPGEEMPHLARPIKVESPPLEEWSPAPSFKEESSHSHWEDSSQSPTPRPKKSYSGLRSPTR
CVSEMLVIOHRERRERSRSRRKQHLLPPCVDEPELLFSEGPSTSRWAAELPFPADSSDPASQLSYSQEVGGPFKT
PIKETLPISSTPSKSVLPRTPEWRLTPPAKVGGLDFSPVQTSQGASDPLPDPLGLMDLSTTPLQSAPPLESPQR
LLSSEPLDLISVPFGNSSPSDIDVPKPGSPEPQVSGLAANRSLTEGLVLDTMNDSLKILLDISFPGLDEDPLGP
DNINWSQFIPELQ

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FIGURE 3446

CGAAGGCTGTGCGGTCTGCCAGGAGCTGCGGCCCCGTCCGGCCCCGGGCTGGCATGGGTTGGAATTGGAGCCTATC
CCCCAACCCGAAGGCTAACAGCATCATGTGGTTACTAACTGTTCCCTCATTACCCGGTTG**ATG**CCTCCCAGAAAAA
AACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTGGAGGGCCCCAAACACAGCTGTG
CATCTACACAGCTTCCCATCACTCACACTCGACAGGTGCCAGCAAGCCCATTGACCACAGCACCATCACTTCCT
GGGTATCACCTGATTTTGATACAGCAGCAGGAAGCTTGTTCCAGCCTACCAGAAACACCAAAACCGGGCGAGAC
ACTCAAGTCGAAAACCTACCACCTCCAAGTTTCCACATCTAACTTTTGAGAGTCCGCAATCTTCCAGTTCAGAGA
CATTGGGGATCCCCTTAATCCGAGAGTGCCCCAGTGAATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCCAG
TGCTCAGTCCCCAAAGCTGTGGGAACATGTCAGTGCAGGCACTTCAGAGCTTACCTTATGTGTTTATTCCACCTG
ATATCCAGACCCCAGAGTCATCATCTGTGAAGGAAGAACTCATTCCCCAAGATCAGAAGGAAAAACAGCCTTCTAA
GCTGCACTCTTCACACTGGCACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGACACCCCCGAGGACA
AGTATGGAATAAAGGTCACATGGAGGAGACGACAGCACCTGCTTGCTTACCTCAGGGAGAGAGGGAAGCTGAGCA
GAAGCCAATTTCCTTGTAAGAGCT**TGA**CTGCCATCAGTAATCTCAATAGAAAAGAGATATGTTTTCTGGAGTCATA
AAGGAATTCAATTCCTAGGGTTTTTGTGTTTTGTTTTGAGATGTAATATTGCTCTGTTGCCCAGGCTGGAGTGCA
GTGGTATGATCTCACCTTACTGCAACCACCACTTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAG
CTGGGATTACAGGCACCAGCCACCATGCCTGGCTAATTTTTTTGTATTTTTTAGTAGAGATGTGGTTTCTCCATGT
TGGCCAGGCTGGTCTCAAAATCCTGACCTCAAGTCATCTGCTGGCCTTGACCTCACAAAGTGCTGGCCCAGCCGA
GATTTGTTTTCTAAGATACTTTGTGTCATGAACAGTTCAGTTTAGTGTCATGAAGTATTCACTTCATATTTTTCT
TGTATTAACTGTTTAAATTTTTTAAATATCTTGTAGTAACTCTTTAAATGTATGTAAGTAAATGGCTGCAGAAA
GTTTTTTTAGAGAATCCTGCTTCCATCAGTAATACAGCAATATTACCCCATCCACTAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 3447

MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPDFDTAAGSLFPAYQKH
QNRARHSSRKPTTSKFPHLTFESPQSSSSETLGIPLIRECPSESEKDVSRRLVPVLSPQSCGNMSVQALQSLPY
VFIPPDIIQTPESSVKEELIPQDQKENSLLSCTLHTGTPNSPEPGPVLVKDTPEDKYGIKVTWRRRQHLLAYLRE
RGKLSRSQFLVKS

FIGURE 3448

[illegible]

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FIGURE 3449

MAAAAQSRVVRVLSMSRSAITAIATSVCHGPPCRQLHHALMPHGKGGRSSVSGIVATVFGATGFLGRYVVNHLGR
MGSQVIIPYRCDKYDIMHLRPMGDLGQLLFLEWDARDKDSIRRVVQHNSNVVINLIGRDWETKNFDFEDVFVKIPQ
AIAQLSKEAGVEKFIHVSHLNANIKSSSRYLRNKAVGEKVVRDAFPEAIIVKPSDIFGREDRFLNSFASMHRFGP
IPLGSLGWKTVKQPVYVVDVSKGIVNAVKDEPDANGKSFAFVGPSRYLLFHLVKYIFAVAHRLFLPFPLPLFAYRW
VARVFEISPFEPWITRDKVERMHITDMKLPHLPGLEDLGIQATPLELKAIEVLRRHRTYRWLSAEIEDVKPAKTV
NI

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FIGURE 3450

CTCCCGCCTTCTCTCCGCAGAGCTCTTCTCTGAGCCTGTTGGGGGGAGGGAGGGGGGCGTGGAGGAACTGGGGTT
CGCGGGAGCACGAGCTGCAGCACCCTTCCGGAAAAGTTCAGGAGCCCTGGAAAAGGAGAAGGAATAAGACGGCAGG
AGGAAGAGAGAGAGAGGGGTAGAATGGAAGAATCTCACTTCAATTCTAACCCGTACTTCTGGCCTTCTATCCCCAC
AGTCTCAGGTCAGATCGAGAACAACAATGTTTCATCAACAAGATGAAGGATCAGCTGTTGCCAGAGAAGGGCTGTGG
TCTGGCCCCACCTCACTACCCACCTTGCTGACAGTGCCTGCCTCAGTGTCCCTGCCCTCAGGCATCAGTATGGA
CACAGAGTCCAAGTCAGACCAGCTGACCCACACAGCCAAGCGTCCGTTACCCAGAATATCACGGTGGTCCCTGT
GCCGTCTACAGGACTGATGACTGCTGGAGTCTCCTGTTCTCAGAGGTGGAGAAGAGAAGGGAGTCAATCAAGGGG
TCCGGGTTTGGTAATCACGTCCCCCTCAGGCTCTCTTGTGACCACAGCATCATCAGCTCAGACCTTCCCCATTTC
GGCTCCCATGATTGTCTCAGCTCTTCCCCCTGGCTCACAAGCCCTGCAGGTTGTCCCTGACCTCTCCAAGAAGGT
AGCATCGACCCTAACCGAGGAAGGAGGCGGAGGTGGTGGTGGAGGTGGCAGTGTGGCTCCTAAGCCACCCCGGGG
CCGGAAGAAGAAGCGGATGCTGGAATCAGGGCTGCCCAGATGAATGACCCTTATGTCTCTCCCCTGAGGATGA
TGATGACCATCAGAAAGACGGCAAGACCTACAGGTGCCGGATGTGCTCACTGACATTCTACTCCAAGTCGGAGAT
GCAGATCCACTCCAAGTCACACACCGAGACCAAGCCCCACAAGTGCCACATTGCTCCAAGACCTTCGCCAACAG
CTCCTACCTGGCCCAGCACATCCGTATACACTCAGGGGCTAAGCCCTACAGTTGTAACCTTCTGTGAGAAATCCTT
CCGCCAGCTCTCCACCTTCAGCAGCACACCCGGATCCACTCCAAGATGCACACGGAGACCATCAAGCCCCACAA
GTGCCCCGCACTGCTCCAAGACCTTCGCCAACACCTCCTACCTGGCCCAGCACCTCCGTATCCACTCGGGGGCCAA
GCCCTACAACGTGTTCTACTGCCAGAAGGCCTTCCGCCAGCTCTCCACCTCCAGCAGCACACACGAATCCACAC
TGGTGATAGACCATACAAATGTGCACACCCAGGCTGTGAGAAAGCCTTCACACAACCTCTCCAATCTGCAGTCCCA
CAGACGGCAACACAACAAAGATAAACCCCTTCAAGTGCCACAACCTGTCATCGGGCGTACACGGATGCAGCCTCACT
AGAGGTGCACCTGTCTACGCACACAGTGAAGCATGCCAAGGTGTACACCTGCACTATCTGCAGTCGGGCATACAC
ATCAGAAACATACCTTATGAAACATATGCGCAAAACACAACCCGCCTGATCTTCAGCAACAGGTGCAGGCAGCAGC
AGCAGCGGCAGCAGTGGCCCAGGCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCCA
GGCCCAGGCCTCCCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACC
ACACTTCCAGTCTCCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCCAACCTCCACCCCAGTG
TTCCTTTGACCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTACCACCAGCACCAT
CCAGGTGGAGCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTGGGAAGAGGAAGAAGTAGTCCTGGTG
TCTTCTTTCTCCAACCTCTTGGTGGGAAAAGTCCTTTTCTTCTTGACAGGCCTTGGCTCCATCTCCTTGGGCCTC
TGTCACGGCTTTCTTTCACAGGATACCATCCTTTTCTGAACTCTTCTTCAAAGGAACATCAGCCCTCCTGATT
GCAAAGGAATACTGAGCTGATGGTGTTCATCCAGCAGCCTCCCCCTCCAAGCAAAGCTTCTAAACTGGGGGTCGG
TGCTCAAGGGAAGGATTTGCTATGACCTCATAGAAC

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FIGURE 3451

CTTCAAGTGCCACAACCTGTCATCGGGCGTACACGGATGCAGCCTCACTAGAGGTGCACCTGTCTACGCACACAGT
GAAGCATGCCAAGGTGTACACCTGCACTATCTGCAGTCGGGCATACACATCACAACAGGTGCAGGCAGCAGCAGC
AGCGGCAGCAGTGGCCCAGGCCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCCAGGC
CCAGGCCTCCCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACCACA
CTTCCAGTCTCCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCAACCCCTCCACCCAGTGTTTC
CTTTGACCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTCAACCACCAGCACCATCCA
GGTGGAGCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTG

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FIGURE 3452

GGGCCGGAGTTCCTGCAGAGGGAGCGTCAAGGCCCTGTGCTGCTGTCCCTGGGGGCCAGAGGGGTTGCCCAGCAT
GCCCCTGGCAGGAGAGAGGGAACTGACCCACTTGCTCCTACCAGCTTCTGAAGGCTCCAAAGTCCGGAGTGCAG
AAAGCCAGGACCAAGAGACAGGCAGCTCACCAGGGTGGACAAATCGCCAGAGATGTGGTGCAATTGTCCTGTTTTC
ACTTTTGGCATGGGTTTTATGCTGAGCCTACCATGTATGGGGAGATCCTGTCCCCTAACTATCCTCAGGCATATCC
CAGTGAGGTAGAGAAATCTTGGGACATAGAAGTTCTGAAGGGTATGGGATTACCTCTACTTCACCCATCTGGA
CATTGAGCTGTCTAGAGAACTGTGCGTATGACTCAGTGCAGATAATCTCAGGAGACACTGAAGAAGGGAGGCTCTG
TGGACAGAGGAGCAGTAACAATCCCCACTCTCCAATTGTGGAAGAGTTCCAAGTCCCATACAACAAACTCCAGGT
GATCTTTAAGTCAGACTTTTCCAATGAAGAGCGTTTTACGGGGTTTTGCTGCATACTATGTTGCCACAGACATAAA
TGAATGCACAGATTTTGTAGATGTCCCTTGAGCCACTTCTGCAACAATTTTATTGGTGGTTACTTCTGCTCCTG
CCCCCGGAATATTTCTCCATGATGACATGAAGAATTGCGGAGTTAATTGCAGTGGGGATGTATTCACTGCACT
GATTGGGGAGATTGCAAGTCCCAATTATCCCAAACCATATCCAGAGAACTCAAGGTGTGAATACCAGATCCGGTT
GGAGAAAGGGTTCCAAGTGGTGGTGACCTTGCGGAGAGAAGATTTTGTATGTGGAAGCAGCTGACTCAGCGGGAAA
CTGCCTTGACAGTTTAGTTTTTGTGTCAGGAGATCGGCAATTTGGTCCTTACTGTGGTCATGGATTCCCTGGGCC
TCTAAATATTGAAACCAAGAGTAATGCTCTTGATATCATCTTCCAACTGATCTAACAGGGCAAAAAAAGGGCTG
GAACTTCGCTATCATGGAGATCCAATGCCCTGCCCTAAGGAAGACACTCCCAATTCTGTTTGGGAGCCTGCGAA
GGCAAAATATGTCTTTAGAGATGTGGTGCAGATAACCTGTCTGGATGGGTTTGAAGTTGTGGAGGGACGTGTTGG
TGCAACATCTTTCTATTGACTTGTCAAAGCAATGGAAAGTGGAGTAATTCCAACTGAAATGTCAACCTGTGGA
CTGTGGCATTCTGAATCCATTGAGAATGGTAAAGTTGAAGACCCAGAGAGCACTTTGTTTGGTTCTGTCTATCCG
CTACACTTGTGAGGAGCCATATTACTACATGGAAAAATGGAGGAGGTGGGGAGTATCACTGTGCTGGTAACGGGAG
CTGGGTGAATGAGGTGCTGGGCCCCGAGCTGCCGAAATGTGTTCCAGTCTGTGGAGTCCCCAGAGAACCCTTTGA
AGAAAAACAGAGGATAATTGGAGGATCCGATGCAGATATTAAAACTTCCCCTGGCAAGTCTTCTTTGACAACCC
ATGGGCTGGTGGAGCGCTCATTAATGAGTACTGGGTGCTGACGGCTGCTCATGTTGTGGAGGGAAACAGGGAGCC
AACAATGTATGTTGGGTCCACCTCAGTGCAGACCTCACGGCTGGCAAAATCCAAGATGCTCACTCCTGAGCATGT
GTTTATTTCATCCGGGATGGAAGCTGCTGGAAGTCCCAGAAGGACGAACCAATTTTGATAATGACATTGCACTGGT
GCGGCTGAAAGACCCAGTGAAATGGGACCCACCGTCTCTCCCATCTGCCTACCAGGCACCTCTTCCGACTACAA
CCTCATGGATGGGGACCTGGGACTGATCTCAGGCTGGGGCCGAACAGAGAAGAGAGATCGTGCTGTTTCGCCTCAA
GGCGGCAAGGTTACCTGTAGCTCCTTTAAGAAAATGCAAAGAAGTGAAAGTGGAGAAACCCACAGCAGATGCAGA
GGCCTATGTTTTCACTCCTAACATGATCTGTGCTGGAGGAGAGAAGGGCATGGATAGCTGTAAAGGGGACAGTGG
TGGGGCCTTTGCTGTACAGGATCCCAATGACAAGACCAAATTTACGCAGCTGGCCTGGTGTCTTGGGGGCCCA
GTGTGGGACCTATGGGCTCTACACACGGGTAAAGAACTATGTTGACTGGATAATGAAGACTATGCAGGAAAAATAG
CACCCCCCGTGAGGACTAATCCAGATACATCCCACCAGCCTCTCCAAGGGTGGTGACCAATGCATTACCTTCTGT
TCCTTATGATATTCTCATTATTTTCATCATGACTGAAAGAAGACACGAGCGAATGATTTAAATAGAACTTGATTGT
TGAGACGCCTTGCTAGAGGTAGAGTTTGATCATAGAATTGTGCTGGTCATACATTTGTGGTCTGACTCCTTGGGG
TCCTTTCCCCGAGTACCTATTGTAGATAACACTATGGGTGGGGCACTCCTTTCTTGCACTATTCCACAGGGATA
CCTTAATCTTTGTTTCTTTACCTGTTCAAAATTCATTTACTTGATCATTCTCAGTATCCACTGTCTATGT
ACAATAAAGGATGTTTATAAGC

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FIGURE 3453

MWCIVLFSLLAWVYAEPMTYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLYFTHLDIELSENCAYSVQIISG
DTEEGRLCGQRSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERFTGFAAYYVATDINECTDFVDVPCSHFCNNF
IGGYFCSCPPEYFLHDDMKNCGVNCSGDVFTALIGEIASPNYPKPYPENSRCYQIRLEKGFQVVVTLRREDFDV
EAADSAGNCLDSL VFVAGDRQFGPYCGHGFPGLNIETKSNALDIIFQTDLTGQKKGWKLRYHGDPMPCKEDTP
NSVWEPAAKAYVFRDVVQITCLDGFVVEGRVGATSFYSTCQSNKGWSNSKLKCPVDCGIPESIENGKVEDPES
TLFGSVIRYTCEEPYYYMENGSGGEYHCAGNGSWVNEVLGPELPKCVPCGVPREPFEKQRIIGGSDADIKNFP
WQVFFDNPWAGGALINEYWVLTAHVVEGNREPTMYVGSTSVQTSRLAKSKMLTPEHVFIHPGWKLLEVPEGRTN
FDNDIALVRLKDPVKMGPTVSPICLPGTSSDYNLMDGDLGLISGWGRTEKRDRVRLKAARLPVAPLRKCKEVKV
EKPTADAEAYVFTPNMCAGGEKGMDSCKGDSGGAFVQDPNDKTKFYAAGLVSWGFPQCGTYGLYTRVKNYVDWI
MKTMQENSTPRED

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FIGURE 3454

CTCCTGAGCATGTGTTTATTCATCCGGGATGGAAGCTGCTGGAAGTCCCAGAAGGACGAACCAATTTTGATAATG
ACATTGCACTGGTGCGGCTGAAAGACCCAGTGAAAATGGGACCCACCGTCTCTCCCATCTGCCTACCAGGCACCT
CTTCCGACTACAACCTCATGGATGGGGACCTGGGACTGATCTCAGGCTGGGGCCGAACAGAGAAGAGAGATCGTG
CTGTTGCGCTCAAGGCGGCAAGGTTACCTGTAGCTCCTTTAAGTTTCACCTCCTAACATGATCTGTGCTGGAGGAG
AGAAGGGCATGGATAGCTGTAAAGGGGACAGTGGTGGGGCCTTTGCTGTACAGGATCCCAATGACAAGACCAAAT
TCTACGCAGCTGGCCTGGTGTCTGGGGGCCCCAGTGTGGGACCTATGGGCTCTACACACGGGTAAAGAACTATG
TTGACTGGATAATGAAGACTATGCAGGAAAATAGCACCCCCCGTGAGGACTAATCCAGATACATCCCACCAGCCT
CTCCAAGGGTGGTGACCAATGCATTACCTTCTGTTCTTATGATATTCTCATTATTTTCATCATGACTGAAAGAAG
ACACGAGCGAATGATTTAAATAGAACTTGATTGTTGAGACGCCTTG

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FIGURE 3455

GCAGTACCTAAGCCGGAGCGGGGTAGAGGCGGGCCGGCACCCCTTCTGACCTCCAGTGCCGCCGGCCTCAAGAT
CAGAC**ATG**GGCCAGAACTTGAAGGACTTGGCGGGACGGCTGCCCGCCGGGCCCCGGGGCATGGGCACGGCCCTGA
AGCTGTTGCTGGGGGCCGGCGCCGTGGCCTACGGTGTGCGCGAATCTGTGTTACCGTGGAAGCGGGCACAGAG
CCATCTTCTTCAATCGGATCGGTGGAGTGCAGCAGGACACTATCCTGGCCGAGGGCCTTCACTTCAGGATCCCTT
GGTTCCAGTACCCATTATCTATGACATTGGGCCAGACCTCGAAAAATCTCCTCCCCCTACAGGCTCCAAAGACC
TACAGATGGTGAATATCTCCCTGCGAGTGTTGTCTCGACCCAATGCTCAGGAGCTTCCTAGCATGTACCAGCGCC
TAGGGCTGGACTACGAGGAACGAGTGTTGCCGTCCATTGTCAACGAGGTGCTCAAGAGTGTGGTGGCCAAGTTCA
ATGCCTCACAGCTGATCACCCAGCGGGCCCAGGTATCCCTGTTGATCCGCCGGGAGCTGACAGAGAGGGCCAAGG
ACTTCAGCCTCATCCTGGATGATGTGGCCATCACAGAGCTGAGCTTTAGCCGAGAGTACACAGCTGCTGTAGAAG
CCAAACAAGTGGCCCAGCAGGAGGCCAGCGGGCCCAATTCTTGGTAGAAAAAGCAAAGCAGGAACAGCGGCAGA
AAATTGTGCAGGCCGAGGGTGAGGCCGAGGCTGCCAAGATGCTTGGAGAAGCACTGAGCAAGAACCCTGGCTACA
TCAAACCTCGCAAGATTCGAGCAGCCCAGAATATCTCCAAGACGATCGCCACATCACAGAATCGTATCTATCTCA
CAGCTGACAACCTTGTGCTGAACCTACAGGATGAAAGTTTCACCAGGGGAAGTGACAGCCTCATCAAGGGTAAGA
AA**TGA**GCCTAGTCACCAAGAACTCCACCCCCAGAGGAAGTGGATCTGCTTCTCCAGTTTTTGAGGAGCCAGCCAG
GGGTCCAGCACAGCCCTACCCCGCCCCAGTATCATGCGATGGTCCCCCACACCGGTTCCCTGAACCCCTCTTGGA
TTAAGGAAGACTGAAGACTAGCCCTTTTCTGGGGAATTACTTTCTCCTCCTCCCTGTGTTAACTGGGGCTGTTGGG
GACAGTGCGTGATTTCTCAGTGATTTCTTACAGTGTTGTTCCCTCCCTCAAGGCTGGGAGGAGATAAACACCAAC
CCAGGAATTCTCAATAAATTTTTATTACTTAACCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3456

MAQNLKDLA₁GR₂LPAGPRGMGTALK₃LL₄LGAGAVAYGVRESVFTVEGGHRAIFFNRIGGVQQDTILA₅EGLHFRIPWF
QYPIIYDIRARPRKISSPTGSKDLQMVNISLRVLSRPNAQELPSMYQRLGLDYEERVLP₆SIVNEVLKSVVAKFNA
SQLITQRAQVSL₇LIRRE₈TERAKDFSLILDDVAITELSF₉SREYTA₁₀AVEAKQVAQQEAQRAQFLVEKAKQEQRQKI
VQAEGEAEAAKMLGEALSKNPGYIKLRKIRAAQNISKTIATSQNRIYLTADNLVLNLQDESFTRGSDSLIKGKK

ACGCCATACTGGACGCCAAGTTGGGAGGAACTTCAAGGCTGTCCCCTGCGGGCCTCCCGCTCTGCTTCTGCGAAGG
TTTCATTGAAAACAGATCCTGCAAAAGTTCCAGGTGCCACACTGGAACTTGGAGATCCTGCTTCCCAGACCAC
AGCTGTGGGGAACTTGGGGTGGAGCAGAGAAGTTTCTGTATTTCAGCTGCCCAGGCAGAGGAGAATGGGGTCTCCA
CAGCCTGAAGAATGAAGACACGACAGAATAAAGACTCGATGTCAATGAGGAGTGGACGGAAGAAAGAGGCCCTG
GGCCCCGGAAGAAGTGGAGTCGAGGGGGCCGGGCTCCCCGTGGAGGGGTGACGACGTCCAGCAGTGATGGCAAAG
CTGAGAAGTCCAGGCAGACAGCCAAGAAGGCCCCGAGTAGAGGAAGCCTCCACCCCAAAGGTCAACAAGCAGGGTCT
GGAGTGAGGAGATCTCAGAGAGTGAAAAGTGGAGAGACCAATGCACCAAAAAAGACCAAACTGAGCAGGAAGTCC
CTCGGCCACAGTCTCCCTCCGATCTGGATAGCTTGGACGGGGCGGAGCCTTAATGATGATGGCAGCAGCGACCCTA
GGGATATCGACCAGGACAACCGAAGCAGCTCCCCCAGTATCTACAGCCCTGGAAGTGTGGAGAATGACTCTGACT
CATCTTCTGGCCTGTCCCAGGGCCCCAGCCCCGCCCTACCACCCACCTCCACTCTTTCTCCTTCCCCTCAACCGC
CAGACAGCACCCCTCGACAGCCAGAGGCTAGCTTTGAACCCCATCCTTCTGTGACACCCACTGGATATCATGCTC
CCATGGAGCCCCCACATCTCGAATGTTCCAGGCTCCTCCTGGGGCCCCCTCCCCCTACCCACAGCTCTATCCTG
GGGGCACTGGTGGAGTTTTGTCTGGACCCCCAATGGGTCCCAAGGGGGGAGGGGTGCCTCATCAGTGGGGGGCC
CTAATGGGGGTAAGCAGCACCCCCCACCCACTACTCCATTTCAGTATCAAGCTCTGGGGCTAGTGGTGCTCCCC
CAACAAAGCCGCTTACCCTCCAGTGGGTGGTGGAACCTACCTTCTGCTCCACCACCAGCCAAGTCCCCCATG
TGACACCGAAGCTGCCTCCCCACCTGCCCTGAGACCCCTCAACAATGCATCAGCCTCTCCCCCTGGCCTGGGGG
CCCAACCACTACCTGGTTCATCTGCCCTCTCCCCACGCCATGGGACAGGGTATGGGTGGACTTCTCCTGGCCAG
AGAAGGGCCCAACTCTGGCTCCTTACCCCACTCTCTGCCTCCTGCTTCTCCTTCTGCTCCAGCGCCCCCATGA
GGTTTTCTTATTATCTCTAGTAGTAGCTCTGCAGCAGCCTCCTCTTCCAGTTCTTCTCCTCTTCTCTGCCT
CCCCCTTCCCAGCTTCCCAGGCATTGCCCAGCTACCCCACTCTTTCCCTCCCCCAACAAGCCTCTCTGTCTCCA
ATCAGCCCCCAAGTATACTCAGCCTTCTCTCCCATCCCAGGCTGTGTGGAGCCAGGGTCCCCCACCACCTCCTC
CCTATGGCCGCCTCTTAGCCAACAGCAATGCCCATCCAGGCCCTTCCCTCCCTCTACTGGGGCCCAGTCCACCG
CCCACCCACCAGTCTCAACACATCACCATCACCACCAGCAACAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGC
AGCAGCAGCAGCAGCAGCATCACGGAAGTCTGGGCCCCCTCCTCCTGGAGCATTCCCCACCCACTGGAGGGCG
GTAGCTCCCACCACGCACACCCTTACGCCATGTCTCCCTCCCTGGGGTCTCTGAGGCCCTACCCACCAGGGCCAG
CACACCTGCCCCCACCTCACAGCCAGGTGTCTACAGCCAAGCAGGCCCCAATGGCCCTCCAGTCTCTTCTCCTCTT
CCAACTCTTCTCTTCCACTTCTCAAGGGTCTTACCCATGTTTACACCCCTCCCCTTCCCAGGGCCCTCAAGGGG
CGCCCTACCCCTTCCCACCGGTGCCTACGGTCAACACCTCTTCGGCTACCCCTTCCACGGTCAATTGCCACCGTGG
CTTCTCGCCAGCAGGCTACAAAACGGCCTCCCCACCTGGGGCCCCACCCTACGGAAAGAGAGCCCCGTCCCCGG
GGGCCTACAAGACAGCCACCCACCCGGATACAAACCCGGGTGCCTCCCTCCTTCCGAACGGGGACCCACCCGG
GCTATCGAGGAACCTCGCCACCTGCAGGCCAGGGACCTTCAAGCCGGGGCTCGCCCACCCTGGGACCTGGGCCCC
TGCCACCTGCGGGGCCCTCAGGCCTGCCATCGCTGCCACCACCACCTGCGGGCCCTGCCTCAGGGCCGCCCTGA
GCGCCACGCAGATCAAACAGGAGCCGGCTGAGGAGTATGAGACCCCCGAGAGCCCGGTGCCCCCAGCCCGCAGCC
CCTCGCCCCCTCCCAAGGTGGTAGATGTACCCAGCCATGCCAGTCAGTCTGCCAGGTTCAACAAACACCTGGATC
GCGGCTTCAACTCGTGC GCGCGCAGCGACCTGTACTTCGTGCCACTGGAGGGCTCCAAGCTGGCCAAGAAGCGGG
CCGACCTGGTGGAGAAGGTGCGGCGGAGGCCGAGCAGCGCGCGCGGAAGAAAGGAGCGCGAGCGCGAGCGGG
AACGCGAGAAAGAGCGCGAGCGCGAGAAGGAGCGCGAGCTTGAACGCAGCGTGAAGTTGGCTCAGGAGGGCCGTG
CTCCGGTGGAATGCCCATCTCTGGGCCCAGTGCCCCATCGCCCTCCATTGAAACCGGCAGTGCGGTGGCTACAG
TGCCCCCCTACCTGGGTCTGACACTCCAGCCTTGCGCACTCTCAGTGAATATGCCCGGCCCTCATGTCATGTCTC
CTGGCAATCGCAACCATCCATTCTACGTGCCCTGGGGGCAGTGGACCCGGGGCTCCTGGGTTACAATGTCCCGG
CCCTGTACAGCAGTGATCCAGCTGCCGGGAGAGGGAACGGGAAGCCCGTGAACGAGACCTCCGTGACCGCCTCA
AGCCTGGCTTTGAGGTGAAGCCTAGTGAGCTGGAACCCCTACATGGGGTCCCTGGGCCGGGCTTGGATCCCTTTC
CCCGACATGGGGGCCCTGGCTCTGCAGCCTGGCCACCTGGCCTGCACCCTTTCCCCTTTTCATCCGAGCCTGGGGC
CCCTGGAGCGAGAACGTCTAGCGCTGGCAGCTGGGCCAGCCCTGCGGCCCTGACATGTCTATGCTGAGCGGCTGG
CAGCTGAGAGGCAGCACGCAGAAAGGTGGCGGCCCTGGGCAATGACCCACTGGCCCGGCTGCAGATGCTCAATG
TGACTCCCCATCACCACCAGCACTCCACATCCACTCGCACCTGCACCTGCACCAGCAAGATGCTATCCATGCAG
CCTCTGCCTCGGTGCACCTCTCATTGACCCCTGGCCTCAGGGTCTCACCTTACCCGGATCCCCTACCCAGCTG
GAACTCTCCCTAACCCCCCTGCTTCTCACCCTCTGCACGAGAACGAAGTTCTTCGTACACCAGCTCTTTGCTGCC

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FIGURE 3457B

CTTACCGGGACCTGCCGGCCTCCCTTTCTGCCCCGATGTCAGCAGCTCATCAGCTGCAGGCCATGCACGCACAGT
CAGCTGAGCTGCAGCGCTTGGCGCTGGAACAGCAGCAGTGGCTGCATGCCCATCACCCGCTGCACAGTGTGCCGC
TGCTTGCCAGGAGGACTACTACAGTCACCTGAAGAAGGAAAGCGACAAGCCACTGTAGAACCTGCGATCAAGAG
AGCACCATGGCTCCTACATTGGACCTTGGAGCACCCCCACCCTCCCCCACCCTGCCCCTTGGCCTGCCACCCAGA
GCCAAGAGGGTGCTGCTCAGTTGCAGGGCCTCCGCAGCTGGACAGAGAGTGGGGGAGGGAGGGACAGACAGAAGG
CCAAGGCCCCGATGTGGTGTGCAGAGGTGGGGAGGTGGCGAGGATGGGGACAGAAAGCGCACAGAATCTTGGACCA
GGTCTCTCTTCCTTGTCCCCCCTGCTTTTCTCCTCCCCATGCCCAACCCCTGTGGCCGCCGCCCTCCCCCTGCC
CCGTTGGTGTGATTATTTATCTGTTAGATGTGGCTGTTTTGCGTAGCATCGTGTGCCACCCCTGCCCTCCCCG
ATCCCTGTGTGCGCGCCCCCTCTGCAATGTATGCCCTTGGCCCTTCCCCACACTAATAATTTATATATATAAAT
ATCTATATGACGCTCTTAAAAAACATCCCAACCAAAACCAACCAAAACAAAAACATCCTCACAACCTCCCCAGGA

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FIGURE 3458

ACCCGCGCTCGTACGTGCGCCTCCGCCGGCAGCTCCTGACTCATCGGGGGCTCCGGGTACATGCGCCCCGCGCGG
CCCTATAGGCGCCTCCTCCGCCCGCCGCCGGGAGCCGCAGCCGCCGCCACTGCCACTCCCGCTCTCTCAGC
GCCGCCGTGCCACCGCCACCGCCACCGCCACTACCACCGTCTGAGTCTGCAGTCCCGAGATCCCAGCCATCATG

TCCATAGAGAAGATCTGGGCCCCGGGAGATCCTGGACTCCCGCGGGAACCCACAGTGGAGGTGGATCTCTATACT
GCCAAAGGTCTTTTCCGGGCTGCAGTGCCAGTGGAGCCTCTACGGGCATCTATGAGGCCCTGGAGCTGAGGGAT
GGAGACAAACAGCGTTACTTAGGCAAAGGTGTCCTGAAGGCAGTGGACCACATCAACTCCACCATCGCGCCAGCC
CTCATCAGCTCAGGTCTCTCTGTGGTGGAGCAAGAGAACTGGACAACCTGATGCTGGAGTTGGATGGGACTGAG
AACAAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTCTCTGGCCGTGTGTAAGGCAGGGGCAGCTGAGCGG
GAACTGCCCCCTGTATCGCCACATTGCTCAGCTGGCCGGGAACCTCAGACCTCATCCTGCCTGTGCCGCCCTTCAAC
GTGATCAATGGTGGCTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCCAGTGGGAGCTGAG
AGCTTTCGGGATGCCATGCGACTAGGTGCAGAGGTCTACCATACTCAAGGGAGTCATCAAGGACAAATACGGC
AAGGATGCCACCAATGTGGGGGATGAAGGTGGCTTTGCCCCCAATATCCTGGAGAACAGTGAAGCCTTGGAGCTG
GTGAAGGAAGCCATCGACAAGGCTGGCTACACGGAAAAGATCGTTATTGGCATGGATGTTGCTGCCTCAGAGTTT
TATCGTGATGGCAAATATGACTTGGACTTCAAGTCTCCCACTGATCCTTCCCGATACATCACTGGGGACCAGCTG
GGGGCACTCTACCAGGACTTTGTGAGGACTATCCTGTGGTCTCCATTGAGGACCCATTTGACCAGGATGATTGG
GCTGCCTGGTCCAAGTTCACAGCCAATGTAGGGATCCAGATTGTGGGTGATGACCTGACAGTGACCAACCCAAAA
CGTATTGAGCGGGCAGTGAAGAAAAGGCCTGCAACTGTCTGCTGCTCAAGGTCAACCAGATCGGCTCGGTCACT
GAAGCCATCCAAGCGTGCAAGCTGGCCCAGGAGAATGGCTGGGGGGTTCATGGTGAGTCATCGCTCAGGAGAGACT
GAGGACACATTCAATTGCTGACCTGGTGGTGGGGCTGTGCACAGGCCAGATCAAGACTGGTGCCCCGTGCCGTTCT
GAACGTCTGGCTAAATACAACCAGCTCATGAGAATTGAGGAAGAGCTGGGGGATGAAGCTCGCTTTGCCGGACAT
AACTTCCGTAATCCCAGTGTGCTGTGATTCCTCTGCTTGCCTGGAGACGTGGAACCTCTGTCTCATCCTCCTGGA
ACCTTGCTGTCCTGATCTGTGATAGTTACCCCCCTGAGATCCCCTGAGCCCCAGGGTGCCCAAGAACTTCCCTGAT
TGACCTGCTCCGCTGCTCCTTGGCTTACCTGACCTCTTGCTGTCTCTGCTCGCCCTCCTTTCTGTGCCCTACTCA
TTGGGGTTCCGCACCTTTCCACTTCTTCCCTTTCTCTTTCTCTCTTCCCTCAGAACTAGAAATGTGAATGAGGATT
ATTATAAAAGGGGGTCCGTGGAAGAATGATCAGCATCTGTGATGGGAGCGTCAGGGTTGGTGTGCTGAGGTGTTA
GAGAGGGACCATGTGTCACTTGTGCTTTGCTCTTGTCCACGTGTCTTCCACTTTGCATATGAGCCGTGAAGTGT
GCATAGTGCTGGGATGGAGGGGAGTGTGGGCATGTGATCAGCCTGGCTAATAAGGCTTTAGTGTATTTATTTA
TTTATTTATTTTATTTGTTTTTCATTCATCCCATTAATCATTTCCCCATAACTCAATGGCCTAAACTGGCCTGA
CTTGGGGGAACGATGTGTCTGTATTTATGTGGCTGTAGATCCCAAGATGACTGGGGTGGGAGGTCTTGCTAGAA
TGGGAAGGGTCATAGAAAGGGCCTTGACATCAGTTCCTTTGTGTGTACTCACTGAAGCCTGCGTTGGTCCAGAGC
GGAGGCTGTGTGCCTGGGGGAGTTTTCTCTATACATCTCTCCCCAACCTAGGTTCCCTGTTCTTCTCCAGCT
GCACCAGAGCAACCTCTCACTCCCCATGCCACGTTCACAGTTGCCACCACCTCTGTGGCATTGAAATGAGCACC
TCCATTAAAGTCTGAATCAGTGC

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FIGURE 3459

MSIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALERDGDQRYLGKGVLKAVDHINSTIAP
ALISSGLSVVEQEKLNLMLDGTENKSKFGANAILGVSLAVCKAGAAERELPLYRHIAQLAGNSDLILPVPAF
NVINGGSHAGNKLAMQEFMILPVGAESFRDAMRLGAENVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALE
LVKEAIDKAGYTEKIVIGMDVAASEFYRDGKYDLDFKSETPDSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDD
WAAWSKFTANVGIQIVGDDLTVTNPKRIERAVEREAKACNCLLLKVNQIGSVTEAIQACKLAQENGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGDEARFAGHNFRNPSVL

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FIGURE 3460

GGCACGAGGGAGAACTAGTCTCAGTTTTTTTTTTTTTTTTTTAGGTGAGAAAGCCAGCTGACTTTATTGCTCTG
GGGGCAGGGGGCTCAGGAGCTCTTGGTGGGGCGGGTCCGCTTCCTCTTCACCATCACAGGCTTCTGGCTGCGCAG
GATGGCGCTGGCCCTGCGGATGGCTGCCATGCGCAGGTCGGGGCGGTACTTGTTCTTGCGGATCATGTGTCTGAT
GCTGCTGAGCGTGGCGCGAGCATTCTTGTTGATGGTGGTCCGCACATAGGAGGTGGCAGGCTTCCGCTGGCCGGA
TCTCCGCTTAATGACCACCACGACACCTTTGCCGTGGCTGCCGGCTCCACGCCCACAGTCTTGCGGTGAATCAG
TCCGTTGTAGCGGAAGGAATTGCGGGCCTTCAAGTTATTGGGCTCAGTGCTGTAGGTCTGCTTATTCCTCTTGAT
CAGGAACTGGAGCAGTTCCGCACGACCATCCATTGCAGATGCGCAGACATGGCGGGCGGCTCCCTTCGCAGCGGC
GACCTGACCTTCAGCGCCTCGGCTCCAGCGCCATCGCGCCCTCCAGGAAGTTCTTCGTTGGGGGAACTGGAAGA
TGAACGGGCGGAAGCAGAGTCTGGGGGAGCTCATCGGCACTCTGAACGCGGCCAAGGTGCCGGCCGACACCGAGG
TGGTTTGTGCTCCCCCTACTGCCTATATCGACTTCGCCCAGCAGAAAGCTAGATCCCAAGATTGCTGTGGCTGCGC
AGAACTGCTACAAAGTGACTAATGGGGCTTTTACTGGGGAGATCAGCCCTGGCATGATCAAAGACTGCGGAGCCA
CGTGGGTGGTCCCTGGGGCACTCAGAGAGAAGGCATGTCTTTGGGGAGTCAGATGAGCTGATTGGGCAGAAAGTGG
CCCATGCTCTGGCAGAGGGACTCGGAGTAATCGCCTGCATTGGGGAGAAGCTAGATGAAAGGGAAGCTGGCATCA
CTGAGAAGGTTGTTTTCGAGCAGACAAAGGTCATCGCAGATAACGTGAAGGACTGGAGCAAGGTCGTCCTGGCCT
ATGAGCCTGTGTGGGCCATTGGTACTGGCAAGACTGCAACACCCCCAACAGGCCCAGGAAGTACACGAGAAGCTCC
GAGGATGGCTGAAGTCCAACGTCTCTGATGCGGTGGCTCAGAGCACCCGTATCATTTATGGAGGCTCTGTGACTG
GGGCAACCTGCAAGGAGCTGGCCAGCCAGCCTGATGTGGATGGCTTCCTTGTGGGTGGTGCTTCCCTCAAGCCCG
AATTCGTGGACATCATCAATGCCAAACAATGAGCCCCATCCATCTTCCCTACCCTTCCTGCCAAGCCAGGGACTA
AGCAGCCCAGAAAGCCAGTAAGTCCCTTTCCCTGCATATGCTTCTGATGGTGTCTCTGCTCCTTCCTGTGGCC
TCATCCAAACTGTATCTTCCCTTTACTGTTTATATCTTCACCCGTGAATGGTTGGGACCAGGCCAATCCCTTCTCC
ACTTACTATAATGGTTGGAATAAACGTCACCAAGGTGGCTTCTCCTTGGCTGAGAGATGGAAGGCGTGCTGGGA
TTTGCTCCTGGGTTCCTTAGGCCCTAGTGAGGGCAGAAGAGAAACCATCCTCTCCCTTCTTACACCGTGAGGCCA
AGATCCCCCTCAGAAGGCAGGAGTGCTGCCCTCTCCCATGGTGCCCGTGCTCTGTGCTGTGTATGTGAACCAACC
ATGTGAGGGAATAAACCTGGCACTAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3461

MAPSRKFFVGGNWKMNGRKQSLGELIGTLNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAF
TGEISPGMIKDCGATWVVLGHSERRHVFGESEDELIGQKVAHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKV
IADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGATCKELASQP
DVDGFLVGGASLKPEFVDIINAKQ

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FIGURE 3462

GGAGAAGCTGCTGCCGGTGTTCATGGCGGAGCTGAGTGAGGAGGCGCTGCTGTCTCAGTATTACCGACGATCCGGGTC
CCTAAGGCTGGAGACCGGGTCCACAAAAGACGAGTGCGCCTTCTCCTTCGACACGCCGGAGTCTGAGGGGGGGCCTC
TACATCTGTATGAACACGTTTCTGGGCTTTGGGAAACAGTATGTGGAGAGACATTTCAATAAGACCGGCCAGCGA
GTCTACTTGCACCTCCGGCGGACCCGGCGCCCGAAAGAGGAGGACCCTGCTACAGGCACTGGAGACCCACCCCGG
AAGAAGCCCACGCGGCTGGCTATTGGTGTGAAGGCGGATTTGACCTTAGCGAGGAGAAGTTTGAATTAGACGAG
GATGTGAAGATTGTCAATTTGCCAGATTACCTGGAGATTGCCCGGATGGACTGGGGGACTGCCTGACATTGTC
AGAGATCGGGTGACCAAGTGCAGTGGAGGCCCTACTGTGCGCCGACTCAGCCTCCCGCAAGCAGGAGGTGCAGGCA
TGGGATGGGGAAGTACGGCAGGTGTCTAAGCATGCCTTCAGCCTCAAGCAGTTGGACAACCTGCTCGAATCCCT
CCCTGTGGCTGGAAGTGCTCCAAGTGTGACATGAGAGAGAACCTGTGGCTCAACCTGACTGATGGCTCCATCCTC
TGTGGGCGACGCTACTTCGATGGCAGTGGGGGCAACAACCACGCTGTGGAGCACTACCGAGAGACAGGCTACCCG
TTAGCTGTCAAGCTGGGCACCATCACCCCTGATGGAGCTGACGTGTACTCATATGATGAGGATGACATGGTCTCTG
GACCCAGCCTGGCTGAGCACCTGTCCCACTTCGGCATCGACATGCTGAAGATGCAGAAGACAGACAAGACGATG
ACTGAGTTGGAGATAGACATGAACCAGCGGATTGGTGAATGGGAGCTGATCCAGGAGTCAGGTGTGCCACTCAAG
CCCCTGTTTGGGCTGGCTACACAGGCATCCGGAACCTGGGTAACAGCTGCTACCTCAACTCTGTGGTCCAGGTG
CTCTTCAGCATCCCTGACTTCAGAGGAAGTATGTGGATAAGCTGGAGAAGATCTTCCAGAATGCCCCGACGGAC
CCTACCCAGGATTTACAGACCCAGGTGGCCAAGCTGGGCCATGGCCTTCTCTCCGGGGAGTATTCCAAGCCAGTA
CCGGAGTCGGGCGATGGGGAGCGGGTGCCAGAACAGAAGGAAGTTCAAGATGGCATTGCCCTCGGATGTTCAAG
GCCCTCATCGGCAAGGGCCACCCTGAATTCTCCACCAACCGGCAGCAGGATGCCCAGGAGTTCTTCCTTACCTT
ATCAACATGGTGGAGAGGAATTGCCGGAGCTCTGAAAATCCTAATGAAGTGTTCGCTTCTTGGTGGAGGAAAAG
ATCAAGTGCCTGGCCACAGAGAAGGTGAAGTACACCCAGCGAGTTGACTACATCATGCAGCTGCCTGTGCCCATG
GATGCAGCCCTTAACAAAGAGGAGCTTCTGGAGTACGAGGAGAAGAAGCGCAAGCCGAAGAGGAGAAGATGGCA
CTGCCAGAACTGGTTTCGGGCCCAGGTGCCCTTCAGCTCTTGCTGGAGGCCTACGGGGCCCCTGAGCAGGTGAT
GACTTCTGGAGCACGGCCCTGCAGGCCAAGTCAGTAGCTGTCAAGACCACACGATTTGCCTCATTCCTGACTAC
CTGGTCATCCAGATCAAGAAGTTACCTTCGGCTTAGACTGGGTGCCCAAGAACTGGATGTGTCCATCGAGATG
CCAGAGGAGCTCGACATCTCCAGTTGAGGGGACAGGGCTGCAGCCGGAGAGGAGGAGCTGCCAGACATTGCC
CCACCCCTGGTCACTCCGGATGAGCCCCAAGCGCCCATGCTGGATGAATCAGTCATCATCCAGCTGGTGGAGATG
GGATTCCCTATGGACGCCTGCCGCAAAGCTGTCTACTACACGGGCAACAGCGGGCTGAGGCCGCCATGAACTGG
GTCATGTCACACATGGATGATCCAGATTTTGCAAACCCCTCATCTGCCTGGCTCTAGTGGGCCGGGCTCCACA
AGCGCAGCAGCCGACCCCCCTCCTGAGGACTGTGTGACCACCATTTGTCTCCATGGGCTTCTCCCGGGACCAGGCC
TTGAAAGCGCTGCGGGCCACGAACAATAGTTTGAACGGGCTGTGGACTGGATCTTCAGTCACATTGACGACCTG
GATGCTGAAGCTGCCATGGACATCTCAGAGGGCCGCTCAGCTGCCGACTCCATCTCTGAGTCTGTGCCAGTGGGA
CCTAAAGTCCGGGATGGTCTTGAAAGTATCAGCTCTTTCCTTCATTAGTCACATGGGCACCTCTACCATGTGT
GGTCACTACGCTCTGCCACATCAAGAAAGAAGGCAGATGGGTGATCTACAATGACCAGAAAGTGTGTGCCCTCCGAG
AAGCCGCCCAAGGACCTGGGCTACATCTACTTCTACCAGAGAGTGGCCAGCTAAGAGCCTGCCTCACCCCTTACC
AATGAGGGCAGGGGAAGACCACCTGGCATGAGGGAGAGGGGCTGAGGGATGGACTTCAGCCCCCTCTGCTCTGTAC
CCTTTTTCTTTTGTCCCGGCAGCAGGGAAGAAGCTGGAGGCCGTGGGAGAATGGCTGGGCAGAGCAGAGGGGC
AGCGATAGACTCTGGGGATGGAGCAGGACGGGGACGGGAGGGGCCGGCCACCTGTCTGTAAGGAGACTTTGTTGC
TTCCCCTGCCCCCGGAATCCACAGTGCTCTGCTTCTCTGTGTCGCCCCGCCAGCCCCCTGGTGTGGAGGGAGGG
GTCTCGTTTGTGCGCGTGGGTGTAGCTTTGTGCATCCTCTCCAGTGGAGCGATCACCTGTGCCCTCCCCCTCCCCC
TTTGTTTGCCCTGTGTGGTTGGTCAAGGAGGGATGTGAGGGAAATAGGGACCCCCGACTTGCCCTCCTGCCTC
AGTCTTTCCCCCACCTGTCTCTTCTTGTCTTCTCTGGAATAATGCCAAATACACGATGTGAATAAAAGTACA
ACGGCT

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FIGURE 3463

CCACAATAGGGGCAGACCTGTCCATCCTTCTCTGTGGGTCCCCTGTACCTTTCTCCCCAACAGGATCAGACCCA
GAGGCAGCTGGTTGGGGTTTGTGCGAGAAGAAGGATTATCCAGATCAGTCCTTTCTAATCTCAGCTCCTGCCTGTA
CCCTCCCATACTCACCAAACCCTCTTCCCCACCACCCTGAGCTGAGGAGCACAGTTTGAGGCCCCCCCCAACCCCC
CGCCGGTCGGGGCCAGGCCAGGCCAGGCCAGCTCCTCTGGCAGCAGAGCCTGGGCAGGTGACGGGCGGGCGGGG
CGTCGCAGCTGAGGGAGTAAGGAGGCTCCCAGGAACCGGAGCTGGAAACCCGGCCGAGGTCCAGCCAGAGCCCAA
GAGCCAGAGTGACCCCTCGACCTGTCAGCC**ATG**GGGGGAGATGGAGCAACTGCGTCAGGAAGCGGAGCAGCTCAAG
AAGCAGATTGCAGATGCCAGGAAAGCCTGTGCTGACGTTACTCTGGCAGAGCTGGTGTCTGGCCTAGAGGTGGTG
GGACGAGTCCAGATGCGGACGCGGCGGACGTTAAGGGGACACCTGGCCAAGATTTACGCCATGCACTGGGCCACT
GATTCTAAGCTGCTGGTAAGTGCCTCGCAAGATGGGAAGCTGATCGTGTGGGACAGCTACACCACCAACAAGGTG
CACGCCATCCCCTGCGCTCCTCCTGGGTCATGACCTGTGCCTATGCCCCATCAGGGAACTTTGTGGCATGTGGG
GGGCTGGACAACATGTGTTCCATCTACAACCTCAAATCCCCTGAGGGCAATGTCAAGGTGAGCCGGGAGCTTTCT
GCTCACACAGGTTATCTCTCCTGCTGCCGCTTCCTGGATGACAACAATATTGTGACCAGCTCGGGGGACACCACG
TGTGCCTTGTGGGACATTGAGACTGGGCAGCAGAAGACTGTATTTGTGGGACACACGGGTGACTGCATGAGCCTG
GCTGTGTCTCCTGACTTCAATCTCTTCATTTTCGGGGGCTGTGATGCCAGTGCCAAGCTCTGGGATGTGCGAGAG
GGGACCTGCCGTCAGACTTTCACTGGCCACGAGTCGGACATCAACGCCATCTGTTTCTTCCCCAATGGAGAGGCC
ATCTGCACGGGCTCGGATGACGCTTCCTGCCGCTTGTTTGACCTGCGGGCAGACCAGGAGCTGATCTGCTTCTCC
CACGAGAGCATCATCTGCGGCATCACGTCCGTGGCCTTCTCCCTCAGTGGCCGCCTACTATTGCTGGCTACGAC
GACTTCAACTGCAATGTCTGGGACTCCATGAAGTCTGAGCGTGTGGGCATCCTCTCTGGCCACGATAACAGGGTG
AGCTGCCTGGGAGTCACAGCTGACGGGATGGCTGTGGCCACAGGTTCTGGGACAGCTTCCTCAAAATCTGGAAC
TGAGGAGGCTGGAGAAAGGGAAGTGGAAGGCAGTGAACACACTCAGCAGCCCCCTGCCCGACCCCATCTCATTCA
GGTGTTCTTCTATATTCCGGGTGCCATTCCCCTAAGCTTTCTCCTTTGAGGGCAGTGGGGAGCATGGGACTG
TGCCTTTGGGAGGCAGCATCAGGGACACAGGGGCAAAGAACTGCCCCATCTCCTCCCATGGCCTTCCCTCCCCAC
AGTCCTCACAGCCTCTCCCTTAATGAGCAAGGACAACCTGCCCCCTCCCAGCCCTTTGCAGGCCAGCAGACTTG
AGTCTGAGGCCCCAGGCCCTAGGATTCTCCCCCAGAGCCACTACCTTTGTCCAGGCCTGGGTGGTATAGGGCGT
TTGGCCCTGTGACTATGGCTCTGGCACCCTAGGGTCTGGCCCTCTTCTTATTTCATGCTTTCTCCTTTTCTAC
CTTTTTTTCTCTCCTAAGACACCTGCAATAAAGTGTAGCACCCCTGGTA

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FIGURE 3464

MGEMEQLRQEAQLKKQIADARKACADVTLAELVSGLEVVGQVQMRTRRTLRGHLAKIYAMHWATDSKLLVSASQ
DGKLIVWDSYTTNKVHAIPLRSSWVMTCAYAPSGNFVACGGGLDNMCSIYNLKSREGNVKSRELSAHTGYLSCCR
FLDDNNIVTSSGDTTCALWDIETGQQKTFFVVGHTGDCMSLAVSPDFNLFISGACDASAKLWDVREGTCRQTFTH
ESDINAICFFPNGEAICTGSDDASCRLFDLRADQELICFSHESIICGITSVAFSLSGRLLFAGYDDFNCNVWDSM
KSERVGILSGHDNRVSCLGVTADGMAVATGSWDSFLKIWN

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FIGURE 3465

TACGCCCACAGTGAAGCATGCCAAGGTGTACACCTGGACTATCTGCAGTCGGGGATACACATCCCAGGAAACATA
CCTTATGAAACATATGCGCAAACACAACCCGCCTGATCTTCAGCAACAGGTGCAGGCAGCAGCAGCAGCGGCAGC
AGTGGCCCAGGCCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCCAGGCCCAGGCCTC
CCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACCACACTTCCA
GTCTCCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCAACCCTCCACCCCAGTGTTCCCTTTGA
CCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTCAACCACCAGCACCATCCAGGTGGA
GCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTGGGAAGAGGAAGAAGTAGTCCTGGTGTCTTCTTTC
TCCAACCTCTTGGTGGGAAAAGTCCTTTTTCTTCCCTTGACAGGCCTTGGCTCCATCTCCTTGGGCCTCTGTACGGC
TTTCCTTCACAGGATACCATCCTTTTTCTGAACTCTTCTTCAAAGGAACATCAGCCCTCCTGATTGCAAAGGAA
TACTGAGCTGATGGTGTATCCAGCAGCCTCCCCCTCCCAAGCAAAGCTTCTAAAAGTGGGGGTGGGTGCTCAAGG
GAAGGATTTGCTATGACCTCATAGAACCTTGTCCAGTGTGGCCACTTACCCTATCCTTACCCTCCTTATCCTCAA
AGTTTGGGCTGATGTAAGACTAGAGGCTGGCCCTCCAGATAACAGAGAAAAGGGAGCCCCAAATGCAACCAGCC
TCTTGTCTATTTCTTGCCTGCAAAGAAGAGAGGTTTCTCAAATGCCTCAGTCCCTGAGAGCCATTTCTTCCCCT
ACATCGTCTCACTTTGCTTCTTATTGACTGCTGGTAGAAGGAGATTTGGGGTAGGGGCTAGACCTCCTTTTATTT
GAAGGGGGCAAGGGCTGAGATGTGGTCCCCAAGGGGCCAGAAATTCCCAAGTTGGTACAGGTGGCTTAGAAGTG
TGTGTTATGGTTTTACGGATTTCTTGAAGCCTCTCTCCTTCTCTGCCTACAAAGACCCTATACTCTCAGTCTCC
CCAACCCACCCCAAGGAGCTGTGGGAGGCTTTGTGTTATCTGTGAACTCCAAAACAGGGGTGTTGCGGAGAAG
GGAGAGTTCAAGGCAAACGCAAGGACTGGACTTAGCTCCCTAGGTGCCACAGTCAGATGCCGGACACGGATTTAT
ATATAAATATATATATATAAATATATTATACTCACTCATCACGGCCATCTTTGTTGTAACCATTTCTGTGTTTAT
AAATGCATTATCTCTGAGAATTTTCATATTTGATGTTTTGTTTATTTTTGTCCTTTTTTTCCCTCTCTCCACCCC
TGTCTCTAGCCACAGCATTTTTCTTTTTGTC

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FIGURE 3466

GCCGAGGGGGGCGTACGGAGGTGGCAGCTGTGGGAGGAGGCGGCGTGGAAGGCCGAGGAGCTCAAGCCCGGACCA
ATCCCCACGTTCCGGGCCGCGACCCTGACCCTGCAGCGTACCGGGAAGCGAAACCGGCCGGATGGGCCGCTGAGC
CCGAATCGGGCACTGTGTGGAGCCCCCTGGAGCTGAGATCAGGATGTTCCGCTTCATGAGGGACGTGGAGCCTGA
GGATCCCATGTTTCCTGATGGATCCCTTTTGCTATTACCGTCTAGCATATGAGCCGTATGTTGTGAGGTGGCTTTGG
ATATAGCCCCCTTCCTCAGCATCACAGATGGCAACATGCCAGGGACCAGGCCTGCCAGCCGCCGGATGCAGCAGGC
TGGAGCTGTCTCCCCCTTTGGGATGCTGGGAATGTCGGGTGGTTTTTCATGGACATGTTTGGGATGATGAATGACAT
GATTGGAAACATGGAACACATGACAGCTGGAGGCAATTGCCAGACCTTCTCATCTTCCACTGTCATCTCCTACTC
CAATACGGGTGATGGTGCCCCAAGGTCTACCAAGAGACATCAGAGATGCGCTCGGCACCAGGCGGGATCCGGGA
GACACGGAGGACTGTTTCGGGATTGACAGAGTGGACTGGAGCAGATGTCCATTGGGCATCACATCCGGGACAGGGC
TCACATCCTCCAGCGCTCCCGAAACCATCGCACGGGGGACCAGGAGGAGCGGCAGGACTATATCAACCTGGATGA
GAGTGAGGCCCGCAGCGTTTGATGACGAGTGGCGGCGGGAGACCTCCCGATTCCGGCAGCAGCGTCCCTGGAGTT
TCGGCGGCTTGAGTCCTCAGGGGCTGGGGGACGAAGGGCGGAGGGGCCTCCCGCCTGGCCATCCAGGGACCTGA
GGACTCCCCTTCCCGACAGTCCCGCCGCTATGACTGGTGAGGCCCCGGGCCCTCAGCCTCTCTTGACAGGCTGA
GAGGCTGAGAAATCATCCCCTGAATAACTTTTTCTCTCGATTCCCATCCCCAATTTAATATTAAATTAACAGGC
AAGCCGGCCCCCACCTCTCCCTGGGGGTCTCAGGGAGAACCTTTCACGGCACCCCTTTCCTACCTTTTCTTCTT
TAATCTCCTGGTTTACCATTGATGACTTCGCCTCTGCATCTACTGACTTGATTTTTTCATTCTGCCACTCCATCTT
CAAACCCCTCACCTTTCCCATCCTACTCCTGCCATGCATTGAAGGGTCAATGCATTTTGGGGTGAGCTCTGGGT
TTAGGGGCCCCCTCCATCCCTCAGCTACCCTGGATCTTTGCCACCTCTCCTCAGAGCCCCCACTGAGGGGCCG
TAGCCCTATCTAGGGCTGTGGAAGGAGCAGACTGGTTCCTAACTCTCTCCCTCCTCCTGCCACACACATCAAAA
GAATCTTCCCTACACCCTTCTCTGCCTTTATTTTTTTGATTTGTGCAACTTGTAAGTGGTTTATGGAATAAAG
GAGAATGGAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3467

MFRFMRDVEPEDPMFLMDPFAIHRQHMSRMLSGGFGYSPFLSITDGNMPGTRPASRRMQQAGAVSPFGMLGMSGG
FMDMFGMMNDMIGNMEHMTAGGNCQTFSSSTVISYSNTGDGAPKVYQETSEMRSAPGGIRETRRTVRDSDSGLEQ
MSIGHHIRDRAHILQRSRNHRTGDQEERQDYINLDESEAAAFDDEWRRETSRFRQQRPLEFRRLESSGAGGRRAE
GPPRLAIQGPEDSPSRQSRRYDW

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FIGURE 3468A

CGGGCTCCGGGTGACTCGGGCCAGTGTAGAGGTCCCTCAGGCCGCCGGCAGGAGCAGCTGGGCCAATTCCCTGGCC
GGGAGCGGAAGGGG**ATG**GGCGTCGGGCCTGGGGCTCCCCGTCCCCCTGCTCGGCGGGCAGTGAGGAGGAGGATATGG
ATGCACTTTTGAACAACAGCCTGCCCCACCCCCAGAAAATGAAGAGGACCCAGAAGAGGATTTGTGAGAAA
CAGAGACTCCAAAGCTCAAGAAGAAGAAAAAGCCTAAGAAACCTCGGGACCCCTAAAATCCCTAAGAGCAAGCGCC
AAAAAAGGAGCGTATGCTCTTATGCCGGCAGCTGGGGGACAGCTCTGGGGAGGGGGCCAGAGTTTGTGGAGGAGG
AGGAAGAGGTGGCTCTGCGCTCAGACAGTGAGGGCAGCGACTATACTCCTGGCAAGAAGAAGAAGAAGAGCTTG
GACCTAAGAAAGAGAAGAAGAGCAAATCCAAGCGGAAGGAGGAGGAGGAGGAGGATGATGATGATGATGATTCAA
AGGAGCCTAAATCATCTGCTCAGCTCCTGGAAGACTGGGGCATGGAAGACATTGACCACGTGTTCTCAGAGGAGG
ATTATCGAACCCTCACCAACTACAAGGCCTTCAGCCAGTTTGTGACACCCCTCATTGCTGCCAAAAATCCCAAGA
TTGCTGTCTCCAAGATGATGATGGTTTTGGGTGCAAAATGGCGGGAGTTTCACTACCAATAACCCCTTCAAAGGCA
GTTCTGGGGCATCAGTGGCAGCTGCGGCAGCAGCAGCGGTAGCTGTGGTGGAGAGCATGGTGACAGCCACTGAGG
TTGCACCACCACCTCCCCCTGTGGAGGTGCCTATCCGCAAGGCCAAGACCAAGGAGGGCAAAGGTCCCAATGCTC
GGAGGAAGCCCAAGGGCAGCCCTCGTGACCTGATGCCAAGAAGCCTAAACCCAAGAAAGTAGCTCCCCTGAAAA
TCAAGCTGGGAGGTTTTGGTTCCAAGCGTAAGAGATCCTCGAGTGAGGATGATGACTTAGATGTGGAATCTGACT
TCGATGATGCCAGTATCAATAGCTATTCTGTTTCTGATGGTTCCACCAGCCGTAGTAGCCGCAGCCGCAAGAAAC
TCCGAACCACTAAAAAGAAAAAGAAAGGCGAGGAGGAGGTGACTGCTGTGGATGGTTATGAGACAGACCACCAGG
ACTATTGCGAGGTGTGCCAGCAAGGCGGTGAGATCATCCTGTGTGATACCTGTCCCCGTGCTTACCACATGGTCT
GCCTGGATCCCGACATGGAGAAGGCTCCCGAGGGCAAGTGGAGCTGCCACACTGCGAGAAGGAAGGCATCCAGT
GGGAAGCTAAAGAGGACAATTGCGAGGGTGAGGAGATCCTGGAAGAGGTTGGGGGAGACCTCGAAGAGGAGGATG
ACCACCATATGGAATTCTGTGCGGTCTGCAAGGATGGTGGGGAAGTCTGCTGTGATACCTGTCTTCTTCTCCT
ACCACATCCACTGCCTGAATCCCCCACTTCCAGAGATCCCCAACGGTGAATGGCTCTGTCCCCGTTGTACGTGTC
CAGCTCTGAAGGGCAAAGTGCAGAAGATCCTAATCTGGAAGTGGGGTCAGCCACCATCTCCCACACCAGTGCCTC
GGCCTCCAGATGCTGATCCCAACACGCCCTCCCCAAAGCCCTTGAGGGGGCGGCCAGAGCGGCAGTTCTTTGTGA
AATGGCAAGGCATGTCTTACTGGCACTGCTCCTGGGTTTTCTGAAGTGCAGCTGGAGCTGCACTGTGAGGTGATGT
TCCGAAACTATCAGCGGAAGAATGATATGGATGAGCCACCTTCTGGGGACTTTGGTGGTGATGAAGAGAAAAGCC
GAAAGCGAAAGAACAAGGACCCTAAATTTGCAGAGATGGAGGAACGCTTCTATCGCTATGGGATAAAACCCGAGT
GGATGATGATCCACCGAATCCTCAACCACAGTGTGGACAAGAAGGGCCACGTCCACTACTTGATCAAGTGGCGGG
ACTTACCTTACGATCAGGCTTCTTGGGAGAGTGAGGATGTGGAGATCCAGGATTACGACCTGTTCAAGCAGAGCT
ATTGGAATCACAGGGAGTTAATGAGGGGTGAGGAAGGCCGACCAGGCAAGAAGCTCAAGAAGGTGAAGCTTCGGA
AGTTGGAGAGGCCTCCAGAAACGCCAACAGTTGATCCAACAGTGAAGTATGAGCGACAGCCAGAGTACCTGGATG
CTACAGGTGGAACCCCTGCACCCCTATCAAATGGAGGGCCTGAATTGGTTGCGCTTCTCCTGGGCTCAGGGCACTG
ACACCATCTTGGCTGATGAGATGGGCCTTGGGAAAAGTGTACAGACAGCAGTCTTCTGTATTCCCTTTACAAGG
AGGGTCATTCCAAAGGCCCTTCTAGTGAGCGCCCTCTTTCTACCATCATCAACTGGGAGCGGGAGTTTGAAA
TGTGGGCTCCAGACATGTATGTCGTAACCTATGTGGGTGACAAGGACAGCCGTGCCATCATCCGAGAGAATGAGT
TCTCCTTTGAAGACAATGCCATTTCGTGGTGGCAAGAAGGCCCTCCCGCATGAAGAAAGAGGCATCTGTGAAATTCC
ATGTGCTGCTGACATCCTATGAATTGATCACCATTGACATGGCTATTTTGGGCTCTATTGATTGGGCTGCCTCA
TCGTGGATGAAGCCCATCGGCTGAAGAACAAATCAGTCTAAGTTCTTCCGGGTATTGAATGGTTACTCACTCCAGC
ACAAGCTGTTGCTGACTGGGACACCATTACAAAACAATCTGGAAGAGTTGTTTCATCTGCTCAACTTTCTCACCC
CCGAGAGGTTCCACAATTTGGAAGGTTTTTTGGAGGAGTTTGCTGACATTGCCAAGGAGGACCAGATAAAAAAAC
TGCATGACATGCTGGGGCCGCACATGTTGCGGCGGCTCAAAGCCGATGTGTTCAAGAACATGCCCTCCAAGACAG
AACTAATTGTGCGTGTGGAGCTGAGCCCTATGCAGAAGAAAATACTACAAGTACATCCTCACTCGAAATTTTGAAG
CACTCAATGCCCCAGGTGGTGGCAACCAGGTGTCTCTGCTGAATGTGGTGATGGATCTTAAGAAGTGCTGCAACC
ATCCATACCTCTTCCCTGTGGCTGCAATGGAAGCTCCTAAGATGCCTAATGGCATGTATGATGGCAGTGCCCTAA
TCAGAGCATCTGGGAAATTATTGCTGCTGCAGAAAATGCTCAAGAACCTTAAGGAGGGTGGGCATCGTGTACTCA
TCTTTTCCAGATGACCAAGATGCTAGACCTGCTAGAGGATTTCTTGAACATGAAGGTTATAAATACGAACGCA
TCGATGGTGGAACTCACTGGGAACATGCGGCAAGAGGCCATTGACCGCTTCAATGCACCGGGTGCTCAGCAGTTCT
GCTTCTTGCTTTCCACTCGAGCTGGGGGCCTTGAATCAATCTGGCCACTGCTGACACAGTTATTATCTATGACT
CTGACTGGAACCCCCATAATGACATTAGGCCTTTAGCAGAGCTCACCGGATTGGGCAAAATAAAAAGGTAATGA

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FIGURE 3468B

TCTACCGGTTTGTGACCCGTGCGTCAGTGGAGGAGCGCATCACGCAGGTGGCAAAGAAGAAAATGATGCTGACGC
ATCTAGTGGTGC GGCTGGGCTGGGCTCCAAGACTGGATCTATGTCCAAACAGGAGCTTGATGATATCCTCAAAT
TTGGCACTGAGGAACTATTCAAGGATGAAGCCACTGATGGAGGAGGAGACAACAAAGAGGGAGAAGATAGCAGTG
TTATCCACTACGATGATAAGGCCATTGAACGGCTGCTAGACCGTAACCAGGATGAGACTGAAGACACAGAATTGC
AGGGCATGAATGAATATTTGAGCTCATTCAAAGTGGCCCAGTATGTGGTACGGGAAGAAGAAATGGGGGAGGAAG
AGGAGGTAGAACGGGAAATCATTAAACAGGAAGAAAGTGTGGATCCTGACTACTGGGAGAAATTGCTGCGGCACC
ATTATGAGCAGCAGCAAGAAGATCTAGCCCGAAATCTGGGCAAAGGAAAAAGAATCCGTAAACAGGTCAACTACA
ATGATGGCTCCCAGGAGGACCGAGATTGGCAGGACGACCAGTCCGACAACCAGTCCGATTACTCAGTGGCTTCAG
AGGAAGGTGATGAAGACTTTGATGAACGTTTCAAGCTCCCCGTAGGCCCAGTCTGAAGGGCCTGCGGAATGATA
AAGATAAGCCATTGCCTCCTCTGTTGGCCCGTGTGGTGGGAATATTGAAGTACTTGGTTTTAATGCTCGTCAGC
GAAAAGCCTTTCTTAATGCAATTATGCGATATGGTATGCCACCTCAGGATGCTTTTACTACCCAGTGGCTTGTA
GAGACCTGCGAGGCAAATCAGAGAAAGAGTTCAAGGCATATGTCTCTCTTTTCATGCGGCATTTATGTGAGCCGG
GGGCAGATGGGGCTGAGACCTTTGCTGATGGTGTCCCCGAGAAGGCCTGTCTCGCCAGCATGTCTTACTAGAA
TTGGTGTATGTCTTTGATTGCGAAGAAGGTTTCAAGGAGTTTGAACATGTTAATGGGCGCTGGAGCATGCCTGAAC
TGGCTGAGGTGGAGGAAAACAAGAAGATGTCCAGCCAGGGTCACCTCCCCAAAACTCCTACACCTCCACTC
CAGGGGACACGCAGCCCAACACTCCTGCACCTGTCCACCTGCTGAAGATGGGATAAAAAATAGAGGAAAAATAGCC
TCAAAGAAGAAGAGAGCATAGAAGGAGAAAAGGAGTTAAATCTACAGCCCTGAGACTGCCATTGAGTGTACAC
AGGCCCTGCCCCCTGCCTCAGAGGATGAAAAGGTGCTTGTGTAACCCCTGAGGGAGAGGAGAAAGTGGAAAAAG
CAGAGGTGAAGGAGAGAACAGAGGAACCTATGGAGACAGAGCCCAAAGGTGCTGCTGATGTAGAGAAGGTGGAGG
AAAAGTCAGCAATAGATCTGACCCCTATTGTGGTAGAAGACAAAAGAAGAGAAGAAAGAAGAAGAGAAAAAG
AGGTGATGCTTCAGAAATGGAGAGACCCCAAGGACCTGAATGATGAGAAACAGAAGAAAAATATTAAACAACGTT
TCATGTTTAAACATTGCAGATGGTGGTTTTACTGAGTTGCACTCCCTTTGGCAGAATGAAGAGCGGGCAGCCACAG
TTACCAAGAAGACTTATGAGATCTGGCATCGACGGCATGACTACTGGCTGCTAGCCGGCATTATAAACCATGGCT
ATGCCCGGTGGCAAAGACATCCAGAATGACCCACGCTATGCCATCCTCAATGAGCCTTTCAAGGGTGAAATGAACC
GTGGCAATTTCTTAGAGATCAAGAATAAATTTCTAGCTCGAAGGTTTAAGCTCTTAGAACAAGCTCTGGTGATTG
AGGAACAGCTGCGCCGGGCTGCTTACTTGAACATGTGAGAAGACCCTTCTCACCTTCCATGGCCCTCAACACCC
GCTTTGCTGAGGTGGAGTGTTTGGCGGAAAGTCATCAGCACCTGTCCAAGGAGTCAATGGCAGGAAACAAGCCAG
CCAATGCAGTCCTGCACAAAGTTCTGAAACAGCTGGAAGAAGTGTGAGTGACATGAAAGCTGATGTGACTCGAC
TCCCAGCTACCATTTGCCGAATTTCCCCAGTTGCTGTGAGGTTACAGATGTCAGAGCGTAACATTCTCAGCCGCC
TGGCAAACCGGGCACCCGAACCTACCCACAGCAGGTAGCCAGCAGCAGTGAAGATGCAGACTGATACCACCTC
CACCGCTGAGCAGTGACCTTCCTCACTTTCTCTTGTCCAGCTTCTCCCTGGGGGCCTGAGAGACCCTCACCTT
CCTTCTGCCCATCTTCCATGTTGTAAAGGAACAGCCCCAGTGCACCTGGGGGAGGGGAGGGAGTGAGGGGCAGTGG
TGCCCTTCTGCGAGAAGAGACATGCAGCAGTAGCGCTGGCGCCATCTGCAGGAGCTGGCGGGCTGGCCTTCTGGA
CCCTGGCTTCTCCCCACTGTAACGCCTGTTACACACAACTGTTGTGGGTTCTGCCAGGCTTGAAGAAAATGAT
CTGAATTTTTTCTCCTTTTGGTTTTATTTTGTGTTTTATTTTGTGTTTTCTTTTCTCCTTTTTTGGGGGGTATT
CAGAGTGGGCTGGGCCCCCTGGGCGAGACACAGCTACCTCTGTTGGCATCTTTTAAATACCAGGAACCCAGCGGCT
CTAGCCACTGAGCGGCTAAATGAAATAAAGTGGAAGAAAAAAGGAAAAAACCAAGCATAAAAAACAC
AGCAAATTTCTTGATGAAATGAAATAAAGTTTCCTGT

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FIGURE 3469

MASGLGSPSPCSAGSEEDMDALLNNSLPPPHPENEEDEEDLSETETPKLKKKKKKPKKPRDPKIPKSKRQKKER
MLLCRQLGDSSGEGPEFVEEEEEVALRSDSEGS DYTPGKKKKKKLGPKKEKKS KSKRKEEEEEEDDDDDDSKEPKS
SAQLLEDWGMEDIDHVFSEEDYRTLTYKAFSQFVRPLIAAKNP KIAVSKMMMV LGAKWREFSTNNPFGSSGAS
VAAAAAAAVAVVESMVTATEVAPPPPPVEVP IRKAKTKEGKGNARRKPKGSPRPVDAKKPKPKKVAPLKIKLGG
FGSKRRRSSSEDDDLVESDFDDASINSYSVSDGSTSRSSRSRKKLRRTTKKKKGEEVTAVDGYETDHQDYCEV
CQQGGEIILCDTCPRAYH MVCLDPDMEKAPEGKWSCPHCEKEGIQWEAKEDNSEGEEILEEVGGDLEEDDDHHME
FCRVCKDGGELLCCDTCPSYHIHCLNPPLPEIPNGEWLCPRCTCPALKGKVQKILIWKGQPPSPTPVPRPPDA
DPNTPSPKPLEGRPERQFFVKWQGMSYWHCSWVSELQLELHCQVMFRNYQRKNDMDEPPSGDFGGDEEKSRRKRN
KDPKFAEMEERFYRYGIKPEWMMIHRILNHSVDKKGHVHYLIKWRDLPYDQASWESEDVEIQDYDLFKQSYWNHR
ELMRGEEGRPGKKLKKVKLRKLERPPETPTVDPTVKYERQPEYLDATGGTLHPYQMEGLNWLRF SWAQGTDTILA
DEMGLGKTVQTAVFLYSLYKEGHSKGPFLVSAPLSTIINWEREFEMWAPDMYVVTVYVGDKDSRAI IRENEFSFED
NAIRGGKKASRMKKEASVKFHVLLTSYELITIDMAILGSIDWACLIVDEAHLKNNQSKFFRVLNGYSLQHKL LLL
TGTP LQNNLEELFHLNFLTPERFHNLEGFLEEFADI AKEDQIKKLHDM LGPHMLRRLKADV FKNMPSKTELIVR
VELSPMQKKYKYILTRNFEALNARGGGNQVSLNVM DLKKCCNHPYLF PVAAMEAPKMPNGMYDGSALIRASG
KLLLLQKMLKNLKEGGHRLV LIFSQMTKMLD LLED FLEHEGYKYERIDGGITGNMRQE AIDRFNAPGAQQFCFLLS
TRAGGLGINLATADTVIIYDS DWNPHNDIQAFSRAHRIGQNKKVM IYRFVTRASVEERITQVAKKKMMLTHLVVR
PGLGSKTGSMKQELDDILKFGTEELFKDEATDGGGDNKEGEDSSVIHYDDKAIERLLDRNQDETETELQGMNE
YLSSFKAQYV VREEEMGEEEEVEREIIKQEE SVDPDYWEKLLRH HYEQQQEDLARNLGKGKRIRKQVNYNDGSQ
EDRDWQDDQSDNQSDYSVASEEGDEDFDERSEAPRRPSRKGLRNDKDKPLPPLLARVGGNIEVLGFNARQRKAFL
NAIMRYGMPPQDAFTTQWLVRDLRGKSEKEFKAYVSLFMRHLCEPGADGAETFADGVPREGLSRQHVLTRIGVMS
LIRKKVQEF EHVNGRWSMP ELAEVEENKKMSQPGSPSPKTP TPSTPGDTQPNT PAPVPPAEDGIKIEENSLKEEE
SIEGEKEVKSTAPETAIECTQAPAPASEDEKV VVEPPEGEEKVEKA EVKERTEEP METEPKGAADVEKVEEKSAI
DLTPIVVEDKEEKKEEEEKKEVMLQNGETPKDLNDEKQKKNIQR FMFNIADGGFTELHSLWQNEERAATVTKKT
YEIWHRRHDYWLLAGIINHGYARWQDIQNDPRYAILNEPFGEMNRGNFLEIKNKFLARRFKLLEQALVIEEQLR
RAAYLNMS EDP SHPSMALNTRFAEVECLAESHQHSKESMAGNKPANAVLHKVLKQLEELLSDMKADVTRLPATI
ARIPPVAVRLQMSERNILSRLANRAPEPTPQQVAQQQ

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FIGURE 3470

CACCGGTCTGCATCTCCCAGCAGAAGGCGCAGCCATGAATCCGTTATTTCGGCCCCAACCTCTTCCTCCTGCAGCA
GGAGCAGCAGGGCCTGGCCGGGCCACTGGGGGACTCACTGGGAGGCGACCACCTTCGCCGGGGGAGGAGACTTGCC
CCCGGCGCCTCTCTCGCCGGCCGGCCCTGCTGCCTACTCGCCGCCCGGGCCGGGCCCCGGCCCCGCCTGCCGCCAT
GGCCCTCCGCAATGACCTGGGCTCCAACATCAACGTGCTCAAGACCCTGAACCTCCGGTTCCGCTGCTTCCTGGC
CAAGGTGCATGAGCTGGAGCGCCGAACCGGCTGTTGGAGAAGCAACTGCAGCAAGCGCTGGAGGAGGGTAAGCA
GGGCCGGCGGGGCTGGGTGCTCGCGACCAGGCAGTGCAGACCGGCTTCGTCAGCCCCATCCGGCCCCCTGGGGCT
GCAGCTGGGCGCCCGGCCGGCCGCTGTCTGCAGCCCTTCGGCGCGCGTGTGCTGGGCTCGCCCGCGCGCTCCCCGGC
CGGCCCCCTCGCGCCCTCCGCGGCCAGCCTCTCGTCGTCTCCACCTCCACCTCCACCACCTATTCTCGTCGGC
CCGCTTCATGCCCGGCACCATCTGGTCGTTCTCGCACGCCCGCCGGCTCGGGCCGGGACTGGAGCCCACTCTGGT
GCAAGGGCCTGGCTTGTCTGGGTGCACCCGGATGGGGTGGGCGTCCAGATCGACACCATCACGCCCGAGATCCG
CGCTCTCTACAACGTGCTGGCCAAAGTGAAAGCGGGAGCGGGACGAGTACAAGCGGAGATGCTTTTACAGGGTTAA
ATGATACCACAAGAGGCAGGGCAGCGGGCTCGACGAGCTCTGTTCTGGTGCGGGCAGGAGGCGGGAGCCCGGATC
TGTGCGACTGAAGGTGGGAAGAGGAGTACACGGTGCGGATCCAGCTGCAAGACCGTGTAATGAGCTCCAGGAGG
AAGCCCAGGAGGCTGATGCCTGCCAGGAGGAGCTGGCACTGAAGGTGGAACAGTTGAAGGCTGAGCTGGTGGTCT
TCAAGGGGCTCATGAGTAACAACCTGTGCGGAGCTGGACACCAAGATCCAGGAGAAAGCCATGAAGGTGGATATGG
ACATCTGCCGCCGCATCGACATCACCGCCAAGCTCTGCGATGTGGCTCAGCAGCGCAACTGCGAGGACATGATCC
AGATGTTCCAGGTCCCATCCATGGGGGGGCGGAAGCGGGAGCGCAAGGCTGCCGTGAGGAGGACACCTCCCTGT
CGGAGAGTGAGGGGCCCCGCCAGCCGATGGGGATGAGGAGGAGAGCACAGCCCTCAGCATCAACGAGGAGATGC
AGCGCATGCTCAACCAGCTGAGGGAGTATGATTTTGAGGACGACTGTGACAGCCTGACTTGGGAGGAGACTGAGG
AGACCTGCTGCTTTGGGAGGATTTCTCAGGCTATGCCATGGCAGCTGCAGAGGCCAGGGAGAGCAGCAGGAAG
ATAGCCTGGAGAAGGTGATTAAAGATACGGAGTCCCTGTTCAAAACCCGGGAGAAGGAGTATCAGGAGACCATTG
ACCAGATAGAGCTGGAGTTGGCCACGGCCAAGAACGACATGAACCGGCACCTGCACGAGTACATGGAGATGTGCA
GCATGAAGCGCGGCCTGGACGTGCAGATGGAGACCTGCCGCCGGCTCATCACCCAGTCTGGAGACCGAAAGTCTC
CTGCTTTCACTGCGGTCCCCTTAGCGACCCGCCGCCGCCAAGCGAGGCTGAGGACTCCGATCGCGATGTCT
CATCTGACAGCTCCATGAGATAGAGACCTGCCTCCCCCTTGACCCGAGGCCCTCGCAGCAGGGAGCTCAGCGAG
GCAGAGGGTGGGGCTGCACAGAGGGGAACATCAGCTGCAGCTCTGCACCAGGCCGGTCCCTGGGGACTGGGGCGC
TCCTCCCTCAGGCTTTCTCCCTCAGTCTTGGCTTCTCCAGGGCTCTGGGGTGTCTGGAGCTAGGCTTGGCCCTAC
CATTCTGGGGCCATTTCCACCACAGTTGGGGCTCTCTGCCCTTACGCGTGGGTGTCTGCTACTTCCCCATCTTT
AAAATGCTGCCAGAGCGATTGCGGCCCTCACCTTGTCACGTATCAGGAATGTGAATGTGGGACCTTTCTCTCA
TCCCTGTTGTCCGGAGCCAGCTCACTGTCTTCCACACTGGTGCTAACTGGCCCAGGCACTGGAGTGGAATAGAAT
GCAGCTGGAGGCTACGCATGGCCTCTGCAGCACACGCAGCTGGAGAGGGCTTCTGTCCCTGTCTAGCGGCAGAGGG
CGTTGGGGCTGGCCGGGGCACCTTGTCCCTGCTATGGTCCACATGCTCACGCTGTCCACCTGCCAGGTGGAGTGT
ATGTGGCTGTGGCCCTCCCTCGTGGAGGTGCCGTGCTTTAAAGAGGCCCTTAGTGCCCGGGATGGGCACAGTGTTT
TGAAGGGAGGTGGGAGCTCTTGCTCTCCTGGTCACTGCAGAATGACAGAGAAGGTGAAGCTCCATGCATGTGTGC
GCGGGTGTATGTGCGCTCAGGGTCTCTGTTTAAAGTATCAGCTAAAGATGTGCTTCCCTCCGTGTCTGTACATACCT
GAGACCAACAGGCTACAGTGTCCCTGATTCTTGAAAAAGCCTGGAGAAGCTGGGGAGATGCGGTTTCAATGCCT
CGGTATAGGAGGCTGTGTTGAGCTGACATTCAAATGGATTCTTTAATAATAATGAAACTGGCGAGTAAAAAAAAA
AA

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FIGURE 3471

MNPLFGPNLFLLOQEQQLAGPLGDSLGGDHFAGGGDLPPAPLSPAGPAAYSPPGPGPAPPAAMALRNDLGSNIN
VLKTLNLRFRCLAKVHELERRNRLLEKQLQQALEEGKQGRRGLGRRDQAVQTGFVSPIRPLGLQLGARPAAVCS
PSARVLGSPARSPAGPLAPSAASLSSSSTSTSTTYSSSARFMPGTIWSFSHARRLGPGLEPTLVQGPGLSWVHPD
GVGVQIDTITPEIRALYNVLAKVKRERDEYKRRCFYRVK

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FIGURE 3472

GGTTGAGCACAGGGTACTTTATTGATGGTACATGACAAGGTGCGGCTCCCTAGGCCCCCTCCCCTCTTCAAGGGGT
CTACATGGCAACTGTGAGGAGGGGAGATTTCAGTGTGGTGGGGGACTGAGTGTGGCAGGGACTCCCCAGCAGTGAG
GGTCTCTCTCTTCCCTCTTGCTCTTGCTGGGGCTGGTGGTCCAGGGGTCTTACTCCTTGGAGGCCATGTGGGCC
ATGAGGTCCACCACCCTGTTGCTGTAGCCAAATTCGTTGTCTATACCAGGAAATGAGCTTGACAAAGTGGTCGTTG
AGGGCAATGCCAGCCCCAGCGTCAAAGGTGGAGGAGTGGGTGTCGCTGTTGAAGTCAGAGGAGACCACCTGGTGC
TCAGTGTAGCCCAGGATGCCCTTGAGGGGGCCCCCTCCGACGCCTGCTTCACCACCTTCTTGATGTCATCATATTTG
GCAGGTTTTTCTAGACGGCAGGTGAGGTCCACCCTGACACGTTGGCAGTGGGGACACGGAAGGCCATGCCAGTG
AGCTTCCCCGTTTCAGCTCAGGGATGACCTTGCCACAGCCTTGGCAGCGCCAGTAGAGGCAGGGATGATGTTCTGG
AGAGCCCCGCGGCCATCACGCCACAGTTTTCCCGAGGGGGCCATCCACAGTCTTCTGGGTGGCAGTGATGGCATGG
ACTGTGGTTCATGAGTCCTTCCACGATACCAAAGTTGTCATGGATGACCTTGGCCAGGGGTGCTAAGCAGTTGGTG
GTGCAGGAGGCATTGCTGATGATCTTGAGGCTGTTGTCATACTTCTCATGTTTCACACCCATGACGAACATGGGG
GCATCAGCAGAGGGGGCAGAGATGATGACCCTTTTGGCTCCCCCTGCAAATGAACCCAGCCTTCTCCATGGTG
GTGAAGACGCCAGTGGACTCCACGACGTACTCAGCGCCAGCATCGCCCCACTTGATTTTGGAGGGATCTCACTCC
TGGAAGATGGTGATGGGATTTCCATTGATGACAAGCTTCCCGTTCTCAGCCTTGACGGTGCCATGGAATTTGCCA
TGGGTGGAATCATATTGGAACATGTAAACCATGTAGTTGAGGTCAATGAAGGGGTCAATTGATGGCAACAATATCC
ACTTTACCAGAGTTAAAAGCAGCCCTGGTGACCAGGCGCCCAATACGACCAAATCCGTTGACTCCGACCTTCACC
TTCCCCATGGTGTCTGAGCGATGTGGCTCGGCTGGCGACGAAAAGAAGATGCGGCTGACTGTGGAAC

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FIGURE 3473

CTCTCTGCTCCTCCTGTTTCGACAGTCAGCCGCATCTTCTTTTGGCTCGCCAGCCGAGCCACATCGCTCAGACACC
ATGGGGAAGGTGAAGGTCGGAGTCAACGGATTTGGTCGTATTGGGCGCCTGGTCACCAGGGGTGCTTTTAACTCT
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTCAACTACATGGTTTACATGTTCCAATATGAT
TCCACCCATGGCAAATTCATGGCACCGTCAAGGCTGAGAACGGGAAGCTTGTTCATCAATGGAAATCCCATCACC
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCTGGAGTCCACTGGC
GTCTTCACCACCATGGAGAAGGCTGGGGCTCATTTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT
GCTGATGCCCCCATGTTTCGTTCATGGGTGTGAACCATGAGAAGTATGACAACAGCCTCAAGATCATCAGCAATGCC
TCCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTCATCCATGACAACCTTTGGTATCGTGGAAAGGACTCATG
ACCACAGTCCATGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCTCCGGGAAACTGTGGCGTGATGGCCGC
GGGGCTCTCCAGAACATCATCCCTGCCTCTACTGGCGCTGCCAAGGCTGTGGGCAAGGTCATCCCTGAGCTGAAC
GGGAAGCTCACTGGCATGGCCTTCCGTGTCCCCACTGCCAACGTGTCAGTGGTGGACCTGACCTGCCGTCTAGAA
AAACCTGCCAAATATGATGACATCAAGAAGGTGGTGAAGCAGGCGTCGGAGGGCCCCCTCAAGGGCATCCTGGGC
TAACTGAGCACCAGGTGGTCTCCTCTGACTTCAACAGCGACACCCACTCCTCCACCTTTGACGCTGGGGCTGGC
ATTGCCCTCAACGACCACCTTTGTCAAGCTCATTTCCTGGTATGACAACGAATTTGGCTACAGCAACAGGGTGGTG
GACCTCATGGCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGCAAGAGCACAAAGAGGAAGA
GAGAGACCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCACCACACTGAATCTCCCCTCCTCACAGTTG
CCATGTAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCGCACCTTGTTCATGTACCATCAATAAAGTACCCTGT
GCTCAACC

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FIGURE 3474

MGKVKVGVNGFGRIGRLVTRAAFNSGKVDIVAINDPFIDLNYMVYMFQYDSTHGKFHGTVKAENGKLVINGNPIT
IFQERDPSKIKWGDAGA EYVVESTGVFTTMEKAGAHLQGGAKRVIISAPSADAPMFVMGVNHEKYDNSLKIISNA
SCTTNCLAPLAKVIHDNFGIVEGLMTTVHAITATQKTVDGPGSKLWRDGRGALQNIIPASTGAAKAVGKVIPELN
GKLTGMAFRVPTANVSVDLTCRLEKPAKYDDIKKVVKQASEGPLKGILGYTEHQVVSSDFNSDTHSSTFDAGAG
IALNDHFVKLISWYDNEFGYSNRVVDLMAHMASKE

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FIGURE 3475A

AAGTTTTGGAGCGCCGGACAAGCTGAGGTCCGCGACTCGTCGCTAAGATTCCCCAAAAGTGAAGATTTCAAGAAAA
TTCACCCCTTTCCGCTTTCTTTGGCGTCCTTCAACCGTGAAGGAAATGAAGGTTGAGAACCTGGAACCCGCTTCCA
ATGACCAAGCCCTTTCTCTGTGCCTCACAAACAGTCTTCCGCTGTAGCTGTTTTTATTACCCCTATTTTACTACTG
GGGAGGAGATTTGAGGTCTGAAAGTGAAGTGACTTGCTGGACGTCACCTTAGCAGAGGAGATGGCGAAACCTGGA
TTAGAGGCGATGCCTTCTAACTCCCAGCGTGGAATTGCTCCTTTTCTGGGGGTGACTGAATGCCAGCCAGGGA
CGCGACGTCTCTGGCCAGCAGAAATACGGCCTCCTCCCCGCCGACTGGGCAAAGGGGGACCTTGCGGCCAAGGAG
GGATTTCGAGGCGGGCCGGGGGTGGGAGCGGGGGCCGGAGCCGGAGCCTTGCCCCGCCCCGGGCGGCGCTGTGA
TTGGCCGGCCGCTCCGGCGGGCGTGCAGATTGGCCGTCTGACGCCGTTGAGATTTGAAGTCCGTATTTGTGGCT
TTGCCCGCGCGTTGCCAGACTCAGAGGCGGCCCTTTGCTCTGCCTGCCGGGGATTGGCCGGATTCTCCGCCGAC
TTGAAAAGTGCCTTGCTAATTGGTGCCTGTTGTGCACGCGTGTTTTTTCTTTTCATTTACAGCTGACTGCCGGA
ATCAGAGCCGCGGGTGAGATCCCCAGCCCTGTGAGCCTGTAGGAGTAGAATGGCTCCCCAAATGTATGAGTTCCA
TCTGCCATTATCCCCAGAGGAGTTGTTGAAAAGTGGAGGGGTGAATCAGTATGTTGTGCAAGAGGTACTGTCCAT
CAAACATCTTCCACCACAGCTTAGAGCTTTTCAGGCTGCCTTTGAGCTCAGGGGCCCCCTGGCTATGCTGCAGCA
CTTTGATACTATCTACAGCATTTTGCATCACTTTTGAAGTATAGATCCTGGCCTCAAAGAAGATACTCTGCAATT
CCTGATAAAAAGTGGTATCCCGCCACTCCCAGGAGCTTCCAGCTATCCTGGATGATACAACCTTTGAGTGGATCAGA
TAGAAACGCCCCATCTAAATGCCCTCAAATGAAGTGTATGCTCTGATACGCTCTCTGGAATCCTTTGAGACCAT
GGCCAGCCAGACAAACCTTGTGGACCTGGACCTTGGTGGGAAGGGTAAGAAAGCTCGGACCAAGGCAGCCCATGG
CTTTGACTGGGAAGAAGAGAGGCAACCAATTTCTTACGCTTTTAAACACAGCTACTTCAGTTGGACATCCGTCACCT
GTGGAACCACTCAATAATTGAAGAAGAATTTGTGAGTTTGGTTACTGGCTGTTGCTACCGCCTTCTGGAGAATCC
CACCATTAATCACCAGAAGAACC GCCCCACTCGGGAAGCCATAACACACCTGCTTGGTGTAGCCTTGACCCGTTA
TAACCATATGCTCAGTGCTACAGTGAAGATCATCCAGATGCTGCAGCACTTTGAACACCTGGCACCTGTACTGGT
TGCAGCCGTGAGTCTATGGGCAACTGACTATGGAATGAAGAGCATAGTGGGAGAGATTGTAAGAGAGATTGGACA
AAAGTGTCCCCAAGAGCTGAGTCGAGACCCCTTCCAGGACAAAGGGCTTTGCAGCATTCTGACAGAACTAGCAGA
ACGTGTCCAGCTATCCTGATGTCCAGCATGTGCATTTTGTAGATCACCTGGATGGAGAAAATTACATGATGCG
TAATGCTGTGCTGGCAGCCATGGCGGAGATGGTGTGAGGTTCTCAGTGGCGATCAACTGGAAGCAGCAGCCCG
AGACACCAGAGACCAGTTCTTGGATACTTTACAAGCCCATGGCCATGATGTCAACTCCTTTGTGCGGAGCCGTGT
TTTGCAGCTCTTACCCGAATTGTCCAGCAGAAGGCTCTCCCCCTGACACGTTTCCAGGCAGTGGTGGCTTTAGC
TGTGGGACGTCTGGCAGACAAGTCAGTGCTAGTATGTAAAAATGCCATCCAGCTGCTGGCCAGTTTTCTAGCCAA
TAATCCTTTCTCCTGCAAGCTTAGTGATGCTGACCTTGCCGGACCACTGCAGAAGGAGACCCAGAAAATTACAAGA
GATGAGGGCCAGAGGCGAACTGCAGCAGCTTCTGCAGTGCTGGACCCAGAGGAGGAGTGGGAAGCCATGCTGCC
AGAGTTGAAGTCTACCCTGCAGCAGCTTCTACAGCTTCCCCAGGGAGAGGAGATTCTGAGCAAATTGCCAA
TACAGAGACAACCTGAAGATGTGAAAGGACGCATCTATCAACTGCTTGCCAAAGCTAGTTACAAAAGGCCATCAT
TCTCACTCGAGAAGCCACAGGCCACTTCCAGGAGTCCGAACCCTTTCAGTCATATAGACCCAGAGGAGTCAGAGGA
GACCAGGCTCTTGAATATCTTAGGACTTATCTTCAAAGGCCCAGCAGCTTCCACACAAGAAAAGAATCCCCGGGA
GTCTACAGGAAACATGGTTCACAGGACAGACTGTCTGTAAAAATAAACCCAAATATGTGCGATCCTGAGGAATCCAG
GGGAAATGATGAAGTAGTGAAGCAGGAGATGCTGGTACAGTATCTGCAGGATGCCTACAGCTTCTCCCGGAAGAT
TACAGAGGCCATTGGCATCATCAGCAAGATGATGTATGAAAACACAACCTACAGTGGTGCAGGAGGTGATTGAATT
CTTTGTGATGGTCTTCAAATTTGGGGTACCCAGGCCCTGTTTGGGGTGCGCCGTATGCTGCCTCTCATCTGGTC
TAAGGAGCCTGGTGTCCGGGAAGCCGTGCTTAATGCCTACCGCCAACTCTACCTCAACCCCCAAAGGGGACTCTGC
CAGAGCCAAGGCCCAGGCTTTGATTGAGAATCTCTCTGCTGCTAGTGGATGCCTCGGTTGGGACCATTTCAGTG
TCTTGAGGAAATCTCTGTGAGTTTGTGCAGAAAGGATGAGTTGAAACCAGCAGTGACCCAGCTGCTGTGGGAGCG
GGCCACCGAGAAGGTGCTGCTGTCTCTGGAGCGCTGTTCTCTGTGATGCTTCTTGGCATGATGGCACGAGG
AAAGCCAGAAATGTGGGAAGCAATTTAGACACACTGGTGAGCATAGGGCTGGATGAGAAGTTTCCACAGGACTA
CAGGCTGGCCCAGCAGGTGTCCATGCCATTGCCAACATCTCGGACAGGAGAAAGCCTTCTCTGGGCAAACGTCA
CCCCCCTTCCGGCTGCCTCAGGAACACAGGTTGTTTGGAGCGACTGCGGGAGACAGTCACAAAAGGCTTTGTCCA
CCCAGACCCACTCTGGATCCCATTCAAAGAGGTGGCAGTGACCCCTCATTTACCAACTGGCAGAGGGCCCCGAAGT
GATCTGTGCCCAGATATTGCAGGGCTGTGCAAAACAGGCCCTGGAGAAGCTAGAAGAGAAGAGAACCAGTCAGGA
GGACCCGAAGGAGTCCCCCGCAATGCTCCCCACTTTCTGTTGATGAACCTGCTGTCCCTGGCTGGGGATGTGGC

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FIGURE 3475B

TCTGCAGCAGCTGGTCCACTTGGAGCAGGCAGTGAGTGGAGAGCTCTGCCGGCGCCGAGTTCTCCGGGAAGAACA
GGAGCACAAGACCAAAGATCCCAAGGAGAAGAATACGAGCTCTGAGACCACCATGGAGGAGGAGCTGGGGCTGGT
TGGGGCAACAGCAGATGACACAGAGGCAGAACTAATCCGTGGCATCTGCGAGATGGAACTGTTGGATGGCAAACA
GACACTGGCTGCCTTTGTTCCACTCTTGCTTAAAGTCTGTAACAACCCAGGCCTCTATAGCAACCCAGACCTCTC
TGCAGCTGCTTCACTTGGCCTTGGCAAGTTCTGCATGATCAGTGCCACTTTCTGCGACTCCCAGCTTCGTCTTCT
GTTACCATGCTGGAAAAGTCTCCACTTCCCATTGTCCGGTCTAACCTCATGGTTGCCACTGGGGATCTGGCCAT
CCGCTTTCCTAATCTGGTGGACCCCTGGACTCCTCATCTGTATGCTCGTCTCCGGGACCCTGCTCAGCAAGTGCG
GAAAACAGCGGGGCTGGTGATGACCCACCTGATCCTCAAGGACATGGTGAAGGTGAAGGGGCAGGTCAGCGAGAT
GGCGGTGCTGCTCATCGACCCCGAGCCTCAGATTGCTGCCCTGGCCAAGAAGTTCTTCAATGAGCTCTCCACAA
GGGCAACGCAATCTATAATCTCCTTCCAGATATCATCAGCCGCTGTGAGACCCCGAGCTGGGGGTGGAGGAAGA
GCCTTTCACACCATCATGAAACAGCTCCTCTCCTACATACCAAGGACAAGCAGACAGAGAGCCTGGTGGAAAA
GCTGTGTGTCAGCGGTTCCGCACATCCCGAACTGAGCGGCAGCAGCGAGACCTGGCCTACTGTGTGTACAGCTGCC
CCTCAGAGAGCGAGGCCTCCGTAAGATGCTTGACAATTTTGAAGTGTGTTTGGAGACAACTGTCAGATGAGTCCAT
CTTCAGTGCTTTTTTGTGAGTTGTAGGCAAGCTGCGACGTGGGGCCAAGCCTGAGGGCAAGGCTATAATAGATGA
ATTTGAGCAGAAGCTTCGGGCCTGTCATACCAGAGGTTTGATGGAATCAAGGAGCTTGAGATTGGCCAAGCAGG
TAGCCAGAGAGCGCCATCAGCCAAGAAACCATCCACTGGTTCTAGGTACCAGCCTCTGGCTTCTACAGCCTCAGA
CAATGACTTTGTACACACAGAGCCCCGCCGTACTACCCGTGCGCATCCAAACACCCAGCAGCGAGCTTCCAAAAA
GAAACCCAAAGTTGTCTTCTCAAGTGATGAGTCCAGTGAGGAAGATCTTTCAGCAGAGATGACAGAAGACGAGAC
ACCCAAGAAAACAACCTCCCATTTCTCAGAGCATCGGCTCGCAGGCACAGATCCTAGGAAGTCTGTTCTGTCTCTCC
CTGTGCAGGGTATCCTGTAGGGTGACCTGGAATTCGAATTCGTTTTCCCTTGTAATAATTTGTCTGTCTCTTTT
TTTTAAAAAAAAAAAAAGGCCGGGCACTGTGGCTCACGCCTGTAATCCCAGCACTTTGCGATACCAAGCGGGTGG
ATAACCTGAGGTAGGGAGTTTCGAGACCAGCCTGACCAACATGGAGAAACCCCATCTCTACTAAAAATAAAAAATT
AGCCGGGCGTATTGGCGTGCGCCTGTAATCCCAGTACTCAAGAGGCTGAGGCAGGAGAATCGCCTGAACCCAGA
GGCGGAGGTTGTAGTGAGCCGAAATCACACCATTTGCACTCCAGCTTGGGCAACAATAGCGAACCTCCATCTCAA
TTAAAAAAAAAATGCCTACAGCTCTTTAAAAATGCAAGGCTTTCTCTTAAATTAGCCTAACTGAACTGCGTTGAG
CTGCTTCACTTTGGAATATATGTTTGCCAATCTCCTTGTTTTCTAATGAATAAATGTTTTATATACTTTT

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FIGURE 3476

GCCCTGGAGGCCCGGCTGGCCGCTCCCGGCCCTGGGGTGCACATCGGCCCTGAGTCCCGTCCCAGGCTCTGGGC
TCGGGCAGCCGCCGCCACCGCTGCCAGGACGTCGGGCCTCCTGCCTTCCTCCCAGGCCCCACGTTGCTGGCCG
CCTGGCCGAGTGGCCGCC**ATG**CTCCTGCCTTGGGCCACCTCTGCCCCCGGCTGGCCTGGGGGCTCTGGTGCTG
GGCTCTTCGGGCTCCTGGCAGCATCGCAGCCCCAGGCGGTGCCTCCATATGCGTCGGAGAACCAGACCTGCAGG
GACCAGGAAAAGGAATACTATGAGCCCCAGCACCGCATCTGCTGCTCCCGCTGCCCCCAGGCACCTATGTCTCA
GCTAAATGTAGCCGCATCCGGGACACAGTTTGTGCCACATGTGCCGAGAATTCCTACAACGAGCACTGGAACCTAC
CTGACCATCTGCCAGCTGTGCCGCCCCCTGTGACCCAGTGATGGGCCTCGAGGAGATTGCCCCCTGCACAAGCAAA
CGGAAGACCCAGTGCCGCTGCCAGCCGGGAATGTTCTGTGCTGCCTGGGCCCTCGAGTGTACACACTGCGAGCTA
CTTTCTGACTGCCCCGCTGGCACTGAAGCCGAGCTCAAAGATGAAGTTGGGAAGGGTAACAACCACTGCGTCCCC
TGCAAGGCAGGGCACTTCCAGAATACCTCCTCCCCAGCGCCCGCTGCCAGCCCCACACCAGGTGTGAGAACC
GGTCTGGTGGAGGCAGCTCCAGGCACTGCCCAGTCCGACACAACCTGCAAAAATCCATTAGAGCCACTGCCCCCA
GAGATGTCAGGAACCATGCTGATGCTGGCCGTTCTGCTGCCACTGGCCTTCTTTCTGCTCCTTGCCACCGTCTTC
TCCTGCATCTGGAAGAGCCACCTTCTCTCTGCAGGAACTGGGATCGCTGCTCAAGAGGCGTCCGAGGGAGAG
GGACCCAATCCTGTAGCTGGAAGCTGGGAGCCTCCGAAGGCCCATCCATACTTCCCTGACTTGGTACAGCCACTG
CTACCCATTTCTGGAGATGTTTCCCCAGTATCCACTGGGCTCCCCGAGCCCCAGTTTTGGAGGCAGGGGTGCCG
CAACAGCAGAGTCCCTCTGGACCTGACCAGGGAGCCGAGTTGGAACCCGGGGAGCAGAGCCAGGTGGCCCCACGGT
ACCAATGGCATTTCATGTCACCGGCGGGTCTATGACTATCACTGGCAACATCTACATCTACAATGGACCAGTACTG
GGGGGACCACCGGGTCTTGAGACCTCCCAGCTACCCCCGAACCTCCATACCCCATTTCCGAAGAGGGGGACCT
GGCCCTCCCCGGGCTCTCTACACCCACCAGGAAGATGGCAAGGCTTGGCACCTAGCGGAGACAGAGCACTGTGGT
GCCACACCTCTAACAGGGGCCCAAGGAACCAATTTATCACCCATGAC**TGAC**GGAGTCTGAGAAAAGGCAGAAGA
AGGGGGGCACAAGGGCACTTTCTCCCTTGAGGCTGCCCTGCCACGTGGGATTACAGGGGCCTGAGTAGGGCCC
GGGAAGCAGAGCCCTAAGGGATTAAGGCTCAGACACCTCTGAGAGCAGGTGGGCACTGGCTGGGTACGGTGCCC
TCCACAGGACTCTCCCTACTGCCTGAGCAAACCTGAGGCCTCCCGGCAGACCCACCCACCCCTGGGGCTGCTCA
GCCTCAGGCACGGACAGGGCACATGATACCAACTGCTGCCCCTACGGCACGCCGCACCGGAGCACGGCACCGAG
GGAGCCGCCACACGGTCACCTGCAAGGACGTCACGGGCCCCCTCTAAAGGATTTCGTGGTGCTCATCCCCAAGCTTC
AGAGACCCTTTGGGGTTCCACACTTCACGTGGACTGAGGTAGACCCTGCATGAAGATGAAATTATAGGGAGGACG
CTCCTTCCCTCCCCCTCTAGAGGAGAGGAAAGGGAGTCATTAACAACCTAGGGGGTTGGGTAGGATTCTTAGGTAT
GGGGAAGAGTTTTGGAAGGGGAGGAAAATGGCAAGTGTATTTATATTGTAACCACATGCAATAAAAAGAATGGG
ACCTAAACTCGTGCCGCTCGTGCCGAATTCCTGCAG

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FIGURE 3477

MLLPWATSAPGLAWGPLVLGLFGLLAASQPQAVPPYASENQTCRDQEKEYYEPQHRICCSRCPPGTYVSAKCSRI
RDTVCATCAENSYNEHWNLYLTICQLCRPCDPVMGLEEIAPCTSKRKTQCRCQPGMFCAAWALECTHCELLSDCPP
GTEAELKDEVGKGNNHCVPCAGHFQNTSSPSARCQPHTRCENQGLVEAAPGTAQSDTTCKNPLEPLPPEMSGTM
LMLAVLLPLAFFLLLATVFSCIWKSHPSLCRKLGSLKRRPQGE GPNPVAGSWEPPKAHPYFPDLVQP LLPISGD
VSPVSTGLPAAPVLEAGVPQQQSPLDLTREPLEPGEQSQVAHGTINGIHVTGGSMTITGNIYIYNGPVLGGPPGP
GDLPATPEPPYPPIPEGDPGPPGLSTPHQEDGKAWHLAETEHCGATPSNRGPRNQFITHD

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FIGURE 3478

CCGGCCAGCGGGCGGGCTCCCCAGCCAGGCCGCTGCACCTGTCAGGGGAACAAGCTGGAGGAGCAGGACCCTAGA
CCTCTGCAGCCCATACCAGGTCTC**ATCG**AGGGGAACAAGCTGGAGGAGCAGGACTCTAGCCCTCCACAGTCCACT
CCAGGGCTCATGAAGGGGAACAAGCGTGAGGAGCAGGGGCTGGGCCCCGAACCTGCGGCGCCCCAGCAGCCACG
GCGGAGGAGGAGGCCCTGATCGAGTTCCACCGCTCCTACCGAGAGCTCTTCGAGTTCTTCTGCAACAACACCACC
ATCCACGGCGCCATCCGCCTGGTGTGCTCCCAGCACAACCGCATGAAGACGGCCTTCTGGGCAGTGCTGTGGCTC
TGCACCTTTGGCATGATGTACTGGCAATTCGGCCTGCTTTTCGGAGAGTACTTCAGCTACCCCGTCAGCCTCAAC
ATCAACCTCAACTCGGACAAGCTCGTCTTCCCCGAGTGACCATCTGCACCCTCAATCCCTACAGGTACCCGGAA
ATTAAAGAGGAGCTGGAGGAGCTGGACCGCATCACAGAGCAGACGCTCTTTGACCTGTACAAATACAGCTCCTTC
ACCACTCTCGTGGCCGGCTCCCGCAGCCGTCGCGACCTGCGGGGGACTCTGCCGCACCCCTTGACGCGCCTGAGG
GTCCCGCCCCCGCTCACGGGGCCCCGTCGAGCCCGTAGCGTGGCCTCCAGCTTGCGGGACAACAACCCCGAGGTG
GACTGGAAGGACTGGAAGATCGGCTTCCAGCTGTGCAACCAGAACAATCGGACTGCTTCTACCAGACATACTCA
TCAGGGGTGGATGCGGTGAGGGAGTGGTACCGCTTCCACTACATCAACATCCTGTGAGGCTGCCAGAGACTCTG
CCATCCCTGGAGGAGGACACGCTGGGCAACTTCATCTTCGCTGCCGCTTCAACCAGGTCTCCTGCAACCAGGCG
AATTACTCTCACTTCCACCACCCGATGTATGAAACTGCTATACTTTCAATGACAAGAACAACCTCCAACCTCTGG
ATGTCTTCCATGCCCTGGAATCAACAACGGTCTGTCCCTGATGTGCGCGCAGAGCAGAATGACTTCATTCCCCTG
CTGTCCACAGTGACTGGGGCCCGGTAATGGTGCACGGGCAGGATGAACCTGCCTTTATGGATGATGGTGGCTTT
AACTTGCGGCCTGGCGTGGAGACCTCCATCAGCATGAGGAAGGAAACCCCTGGACAGACTTGCGGGCGATTATGGC
GACTGCACCAAGAATGGCAGTGATGTTCTGTTGAGAACCTTTACCCCTCAAAGTACACACAGCAGGTGTGTATT
CACTCCTGCTTCCAGGAGAGCATGATCAAGGAGTGTGGCTGTGCCTACATCTTCTATCCGCGGCCCCAGAACGTG
GAGTACTGTGACTACAGAAAGCACAGTTCTTGGGGGTACTGCTACTATAAGCTCCAGGTTGACTTCTCCTCAGAC
CACCTGGGCTGTTTACCAAGTGCCGGAAGCCATGCAGCGTGACCAGCTACCAGCTCTCTGCTGGTTACTCACGA
TGGCCCTCGGTGACATCCCAGGAATGGGTCTTCCAGATGCTATCGCGACAGAACAATTACACCGTCAACAACAAG
AGAAATGGAGTGGCCAAAGTCAACATCTTCTTCAAGGAGCTGAACTACAAAACCAATTCTGAGTCTCCCTCTGTC
ACGATGGTCACCCCTCCTGTCCAACCTGGGCAGCCAGTGGAGCCTGTGGTTTCGGCTCCTCGGTGTTGTCTGTGGTG
GAGATGGCTGAGCTCGTCTTTGACCTGCTGGTCATCATGTTCTCATGCTGCTCCGAAGGTTCCGAAGCCGATAC
TGGTCTCCAGGCCGAGGGGGCAGGGGTGCTCAGGAGGTAGCCTCCACCCCTGGCATCCTCCCTCCTTCCCACTTC
TGCCCCACCCCATGTCTCTGTCTTGTCCCAGCCAGGCCCTGCTCCCTCTCCAGCCTTGACAGCCCTCCCCCT
GCCTATGCCACCCTGGGCCCCCGCCATCTCCAGGGGGCTCTGCAGGGGGCCAGTTCCTCCACCTGTCTCTGGGG
GGGCCCT**TGAG**AGGGGAAGGAGAGGTTTCTCACACCAAGGCAGATGCTCCTCTGGTGGGAGGGTGCTGGCCCTGGCA
AGATTGAAGGATGTGCAGGGCTTCCTCTCAGAGCCGCCCAAAGTGCCTTGATGTGTGGAGGGGAAGCAAGATGG
GTAAGGGCTCAGGAAGTTGCTCCAAGAACAGTAGCTGATGAAGCTGCCCAGAAGTGCCTTGGCTCCAGCCCTGTA
CCCCTTGGTACTGCCTCTGAACACTCTGGTTTCCCCACCCAACTGCGGCTAAGTCTCTTTTCCCTTGGATCAGC
CAAGCGAAACTTGGAGCTTTGACAAGGAACCTTCCCTAAGAAACCGCTGATAACCAGGACAAAACACAACCAAGGG
TACACGCAGGCATGCACGGGTTTCTTGGCCAGCGACGGCTTAAGCCAGCCCCGACTGGCCTGGCCACACTGCTC
TCCAGTAGCACAGATGTCTGCTCCTCCTCTTGAACCTTGGGTGGGAAACCCCAACCAAAAGCCCCCTTTGTTACTT
AGGCAATTCCTTCCCTGACTCCCGAGGGCTAGGGCTAGAGCAGACCCGGGTAAGTAAAGGCAGACCCAGGGCT
CCTCTAGCCTCATACCCGTGCCCTCACAGAGCCATGCCCGGCACCTCTGCCCTGTGTCTTTCATACCTCTACAT
GTCTGCTTGAGATATTTCTCAGCCTGAAAGTTTCCCCAACCATCTGCCAGAGAACTCCTATGCATCCCTTAGAA
CCCTGCTCAGACACCATTACTTTTGTGAACGCTTCTGCCACATCTTGTCTTCCCCAAAATTGATCACTCCGCCTT
CTCCTGGGCTCCCGTAGCACACTATAACATCTGCTGGAGTGTGCTGTTGCACCATACTTTCTTGTACATTGTG
TCTCCCTTCCCAACTAGACTGTAAGTGCCTTGCGGTCAGGGACTGAATCTTGCCCGTTTATGTATGCTCCATGTC
TAGCCCATCATCTGCTTGGAGCAAGTAGGCAGGAGCTCAATAAATGTTTGTGTCATGAAAAAAAAAAAAAAAAA
A

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FIGURE 3479

MEGNKLEEQDSSPPQSTPGLMKGNKREEQGLGPEPAAPQOPTAEEEEALIEFHRSYRELEFFFCNNTTIHGAIRLV
CSQHNRMTAFWAVLWLCTFGMMYWQFGLLFGEYFSYPVSLNINLNSDKLVFPVAVTICTLNRYPEIKEELEEL
DRITEQTLFDLYKYSSFTTLVAGSRSRDLRGTLPHPLQRLRVPPPHGARRARSVASSLRDNNPQVDWKDWKIG
FQLCNQNKSDCFYQTYSSGVDVREWYRFHYINILSRPETLPSLEEDTLGNFIFACRFNQVSCNQANYSHFHHP
MYGNCYTFNDKNSNLWMSSMPGINNGLSMLRAEQNDFIPLLSTVTGARVMVHGQDEPAFMDDGGFNLRPGVET
SISMRKETLDRLGGDYGDCTKNGSDVPVENLYPSKYTQQVCIHSCFQESMIKECGCAYIFYPRPQNVEYCDYRKH
SSWGYCYKQLQVDFSSDHLGCFTKCRKPCSVTSYQLSAGYSRWPSVTSQEWVFQMLSRQNNYTVNNKRNGVAKVN
IFFKELNYKTNSESPVMTVLLSNLGSQWSLWFGSSVLSVEMAELVFDLLVIMFLMLLRFRSRYWSPGRGGR
GAQEVASTLASSPPSHFCPHMSLSLSQPGPAPSPALTAPPPAYATLGPRPSPGGSAGASSSTCPLGGP

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FIGURE 3480

CGGCCCAGTGATCTTGAACCCCAAAGGCCAGAACTGGAGCCTCAGTCCAGAGAATTCTGAGAAAATTAAAGCAGA
GAGGAGGGGAGAGATCACTGGGACCAGGCCGTGATCTCTATGCCCCAGTCTCAACCTCAACTGTCACCCCAAGG
CACTTGGGACGTCTCTGGACAGACCGAGTCCCGGGAAGCCCCAGCACTGCCGCTGCCACACTGCCCTGAGCCCAA
TGGGGGAGTGAGAGGCCATAGCTGTCTGGCATGGGCCTCTCCACCGTGCCTGACCTGCTGCTGCCGCTGGTGCTC
CTGGAGCTGTTGGTGGGAATATACCCCTCAGGGGTTATTGGACTGGTCCCTCACCTAGGGGACAGGGAGAAGAGA
GATAGTGTGTGTCCCCAAGGAAAATATATCCACCTCAAAATAATTGCAATTTGCTGTACCAAGTGCCACAAAGGA
ACCTACTTGTACAATGACTGTCCAGGCCCGGGGCAGGATACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACC
GCTTCAGAAAACCACCTCAGACACTGCCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTTCAGGTGGAGATCTCT
TCTTGACAGTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAAAACCTT
TTCCAGTGCTTCAATTGCAGCCTCTGCCTCAATGGGACCGTGCACCTCTCCTGCCAGGAGAAACAGAACACCGTG
TGCACCTGCCATGCAGGTTTCTTTCTAAGAGAAAACGAGTGTGTCTCCTGTAGTAAGTAAAGAAAGCCTGGAG
TGCACGAAGTTGTGCCTACCCAGATTGAGAATGTTAAGGGCACTGAGGACTCAGGCACCACAGTGCTGTTGCC
CTGGTCATTTTCTTTGGTCTTTGCCTTTTATCCCTCCTCTTCATTGGTTTAATGTATCGCTACCAACGGTGGAAG
TCCAAGCTCTACTCCATTGTTTGTGGGAAATCGACACCTGAAAAAGAGGGGGAGCTTGAAGGAATACTACTAAG
CCCTTGGCCCCAAACCAAGCTTCAGTCCCACTCCAGGCTTCACCCCCACCCTGGGCTTCAGTCCCGTGCCCAGT
TCCACCTTCACCTCCAGCTCCACCTATACCCCGGTGACTGTCCCAACTTTGCGGCTCCCCGCAGAGAGGTGGCA
CCACCTATCAGGGGGCTGACCCCATCCTTGCAGACAGCCCTCGCCTCCGACCCCATCCCCAACCCCTTCAGAAG
TGGGAGGACAGCGCCCAAGCCACAGAGCCTAGACACTGATGACCCCGGACGCTGTACGCCGTGGTGGAGAAC
GTGCCCCCGTTGCGCTGGAAGGAATTCGTGCGGCGCCTAGGGCTGAGCGACCACGAGATCGATCGGCTGGAGCTG
CAGAACGGGCGCTGCCTGCGCGAGGCGCAATACAGCATGCTGGCGACCTGGAGGCGGCGCACGCCGCGGCGGAG
GCCACGCTGGAGCTGCTGGGACGCGTGCTCCGCGACATGGACCTGCTGGGCTGCCTGGAGGACATCGAGGAGGCG
CTTTGCGGCCCCGCGCCCTCCCGCCCCGCGCCAGTCTTCTCAGATTGAGGGCTGCGCCCCCTGCGGGCAGCTCTAAG
GACCGTCTTGCGAGATCGCCTTCCAACCCCACTTTTTTCTGGAAGGAGGGGTCTGCAAGGGCAAGCAGGAGCT
AGCAGCCGCTACTTGGTGCTAACCCCTCGATGTACATAGCTTTTTCTCAGCTGCCTGCGCGCCGCCGACAGTCAG
CGCTGTGCGCGCGGAGAGAGGTGCGCCGTGGGCTCAAGAGCCTGAGTGGGTGGTTTTCGAGGATGAGGGACGCTA
TGCTCAATGCCCCTTTTGGGTGTCTCACCAGCAAGGCTGCTCGGGGGCCCCCTGGTTCTCCTGAGCCTTTTTTC
ACAGTGATAAGCAGTTTTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTAAATCAATCATGTTACACTAATAGA
AACTTGGCACTCCTGTGCCCTCTGCCTGGACAAGCACATAGCAAGCTGAACTGTCTAAGGCAGGGGCGAGCAGC
GAACAATGGGGCCTTCAGCTGGAGCTGTGGACTTTTGTACATACTAAATTTCTGAAGTT

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FIGURE 3481

MGLSTVPDLLLLPLVLLELLLVGIYPSGVIGLVPHLGDREKRDSVCPQGKYIHPQNNNSICCTKCHKGTLYNDPCGP
GQDTCRECESGSFTASENHLRHCLSCSKCRKEMGQVEISSCTVDRDTVCGCRKNQYRHYWSENLFQCFNCSLCL
NGTVHLSCQEKQNTVCTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIENVKGTEDSGTTVLLPLVIFFGLCCL
SLLFIGLMYRYQRWWSKLYSIVCGKSTPEKEGELEGTTTTKPLAPNPSFSPTPGFTPTLGFSPVPSSTFTSSSTYT
PGDCPNFAAPRREVAPPYQGADPILATALASDPIPNPLQKWEDSAHKPQSLDTPATLYAVVENVPPLRWKEFV
RRLGLSDHEIDRLELQNGRCLREAQYSMLATWRRRTPRREATLELLGRVLRDMDLLGCLEDIEEALCGPAALPPA
PSLLR

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FIGURE 3482A

GGGGACTTCCAGAATGGCAAGAGAGTGAGCCTCTCCGTGTATCTTGGGGAATTTTTTGACATCCATTTGTTTGTCT
AATGGTACCGTGACACAGGGGGACCAAAGAGTCTCCATGCCCTATGCCTCCAAAGGGCTGTATCTAGAAACTGAG
GCTGGGTACTACAAGCTGTCCGGTGAGGCCTATGGCTTTGTGGCCAGGATCGATGGCAGCGGCAACTTTCAAGTC
CTGCTGTCTCAGACAGATACTTCAACAAGACCTGCGGGCTGTGTGGCAACTTTAACATCTTTGCTGAAGATGACTTT
ATGACCCAAGAAGGGACCTTGACCTCGGACCCCTTATGACTTTGCCAACTCATGGGCTCTGAGCAGTGGAGAACAG
TGGTGTGAACGGGCATCTCCTCCCAGCAGCTCATGCAACATCTCCTCTGGGGAAATGCAGAAGGGCCTGTGGGAG
CAGTGCCAGCTTCTGAAGAGCACCTCGGTGTTTGGCCGCTGCCACCCCTCTGGTGGACCCCGAGCCTTTTGTGGCC
CTGTGTGAGAAGACTTTGTGTGAGTGTGCTGGGGGGCTGGAGTGCCTCTGCCCTGCCCTCCTGGAGTACGCCCCG
ACCTGTGCCCAGGAGGGAATGGTGTGTACGGCTGGACCGACCACAGCGCTGCAGCCAGTGTGCCCTGCTGGT
ATGGAGTATAGGCAGTGTGTGTCCCCTTGCGCCAGGACCTGCCAGAGCCTGCACATCAATGAATGTGTGACAGGAG
CGATGCGTGGATGGCTGCAGCTGCCCTGAGGGACAGCTCCTGGATGAAGGCCTCTGCGTGGAGAGCACCGAGTGT
CCCTGCGTGCATTCCGGAAGCGCTACCCTCCCGGCACCTCCCTCTCTCGAGACTGCAACACCTGCATTTGCCGA
AACAGCCAGTGGATCTGCAGCAATGAAGAATGTCCAGGGGAGTGCCTTGTACAGGTCAATCACACTTCAAGAGC
TTTGACAACAGATACTTACCTTCAGTGGGATCTGCCAGTACCTGCTGGCCCCGGGATTGCCAGGACCACTCCTTC
TCCATTGTCAATTGAGACTGTCCAGTGTGCTGATGACCGCGACGCTGTGTGCACCCGCTCCGTACCGTCCGGCTG
CCTGGCCTGCACAACAGCCTTGTGAACTGAAGCATGGGGCAGGAGTTGCCATGGATGGCCAGGACGTCCAGCTC
CCCCCTCCTGAAAGGTGACCTCCGCATCCAGCATAACAGTGACGGCCTCCGTGCGCCTCAGCTACGGGGAGGACCTG
CAGATGGACTGGGATGGCCGCGGGAGGCTGCTGGTGAAGCTGTCCCCCGTCTATGCCGGGAAGACCTGCGGCCTG
TGTGGGAATTACAATGGCAACCAGGGCGACGACTTCCCTTACCCCCCTCTGGGCTGGCGGAGCCCCGGGTGGAGGAC
TTCGGGAACGCTTGAAGCTGCACGGGGACTGCCAGGACCTGCAGAAAGCAGCACAGCGATCCCTGCGCCCTCAAC
CCGCGCATGACCAGGTTCTCCGAGGAGGCGTGCAGGCTCCTGACGTCCCCCACATTGAGGCCTGCCATCGTGCC
GTCAGCCCGCTGCCCTACCTGCGGAAGTGCAGCTACGACGTGTGCTCCTGCTCGGACGGCCGCGAGTGCCTGTGC
GGCGCCCTGGCCAGCTATGCCGCGGCTGCGCGGGGAGAGGCGTGCGCTGCGCTGGCGCGAGCCAGGCCGCTGT
GAGCTGAAGTGGCCGAAAGGCCAGGTGTACCTGCAGTGCGGGACCCCTGCAACCTGACCTGCCGCTCTCTCTCT
TACCCGGATGAGGAATGCAATGAGGCCTGCCTGGAGGGCTGCTTCTGCCCCCAGGGCTCTACATGGATGAGAGG
GGGGACTGCGTGCCCAAGGCCAGTGCCTGTTACTATGACGGTGAGATCTTCCAGCCAGAAGACATCTTCTCA
GACCATCACACCATGTGCTACTGTGAGGATGGCTTCATGCACTGTACCATGAGTGGAGTCCCCGGAAGCTTGCTG
CCTGACGCTGTCTCAGCAGTCCCCTGTCTCATCGCAGCAAAAGGAGCCTATCCTGTGCGCCCCCATGGTCAAG
CTGGTGTGTCCCGCTGACAACCTGCGGGCTGAAGGGCTCGAGTGTACCAAAACGTGCCAGAAGTATGACCTGGAG
TGCATGAGCATGGGCTGTGTCTCTGGCTGCCTCTGCCCCCGGGCATGGTCCGGCATGAGAACAGATGTGTGGCC
CTGGAAGGTGTCCCTGCTTCCATCAGGGCAAGGAGTATGCCCTGGAGAAACAGTGAAGATTGGCTGCAACACT
TGTGTCTGTGAGACCGGAAGTGAAGTGCACAGACCATGTGTGTGATGCCACGTGCTCCACGATCGGCATGGCC
CACTACCTCACCTTCGACGGGCTCAAATACCTGTTCCCCGGGGAGTGCCAGTACGTTCTGGTGCAGGATTACTGC
GGCAGTAACCTTGGGACCTTTCGGATCCTAGTGGGGAAATAAGGGATGCAGCCACCCCTCAGTGAAATGCAAGAA
CGGGTCACCATCCTGGTGGAGGGAGGAGATTGAGCTGTTTACGGGGAGGTGAATGTGAAGAGGCCCATGAAG
GATGAGACTCACTTTGAGGTGGTGGAGTCTGGCCGGTACATCATTCTGCTGCTGGGCAAAGCCCTCTCCGTGGTC
TGGGACCGCCACCTGAGCATCTCCGTGGTCTGAAAGCAGACATAACAGGAGAAAGTGTGTGGCCTGTGTGGGAAT
TTTGATGGCATCCAGAACAATGACCTCACCAGCAGCAACCTCCAAGTGGAGGAAGACCCTGTGGACTTTGGGAAC
TCCTGGAAAGTGAGCTCGCAGTGTGCTGACACCAGAAAAGTGCCCTCTGGACTCATCCCCTGCCACCTGCCATAAC
AACATCATGAAGCAGACGATGGTGGATTCCCTCCTGTAGAATCCTTACCAGTGACGTCTTCCAGGACTGCAACAAG
CTGGTGGACCCGAGCCATATCTGGATGTCTGCATTTACGACACCTGCTCCTGTGAGTCCATTGGGGACTGCGCC
TGCTTCTGCGACACCATTTGCTGCCTATGCCCACGTGTGTGCCAGCATGGCAAGGTGGTGACCTGGAGGACGGCC
ACATTGTGCCCCCAGAGCTGCGAGGAGAGGAATCTCCGGGAGAACGGGTATGAGTGTGAGTGGCGCTATAACAGC
TGTGCACCTGCCTGTCAAGTCACGTGTGACACCCCTGAGCCACTGGCCTGCCCTGTGCACTGTGTGGAGGGCTGC
CATGCCCACTGCCCTCCAGGGAAAATCCTGGATGAGCTTTTGCAGACCTGCGTTGACCCCTGAAGACTGTCCAGTG
TGTGAGGTGGCTGGCCGGCGTTTTGCCTCAGGAAAGAAAGTACCTTGAATCCCAGTGACCCCTGAGCACTGCCAG
ATTTGCCACTGTGATGTTGTCAACCTCACCTGTGAAGCCTGCCAGGAGCCGGGAGGCCTGGTGGTGCCTCCACA
GATGCCCCGGTGAGCCCCACCACTCTGTATGTGGAGGACATCTCGGAACCGCCGTTGCACGATTCTACTGCAGC

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FIGURE 3482B

AGGCTACTGGACCTGGTCTTCTGCTGGATGGCTCCTCCAGGCTGTCCGAGGCTGAGTTTGAAGTGCTGAAGGCC
TTTGTGGTGGACATGATGGAGCGGCTGCGCATCTCCAGAAGTGGGTCCGCGTGGCCGTGGTGGAGTACCACGAC
GGCTCCACGCCTACATCGGGCTCAAGGACCGGAAGCGACCGTCAGAGCTGCGGCGCATTGCCAGCCAGGTGAAG
TATGCGGGCAGCCAGGTGGCCTCCACCAGCGAGGTCTTGAAATACACACTGTTCCAAATCTTCAGCAAGATCGAC
CGCCCTGAAGCCTCCCGCATCACCTGCTCCTGATGGCCAGCCAGGAGCCCCAACGGATGTCCCGGAACCTTTGTC
CGCTACGTCCAGGGCCTGAAGAAGAAGAAGGTCATTGTGATCCCGGTGGGCATTGGGCCCATGCCAACCTCAAG
CAGATCCGCCTCATCGAGAAGCAGGCCCTGAGAACAAGGCCCTTCGTGCTGAGCAGTGTGGATGAGCTGGAGCAG
CAAAGGGACGAGATCGTTAGCTACCTCTGTGACCTTGCCCTGAAGCCCCCTCCTCCTACTCTGCCCCCGACATG
GCACAAGTCACTGTGGGCCCCGGGGCTCTTGGGGGTTTCGACCCTGGGGCCCAAGAGGAAGTCCATGGTTCTGGAT
GTGGCGTTTCGTCTGGAAGGATCGGACAAAATTGGTGAAGCCGACTTCAACAGGAGCAAGGAGTTCATGGAGGAG
GTGATTACGCGGATGGATGTGGGCCAGGACAGCATCCACGTCACGGTGTGTCAGTACTCCTACATGGTGAAGTGTG
GAGTACCCCTTCAGCGAGGCACAGTCCAAAGGGGACATCCTGCAGCGGTGCGAGAGATCCGCTACCAGGGCGGC
AACAGGACCAACACTGGGCTGGCCCTGCGGTACCTCTCTGACCACAGCTTCTTGGTCAGCCAGGGTGACCGGGAG
CAGGCGCCCAACCTGGTCTACATGGTACCCGAAATCCTGCCTCTGATGAGATCAAGAGGCTGCCTGGAGACATC
CAGGTGGTGCCCATTTGGAGTGGGCCCTAATGCCAACGTGCAGGAGCTGGAGAGGATTGGCTGGCCCAATGCCCTT
ATCCTCATCCAGGACTTTGAGACGCTCCCCCGAGAGGCTCCTGACCTGGTGCTGCAGAGGTGCTGCTCCGGAGAG
GGGCTGCAGATCCCCACCCTCTCCCCTGCACCTGACTGCAGCCAGCCCCCTGGACGTGATCCTTCTCCTGGATGGC
TCCTCCAGTTTCCAGCTTCTTATTTTGATGAAATGAAGAGTTTCGCCAAGGCTTTCATTTCAAAGCCAATATA
GGGCCTCGTCTCACTCAGGTGTGAGTGTGTCAGTATGGAAGCATCACCACCATTGACGTGCCATGGAACGTGGTC
CCGGAGAAAGCCCATTTGCTGAGCCTTGTGGACGTGATGCAGCGGGAGGGAGGCCCCAGCCAAATCGGGGATGCC
TTGGGCTTTGCTGTGCGATACTTGACTTCAGAAATGCATGGTGCCAGGCCGGGAGCCTCAAAGGCGGTGGTCATC
CTGGTACAGGACGTCTCTGTGGATTGAGTGGATGCAGCAGCTGATGCCGCCAGGTCCAACAGAGTGACAGTGTTT
CCTATTGGAATTGGAGATCGCTACGATGCAGCCAGCTACGGATCTTGGCAGGCCAGCAGGCGACTCCAACGTG
GTGAAGCTCCAGCGAATCGAAGACCTCCCTACCATTGGTACCTTGGGCAATTCCTTCTCCACAACTGTGCTCT
GGATTTGTTAGGATTTGCATGGATGAGGATGGGAATGAGAAGAGGCCCGGGGACGTCTGGACCTTGCCAGACCAG
TGCCACACCGTGACTTGCCAGCCAGATGGCCAGACCTTGCTGAAGAGTCATCGGGTCAACTGTGACCGGGGGCTG
AGGCCTTCGTGCCCTAACAGCCAGTCCCCTGTTAAAGTGGAAGAGACCTGTGGCTGCCGCTGGACCTGCCCCCTGT
GTGTGCACAGGCAGCTCCACTCGGCACATCGTGACCTTTGATGGGCAGAATTTCAAGCTGACTGGCAGCTGTTCT
TATGTCTTATTTCAAACAAGGAGCAGGACCTGGAGGTGATTCTCCATAATGGTGCCTGCAGCCCTGGAGCAAGG
CAGGGCTGCATGAAATCCATCGAGGTGAAGCACAGTGCCTCTCCGTCGAGCTGCACAGTGACATGGAGGTGACG
GTGAATGGGAGACTGGTCTCTGTTCTTACGTGGGTGGGAACATGGAAGTCAACGTTTTATGGTGCCATCATGCAT
GAGGTGAGATTCAATCACCTTGGTACATCTTACATTCACTCCACAAAACAATGAGTTCCAAGTGCAGCTCAGC
CCCAAGACTTTTGCTTCAAAGACGTATGGTCTGTGTGGGATCTGTGATGAGAACGGAGCCAATGACTTCATGCTG
AGGGATGGCACAGTCACCACAGACTGGAACACACTTGTTCAGGAATGGACTGTGCAGCGGCCAGGGCAGACGTGC
CAGCCCATCCTGGAGGAGCAGTGTCTTGTCCCGACAGCTCCCACTGCCAGGTCTCCTCTTACCACTGTTTGCT
GAATGCCACAAGGTCTTGGCTCCAGCCACATTCTATGCCATCTGCCAGCAGGACAGTTGCCACCAGGAGCAAGTG
TGTGAGGTGATCGCCTCTTATGCCACCTCTGTGCGACCAACGGGGTCTGCGTTGACTGGAGGACACCTGATTTT
TGTGCTATGTGATGCCACCATCTCTGGTCTACAACCACTGTGAGCATGGCTGTCCCGGCACTGTGATGGCAAC
GTGAGCTCCTGTGGGGACCATCCCTCCGAAGGCTGTTTCTGCCCTCCAGATAAAGTCATGTTGGAAGGCAGCTGT
GTCCCTGAAGAGGCTGCACTCAGTGCATTGGTGAGGATGGAGTCCAGCACCAGTTCCTGGAAGCCTGGGTCCCCG
GACCACCAGCCCTGTGAGATCTGCACATGCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACG
GCCAAAGCTCCACGTGTGGCCTGTGTGAAGTAGCCCGCCTCCGCCAGAATGCAGACCAGTGCTGCCCCGAGTAT
GAGTGTGTGTGTGACCCAGTGAGCTGTGACCTGCCCCAGTGCCCTCACTGTGAACGTGGCCTCCAGCCACACTG
ACCAACCTTGGCGAGTGACAGACCAACTTCACCTGCGCCTGCAGGAAGGAGGAGTGAAAAGAGTGTTCCCAACCC
TCCTGCCCCCGCACCGTTTGCCACCCCTTCGGAAGACCCAGTGCTGTGATGAGTATGAGTGTGCTGCAACTGT
GTCAACTCCACAGTGAGCTGTCCCTTGGGTACTTGGCCTCAACCGCCACCAATGACTGTGGCTGTACCACAACC
ACCTGCCTTCCCGACAAGGTGTGTGTCCACCGAAGCACCATCTACCTGTGGGCCAGTTCTGGGAGGAGGGCTGC
GATGTGTGCACCTGCACCGACATGGAGGATGCCGTGATGGGCCTCCGCGTGGCCAGTGCTCCAGAAGCCCTGT

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FIGURE 3482C

GAGGACAGCTGTGGTTCGGGCTTCACTTACGTTCTGCATGAAGGCGAGTGCTGTGGAAGGTGCCTGCCATCTGCC
TGTGAGGTGGTGAAGTGGCTCACCAGCGGGGGGACTCCCAGTCTTCTGGAAGAGTGTCGGCTCCCAGTGGGCCTCC
CCGGAGAACCCTGCCTCATCAATGAGTGTGTCCGAGTGAAGGAGGAGGTCTTTATACAACAAAGGAACGTCTCC
TGCCCCCAGCTGGAGGTCCCTGTCTGCCCCCTCGGGCTTTTCAGCTGAGCTGTAAGACCTCAGCGTGCTGCCCAAGC
TGTGCTGTGAGCGCATGGAGGCTGCATGCTCAATGGCACTGTTCATTGGGCCCGGGAAGACTGTGATGATCGAT
GTGTGCACGACCTGCCGCTGCATGGTGCAGGTGGGGGTTCATCTCTGGATTCAAGCTGGAGTGCAGGAAGACCACC
TGCAACCCCTGCCCCCTGGGTTACAAGGAAGAAAATAACACAGGTGAATGTTGTGGGAGATGTTTGCCTACGGCT
TGCAACCATTCAGCTAAGAGGAGGACAGATCATGACACTGAAGCGTGATGAGACGCTCCAGGATGGCTGTGATACT
CACTTCTGCAAGGTCAATGAGAGAGGAGAGTACTTCTGGGAGAAGAGGGTCACAGGCTGCCACCCCTTTGATGAA
CACAAGTGTCTGGCTGAGGGAGGTAAAATTATGAAAATTCCAGGCACCTGCTGTGACACATGTGAGGAGCCTGAG
TGCAACGACATCACTGCCAGGCTGCAGTATGTCAAGGTGGGAAGCTGTAAGTCTGAAGTAGAGGTGGATATCCAC
TACTGCCAGGGCAAATGTGCCAGCAAAGCCATGTACTCCATTGACATCAACGATGTGCAGGACCAGTGCTCCTGC
TGCTCTCCGACACGGACGGAGCCCATGCAGGTGGCCCTGCACTGCACCAATGGCTCTGTTGTGTACCATGAGGTT
CTCAATGCCATGGAGTGCAAATGCTCCCCAGGAAGTGCAGCAAGTGAGGCTGCTGCAGCTGCATGGGTGCCTGC
TGCTGCCTGCCTTGGCCTGATGGCCAGGCCAGAGTGCTGCCAGTCCTCTGCATGTTCTGCTCTTGTGCCCTTCTG
AGCCCACAATAAAGGCTGAGCTCTTATCTTGC

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FIGURE 3483A

TCAGTGGCGTTTGGCCCTGATTCCCGGGGCTGGCTTTCAGCGTAGCAATTCTGCCGGCGAAGAAGGTGAGCGCAG
TGCTGTGTGGCAGCAGAGGTCCCTTAGGACGAGGAACAGCGGGACGAGGAAGGGCAGACTGGTGAAATCGCAAACCT
GGGCGTCTGTTCCCGGCACCGGACCCCTGTTTGCAAAGGTCC**ATGG**CTAATGAAACACAGAAGGTTGGTGCCATCC
ATTTTCCTTTTCCCTTTCACACCCTATTCCATCCAGGAAGACTTTCATGGCAGAGCTGTACCGGGTTTTGGAGGCTG
GCAAGATTGGGATATTTGAGAGTCCAACCTGGCACTGGGAAGTCCTTAAGTCTTATTTGTGGGGCCCTCTCCTGGC
TCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGACGACTCCTTGAAACTGGAAGTGGCCCCCTTACATGATG
AGAAAGATGAATCCCTGTGTCTGTCTTCCCTCCTGCGAAGGGGCTGCAGGCACCCCGAGGCCTGCTGGAGAACCGG
CCTGGGTTACTCAGTTTGTGCAGAAGAAAGAAGAGAGGGGACCTGGTGACCGACTGAAGGTGGAGCAGGCCAGGA
GGAAGCAGCGAGAAGAACGCCTGCAGCAGCTGCAGCACAGGGTGCAGCTCAAGTATGCAGCCAAGCGCCTGAGGC
AGGAAGAAGAAGAAACAGAGAATCTCCTCCGCCTCAGCAGGGAGATGCTAGAGACAGGCCCGGAGGCCGAGCGGC
TGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCCTCGCCGAATACGAGAGTGATGAGGAGAAAAAGGTGGCGA
GCAGAGTGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAGATTTATCACTGTAGTCGGACACACT
CCCAGCTGGCCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAGGATGTTTCGGCTGGTCTCCCTCGGCT
CCCGGCAGAACCTTTGTGTAAATGAAGACGTGAGAAGCCTAGGTTCTGTGCAGCTTATCAACGACCGCTGCGTGG
ACATGCAGAGAAGCAGGCACGAGAAGAAGAAGGAGCTGAGGAGGAGAAGCCAAAGAGGAGGAGGCAGGAGAAGC
AGGCAGCCTGCCCTTCTACAACCACGAGCAGATGGGCCTTCTCCGGGATGAGGCCCTGGCAGAGGTGAAGGACA
TGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCCTGTCCCTATTACAGGAGCCGCTTGGCATCCCTGCAG
CCCAGCTGGTGGTGCTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGGCAGGCCCGCCGGCATCCGGCTGCAGG
ACCAGGTGGTGATCATCGACGAGGCGCACAACTGATCGACACCATCACGGGCATGCACAGCGTGGAGGTGACGG
GCTCCCAGCTCTGCCAGGCCATTCCCAGCTGCTGCAGTACATGGAGCGATACGGGAAGCGTTTGAAGGCCAAGA
ACCTGATGTACCTGAAGCAGATCCTGTATTTGCTGGAGAAATTCGTGGCTGTGCTAGGGGGGAACATTAAGCAAA
ATCCCAATACACAGAGTCTGTACAGACAGGGACGGAGCTGAAGACCATCAACGACTTTCTCTTCCAGAGCCAGA
TCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATGATCAGCAGAAAGCTCTTTGGCTTCA
CTGAACGGTACGGAGCAGTGTTCTCATCCCGGGAGCAGCCCAAACTGGCTGGGTTTTAGCAATTCCTGCAGAGCC
TGCAGCCCAGGACGACTGAAGCTCTTGAGCCCTGCAGACGAGAGTCAGGCCAGCGTCCCGCAACCAGCTTCCC
CACTAATGCACATCGAAGGCTTCCCTGGCAGCTCTCACTACGGCCAACCAGGACGGCAGGGTCACTCTGAGCCGCC
AAGGCAGCCTCAGTGAGAGCACCTGAAGTTTTTGGCTCCTGAATCCAGCTGTGCACTTTGCCAAGTGGTGAAGG
AATGCCGGGCAGTGGTCATTGCGGGGGGACCATGCAGCCGGTGTCTGACTTCCGGCAGCAGCTGCTGGCCTGTG
CTGGGGTGAAGCTGAGCGCTGGTGGAGTTTTCTGTGGTACGTGATCCCTCCAGACAACATCTGCCCCCTGTG
CATCTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCACCTTCCAGAAAAGAGACCTGCCTCAGAT**GTGA**TATTCCA
GGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCGTATTCCAGGTGCATCCAGGCCTGTGGCCAGGA
GAGAGGCCAGGTGACAGAGGCCCTGCTCCTCTCTGTGGTTGGAGGAAAGATGAGTGAAGGGATCAACTTCTCTGA
CAACCTAGGCCGGTGTGTGGTGATGGTGGGCATGCCCTTCCCCAACATCAGGTCTGCAGAGCTGCAGGAGAAGAT
GGCCTACTTGGATCAAACCTTCCCAGAGCCCCCGGCCAGGCACCCCCAGGGAAGGCTCTGGTGGAGAACCTGTG
CATGAAGGCCGTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAGAAGGATTTTGCCAGCATAGTGCTCCTGGA
CCAGCGATACGCCCGGCCCTGTCTGGCCAAGCTGCCGGCTGGATCCGAGCCAGTGTGGAGGTCAAAGCTAC
CTTTGGCCCCGCCATTGCTGCTGTGCAGAAGTTTACCGGGAGAAGTCGGCCTCTTCTGTATGGGCAACCACACC
ACCGCCCCGGCGCGTGCCCTTCCCTTGTCTGCCCTCTGGAGACAGTGTTTGTCTGGGCGTGGTCTGCAGGGAT
CCTGTTACAAAGGTGAAACCCAGGAGAGAGTGTGGAGTCCAGAGCGCTGCCGGGACCCAGGCACAGGCGTTAGC
TCCCGTAGGAGAAAAATGCGGGAATCCTGAATGAACAGTGGGTCTGGCTGTCTTGGGGCGTTCCAGGGCAGCTC
CCCTCCTGGAATAGAACTTTCTTTCCATCCTGCATGGCTGAGAGCCAGGCTTCCCTGCTTGGAGTCCGCAGGAGG
CTGTGGCAGCAGTGGCATCCACTGTGGCATCTCCGTCTGCCACCTTAAGAGGCGAGATGGAGCAGGTCCATCT
GCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTCTCTGGTCTCAATTTAAAATGATCCCCG
TGGCCACAGGGCTCCTGCCAGGGGCTTGTACCTTCCCCCTCCTCCTTCCCTGAGTCACTCCTTCAGTAGAAGGCC
CTGCTCTCTATCCTGCCCCACAGCCCTGCCTGGATTTGTATCCTTGGCTTCGTGCCAGTTCCTCCAAGTCTATGG
CACCTCCCTCCCTCTCAACCACTTGAGCAAACTCCAAGACACCTTCTACCCCGACACCAGCAATTATGCCAAGGG
CCATTAGGCTCTCAACATGACTATAGAGACCCCGTATCATCATGGAGACCTTTGTTCTGTGGGAAAATAACCTT
CCCACCTGCAACAGCTGCCCTGTGACTGCGCCTGTCTTCTCCCTCTGACCCAGAGAAAGGGGCCGTGGTTCAG

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FIGURE 3483B

CTGGGATCTTCTGCCACCATCAGGGACAAACCGGGGGCAGGAGGAAAGTCACTGATGCCCAGCTGTTTGCATCCT
GCACAGCTACAGGTCCTTAATTAAAAGTGTACTGTTGGTT

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FIGURE 3484

MANETQKVGAIHFPPFPTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALSWLRDFEQKKREEEAR
LLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAGEPAWVTQFVQKKEERDLVDRLKVEQARRKQREERLQQLQHR
VQLKYAAKRLRQEEEEETENLLRLSREMLETGPEAERLEQLES GEEELVLA EYESDEEKKVASRVEDEDDDLEEEH
ITKIYHCSRTHSQLAQFVHEVKKSPFGKDVRLVSLGSRQNL CVNEDVRSLSG SVQLINDRCVDMQRSRHEKKKGAE
EEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYYRSRLAIPAAQLVVLPHYQMLLHA
ATRQAAGIRLQDQVVIIDEAHNLIDTITGMHSVEVSGSQLCQAHSQLLQYMERYGKRLKAKNLMY LKQILYLLEK
FVAVLGGNIKQNPNTQSLSQTGTELKTINDFLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQP
KLAGFQQFLQSLQPRTEALAAPADESQASVPQPASPLMHIEGFLAALT TANQDGRVILSRQGS LSESTLK FLLL
NPAVHFAQVVKECRAVVIAGGTMQPVSDFRQQLLACAGVEAERVVEFSCGHVIPPDNICPLSSAAGSPTS RWNSP
SRKETCLR

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FIGURE 3485A

TACAATACAGTCTGTTCTCCTCCAGCTCCTTCTTTCTGCAACATGGGGAAGAACAACAACTCCTTCATCCAAGTCTG
GTTCTTCTCCTCTTGGTCCTCCTGCCCACAGACGCCTCAGTCTCTGGAAAACCGCAGTATATGGTTCTGGTCCCC
TCCCTGCTCCACACTGAGACCACTGAGAAGGGCTGTGTCTTCTGAGCTACCTGAATGAGACAGTGAAGT
GCTTCCTTGGAGTCTGTGACAGGGGAAACAGGAGCCTCTTCACTGACCTGGAGGCGGAGAATGACGTACTCCACTGT
GTCGCCTTCGCTGTCCCAAAGTCTTCATCCAATGAGGAGGTAATGTTCTCACTGTCCAAGTGAAAGGACCAACC
CAAGAATTTAAGAAGCGGACCACAGTGATGGTTAAGAACGAGGACAGTCTGGTCTTTGTCCAGACAGACAAATCA
ATCTACAAACCAGGGCAGACAGTGAAATTTCTGTGTTGTCTCCATGGATGAAAACCTTTCACCCCTGAATGAGTTG
ATTCCACTAGTATACATTAGGATCCCAAAGGAAATCGCATCGACAATGGCAGAGTTTCCAGTTAGAGGGTGGC
CTCAAGCAATTTTCTTTTCCCTCTCATCAGAGCCCTTCCAGGGCTCCTACAAGGTGGTGGTACAGAAGAAATCA
GGTGAAGGACAGAGCACCCCTTTCACCGTGGAGGAATTTGTTCTTCCCAAGTTTGAAGTACAAGTAACAGTGCCA
AAGATAATCACCATCTTGAAGAAGAGATGAATGTATCAGTGTGTGGCCTATACACATATGGGAAGCCTGTCCCT
GGACATGTGACTGTGAGCATTTCAGAGAAAGTATAGTGACGCTTCCGACTGCCACGGTGAAGATTCACAGGCTTTC
TGTGAGAAATTCAGTGGACAGCTAAACAGCCATGGCTGCTTCTATCAGCAAGTAAAAACCAAGGTCTTCCAGCTG
AAGAGGAAGGAGTATGAAATGAACTTCACACTGAGGCCCAGATCCAAGAAGAAGGAACAGTGGTGAATTGACT
GGAAGGCAGTCCAGTGAAATCACAAGAACCATAACCAAACTCTCATTTGTGAAAGTGGACTCACACTTTCGACAG
GGAATTCCTTCTTTGGGCAGGTGCGCCTAGTAGATGGGAAAGGCGTCCCTATACCAAATAAAGTCATATTCATC
AGAGGAAATGAAGCAAACCTATTACTCCAATGCTACCACGGATGAGCATGGCCTTGTACAGTTCTCTATCAACACC
ACCAATGTTATGGGTACCTCTCTTACTGTTAGGGTCAATTACAAGGATCGTAGTCCCTGTTACGGCTACCAGTGG
GTGTCAGAAGAACACGAAGAGGCACATCACACTGCTTATCTTGTGTTCTCCCCAAGCAAGAGCTTTGTCCACCTT
GAGCCCATGTCTCATGAACTACCTGTGGCCATACTCAGACAGTCCAGGCACATTATATTCTGAATGGAGGCACC
CTGCTGGGGCTGAAGAAGCTCTCCTTCTATTATCTGATAATGGCAAAGGAGGCATTGTCCGAACCTGGGACTCAT
GGACTGCTTGTGAAGCAGGAAGACATGAAGGGCCATTTTTCCATCTCAATCCCTGTGAAGTCAGACATTGCTCCT
GTCGCTCGGTTGCTCATCTATGCTGTTTTACCTACCGGGGACGTGATTGGGGATTCTGCAAAATATGATGTTGAA
AATTGTCTGGCCAACAAGGTGGATTTGAGCTTCAGCCCATCACAAAGTCTCCAGCCTCACACGCCCACCTGCGA
GTCACAGCGGCTCCTCAGTCCGTCTGCGCCCTCCGTGCTGTGGACCAAAGCGTGCTGCTCATGAAGCCTGATGCT
GAGCTCTCGGCGTCTCGGTTTACAACCTGCTACCAGAAAAGGACCTCACTGGCTTCCCTGGGCCTTTGAATGAC
CAGGACAATGAAGACTGCATCAATCGTCATAATGTCTATATTAATGGAATCACATATACTCCAGTATCAAGTACA
AATGAAAAGGATATGTACAGCTTCCTAGAGGACATGGGCTTAAAGGCATTACCAACTCAAAGATTCTGTAACCC
AAAATGTGTCCACAGCTTCAACAGTATGAAATGCATGGACCTGAAGGTCTACGTGTAGGTTTTTATGAGTCAGAT
GTAATGGGAAGAGGCCATGCACGCCTGGTGCATGTTGAAGAGCCTCACACGGAGACCGTACGAAAGTACTTCCCT
GAGACATGGATCTGGGATTTGGTGGTGGTAAACTCAGCAGGTGTGGCTGAGGTAGGAGTAACAGTCCCTGACACC
ATCACCGAGTGGAAAGGCAGGGGCCTTCTGCCTGTCTGAAGATGCTGGACTTGGTATCTCTTCCACTGCCTCTCTC
CGAGCCTTCCAGCCCTTCTTTGTGGAGCTCACAATGCCTTACTCTGTGATTCTGTGGAGAGGCCTTCACACTCAAG
GCCACGGTCTTAACTACCTTCCCAATGCATCCGGGTCACTGTGCAGCTGGAAGCCTCTCCCGCCTTCTTAGCT
GTCCCAAGTGGAGAAGGAACAAGCGCCTCACTGCATCTGTGCAAACGGGCGGCAAACCTGTGTCTTGGGCAGTAACC
CCAAAGTCATTAGGAAATGTGAATTTCACTGTGAGCGCAGAGGCACTAGAGTCTCAAGAGCTGTGTGGGACTGAG
GTGCCTTCAGTTCTGAACACGGAAGGAAAGACACAGTCATCAAGCCTCTGTTGGTTGAACCTGAAGGACTAGAG
AAGGAAACAACATTCAACTCCCTACTTTGTCCATCAGGTGGTGAGGTTTCTGAAGAATTATCCCTGAAACTGCCA
CCAAATGTGGTAGAAGAATCTGCCCAGCTTCTGTCTCAGTTTTGGGAGACATATTAGGCTCTGCCATGCAAAAC
ACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCCTCTTTGCTCCTAACATCTATGTA
CTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGATCAAGTCCAAGGCCATTGGCTATCTCAACACTGGT
TACCAGAGACAGTTGAACTACAAACACTATGATGGCTCCTACAGCACCTTTGGGGAGCGATATGGCAGGAACCAG
GGCAACACCTGGCTCACAGCCTTTGTTCTGAAGACTTTTGCCCAAGCTCGAGCCTACATCTTCATCGATGAAGCA
CACATTACCCAAGCCCTCATATGGCTCTCCAGAGGCAGAAGGACAATGGCTGTTTCAGGAGCTCTGGGTCACTG
CTCAACAATGCCATAAAGGGAGGAGTAGAAGATGAAGTGACCCTCTCCGCCTATATCACCATCGCCCTTCTGGAG
ATTCTCTCACAGTCACTCACCTGTTGTCCGCAATGCCCTGTTTTGCCTGGAGTCAGCCTGGAAGACAGCACAA
GAAGGGGACCATGGCAGCCATGTATATACCAAGCACTGCTGGCCTATGCTTTTGCCTGGCAGGTAACCAGGAC
AAGAGGAAGGAAGTACTCAAGTCACTTAATGAGGAAGCTGTGAAGAAAGACAACCTCTGTCCATTGGGAGCGCCCT

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FIGURE 3485B

CAGAAACCCAAGGCACCAGTGGGGCATTTTTACGAACCCCAGGCTCCCTCTGCTGAGGTGGAGATGACATCCTAT
GTGCTCCTCGCTTATCTCACGGCCCAGCCAGCCCCAACCTCGGAGGACCTGACCTCTGCAACCAACATCGTGAAG
TGGATCACGAAGCAGCAGAATGCCAGGGCGGTTTCTCCTCCACCCAGGACACAGTGGTGGCTCTCCATGCTCTG
TCCAAATATGGAGCAGCCACATTTACCAGGACTGGGAAGGCTGCACAGGTGACTATCCAGTCTTCAGGGACATTT
TCCAGCAAATTCCAAGTGGACAACAACAACCGCCTGTTACTGCAGCAGGTCTCATTGCCAGAGCTGCCTGGGGAA
TACAGCATGAAAGTGACAGGAGAAGGATGTGTCTACCTCCAGACATCCTTGAAATACAATATTCTCCCAGAAAAG
GAAGAGTTCCCCCTTTGCTTTAGGAGTGACAGACTCTGCCTCAAACCTTGTGATGAACCCAAAGCCCACACCAGCTTC
CAAATCTCCCTAAGTGTCAGTTACACAGGGAGCCGCTCTGCCTCCAACATGGCGATCGTTGATGTGAAGATGGTC
TCTGGCTTCATTCCCCCTGAAGCCAACAGTGAAAATGCTTGAAAGATCTAACCATGTGAGCCGGACAGAAGTCAGC
AGCAACCATGTCTTGATTTACCTTGATAAGGTGTCAAATCAGACACTGAGCTTGTTCTTCACGGTTCTGCAAGAT
GTCCCAGTAAGAGATCTGAAACCAGCCATAGTGAAAGTCTATGATTACTACGAGACGGATGAGTTTGCAATTGCT
GAGTACAATGCTCCTTGACAGCAAAGATCTTGAAATGCTTGAAGACCACAAGGCTGAAAAGTGCTTTGCTGGAGT
CCTGTTCTCAGAGCTCCACAGAAGACACGTGTTTTTGTATCTTTAAAGACTTGATGAATAAACACTTTTTCTGGT
C

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FIGURE 3486

CATCAGCCCAGCCTGCAAGGAGGCGCCACCGGACCTGCACACTCAGGAGCAGACTCAGCTAGATTGGAAGAGAGG
ATGGGAAGACAATGGATGACCTACCTGTGGAGAGAACTACCCATTCCAGAACCTCCTCTCTGCTGAAAGCTGAA
CACTCAATGGGAAGACCTGTTTGCAGAGAGGAGCCAGCCACTCCAGGGTCTCCGTTCTGCTAGAAGCTGAACACT
CGTTGGGACACCCTTGCTGTGGAAAGGACATCCTTACTGTGGAAATGAGCTACTAACTGCAGGAGCTGAGGAGCT
GCACAGCAAGGTTAAAAGAGCTGTAACACAAACAGGGCTGCAACATGCCCCCTTGCTCCCCACAGGGAGAGAAGAG
CTCTGGCCCTCGGAGAAGCCCAGACCTGGGAGCTCCTTGAGCCCGGGCTGTGACTCCCTCTTTGGGGCCCTGGTT
GGCGTCACTGCATTGCGCCAGTGCCACTGTTGGAAGCTGCTTGTG**ATG**CGCCTGGTCCAGGGGGAGCTGTTTGT
GTGTGCCTGGTCCAGCCACCTCATGGAGAGCCTGTGCTGGCACCTGGAGCTGCCCAACCTGGGCAGCAGCTTGTG
TGTGTGACTGCACAGTGGCCACGCTTGCTCACACACCCCTAGCACACCCCTCTGCTCCACCCGCTCTCAATCTCCC
TTGGATCCGGGATCCAGGTTGGTAGCAAGTGCGAGTGGGCAGAAGCAGCCCAGTGGGGCCAGAGCAAACTCAGG
CAAAGGTGCCACTAGACTGGCCAGGAAAGCGACACCCTAAAGATCCCATAATGCTGATATGTT**TA**ATTCTATTCTA
TAAGCACACACAGAAGTGATAGCTTTTATTTCTTATTTTGTCTAGCCTGGAGACAGAGCTAAGGATTCCCTTGAA
CTGCAAAGTCTTTTCCAGTTCTTAGTTTATACAATCCATACTCACCTTCTGCCTAACTAAGCATTGTCATTTTG
TGCCAAATGAAGAGTAGGACTCCTACGATTGTCTCAGACTCTCTTGCTCAATCCTCCTGCTTTAACCTTTCT
ACTTCAAAACTCCTGAAGTTTTGCTTCCCCTTCTATAGAATGGAAATATATGTCGCAATACTTACTGCAAAGAA
AATTATATATTTTAAAAATAGACTAAAGAGATGTTGTGAGACATCAGACATCAATCAGATGTTGTGAGAACTGAT
TTCTGCATCAGAATATCTCCTTGACTTTACAGCTATCCTTTAATCCTGGCTCAAAGTTCAGAAAGAAAGATGATC
CAATATAATACTCCTATTTGGACTTTGAGTCATACACATTCTTCTTCTGAGAAAACGTGCTTCTGCATGAATCC
TCCCTTCATTATTTTTCAGCTCATCTATTATTGAATCTGAAACCCCAGGTTAACTGACTGATCACTCTCATCAGTG
GCAGATTTTGGTGTAACATAGGACACATCACTCCCAATTGAGGTCAAGTCCCAATTATCTTGCCTCTCAATATGA
CATGTTCAATGTTGTATTTTCACTTCTACTTCATTTTAAATGTAAAAAGTCTTTTCTGGTGAAGTCAGTCTTTTATTT
TCTCATAAAAATTCACCCTTTGGGTTTTTCATAGGGTATTCCCATAACCAAACACACTTTTACACTTTTCTAGTAC
ATAACCCAATACTTTCTTCTTTCCCCACAGTCCTTACATGAAGCCTACTCAGACCGACATCACTGTATCATTTTT
TTGTATTCTGAAGTCCTTCAGCACTTGATTCTTTAAGTTTAAATCTTGGTATTCTATTGGGAATCATATGGAAAT
GTACAATGATATTTATTGAATGAACAGGAAACAGGGAAAGACATTGACCAGAAAAAGTGTTTATTTCATCAAGTCT
TTAAAGATACAAAAACACGTGTCTTCTGTGGAGCTCTGAGAACAGGACTCCAGCAAAGCACTTTTTCAGCCTTGTG
GTCTTCAAGCATTTTCCAAGATCTGTGACATTGGAAAGAAAAAAATTAAGACAGATTGGGTCTCCATGAGCAGA
GAGTATTCTTTCCCTTAGTTCTGGGTAGCATAGTGCCCAAGGAAACCTAATCAGTACAGTGGGAAACCAAATCTA
TTCCAAATCATTACCCATAAGCAATCCTATGGACTCTCTGAGGTTTGACAGAGTCAGCGGCCCTCTCCAATAAAT
GTGTTTTTCTAT

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FIGURE 3487

MRLVQGEAVCCVFGPATSWRACAGTWSCTWAAACVCDCTVATLAHTPLAHP
SAPPVSISLGSGIQVGSKEWAE
AAQWAQSKTQAKVFLDWPGKRHPKDPIMLIC

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FIGURE 3488

ACTCGAACCCCTACCCGGGAGCGGTCAGGCGCGTGACCCCGCGTGACCGGGGTGCGCGAGCCGAGAGGCCCTGGAA
GCGGGACTCTGGGACCCCATTTGAAAGAAAGGCAACCAGAAAAGGCGAAACGACAACCTCGATAGTGATTGGAGCT
GATGGAACGAGGGCGGAGCTAAAGTCCCAGAATACTGGCCAATCAGAGTTTAAGATTATCAGGGAGCCCGGGAAG
GGGAAAGGGGCGAAATGGTTCTATGGTCACATGCCGCGGGGTCTGGTGGGAGGAGCGGTTGCCAGCGGCCTCTT
GGCGCTTCCTGTTTCCGGTTCCCAGAGTGGGGCACAGCGAGGCGCTAGGGGGGAACGCTGGCCTCTGAAACTAGCT
CTGGGACCGGGGTCTGCGGCCGGCCCTAGCTGGCCCCGTCTCCCATCCCCAGAAGGGTATTCACTGGGGATTCT
GAGCTTTGGCTACTCCAGTTTCCCACGACACGTGAGTGTGAGGGGCGTGAGGAGGAGGCGGGCTGGGTTGCGCT
CACACTTAAGCGTCTGTGACAGGAGCCGGAATCGCATTCTCCCTTGACCATGGTTCTAGCCAAAGATCTGGCTGA
GGAGCCCTAAGGGTAGAATGGAGGCGGAGGCATGAGAGCGGAGAGTCAACGGAGTTCCGAAAGGTGTGAGGGAGAA
AGGACTTCCAAGACCAGAGAGGGGATTTACGATATTTAGAAAAGCAGGGAAAGGAAAATACCCCAAGTATGGAGTC
CGTTGGAGGTGTGGTGGATTTATTTGTAGGAGGAATTTTGGCCTGCATCACGGTGGGAGGTCAAGTGGCATCAT
TTGGAGAGGGTATGGCTACAAGCGCTTGGAAGTTCGGACACTAGACAGAGCGAGAATTTCTGGCACCCCTGGGAG
AGCTTTGAGGGGGATGCGACTGTGGTGTGGATAAGAATGGCTGATGGACGGATTATCTTGTGTTCTCTCGTTGTGG
GGAGCTTCCGCTCTTGGGACATAGCCGCTACTTGTCTGAGGCTCCTTCTCTCTTGAGTTCTTTTACGATTAGGCC
TTTTAGCCAATTGAGGCTGCTTTTCTAAACATGTAGGCTGCTGGAGAAAAAGGATAAGGACTGCTACATCAGAA
AGGAGCCAGCGGGAAGACAGTAGAAATTCCACTGGTAAATGGCCATGGCTGTCTTAACAGATGGGGAAGTGAGTG
CTACAGAGGCCCAGTGGTGTAAAGTGTCTTCCAGTTGCTGGCTTAGTCATTGGCCACCCTAATAAAGGATAATTT
TTAGCATTGCCAAATAAAATAGATCTGTCTGTAGAGAATAAGAAAAGTGAAGATTTTTCAAGATCATAAAATCC
TGCTCCTTATTTCCAAAGTATATAGACAACTCTTGTACCTTGAGAATCTAATTGTAGCATATTTAAAGGGGGCT
ACTGGGCCCTTCCATTTCACTTCTCTTCTGATTGTTGCACCCCTATGTTTATAAGTTTTCCAGCAGTTATCTTTA
TGCCACGAATCGTCTAAATTGCCCCAGTAACTTCACACACATTTAATATCTGTGTAATGTACAGCAAGTAATTTA
ACAAGTAATTCTGTAAAGCATCAGTTTTCTCATCTGTGAAGTATGAAAAATTATACCTATTTTCTGGGTTGTGAA
GATGAATGAACATAATCTAGGGAAAACATTTAGCGCATATGCCACTGAATTAAAGAGAAGCAGCTTAAATTTAAA
GACAAGCCTTAAGCAGGAAAAGAATAACAGTATAAATTTATTATCCTAACTTTTTGAATAATAAGCAAATGAAA
GATAGTTCAACTCAGCTAATGGCTGAGGTGTTTAACCTTTCATCCCTTCCTAATTTTGTGAGATTCTTGTCTA
ATTTAGGAAAAGAAATCAACTGTCAGTTTTTAATTAGGTCCTGAGAGACTGGAAAGGAAAATGGCAGGCTAAGTC
AGTCTAGAAGAAGGAGTCTCCTATTTCTTTTTAGTGAGTCAGCTGGTCAAGTTGTGTGTTGAGCAGTGGGTTAAC
TTAGGGAAGGTGGGAGTTGGAGGTCTGAGTTCTTTATTTACCTCCTATTCAGTCAACTGTGTGAGGAATCACTT
CCCCCTTCACTTCTTAGT

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FIGURE 3489

TTCCGGTTCCCAGAGTGGGGCACAGCGAGGCGCTAGGGGGAACGCTGGCCTCTGAACTAGCTCTGGGACCGGGG
TCTGCGCGCGGCCCTAGCTGGCCCCGTCTCCCATCCCCAGAAGGGTATTCACTGGGGATTCTGAGCTTTGGCTA
CTCCAGTTTCCCACGACACGATGTTCCCTTTCTACAGCTGCTGGAGGACTGGACTGCTACTACTACTCCTGGCTG
TGGCAGTGAGAGAATCCTGGCAGACAGAAGAAAAAAGCTTGGCAGCTGGTAGGAGAAAAGGGTAAAGAGTCAGAGA
AAGAGTTGGCTCTAGTGAAGAGGCTGAAACCACTGTTTAATAAAAAGCTTTGAGAGCACTGTGGGCCAGGGTTCAG
ACACATACATCTACATCTTCAGGGTGTGCCGGGAAGCTGGCAACCACACTTCTGGGGCAGGCCTGGTGCAAAATCA
ACAAAAGTAATGGGAAGGAGACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCA
TGCTGATCTATAAAGGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGTGGTGATGATCT
CCTGCAATCGACACACCCTAGCGGACAATTTTAACCCTGTGTCTGAGGAGCGTGGCAAAGTCCAAGATTGTTTCT
ACCTCTTTGAGATGGATAGCAGCCTGGCCTGTTTACCAGAGATCTCCACCTCAGTGTGGGTTCATCTTACTTG
TCACGTTTGCATCACTGGTTGCTGTTTATGTTGTTGGGGGGTTCCATACCAGCGACTGGTAGTGGGAGCCAAAG
GAATGGAGCAGTTTCCCCACTTAGCCTTCTGGCAGGATCTTGGCAACCTGGTAGCAGATGGCTGTGACTTTGTCT
GCCGTTCTAAACCTCGAAATGTGCCTGCAGCATATCGTGGTGTGGGGGATGACCAGCTGGGGGAGGAGTCAGAAAG
AAAGGGATGACCATTTATTACCAATGTAGATTGCACCTTTATATGTCCAGCCTCTTCCTCAGTCCCCCAAACCAAA
GCTACACAGCCAGATTTCTCAAGCAGTCTCAACTCCAGTCCCTCATCTCACCTTACTATTGCTCTTGCTTTCCA
GTTTGCTTTTGATTTGCATCTTCTCACTAGTAAACTGCCTTCCCTTTGTTCCTTATTTTCTGTTTTTCTCTAG
AGAGGTACAGTTGTAAGTCAGAGTTAATATAATAGGGCCTGTGAAAACAGAGGCTTTTGCATTGTCTCTTGACAT
CAGAAGTTACAATAGGCATATGGGCAAAATGGTGTAGCAGGCTCACTGGCCGTTTGTTTTTTAAACACATTTTCA
CAAGTTTTTGGAGACACTGGATTCTTTAATTAATAAAAAAATGCCAAGAAACATTATTTATACAGGGTTGATTGC
TTTCATGTTGTTATTCTGTACCCTATAGTAGCCTCCATGAGAATCTGGTATTTCTTGCTGCTTGGAACACTTTG
CAGTGATTACTTGGTTGCAGTCCAAGTACTCTCGTTTAGTCTGAGCCTGGAGATGTTCTAGACTTGCTTCTCCCA
CCTCTGAGATTAGGACAGGAAAAATGTGAAATTTCCCAATTACAGGATTATACGGTACCATCACATCATTGTGG
AAATTGGGGTGAAGTGTATAGCTGGGATTGGGCTAAGGACTGTGGTCTTATCTGTCCACATACAGCCAAAATGCCT
ATCCAGAAATCCAGTTCGTTGGAAAGGAAAATTTGGTACTCCTGTGCCACAGGGGTTCCAGAAAAGGGAAGTCACT
TTACCTTGCGGTGGTGGGATCCTGATGTCTTTTCATCCATTTGTAGTAAAAGCTGGTAAAGCTTTTCTTACTCCTG
GTTCCCTACCAGTATTTCTAAACATGTGCGCACTTTCTCCACAGGCATGTGGTTTTGACCTTTTTTCAATCTTCT
AGAAAGGGAACGGAAGCAGAAGTGGGACATCGAGGGCTCTGCTGTCTCTGCGCTGGGTGTGGAATGCTGCTGCA
CCTGTCCCTTCTGCTGGCTCAGGGAAAGTGTCTTCTGCCACATTTCTGTGGGGAAAGGTTTTTAATCCTCTGAT
GCTTCCATCTTCTGTTTAGGCCATGTGCCAGAAACCTGGACTGATCTTTCTTTAATAGTGAACCCCTGGGCCA
CTGAAGAGTAACATGGCTCCACTGGACACAAAAGAGGGATGGAATCAACAGGCAGGGGGCCTTTTATAAGCCTTA
GGAAAAGAAAATGAAACTATTTTCATCTTTGGACTTTTCAATACTATTGGAGTGATTTTTTCTTTCTAAACAGGG
AAAAATAATGTTACAAAAGCATCTTTTTTGTATTGTGTCATCCCTCCCCACACCCTGGTGTTTTAAATGAA
GAAAAAAACCATCACCTTTTGTACAAAACTCTTAATGATTAAAAAACAAACA

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FIGURE 3490

MFPFYSCWRTGLLLLLLAVAVRESWQTEEKTCDLVGEKGKESSEKELALVKRLKPLFNKSFESTVGQGSPTYIYIF
RVCREAGNHTSGAGLVQINKSNGKETVVGRNLNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRVVMISCNRHTL
ADNFPVSEERGKVQDCFYLFEMDSSLACSPESHLSVGSILLVTFASLVAVYVVGGLYQRLVVGAKGMEQFPH
LAFWQDLGNLVADGCDFVCRSKPRNVPAAYRGVGDDQLGEESEERDDHLLPM

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FIGURE 3491

CTGAGCTGTCCCTGCAGGACTCCAGTGGAAGTGAAAGAACTGGGCACCGGGGAAAAGCTAGGATGTCCACACTC
CTACACCATGCAGGGAACCTCGGGCACAGGCCGGCTGGGCCGGGATCAGATGGGAAGCAGAAGCTCATCATGACCA
GAAACTGTTTTCCCTACGGAGAGCACTTGGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACACACGACTCT
AACGGGATTGTAAGAATCAAGTCACTCTCATGGGAAGAATTTTTATATGGGAAAGCGGCTAAACTTTTCATTGGA
CTGGAATGTTTGGAGATTGTTAAATTCCAAATCAGGAACCAAACTGCCCTCTAATAAGATATCAGCTGTCTAA
GCGTGTGGGTGCCGCCCTTTCTGCCAGTAGTTCTGGTTCTTAAGAAAAGCACCATAAATCAGACATGAAAATTCTG
GCTCCAAAAATAGCATTTTTCTTTGTGCAAATAAAAACGTGTGTATCAAGTATGACGTTCCCCAACGTGGACACA
CTTGGTTTCTCAGAAAGCCAAGCCCGCTGCAGCTGCCACATCCCAGGGCTTATGGTGCAGCAGGTGCTTTTTTCA
AGACAGGAATCAAAGTGTTAGGAACACGGCAGACAGGTGACACCTGGATACCAAATGCAGGATGAGGAGTACTGC
AGAGGTCACAGGGAAGTCACAGAACAGTAATACGCTAGCAGGGGCATGGGGCGTGAAGAACAGAAGAAGACAGTT
TGAGAAAAGCATCTGCAAAATGCTAAAGAGCAGAGCTTACCTCATTGCCTGTCCCCATCTCATCCCAGGTCACCA
CCTGGCTGACCCAGGTCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTCACTTGGACTTGAGACC
CTTCACAACCCAGCAGCGCTCCGCCTCCAACGTGACATCATGCTTTCTGGAACTTCCCCGTATGTCCCACTTTC
CCACACTTGGTGCCCTGGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCCTGTGAGCACCCCTCCTCTCGGCC
TCTGGCCAACACAGTCCCACCCATCTGTGGGTAACAAACGGGTGTGTGTGTTCTTTTCAGCCTTGCTAAACTGTC
TGAATCAAGGATCACAACTACAGCCTGCAGGCCAAAGCCAGCCCACAGCCTGTGTTTGTAATAAAGCTTTATT
GGAACAAAGCCACACCCCTTAATCTACAGATGATCTGTGGCTACTTTACACCACAACAGAGTACCATGGTTCTG
ACAGAGACTGGGGGACCCTGTCTAAATGACTTCTGACCTGGACCTTTACTGAAAATCCTCCCAATCATTCTGTTG
ACAAGAATGGTGTATTACTTTTTGCAATAAGAAACAAGTAACCTTTGCAGAATTCACCCCATCTTTCAAGGCTGA
TCCCAGAAGTTCCCTCTGCCCACGCACCTACCTGATCCTGATCACTTCCCTAAACTGCAGCCCCGGCCACCCGGCT
CCAGCATCATTGTGGAGTCTCAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCCTAATTTTTCCCGAGCCT
ACTGTACCGAAACAGGACAGCAGAGTAGGAAGCCTCTGTGACTTCTGCTCCCTCCCTAGCTTTTCCACCAGACCC
TGCATGGTCCCACCCTGGCTGTGTGAAGCAGGGATCAGGGAGCGTGGCTCGATGTCAGTCTCCAGAACCCTGTCC
ACCCTGGCGTGGTGGCAGACATGGCTACCTGCAGCTGAGCTGCCAGTTCCCTCTGAGTCCTCAAAGACCAGGCCAT
TTTCTTTATGTTTACCAGCTCATGTAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACAC
CAGACCCCTGGGGTGCCAGCTGGGCTCCCACCCACCCACGCTCAAGCCAGGCTGGGGGTGGAACAGGGGGTG
TGTTTCTGGGAGCTGGTTCTTAGATTGTCATCTGAAGGTATAAAGCCCTGGGGGGGTGCACATCAAATGA
CCAAATCGATTTGAGGAGAGAGCCTTAAGGAAGGTTTGTACCTTCTGTGCTGGATGCTCTTCAAGGACTGAAGAA
TTATTTTTGCATGTTTTTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCAC
ATAAAAGATGACTTTTCTAGGACACC

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FIGURE 3492

MVPPWLCEAGIRERGSMSVSRTLSTLAWWQTLWPAAELPVPLSPQRPGHFLYVSPAHVNCRENQGSLRAAWGRHQ
TPGVPSWAPTHPTLKPGWGLEQGVWFLGAGS

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FIGURE 3493A

GTGGGGTGGGGTGGGGCTGGGGGCTTGTGCCCCCTTCAGGCTCCACCCTTTGCGGAGATTATAAAATAGTCATGAT
CCCAGCGAGACCCAGAGATGCTGTAATGGTAAGACTTTGGATCCTTCCTGAGGACGTGGAGAAAACCTTGCTGCTG
AGAAGGACATTTTGAAGGTTTTGTTGGCTGAAAAAGCTGTTTCTGGAATCACCCCTAGATCTTTCTTGAAGACTT
GAATTAGATTACAGCGATGGGGACACAGAAGGTCACCCCAGCTCTGATATTTGCCATCACAGTTGCTACAATCGG
CTCTTTTCCAATTTGGCTACAACACTGGGGTCATCAATGCTCCTGAGAAGATCATAAAGGAATTTATCAATAAAAC
TTTGACGGACAAGGGAAATGCCCCACCCTCTGAGGTGCTGCTCACGTCTCTCTGGTCCTTGTCTGTGGCCATATT
TTCCGTCGGGGGTATGATCGGCTCCTTTTCCGTCGGACTCTTCGTCAACCGCTTTGGCAGGCGCAATTCAATGCT
GATTGTCAACCTGTTGGCTGTCACTGGTGGCTGCTTTATGGGACTGTGTAAAGTAGCTAAGTCGGTTGAAATGCT
GATCCTGGGTGCTTGGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCCCATGTACATTGGAGAGAT
CTCGCTACTGCCCTGCGGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATCGTTGTTGGAATTTCTGGTGGCCCA
GATCTTTGGTCTGGAATTCATCCTTGGGTCTGAAGAGCTATGGCCGCTGCTACTGGGTTTTACCATCCTTCTCTGC
TATCCTACAAAGTGCAGCCCTTCCATTTTGCCTGAAAGTCCCAGATTTTTGCTCATTAAACAGAAAAGAAGAGGA
GAATGCTAAGCAGATCCTCCAGCGGTTGTGGGGCACCCAGGATGTATCCCAAGACATCCAGGAGATGAAAGATGA
GAGTGAAGGATGTACAAGAAAAGCAAGTCACCGTGCTAGAGCTCTTTAGAGTGTCCAGCTACCGACAGCCCAT
CATCATTTCCATTGTGCTCCAGCTCTCTCAGCAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAAT
CTTCAAGGATGCAGGTGTTCAAGAGCCCATCTATGCCACCATCGGCGCGGGTGTGGTTAATACTATCTTCACTGT
AGTTTTCTCTATTTCTGGTGGAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTTG
TTCCACGCTCATGACTGTTTCTTTGTTATTAAAGGATAACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTAT
CTTGGTCTTTGTAGCCTTCTTTGAAATTGGACCAGGCCCATTCCTTGTTTTATTGTGGCCGAACCTCTTCAGCCA
GGGCCCCCGCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTCCTAGTCGGATTGCTCTT
CCCCCTCCGCTGCTCACTATTTAGGAGCCTACGTTTTTATTATCTTCACCGGCTTCCTCATTACCTTCTTGGCTTT
TACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGAGGATATCACACGGGCCTTTGAAGGGCAGGCACA
CGGTGCAGATAGATCTGGAAAGGACGGCGTCATGGAGATGAACAGCATCGAGCCTGCTAAGGAGACCACCACCAA
TGTCTAAGTCGTGCCTCCTTCCACCTCCCTCCCGGCATGGGAAAGCCACCTCTCCCTCAACAAGGGAGAGACCTC
ATCAGGATGAACCCAGGACGCTTCTGAATGCTGCTACTTAATTCCTTCTCATCCCACGCACTCCATGAGCACCC
CAAGGCTGCGGTTTGTGGATCTTCAATGGCTTTTTTAAATTTTATTTCTTGACATCCTCTTCTGCTTAGGAGAG
ACCGAGTGAACCTACCTTCATTTAGGAGGGATTGGCCGCTTGGCACATGACAACCTTGGCAGCTTTTCTCCCT
TGGGTTCTGATATTGCCGCACTAGGGGATATAGGAGAGGAAAAGTAAGGTGCAGTTCCCCAACCTCAGACTTAC
CAGGAAGCAGATACATATGAGTGTGGAAGCCGGAGGGTGTATTATGTAAGAGCACCTTCTCCTCACTTCCATACAGCT
CTACGTGGCAAATTAACCTGAGTTTTATTTATTTATCCTCTGGTTTAATTACATAATTTTTTTTTTTAACTTT
AAGTTTCAGGATACATGTGCCGAATGTGCAGTTTGTACATAGGTATATATATGCCATGATGGAATATTTATT
TTTTTAAGCGTAATTTGCCAAATAATAAAAACAGAAGGAAATTGAGATTAGAGGGAGGTGTTTAAAGAGAGGTT
ATAGAGTAGAAGATTTGATGCTGGAGAGGTTAAGGTGCAATAAGAATTTAGGGAGAAATGTTGTTTATTATTGGA
GGGTAAATGATGTGGTGCCTGAGGTCTGTACGTTACCTCTTAACAATTTCTGTCTTCAGATGGAACCTCTTTAA
CTTCTCGTAAAAGTCATATACCTATATAATAAAGCTACTGATTTCTTTGGAGCTTTTTTCTTTAAGATAATAGT
TTACATGTAGTAGTACTTGAAATCTAGGATTATTAATAATATGGGCATTGTAGTTAATGATGGTTGATGGGTTT
TAATTTTGGATGGAGTCCAGGGAAGAGAAAGTGATTTCTAGAAAGCCTGTTCCCTCACTGGATGAAATAACTCC
TTCTTGTAGTAGTCTCATTACTTTGAAGTAATCCCGCCACCTATCTCGTGGGAGAGCCATCCAAATAAGAAACC
TAAATAAATTGGTTCTTGGTAGAGATTCATTATTTTCCACTTTGTTCTTTAGGAGATTTTAGGTGTTGATTTTC
TGTGTATTTTAACTCATACCTTTAAAGGAATCCCCAAAGAATGTTTATAGCAAACCTTGAATTTGTAACCTCA
GCTCTGGGAGAGGATTTTTTTCTGAGCGATTATTATCTAAAGTGTGTTGTTGCTTTAGGCTCACGGCACGCTTGC
GTATGCTGTATTACCATGTCACTGTGGTCTATGCCGAATGCCCTCAGGGGACTTGAATCTTTCCAATAAACCAGG
TTTAGACAGTATGAGTCAATGTGCAGTGTAGCCACACTTGAGAGGATGAATGTATGTGCACTGTCACTTTGCTC
TGGGTGGAAGTACGTTATTGTTGACTTATTTTCTCTGTGTTTGTTCCTACAGCCCCTTTTTCATATGTTGCTCAG
TCTCCCTTTCCCTTCTTGGTGTCTTACACATCTCAGACCCTTTAGCCAAACCCTTGTGAGTGACAGTATTTTGGTT
CTTAGTTCTCACTGTTCCCTCTGCTCCTGGAGCCTTTGAATAAAAATGCACGTAGCTGAGGCCGATGCGGTGGC
TCACGCTGTAAATCCAGCACTTTGGGAGGCCTAGGCGGGCGGTGAGGGGTTGAGACCAGTCTGGCCAACATCG
TGAAACCCTGTCTCTACTAAAAATGCAAAAATTAGCCGGGCGTGGTGGCGGGCGCTGTAATCCAGCTACTTGG

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FIGURE 3493B

GAAGCTGAGGCGGGAGAATCATGTGAACCCGGGACGCAGGGGTTGCAGTGAGCGGAGATCGCATCATTGCACTCT
AGCCTGGGCCACAGGGCGAGACTCCGTCTCAAAAAAAAAAAAAATGCACATAGCTATCAAGTGTGCTTTAGCTTGA
AAAGGTGACCTTGCAACTTCATGTCAACTTCTGGCTCCTCAAACAGTAGGTTGGCAGTAAGGCAGGGTCCCATT
CTCACTGAGAAGATTGTGAATATTTCCATATGGATTTTCTATTGTTACTCTGGTTCTTTGTTTTAAATAAAAAAT
TCTGAATGTACACG

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FIGURE 3494

GGCCAAGGCAAGATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACAAGCTCTAA
CAACTCAAGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTACAGTGGGGAAAAAGAAGAAAAACAAAG
GGACCAGATGCTGCCAGCAAACCTGCCACTGGTGACACCTCACACTCAGTGCCAGTTAAAATTACTGAAGTTAGAG
AGAATTAAAGACTATCTTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAAG
CAAGAAGGGAAAAAGATCAAAAGTGGATGATCTGAGGGGGACCCCAATGTCAGTAGGAATCTTGGAAGAGATCATT
GATGACAATCATGCCATCGTGTCTACATCTGTGGGCTCAGAACACTACATCAGCATTCTTTCATTTGCAGACAAG
GATCTTCTGGAACCTGGCTGCTCGGTCAGGCTCAACCACAAGGTGCATACCATGATAGGGGTGCTGATGGATGAC
ATGGATCCCCCTGGTCACAGTGATGAAGGTGGAAGGCCCCCCCAAGAGACCTATGCAGATACTGGGGGGTTGGAC
AACCAAATTCGGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCATCCTGAATATTATGAAGAGATGGGTATA
AAGCCTCCAAGGGGGTCATTCTCTGTGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGCAAACC
AAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTTATTGAGAAAGTACCTAGGTGATGGGCCCAAACCTCG
GACGGGAATTGTTTCGAGTTGCTGAAGAACGTGCACCGTCCATTGTGTTTATTGATGAAATTGACGCCATTGGGA
CAAAAAGATATGACTCCAATTCTGGTGGTGAGAGAGAAATTCAGCGAACAACGTTGGAACCTGCTGAACCAGTTGG
ATGGATTTGATTCTAGGGTAGATGTGAAAGCTATCATGGCCACAAACCAATAGAACTTTGGATCCAGCGCTTA
TCAGACCAGGCCGCATTGGCAGGAAGATTGAGTTCCCCCTGCCTGATGAAAAGACGAAGAAGCCCATCTTTCAGA
TTCACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTGCACGACTTGATCATGGCTAAAGATGACCTCTCTG
GTGCTGACATCAAGGCAGTCTGTACAGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGTAACAAATG
AAGACTTCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAACAGGAAGACACCCCTGAGGGGCTGTATCTCTAGT
GAACTACGGCTGCCATCAGGAAAATGGTTGGGTGATTTCTCAGTCCCTGAAAGGGATGAGGCTGGGGGAGTTGCC
CAGAGGAATCTCTGTTCCCATTTGATTTTTATTAGCAAAACATCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCC
CACTGGGTGGCCTGTCTGTTGGTCACTGTGCAGCAGTCTGCTTCCCAATAAAGCGCGCTCTTTCACAA

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FIGURE 3495

GCAAAC TGCCACTGGTGACACCTCACACTCAGTGCCAGTTAAAATTACTGAAGTTAGAGAGAATTAAAGACTATC
TTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAAGGGAAAAGAT
CAAAAGTGGAATGATCTGAGGGGGGACCCCAATGTCAGTAGGAATCTTGGAAGAGATCATTGATGACAATCATGCCA
TCGTGTCTACATCTGTGGGCTCAGAACACTACATCAGCATTCTTTTCAATTTGCAGACAAGGATCTTCTGGAACCTG
GCTGCTCGGTCAGGCTCAACCACAAGGTGCATACCATGATAGGGGTGCTGATGGATGACATGGATCCCCTGGTCA
CAGTGATGAAGATTCGGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCATCCTGAATATTATGAAGAGATGG
GTATAAAGCCTCCAAGGGGGTCATTCTCTGTGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGC
AAACCAAACCTCAGCCACTTTCTTGAGAGTGTTGGCTCTGAACTTATTCAGAAGTACCTAGGTGATGGGCCCCAA
ACTCGGACGGGAATTGTTTCGAGTTGCTGAAGAAC

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FIGURE 3496

CAAGAATATGAGATAGAAGGGGAGGGGTAGGAGGAGAGGGAGGAGGGTAGGAAGACAGTTTGCATTCTTGCAACA
TTAAACCAAAGGGACTTGGAGTGCAGATGGCATCCTTCGGTTCTTCCAGACAAGCTGCAAGACGCTGACCATGGC
CAAGATGGAGCTCTCGAAGGCCTTCTCTGGCCAGCGGACACTCCTATCTGCCATCCTCAGCATGCTATCACTCAG
CTTCTCCACAACATCCCTGCTCAGCAACTACTGGTTTGTGGGCACACAGAAGGTGCCCAAGCCCCTGTGCGAGAA
AGGTCTGGCAGCCAAGTGCTTTGACATGCCAGTGTCCCTGGATGGAGATACCAACACATCCACCCAGGAGGTGGT
ACAATACAACCTGGGAGACTGGGGATGACCGGTTCTCCTTCCGGAGCTTCCGGAGTGGCATGTGGCTATCCTGTGA
GGAAACTGTGGAAGAACCAGGGGAGAGGTGCCGAAGTTTTCATTGAACTTACACCACCAGCCAAGAGAGGTGAGAA
AGGACTACTGGAATTTGCCACGTTGCAAGGCCCATGTCACCCCACTCTCCGATTTGGAGGGAAGCGGTTGATGGA
GAAGGCTTCCCTCCCCCTCCCCCTCCCTTGGGGCTTTGTGGCAAAAAATCCTATGGTTATCCCTGGGAACGCAGATCA
CCTACATCGGACTTCAATTCATCAGCTTCCTCCTGCTACTAACAGACTTGCTACTCACTGGGAACCCTGCCTGTG
GGCTCAAACCTGAGCGCCTTTGCTGCTGTTTCCTCTGTCCTGTCAGGTCTCCTGGGGATGGTGGCCCACATGATGT
ATTCAACAAGTCTTCCAAGCGACTGTCAACTTGGGTCCAGAAGACTGGAGACCACATGTTTGAATTATGGCTGGG
CCTTCTACATGGCCTGGCTCTCCTTCACCTGCTGCATGGCGTCGGCTGTCACCACCTTCAACACGTACACCAGGA
TGGTGCTGGAGTTCAAGTGCAAGCATAGTAAGAGCTTCAAGGAAAACCCGAACCTGCCTACCACATCACCATCAGT
GTTTCCCTCGGCGGCTGTCAAGTGCAGCCCCACCGTGGGTCCCTTTGACCAGCTACCACCAGTATCATAATCAGC
CCATCCACTCTGTCTCTGAGGGAGTCGACTTCTACTCCGAGCTGCGGAACAAGGGATTTCAAAGAGGGGCCAGCC
AGGAGCTGAAAGAAGCAGTTAGGTCATCTGTAGAGGAAGAGCAGTGTTAGGAGTTAAGCGGGTTTGGGGAGTAGG
CTTGAGCCCTACCTTACACGTCTGCTGATTATCAACATGTGCTTAAGCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3497

MELSKAFSGQRTLLSAILSMLSLSFSTTSLLSNYWFVGTQKVPKPLCEKGLAAKCFDMPVSLDGD TNTSTQEVVQ
YNWETGDDRF SFRSFRSGMWLSCEETVEEPGERCRSFIELTPPAKRGEKGLLEFATLQGPCHPTLRFGGKRLMEK
ASLPSPPLGLCGKNPMVIPGNADHLHRTSIHQLP PATNRLATHWEPCLWAQTERLCCCFLCPVRSPGDGGPHDVF
TSLP SDCQLGSRRL ETTCLELWLGLLHGLALLHLLHGVGCHHLQHVHQDGAGVQVQA

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FIGURE 3498

ATAACAGCATGAAGTGCCGTGGAAGTGAATAGGCGTGTCTCTCCCTCGACCCTCCCCCTCCTTGTCCCTCTGC
TCACCCCTCGCTCGTTCCCTCCCTCCGGCGAGGGCCGCTTTATAACAACTGCTCAGAGTGCGAGGGCGGGATAG
CTGTCCAAGGTCTCCCCAGCACTGAGGAGCTCGCCTGTGCCCCTCTTGCGCGCGGGAAGCAGCACCAAGTTTAC
GGCCAACGCCCTTGGCACTAGGGTCCAGAATGGCTACAACAGTCCCTGATGGTTGCCGCAATGGCCTGAAAATCCAA
GTACTACAGACTTTGTGATAAGGCTGAAGCTTGGGGCATCGTCTAGAAACGGTGGCCACAGCCGGGGTTGTGAC
CTCGGTGGCCCTTCATGCTCACTCTCCCGATCCTCGTCTGCAAGGTGCAGGACTCCAACAGGCGAAAAATGCTGCC
TACTCAGTTTTCTTCTCCTCCTGGGIGTGTGGGGCATCTTTGGCCTCACCTTCGCCTTCATCATCGGACTGGACGG
GAGCACAGGGCCACACGCTTCTTCCCTCTTTGGGATCCTCTTTTCCATCTGCTTCTCCTGCCTGCTGGCTCATGC
TGTCACTCTGACCAAGCTCGTCCGGGGGAGGAAGCCCCCTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGGCTT
CAGCCTAGTCCAGGATGTTATCGCTATTGAATATATTGTCTGACCATGAATAGGACCAACGTCAATGTCTTTTC
TGAGCTTTCCGCTCCTCGTCGCAATGAAGACTTTGTCTCCTGCTCACCTACGTCCTCTTCTTGATGGCGCTGAC
CTTCTCATGTCTCTTCCCTCACCTTCTGTGGTTCCCTTACGGGTGGAAGAGACATGGGGCCACATCTACCTCAC
GATGCTCCTCTCCATTGCCATCTGGGTGGCCTGGATCACCTGCTCATGCTTCTGACTTTGACCGCAGGTGGGA
TGACACCATCCTCAGTCCGCCTTGGCTGCCAATGGCTGGGTGTTCTGTTGGCTTATGTTAGTCCCGAGTTTTG
GCTGCTCACAAAGCAACGAAACCCCATGGATTATCCTGTTGAGGATGCTTTCTGTAAACCTCAACTCGTGAAGAA
GAGCTATGGTGTGGAGAACAGAGCCTACTCTCAAGAGGAAATCACTCAAGGTTTTGAAGAGACAGGGGACACGCT
CTATGCCCCCTATTCCACACATTTTCAGCTGCAGAACCAGCCTCCCCAAAAGGAATTCTCCATCCCACGGGCCCA
CGCTTGGCCGAGCCCTTACAAAGACTATGAAGTAAAGAAAAGAGGGCAGCTTAACTCTGTCTGAAGAGTGGGACAA
ATGCAGCCGGGCGGCAGATCTAGCGGGAGCTCAAAGGGATGTGGGCGAAATCTTGAGTCTTCTGAGAAAACTGTA
CAAGACACTACGGGAACAGTTTGCCTCCCTCCCAGCCTCAACCACAATTCTTCCATGCTGGGGCTGATGTGGGCT
AGTAAGACTCCAGTTCTTAGAGGCGCTGTAGTATTTTTTTTTTTTTTGTCTCATCCTTTGGATACTTCTTTTAAAGT
GGGAGTCTCAGGCAACTCAAGTTTAGACCCCTTACTCTTTTTTGTGTTTTTTTTGAAACAGGATCTTGCTCTGTCAC
CCAGGCTTGAGTGCAGTGGTGCATCACAGCCAGTGCAGCCTCGACCACCTGTGCTCAAGCAATCCTCCCATCT
CCATCTCCCAAAGTGCTGGGATGACAGGCGTGAGCCACAGCTCCCAGCCTAGGCCCTTAATCTTGCTGTTATTTT
CCATGGACTAAAGGTCTGGTCACTCTGAGCTCACGCTGGCTCACACAGCTCTAGGGGCCTGCTCCTCTAACTCACA
GTGGGTTTTGTGAGGCTCTGTGGCCAGAGCAGACCTGCATATCTGAGCAAAAATAGCAAAAGCCTCTCTCAGCC
CACTGGCCTGAATCTACACTGGAAGCCAACCTTGCTGGCACCCCCGCTCCCCAACCTTCTTGCTGGGTAGGAGA
GGCTAAAGATCACCCCTAAATTTACTCATCTCTCTAGTGTGCTGCCTCACATTGGGCCTCAGCAGCTCCCCAGCACCA
ATTACAGGTCACCCCTCTCTTCTTGCACTGTCCCCAACTTGCTGTCAATTCCGAGATCTAATCTCCCCCTACG
CTCTGCCAGGAATTCTTTCAGACCTCACTAGCACAAAGCCCGGTGCTCCTTGTGAGGAGAATTTGTAGATCATTC
TCACTTCAAATTCCTGGGGCTGATACTTCTCTCATCTTGCACCCCAACCTCTGTAAATAGATTTACCGCATTTAC
GGCTGCATTCTGTAAAGTGGGCATGGTCTCCTAATGGAGGAGTGTTCATTGTATAATAAGTTATTCACCTGAGTAT
GCAATAAAGATGTGGTGGCCACTCTTTCATGGTGGTGGCAGCAAAAAAAAAAAAAA

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FIGURE 3499

MATTVPDGCRNGLKSKYYRLCDKAEAWGIVLETIVATAGVVTSTVAFMLTLPILVCKVQDSNRRKMLPTQFLFLLGV
LGIFGLTFAFIIGLDGSTGPTREFFLFGILFSICFSCLLAHAVSLTKLVRGRKPLSLLVILGLAVGFSLVQDVIAI
EYIVLTMNRTNVNVFSELSAPRRNEFVLLLTIVFLMALTFMLSSFTFCGSFTGWKRHGAHIYLTMLLSIAIWV
AWITLLMLPDFDRRWDDTILSSALAANGWVFLAYVSPEFWLLTKQRNPM DYPVEDAFCKPQLVKKSYGVENRAY
SQEEITQGFEETGDTLYAPYSTHFQLQNQPPQKEFSIPRAHAWPSPYKDYEVKKEGS

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FIGURE 3500

GGTACCTCGTGGAGAAGACGGGGGAGGGGAGCAGCGAGATTTCCTTGCGGAGCAATATTCCTAGGGTACAGACCT
CGTAGCCCCGGGCCCGCGACTCCGCCCCGGGAGCGGGCAGGGGCGGGGCGAGCGCTCCAGCTGGCGGGAAGGAGGA
AGGGCCGGGCGCGGCGCAGAGGCGGGCGCCTACCAGCCGGCAGCTCCGGAGCTGCCCCGCGCCATGTCCGCGCAC
ATCGGGGCACCGAGCTCGACCTTAGCTGGATCTCCAAAATACAAGTGAATCACCCGGCAGTTCTGAGGCGTGCGG
AACAAATCCAGGCTCGCAGAACCGTGAAAAAGGAGTGGCAGGCTGCTTGGCTCCTGAAAGCTGTTACCTTTATAG
ATCTTACTACACTTTCAGGTGATGATACATCTTCCAACATTCAAAGGCTCTGTTATAAAGCCAAATACCCAATCC
GGGAAGATCTCTTAAAAGCTTTAAATATGCATGATAAAGGCATTACTACAGCCGCCGTTTGTGTTTATCCCGCCC
GGGTGTGTGATGCTGTAAAAGCACTCAAGGCTGCAGGCTGTAATATCCCTGTGGCATCAGTGGCCGCTGGATTT
CAGCTGGACAGACTCATTGAAGACACGATTAGAAGAGATCAGATTGGCTGTGGAAGATGGAGCTACAGAAATCG
ACGTGGTAATTAACAGAAGCTTGGTGCTGACAGGCCAGTGGGAAGCCCTGTATGATGAGATTCGTCAGTTTCGCA
AGGCCTGTGGGGAGGCTCATCTTAAACTATATTAGCGACAGGAGAACTTGGAACCTTTACTAATGTCTATAAAG
CCAGTATGATAGCAATGATGGCAGGATCAGATTTTATTAAGACCTCTACTGGAAGAAACAGTAAATGCCACCT
TCCCGGTAGCTATAGTAATGCTGCGGGCCATTAGAGATTTCTTCTGGAAAACCTGGAAACAAGATAGGGTTTAAAC
CAGCAGGAGGCATCCGCAGTGCAAAGGATTCCCTTGCTTGGCTCTCTCTTGTAAGGAGGAGCTTGGAGATGAGT
GGCTGAAGCCAGAACTCTTTGAATAGGTGCCAGTACTCTGCTCTCGGACATTGAGAGGCAGATTTACCATCATG
TGAAGGATATGCAGCTTATCATGATCTTCCAATGTCTTAAATCAGTCACCAGTTCCAGAAAAGTTCTTTAC
GACAATGTTTAAAAATTATTTTCTACGTAATTGCTAAAATTATTTAATTAAAAAATTGGGCAGTAGGTAAGTGG
CATTCCTCTCTTTAAAATTTCTACCGAACTTAATGGAATGGAAAAAGCAAACCTCATCCACATGTGGTACTCATTT
CAGGCACATCTGAAATGATCTTAATTACTAGAAGATCTGCACTATTAACTTTGTGAAGAGTTTCTCCTAAAAACT
TTAAGTAAATGTTAATGGTAGCTTTGATAACATCAAATTCTAAGGGAGAAAAAACAATATTAAACCGCCCAAG
CAGTGTGCCCTAGCAGAGGAAAATGCAACATCTCGCAAGCGCTGCTGTAACGACTTCAGGAGTCACTGATTACGC
ACTAATTTCTGCTGTGAAAACCTCATCTTTCAATTTTGCCGTGGATAGGCGCTTTTATTAATTGTTGTCTAATG
AAATTTCTGACATTGTCATATACAACGATGAATATCATTAATAATTTTAA

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FIGURE 3501

TGTGGACGCTGTGAATCGTGGCTGGCCCGGTTCTCCGCTTCTCCCCATCCCCTACTTTCTCCCTCCCTCCCTTT
CCCTCCCTCGTCGACTGTTTTCTTGCTGGTCGCAGACTCCCTGACCCCTCCCTCACCCCTCCCTAACCTCGGTGCC
ACCGGATTGCCCTTCTTTTCCTGTTGCCAGCCAGCCCTAGTGTCAGGGCGGGGGCCTGGAGCAGCCGAGGCCA
CTGCAGCAGAAGAGAGAAAAGACAACGACGACCCCTCAGCTCGCCAGTCCGGTCGCTGGCTTCGCCGCCGCCATGG
CAATGAGACAGACGCCGCTCACCTGCTCTGGCCACACGCGACCCGTGGTTGATTGGCCTTCAGTGGCATCACGC
CTTATGGGTATTTCTTAATCAGCGCTTGCAAAGATGGTAAACCTATGCTACGCCAGGGAGATACAGGAGACTGGA
TTGGAACATTTTTGGGTCATAAAGGTGCTGTTTGGGGTGCAACACTGAATAAGGATGCCACCAAAGCAGCTACAG
CAGCTGCAGATTTTACAGCCAAAGTGTGGGATGCTGTCTCAGGAGATGAATTGATGACCCTGGCTCATAAACACA
TTGTCAAGACTGTGGATTTTACGCAGGATAGTAATTATTTGTTAACCGGGGGACAGGATAAACTGTTACGCATAT
ATGACTTGAACAAACCTGAAGCAGAACCTAAGGAAATTAGTGGTCATACTTCTGGTATAAAAAAAGCTCTGTGGT
GCAGTGAGGATAAACAGATTCTTTCTGCTGATGACAAACTGTTTCGACTTTGGGATCATGCTACTATGACAGAAG
TGAAATCTCTAAATTTTAATATGTCTGTTAGTAGTATGGAATATATTCCTGAGGGAGAGATTTTGGTTATAACTT
ATGGACGATCTATTGCTTTTCATAGTGCAGTAAGTTTGGACCCAATTAAATCCTTTGAAGCTCCTGCAACCATCA
ATTCTGCATCTCTTCATCCTGAGAAAGAATTTCTTGTTGCAGGCGGTGAAGATTTTAACTTTATAAGTATGATT
ATAATAGTGGAGAAGAATTAGAATCCTACAAGGGACACTTTGGTCCTATTCAGTGTGTGAGATTTAGTCCTGATG
GAGAACTCTATGCCAGTGGTTCAGAAGATGGAACATTGAGACTATGGCAAACCTGTGGTAGGAAAAACGTATGGCC
TTTGAAATGTGTGCTTCCTGAAGAAGATAGTGGTGAAGCTGGCAAAGCCAAAGATTGGTTTTCCAGAGACAACAG
AAGAGGAGCTAGAAGAAATTGCTTCAGAGAATTCAGAGTGCATCTTCCTTCAGCTCCTGATGTTAAGGCCTGAG
CGTCAATCATATGTTGCAGTTAGTATACAACCTGACTAAAACAAGCAAGCAGAGAAAAGCATCAGCCTTCCAGAGT
TACTGTCTGCTTAAGGCAGAAACAGCAGTAAATAATGAGGAAAATGAATTAGCTCCAGTGTGGAACAACCTAACT
AACTGGTGTTACCTGTAAAGTGAAAACCTCAAGTGTGAGATGAAGGGAGGTGGAGTTATCCTCTTATAGTACAGTG
GCCTGTTATCTTTTTTAATGAATATATACAAGCCAACATCCAATTTCTATTATTACAATTAGGGTTCTTGTAGCTG
TTTATGTTAATATGGAGAAGAAAACCTATATTGGCTGATTTTTTTCTGATCTTAAAGCAGAATGCCTTTTCTTTTT
TTGCTTCAGTTGTAAAGAAGAGGGAATACATGATAAAGTAACTGGTTTGATTTCTCGTTTATTGTACACTGCCTC
TGAACATCTAATTGTTTTTAGTTGTCTAAATAAAATGCCTCTAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3502

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGKPMRLRQGD TG DWIGTFLGHKGAVWGATLNKDATKAA
TAAADFTAKVWD AVSGDELMTLAHKHIVKTVDF TQDSNYLLTGGQDKLLRIYDLNKPEAEPKEISGHTSGIKKAL
WCSEDKQILSADDKTVRLWDHATMTEVKSLNFNMSVSSMEYIPEGEILVITYGRSIAFHSAVSLDPIKSFEAPAT
INSASLHPEKEFLVAGGEDFKLYKYDYN SGEELESYKGHFGPIHCVRFS PDGELYASGSEDGTLRLWQTVVGKTY
GLWKCVLPEEDSGELAKPKIGFPETTEEELEEIASENSECIFPSAPDVKA

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FIGURE 3503

CCAGGGTTTCCTCTTCAAGTAGGTCTAAAACATTTTTTTTTCTCATTGACTTCCTTCCTGTTCTAACTGCCAGTA
CTCAGAAGTCAGAGTTGAGAGACAGAGGCACCCCGGACAGAGACGTGAAGCACTGAATAAATAGATCAGAATGAC
TGAAAAAGCCCCAGAGCCACATGTGGAGGAGGATGATGATGATGAGCTGGACAGCAAGCTCAATTATAAGCCTCC
ACCACAGAAGTCCCTGAAAGAGCTGCAGGAAATGGACAAAGATGATGAGAGTCTAATTAAGTACAAGAAAACGCT
GCTGGGAGATGGTCCTGTGGTGACAGATCCGAAAGCCCCCAATGTCGTTGTCACCCGGCTCACCCCTGGTTTGTGA
GAGTGCCCCGGGACCAATCACCATGGACCTTACTGGAGATCTGGAAGCCCTCAAAAAGGAAACCATTGTGTTAAA
GGAAGGTTCTGAATATAGAGTCAAAATTCACCTTCAAAGTGAACAGGGATATTGTGTCAGGCCTGAAATACGTTCA
GCACACCTACAGGACTGGGGTGAAAGTGGATAAAGCAACATTTATGGTTGGCAGCTATGGACCTCGGCCTGAGGA
GTATGAGTTCTCTCACTCCAGTTGAGGAGGCTCCCAAGGGCATGCTGGCGCGAGGCACGTACCACAACAAGTCCTT
CTTCACCGACGATGACAAGCAAGACCACCTCAGCTGGGAGTGGAACCTGTCGATTAGAAGGAGTGACAGAAATG
AATGCATCCACCCCTTTCCCCACCCTTGCCACCTGGAAGAATTCTCTCAGGCGTGTTTCAGCACCCCTGTCCCTCCT
CCCTGTCCACAGCTGGGTCCCTCTTCAACACTGCCACATTTCCCTTATTGATGCATCTTTTCCACCCTGTCACTC
AACGTGGTCCCTAGAACAAAGAGGCTTAAAACCGGGCTTTCACCCAACCTGCTCCCTCTGATCCTCCATCAGGGCC
AGATCTTCCACGTCTCCATCTCAGTACACAATCATTTAATATTTCCCTGTCTTACCCCTATTCAAGCAACTAGAG
GCCAGAAAATGGGCAAATTATCACTAACAGGTCTTTGACTCAGGTTCCAGTAGTTCATTCTAATGCCTAGATTCT
TTTGTGGTTGTTGCTGGCCCAATGAGTCCCTAGTCACATCCCTGCCAGAGGGAGTTCTTCTTTTGTGAGAGACA
CTGTAAACGACACAAGAGAACAAGAATAAAACAATAACTGTG

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FIGURE 3504A

ATGGCCGACCTGGAGGAGCTCTCCCGCCTGAGCCCTCTGCCCCCGGCAGCCCGGGTTCGGCGGCGCGGGGGCCGG
GCTGAGCCCCCGAGGAGGAGGAGGAAGAGGAGGAGGAGGAAGAGGAGGCGGAGGCCGAGGCGGTGGCGGCGCTG
CTGCTGAACGGCGGCAGCGGTGGGGGCGGCGGAGGCGGCGGCGGAGGAGTGGGGGGCGGCGAGGCAGAGACGATG
TCGGAGCCGAGCCCCGAGAGCGCCAGCCAGGCCGGGGAGGACGAAGACGAGGAGGAGGACGACGAGGAGGAGGAA
GATGAGAGCAGCAGCAGCGGCGGGGGTGTAGGAGGAGAGTAGCGCCGAGAGCCTGGTGGGCAGCAGCGGCGGGAGC
AGCAGCGACGAGACCCGCTCGTTGAGCCCCGGCGCCGCGCAGCAGCAGCAGCGGGGATGGGGACGGCAAGGAGGGC
CTGGAGGAGCCCAAGGGACCGCGGGGCGAGCCAGGGCGGCGGCGGGGGCGGCAGCAGTAGCAGCAGCGTAGTCTCC
AGCGGCGGCGACGAGGGCTACGGGACTGGGGGAGGCGGAAGCAGCGCGACCTCCGGGGGCCGGCGGGGCGAGCTTG
GAG**ATG**TGCTCGGATGGGGAACCCCTGAGCCGCATGGACTCGGAGGACAGCATAAGCAGTACTATAATGGATGTA
GACAGCACAAATTTCCAGTGGGCGTTCAACTCCAGCAATGATGAATGGACAAGGAAGCACTACTTCTTCAAGCAAA
AATATTGCCTATAATTTGTTGTTGGGACCAGTGCCAGGCTTGCTTCAACTCTAGCCCAGATCTGGCAGATCACATC
CGTTCCATACATGTAGATGGTCAGCGAGGAGGGTATTTGTTTGCTTATGGAAAGGTTGTAAAGTATATAACACT
CCATCTACCAGTCAAAGTTGGTTACAAAGGCATATGCTGACACACAGTGGAGACAAACCTTTCAAGTGTGTTGTT
GGTGGCTGCAATGCCAGCTTTGCTTCTCAGGGAGGGCTAGCTCGTCATGTACCCACACACTTCAGTCAGCAGAAC
TCCTCAAAGTTTCTAGCCAGCCAAAGGCCAAAGAAGAATCTCCTTCTAAAGCTGGAATGAACAAAAGGAGGAAA
TTAAAGAACAAAAGACGACGCTCATTACCACGGCCACATGATTTCTTCGATGCACAAACACTGGATGCGATAAGA
CATCGAGCCATATGCTTTAACCTCTCAGCTCATATAGAAAGTTTAGGGAAGGGACACAGTGTGTTTTTTCATAGT
ACTGTAATAGCTAAGAGAAAAAGATTCTGGGAAGATCAAACCTTTGCTTCATTGGATGCCTGAAGACATTCTG
CCTGATGTGTGGGTGAATGAAAGTGAACGACATCAGTTAAAACTAAAGTAGTTCATTTATCAAAGCTACCCAAA
GATACTGCCTTGCTTTTGGACCCAAACATATACAGAACAATGCCGCGAGAAGAGGTTGAAGAGG**TAAAAA**TAAAT
AAATACATAAAAAGCAAACAAGCGGGGACACCTGCAGTCTTAGTCACTGACAATGGGTTTAGGGAAAGTTGCACA
TTAGAGTCAACCCCTTCTTTTTTTTTTTTTTTTTTTTTTAAATCCAGTATTTAGGATAATATTTATGCTTAGTGTA
ACATTCTGTGAATGAAGTAGACTCTTCGGTGGAATATATTAATATATTACTGTATATCCACATTTTCATGGAATG
GTACTGTGGGAGACTGAGCAAAACACTCTTTTGGCAACTTAGTAGAACAGCTTCTTAAAGGCTTTGCATGCTTGCT
GCTTTAAGCTGCTTTTTTTTTTCTTTTCTTCCCTTTAGTGATTTTCAGTAGTTTATATTGGAAAGAAAAACAATTA
CAACATGTGCCCTTACAAATACCAAAAGCACTGTAAGGATATTTGTCTTGACAGTGTTTATTGATTGTAAGTCAT
ATTAGGAAATATTTAGACAATGAAAATTATCAAGAGATAATTTACCTTTCAATTATGATAAATAGATGTGATTGG
TTGCCATTTGTGTTCTTTTGCAGAACTCTGATAAGAAAAGTGTTCAATTTGTATTTAAGCAAACAGTGAACGACG
TTTGCAATCAACTAAAAATTCGTCTATCGAATTAGGGCTGAAAATTACTGTTAAAGAGTGTTGCAGTATGTCTGG
TGGCTCCCTTTTTCAGGACTAGGGCTTTCTCATGGAGTACAGTATGTTAATATTTACCTATATACTAATCTGTTA
ACGGTTTTTTGAAAAACCTTTCAAATATTTGAATAATCTTCATATTTTCATTTAACCTATATGACTCTAATTTTT
TTTCTGAGGAAATCATTTGGTTTTTGTGTTGTTTTTCTTAATGTAAGAAAAATTGATTTTTTTTACAAGTATC
TTCAAACCTGAATCTTTTATGCACCAAAGTTGGTCTTGAAAAGGAAAAATAAAATCACTTCTTGCTTGGTAAGCAA
GAAGCCATATCGATTTTTTTTAACTTACAGAAATGGAAATATGTGTAACCTTGTTAGTATTGTATTAACAAATGT
TGCATAGAGATAATAGAACATTGCTTGTAATAATTACAGCAGATTTGTAATATATTTTATATTTTGAATGTAC
TGTAAGATGTTTTCTAGAGGCATGAAAGTTAAATGTATATATTATGGTAGAAATAATATTGAAGGATATTGTACTT
CACTAGTGCTGCCAGAGGAATTGTTAATAAAAGCACCTTCTTTAACAATAAATGTCTTTCACAGACTTAAGGGAC
TATGTACTACTGTTAATATCTCTAAGAACAAAACACATTGAACATCCTTCCAGAAAGTCTTTGAGGGAGGACCTA
TACCCATAATAGAATTATGGCACTCATTTCTGACAGTGATCAAGAAATCAGTTATTTCTTACTGTTGGAAGGAC
ATTGTAAAGTATGTGGTTATATGCAGTGAACTGCAGAAAATACTCCTGGTTGAGGAGTTTTCACTTTACTACAG
TGATATAAAAACCAGCAGTTTTTACACTAAATTTTTTAAAGAAATATTAGACAAAAATATAGAATTAAACCTTT
GGTTCCAAAATGGGAAAGGTTCCACGATACATAAATCATTTCTCATTTGCTTTAAAAAATTTAAAGTGTA AAAA
TTATGAGAGACTTTATTCTGTTAACAATGGGGGTAAAGAGCTATATACATGAAAATGAGTCTTATAAAATTAAGTG
AAGTGCAAAATAAAGCACTGCTACTATAAGACATTCTGGAATGGTTGTTTAATAAGGGTATTATCCATTTGATCT
ATAGCAATGTGATTTTATTTTTTAAAGAAAAGCAGTGTGTTTTCTTTTTTTGTTGTTTTCTTTTGCTTAAGCAC
TTCATCAATTGCTTTATTCTGTATCTGCGAAGTAATCTGCAATCTTTTTGTTCTTTTTTAAATTTGATTTGTTA
TAAATTTGCCAAATAGAAGTGTTTCAGATACATAGTTTGTACCTGTATTTTTATTTTATTGCTCATGTTCTTGT
AAGTCATTCTTAATTGACCAATGATTGTAGACCTTGCTTGAGTATTTTTTCTAATAAAACAAAGCAAATCACATT

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FIGURE 3504B

TAGCTTCAAATTGTAACAATTCAATTGAATTTTAAAAATGACACCTGAAAAGATACATCTGATATTTTCTATATAG
AGCACAGTAAATAAGTTTTTCATTGTGTAGAAATACTTAGATGTCAAAACCAGATTTTCGTGATCCTTGATTAAAC
TTCTGAGTACTCAATCAATCATAATCCTTTTGCTGCTTATCTGATGTTGGTTTGATACTGTTAACACACCAAAAA
GAATATGGAATTGAAATGAGCTAGCTTTATAACTTGTATGTATACATATATACACATAACATCCAATTATGACTG
GGTAATAAGTGTGAAAATTTTAATTTGTGGTTTTCATTTATTAATGTCTGCCCATCTGTATTGTTGCTCCTACCT
TCAAATATGACACCTGAAATAATAAGTCTGTTGTCCAGAATTT

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FIGURE 3505

MSSDGEPLSRMDSEDSISSTIMDV DSTISSGRSTPAMMNGQGSTTSSSKNIAYNCCWDQCQACFNSSPDLADHIR
SIHVDGQRGGVFVCLWKGCKVYNTPSTSQSWLQRHMLTHSGDKPFKCVVGGCNASFASQGGLARHVPT HFSQQNS
SKVSSQPKAKEESPSKAGMNKRRKLKNKRRRSLPRPHDFFDAQTLD AIRHRAICFNLSAHIESLGKGHSVVFHST
VIAKRKEDSGKIKLLLHWMPEDILPDVWVNESERHQLKTKVVHLSKLPKDTALLDPNIYRTMPQKRLKR

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FIGURE 3506A

CAAAAGAAAGGAAGAAAGTCACAAAGGGCTGTCTGAGGCACATGATTGTGAAGAGTTAAAGGGAAAAATCCATTCT
TCTGCTTTGTGAGAGCTCTCAAGCTAAAGTAAATGAGCCTTTAGAAGCCAAACATGCAGCTAACAAAGGTATGTA
TCCATGTCTGTGGACACTAGTTGAGATTTTGGTCCAGGAAAAGCTGAGGTTTGGTTGGGGAGGGGTGAAGCGAGG
AGGCCAAGAGCACCACTGGCTGCACCCCGTCACCGGCGAGGCGGTGGTCACCGGACACCGGCGGCAGAGCACAG
CCTAGACGACCCTCGCGACCCTAGAGTGGCGACGCTCCCCTCCCTGAAACCTGGAGTCTTCTGAGTTTTCTCTCCGC
GGCCGCTACTCACTCCCCGGTGACCCCCAGCTGCCGTCTTGCCCCCAGCAATCTTCAGGCAGTCTTACCCACT
CCCCTCCCTGCAGCCCCGGACCCCGATCGCCCGCCGGGATAACCGTGGCAGTTGGCTTCTAAGAGGAATTATCCT
AGGAGAACAGACCACAGTTTTAGACACTTATAAACTTCTGCTTATATCATGCTTTCCCATGTGGTCTCTGGTTGA
TGTATCAGATGGAAGGCAGATACGTTTAAAGTCATGAGCGAGATCCACCCATCCTCATGTATCAGTTACAAATGCA
CTGTCTTACCTGCGTTAGGACAAATGCACTAAAAGTGTATAAAGTCTTCAGAGGATATTCTAGTTGTTCATAGAAT
ACTTTCAGTCCGCTTTCCCAAAGGGAAATACATGATTTCAGAGCAAATCATATAAATGGGTACACATCCATAATGA
AAGGAAAGTGACCTGCAAACATCCAGTCACAGGACAACCATCACAGGACAATTGTATTTTTGTAGTGAATGAACA
GACTGTTGCAACCATGACATCTGAAGAAAAGAAGGAACGGCCAATAAGTATGATAAATGAAGCTTCTAACTATAA
CGTGACTTCAGATTATGCAGTGCATCCAATGAGCCCTGTAGGCAGAACTTCACGAGCTTCAAAAAAGTTCTATAA
TTTTGGAAAGAGGTCAAATTCATTTAAAGGAATCCTAATGCACCGGTTGTCAGACGAGGTTGGCTTTATAAACA
GGACAGTACTGGCATGAAATTGTGGAAGAAACGCTGGTTTGTGCTTCTGACCTTTGCCTCTTTTATTATAGAGA
TGAGAAAGAAGAGGGTATCCTGGGAAGCATACTGTTACCTAGTTTTAGATAGCTTTGCTTACCTCTGAAGATCA
CATTAAATCGCAAATATGCTTTTAAAGGCAGCCCATCAAACATGCGGACCTATTATTTCTGCACTGATACAGGAAA
GGAAATGGAGTTGTGGATGAAAGCCATGTTAGATGCTGCCCTAGTACAGACAGAACCTGTGAAAAGAGTGGACAA
GATTACATCTGAAAATGCACCAACTAAAGAAACCAATAACATTCCCAACCATAGAGTGCTAATTAAACCAGAGAT
CCAAAACAATCAAAAAACAAGGAAATGAGCAAAATTGAAGAAAAAAGGCATTAGAAGCTGAAAAATATGGATT
TCAGAAGGATGGTCAAGATAGACCCTTAACAAAAATTAATAGTGTAAAGCTGAATTCTCTGCCATCTGAATATGA
GAGTGGGTGAGCATGCCCTGCTCAGACTGTGCACTACAGACCAATCAACTTGAGCAGTTTCAGAGAACAAAATAGT
CAATGTTAGCCTGGCAGATCTTAGAGGTGGAAATCGCCCCAATACAGGGCCCTTATACACAGAGGCCGATCGAGT
CATAACAGAGAACAATTCATGCAGCAGTTGGAACAGTGGATTAAATCCAGAAGGGGAGGGGTCTGAAGAAGA
AACCAGGGGAAATATGCCAAGTCACAGAGCCAGATTATGGCCCGCTACCCTGAAGGTTATAGAACACTCCCAAG
AAACAGCAAGACAAGGCCTGAAAGTATCTGCAGTGTAAACCCCTTCCACTCATGACAAGACATTAGGACCCGGAGC
GGAGGAGAAACGGAGGTCCATGAGAGATGACACAATGTGGCAGCTCTACGAATGGCAGCAGCGTCAGTTTTATAA
CAAACAGAGCACCCCTCCCTCGACACAGTACTTTGAGTAGTCCCAAAACCATGGTAAATATTTCTGACCAGACAAT
GCACTCTATTCCACATCACCTTCCCACGGGTCAATAGCTGCTTATCAGGGATACTCCCCTCAACGAACCTTACAG
ATCGGAAGTGTCTTACCAATTCAGAGAGGAGATGTGACAATAGACCGCAGACACAGGGCCCATCACCTAAGCC
AGAGGAGCTTACGCTGCTGCTAATAAAGCTGAGACGGCAGCAAGCCGAAGTGAAGTATCCGGGAGCATAAGTT
AGCACAGCTCATGCAGCTAAAGCTTGAGGCCACAGCCCAAAGGTGGGAAGCCCCCTCTGTGTGCTCCCGTGGCA
TCTGACCTCTGACACGTTGATGAATGATGATGAAGTCTGAAAAGAGATGGAACCTGCAATTGCAGTGATCATAT
TAGCATGCAAGTAATTAACAAGTTGCACCTGGTGAGTAGGAAGGCAGGCAGAGGCTCCAGAGCCATCAGAA
GGGCTGTCAGGGCACAAGACTGCCAAGAAAGAAGGAAAGTGAAGTGTCTACTGGAAGAATCTGTGCAGGCTCCATC
ACAGGCAGCTGCAGCTCTGTATGAGGGCCTCTGGGGGAGCTGGGAACCTGTGCTTCTATGTGGGAACATGCTCCA
CTGTTTCCAGCTTTGTATAGAAATTTCTAATCATATAAATCTCAGTATTCTTGGACATCAAGGAAGTCTTATATT
TTTAAGCAACCCTGTCTGCTACCATCTTCCCAACAACCCACCACCATCTGTTTTGATGCCTACACAGAAGATAT
AAGCCAGTGGATCCTACATTTTTTTCAAGTATTTGCTGAAATACAAAGATTTATCAAAATTGCTAAGAAGCAGGG
CTCATTACAGGCTCGAGGACGCTCTTGATGTGAATTAAACCCACAGGAGACTGATGCACAAAACCAAGATAGAGC
TTTATTTTACAATAAGAATTGTATAACTGCCGAGAGGTGAGAGAAGGACAGTGGGAAAAATCACATTCTCTGCTCA
AAGGCAGACTCTCCAGAAAGCCAGTTTACCGGGAACTGAGGGGATAACGAGAACATACGGAGGCAGCACGAGCGT
TGGCACCGCTACTGATGATGCTACCCTATTGCACATCACCTTCACTGGGTACTCAGTCAGTAGTACCATGTGCAT
CTACATAGCTATCTCTCAGGTTCTCTTTGCATTCCCTCATCCGTACTGCTGATTACATGGGCCCCAAGTGGACACTA
CATGTACATCGGGTACGAGCATCGATCCGTCAACTGGCTGCCCTTGAGCTGGCTTCTCTGACAAGACTCCTGC
TCACACTGTCAACCATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTATGCAACTTTGGTTCAGCAGAA
ACACAATACGAGCCTCTGGCTAGCTAAGGCACTCTATTCTGAAAGTACGGAAAACATGCACGGTCAGATTTTGGC

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FIGURE 3506B

AAATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAACTACATGGGTAGAAAAACCAAGAAGTTTAATAACTG
GGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTGCAGGTTGGTCATGGCTGCTGCAACAGATTA
CGGAAAGAAGGAGGCCAAGGAAGTCTCCACGGTCCCTCATTACATCTTCACCATTCTCAACACCCTCCAGGGCGT
CTTCATCCTATTGTTTGGTTGCCTCATGGACAGGAAGATAACAAGAAGCTTTGCGCAAACGCTTCTGCCGCGCCCA
AGCCCCCAGCTCCACCATCTCCCTGACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGC
CAGTGCGGTTATGAAGCCGGACGTTATTTTGGAGGGTAAAGTAAATGTTCAAACAAATCATCTCTGA

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FIGURE 3507

CTCTTTTCCAGCTGGAACCA**ATG**GAGTGTGTAGAGAAGAAGGTTCTTGCTGTGCCAGAAACCCCTTAAGAAAA
AGCGAAGGAATTTTGCAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAGACGCTTCGAAAGACAA
GGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAAGGAATACAGGCAGATGTACAGAACTGAAATTCGAA
AGGCGAGGATGGCAAGAAAAGCTGGCAATTTCTATGTACCTGCAGAACCCAAATTGGCATTGTGTCGTCAGAAATCA
GAGGTGTCAATGGCGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCAATGGCA
CCTTTGTGAAGCTCGACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACCCCA
ATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAATGAATAAGAAGCGAATTGCTTTGACAG
ATAACACTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATCTGATTCATGAGATCTATA
CTGTTGGAAAAGGCTTCAAAGAGGCAAATAACTTCCTGTGGGCCTTCAAATTGTCTTCTCCACGAGGTGGAATGA
AGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGGTCAACAGGCTTATTAGAA
GAATGAAC**TAA**GGTGTCTACCATGATTATTTTTCTAAGCTGGTCGGTTAATAAACAGTACCTGCTCTCAA

3808/6881
FIGURE 3508

MECVEEKKVLAVPETLKKKRRNF AELKIKRLRKKFAQKTLRKTRRKLIYEKAKHYHKEYRQMYRTEIRKARMAK
AGNFYVPAEPKLAFFVVRIRGVNGVSPKVRKVLQLLRRLRQIFNGTFVKLDKASINMLRIVEPYIAWGYPNLKSVNE
LIYKRGYGKMNKKRIALT DNTLIARSLGKYGIICMEDLIHEIYTVGKGFKEANNFLWAFKLSSPRGGMKKKTTHF
VEGGDAGNREDQVNRLIRRMN

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FIGURE 3509

GATCCCAGAGGAGGAAGTCCAGAGACAGAGCACCATGACTTCTGAGAAAGGAGAAGAATCGAACCCCTGGGAGTTT
GACGTCTTCTATGACCCAGAGAACTTCGTAAAGAGGCCTGTCTGCTCTACGAAATCAAGTGGGGCATTGAGCCCGG
AAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGTTAATTTTATAAAAAAATTTACGTCAGAA
AGAGATTTTCACCCATCCATCAGCTGCTCCATCACCTGGTTCTTGTCCTGGAGTCCCTGCTGGGAATGCTCCCAG
GCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGATCTACGTAGCTCGGCTTTTTTGGCACATG
GATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGTAACTATTTCAGATTATGAGAGCATCAGAG
TATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATGAAGCTCACTGGCCACAATACCCACCTCTG
TGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCTAAGTCTTCCACCCTGTTTAAAGATTTCAAGAAGA
TGGCAAAATCATCTTACATTTTTCAGACTTCATCTTCAAAACTGCCATTACCAAACGATTCCGCCACACATCCTT
TTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATGAATAGGATGATTCCGTGTGTGTACTGATTCAAGA
ACAAGCAATGATGACCCACTAAAGAGTGAATGCCATTTAGAATCTAGAAATGTTTACAAGGTACCCCAAAACTCT
GTAGCTTAAACCAACAATAAATATGTATTACCTCTGGC

3810/6881
FIGURE 3510

MTSEKGEESENPGSLTSSMTPENFVKRPVCSTKSSGA

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FIGURE 3511

GATCCCAGAGGAGGAAGTCCAGAGACAGAGCACCATGACTTCTGAGAAAGGTCCTTCAACCGGTGACCCCACTCT
GAGGAGAAGAATCGAACCCTGGGAGTTTGACGTCTTCTATGACCCCAGAGAACTTCGTAAAGAGGCCTGTCTGCT
CTACGAAATCAAGTGGGGCATGAGCCGGAAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGT
TAATTTTATAAAAAAATTTACGTCAGAAAGAGATTTTCACCCATCCATCAGCTGCTCCATCACCTGGTTCTTGTC
CTGGAGTCCCTGCTGGGAATGCTCCCAGGCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGAT
CTACGTAGCTCGGCTTTTTTGGCACATGGATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGT
AACTATTTCAGATTATGAGAGCATCAGAGTATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATGA
AGCTCACTGGCCACAATACCCACCTCTGTGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCTAAGTCT
TCCACCCTGTTTAAAGATTTCAAGAAGATGGCAAAATCATCTTACATTTTTTCAGACTTCATCTTCAAACTGCCA
TTACCAAACGATTCCGCCACACATCCTTTTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATTGAATAGG
ATGATTCCGTGTGTGTACTGATTCAAGAACAAGCAATGATGACCCACTAAAGAGTGAATGCCATTTAGAATCTAG
AAATGTTTACAAGGTACCCCAAACTCTGTAGCTTAAACCAACAATAAATATGTATTACCTCTGGC

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FIGURE 3512

MTSEKGPSTGDPTLRRRIEPWEFDVFYDPRELRKEACLLYEIKWGMSRKIWRSSGKNTTNHVEVNFIIKKFTSERD
FHPSISCSITWFLSWSPCWECSQAIREFLSRHPGVTLVIIYVARLFWHMDQQNRQGLRDLVNSGVTTIQIMRASEYY
HCWRNFVNYPFGDEAHWPQYPPLWMMLYALELHCIIISLPPCLKISRRWQNHLTFFRLHLQNCHYQTIPPHILLA
TGLIHPSVAWR

3813/6881
FIGURE 3513

CCCGGATGTGGAGAAGCTGGGGAGAAGGCGTGGGAGGAAGATGGACTCGGTGGAGAAGGGGGCCGCCACCTCCGT
CTCCAACCCGCGGGGGCGACCGTCCCGGGGCGGGCCGCCGAAGCTGCAGCGCAACTCTCGCGGGCGGCCAGGGCCG
AGGTGTGGAGAAGCCCCCGCACCTGGCAGCCCTAATTCTGGCCCGGGGAGGCAGCAAAGGCATCCCCCTGAAGAA
CATTAAGCACCTGGCGGGGGTCCCGCTCATTGGCTGGGTCCCTGCGTGCGGCCCTGGATTACAGGGGCCTTCCAGAG
TGTATGGGTTTCGACAGACCATGATGAAATTGAGAATGTGGCCAAACAATTTGGTGCACAAGTTCATCGAAGAAG
TTCTGAAGTTTCAAAAGACAGCTCTACCTCACTAGATGCCATCATAGAATTTCTTAATTATCATAATGAGGTTGA
CATTGTAGGAAATATTCAAGCTACTTCTCCATGTTTACATCCTACTGATCTTCAAAAAGTTGCAGAAATGATTCTG
AGAAGAAGGATATGATTCTGTTTTCTCTGTTGTGAGACGCCATCAGTTTCGATGGAGTGAAATTCAGAAAAGGAGT
TCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGCTAAACGGCCTCGTCGACAAGACTGGGATGGAGAATTATA
TGAAATGGCTCATTTTTATTTTGCTAAAAGACATTTGATAGAGATGGGTTACTTGCAGGGTGGAAAAATGGCATA
CTATGAAATGCGAGCTGAACATAGTGTGGATATAGATGTGGATATTGATTGGCCTATTGCAGAGCAAAGAGTATT
AAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGAAATAAACTTTTGGTTTGCAATATTGATGGATGTCTCAC
CAATGGCCACATTTATGTATCAGGAGACCAAAAAGAAATAATATCTTATGATGTAAAAGATGCTATTGGGATAAG
TTTATTAAAGAAAAGTGGTATTGAGGTGAGGCTAATCTCAGAAAGGGCCTGTTCAAAGCAGACGCTGTCTTCTTT
AAAACCTGGATTGCAAAATGGAAGTCAGTGTATCAGACAAGCTAGCAGTTGTAGATGAATGGAGAAAAGAAATGGG
CCTGTGCTGGAAAGAAGTGGCATATCTTGGAATGAAGTGTCTGATGAAGAGTGCTTGAAGAGAGTGGGCCTAAG
TGGCGCTCCTGCTGATGCCTGTTCTACTGCCCAGAAGGCTGTTGGATACATTTGCAATGTAATGGTGGCCGTGG
TGCCATCCGAGAATTTGCAGAGCACATTTGCCTACTAATGAAAAAGGTTAATAATTCATGCCAAAAATAGAAATT
AGCGTAATATTGAGAAAAAAATGATACAGCCTTCTTCAGCCAGTTTGCTTTTATTTTTGATTAAGTAAATCCAT
GTTGTAATGTTACAGAGAGTGTGATTTGGTTTGTGATATATATATATTGTGCTCTACTTTTCTTTTACGCAAGA
TAATTATTTAGAGACTGATTACAGTCTTTCTCAGATTTTTAGTAAATGCAAGTAAGAACATCATCAAAGTTCACT
TTGTATTGTACCCTGTAAACTGTGTGTTTGTGTGCTTTCAAAGATGTTGGGATTTTATTTATCTGGGGACAGTG
TGTATGGTAAGACATGCCCTTCTATTAATAAACTACATTTCTC

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FIGURE 3514

MDSVEKGAATSVSNPRGRPSRGRPPKLQRNSRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVPLIGWV
LRAALDSGAFQSVWVSTDHDEIENVAKQFGAQVHRRSSEVSKDSSTSLDAIIEFLNYHNEVDIVGNIQATSPCLH
PTDLQKVAEMIREEGYDSVFSVRRHQFRWSEIQKGVREVTEPLNLPKRPRRQDWDGELYENGsfYFAKRHLI
EMGYLQGGKMAYYEMRAEHSVDIDVDIDWPFAEQRVLRYGyFGKEKLKEIKLLVCNIDGCLTNghiYVSGDQKEI
ISYDVKDAIGISLLKKSGIEVRLISERACSKQTLSSLKLDCKMEVSVSDKLAVVDEWRKEMGLCWKEVAYLGNEV
SDEECLKRVGLSGAPADACSTAQKAVGYICKCNGGRGAIREFAEHICLLMEKVNNSCQK

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FIGURE 3515

TATAACATCTCCTGCTAAGCAAAGCCCCTGACTAATTAGTCACCACTACACAAGGAAAAACAGCATTATTTTTA
GAGGCTGAATTAATGTTAGTTTTCTCATTTTTCTCATCTTCATTCTCTCTGCTGTTGAAGAAATGTTTCAGTGGCCA
ACTGATTCTGCTTCTTCTCTTGCAGGTTTCCTATCCTGGGAGCAGGAGAGTGTGCCTATTTGAATGACAAAGGTG
CCAGTAGTGCCAGGCACTACACAGAGAGGAAGTGGATTTGTTCCAAATCAGATATACATGTCTAGATGTTACAGC
AAAGCCCCAACTAATCTTTAGAAAGCATATTGGAAGTGAATACTCCATTTTAAAATGAGCAAAGAATTTATTTCTT
ATACCAACAGGTATATGAAAATATGCTCAATATCCTAATAACTGGGAAAATACAAATCAAAATCATAGTAAAAAT
ATTACCTGTTTTTCATGGTGCTAATATTACCTGTTTCTCCCACTGCTAATGACATACCCGAGACTGAGTAATTTATA
AATAAAAGAGATTTAATTGACTCATAGTTCCACATGGCTGGGGAGGTCTTGCAATCATGACAGAAGGCAAATGGG
AAGCAAAGTCATGTCTTATGTGGTGGCAGGCAGGGGGACTTGTGCACAGGAACCTCTATTTTATACAACCATCAGA
TATCTTGAGACAAGAACAGTATGGGGCTCCCTGGTGTGATTCCGTCCTGCGCGGCTGTTCTCTGGAGCAGCATTC
ATTTATCTTTCGTCTGCCTTGTCTCTCTACCTAAGTGTGTGTCGCCACCCGATGGAAGATTTCATGGACATGGACAT
GAGCCCCCTGAGGCCCCAGAAGTATCTTTTTCAGTTGTGAACTAAAGGCCGACAAAGATGATCACTTTAAGGTGGA
TAATGATGAAAATGAGACCAGTTATCTTTAAGAACGGTCAGCTCAGGGGCTGGTGCAAAGGATGAAGTGCACATT
GTTGAAGCAGAGGCCATGAATGACGAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAG
CCAACGGTTTTCTCTTGGGGGCTTTGAAATAACACCACCAGTGGACTTAAGGTTGAAGTGTGGTTCAGGGCCAGTG
CATATTAGTGGACAGCACTTAGTAGCTGTGAAGGAAGGTGCAGAGTCAGAAGATGAAGAAGAGGAGGATGTGAAA
CTCTTAAGTATATCTGGAAAGCAGTCTGCCCCCTGGAGGTGGGCAGAAAAAAGTAAAACCTTGCTGCTGCTGCTGAT
GATGATGATGATGAAGATGATGATGATGATGATGATGACGAGGAAGCTGAAGAAAAAGCGCCAGTGAAGAAATCTATA
CGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCAAAACCATCATCAACACCAAGA
TCAAAAGGACAAGAATCCTTCAAAAAACAGGAAAAATCTCCTAAAACACCAAAAGGATCTAGTTCTGTAGAAGAC
ATTAAAGCAAAAATGCAAGCAAGTATAGAAAAACGTGGTTCTCTTCCCAAAGTGGAACCAAGTTCATCAATTAT
GTGAAGAATTTCTTCTGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAA
AATAGTTTAAACAATTTGTTAAAAATTTTCCATCTTATTTTCAATTTCTGTAAACAGTTGATATCTGGCTGTCCTTTT
TATAGTGCAGAGTGAGAACTTTCCCTACCATGTTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGT
CCAAAATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCCTTTGCTTGGTTTTAAGTATGTATGGGATGCTATGA
TAGGACATAGTAGTAGCAGTGGTCAGACATGGAAATGGTGGGGAGACAAAAGTATACACGTGAAATAAACTCAG
TATTTTAATAAAGTAAAAAAA

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FIGURE 3516

MNDEGSPIKVTLATLKMSVQPTVSLGGFEITPPVDLRLKCGSGPVHISGQHLVAVKEGAESEDEEEEDVKLLSIS
GKQSAPGGGQKKVKLAAAADDDDDDEDDDDDDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQE
SFKKQEKSPKTPKGSSSVEDIKAKMQASIEKRGSLPKVETKFINYVKNFFWMTDQEAIQDLWQWRKSL

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FIGURE 3517

GGCGCCGGGGGACACGTTGGCTGCGTTTTTCGGCGGGCCTCCCGGGTACAAAAATGGCTGTGGCTAGCGATTTCTA
CCTGCGCTACTACGTAGGGCACAAGGGCAAGTTTGGGCACGAGTTTCTGGAGTTCGAATTTTCGGCCGGACGGAAA
GCTTAGATATGCCAACACAGCAATTACAAAAATGATGTGATGATCAGAAAAGAGGCTTATGTGCACAAGAGTGT
AATGGAAGAACTGAAGAGAATTATTGATGACAGTGAAATTACAAAAGAAGATGATGCTTTGTGGCCTCCCCCTGA
TAGGGTTGGCCGACAGGAGCTTGAAATTGTAATTGGAGATGAGCACATATCTTTTACCACATCAAAAAATAGGTTT
TCTTATTGATGTAAATCAGTCAAAGGATCCTGAAGGCCTTCGAGTATTTTACTATTTGGTACAAGACTTGAAATG
TTTAGTTTTTTCAGTCTTATTGGATTACACTTCAAGATTAAACCAATTTAAATTGTATGTTTTTCAGGCTGTTTGTAT
ATTTAATTAAGGGATGGGAGGGGTTATTTGTCAATTTACAGTATTGGGGTTTTTATGAATGTGAAGCAAAACAAAA
AAATTTGTATGTAAATGAAAATAAGAAAATACATTAGCAAGCTTAATGGTTATCCTTACTTGAGTCCACATGGG
TTGGACAGTCCCCACACATTAAATTTCTGTAAATGAAAGCCACCTTTTGTAAATTTTGTCTAATAAAACAT
ACCAAATCCTGGTTGCAGAGTAGTTTTTTTGTTTTTTCCAGGAGGCTATGTCTCTAATTCACCTTTAGAGATAATAA
GAAATTGTTTCGGTAGATACATCCTGTGACAGAAGATACTTTAGGTGGAACATATGTAGCCAGATTCCCATCCATG
AAAGGCAAGTGTAGATTGTCCCTTATTTTCCTTCATACATGATTGGATTTAATTTTGGGGGGCTTATACAAGGTCT
AGTTTTTTTTTACAGTTATGACAAACCCCTCAGGGATTATTCACATTTAAATATTTTCAGTTACAAGCAGTGAGG
TCCTAAAGTGTACAAGAGTACAGTCTACCCCATGTTAGGCATATCTTTGATTATGTCTTTATTCCTTATTTTAC
AATGTATTTGGTGTGTAGGGGAGGGGGGAGAACTAAATGAGTTTTCAGCTTTATAAATTGTTAAACATTTAGACA
AACATATATGTATGTATGAATGTACATAAATATTTTAACTCCTATTGACCACGAGTCTCACTTCAGTTTCCCAG
TTCCTTTCAACCTCTTTCTGATAGATTTTCTCTTTTCACTTTTAGTAACCATGTTTCTTGTTCCTTTTATTC
TTCCATCTGAAGCCCCACTCTTAAAAAGTTGCACTGTTCCAGTAGTTATAATCCACTTGCCCTAGGAACAAGTTA
GCACTGAATTTTGGGTGGAATAATTAGTTTCTGAAGGCTTGCCAGGACCCCTGAGCAGGTAGGCTCTAGAGTCGG
GCAGTCCAATAACTTTTTTGCAATAATGAAACGTCCTATGTGCAGTCCAATAGGGTAGCAACTGGCCAAATGAG
GCCTACTGATTACTTGAGGTGTGCCTTGTATAACTGAATTTATGGTGCTATTTAAACAATTTTTTTCTAACGTGA
AAAGGATAAAACATAAAAAACTCTTGAGAACTATAAAGTGAACACCTATATGCCTACCCCTACCTAGATTCTATA
CTTAACATCTTTTTTACTGTAATACTCTATTATAATAAATCTTGGTTTTTCACTTAACTGGTGTAATTGGTGCC
AATAAACTACTTTTTTTGTAGTGCTATTTAATTTTGATTAAATTTAGATAGCCACGTGTCTAGCGGCTACCGTTT
GGACAGTATAGCTCTAGAGCATGGCTTGTTAACCTGTTTGCCATGGAGCACTAGATGGTCCTTTTCACTCCTCAA
AATGCATGCCCATTTGCCTTCAGGTTTGCCATGGAAAGTCAAATGATTTCACCTTCATTATGCAAGTACGCTATCA
TCTTCAGGTCTTTTGTATGTAAATGTTTTCTGTTCCAGTTGTAGACCTTGATGATTGTGCAGTATGAAATCGTAT
TGTAATTTTCTTGCAATTTAGATGTCAACCTCAGAAACAGGAACAATCGTCTTTTGAACCTCCAGTAGGCCCCACAG
TTGTTGGTTGTTTCTCAAAACAGGTTGTGGCTCCTGTTGAATAAGATGATCCATTAAAAACTGAACAAGGTTGAG
GAGAAATAGTGCTTACGTTGAAAAATCTTTAAGTCTTTGTCCCCGTTCTCTAACTTCCTTACGTTTTTCGTTTATT
TAGCTCCATCCCCACTATCTACTAGAATTTCTCATATTTAAACCAAGATGGGAGACTAGGTCAATTAGGAAAATAT
TACCGTCTACAATTTTCTTATACTTTGAICTGTCTTTTATTTGATTGTAAGTTGCTGATGGACAGTGATCATTAG
AACTGAATTTTGTATAATACTAGTTTTATATGAACTAGATATTTATTGCGCTCAGGTTATGTTTCTTTTACCT
CCTTCCTTAATAAAGAGACCACTTGAAAT

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FIGURE 3518

MAVASDFYLRYYVGHKGKFGHEFLEFEFRPDGKLRYANNSNYKNDVMIRKEAYVHKSVMEELKRIIDDSEITKED
DALWPPPDREVGRQELEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYLVQDLKCLVFSLIGLHFKIKPI

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FIGURE 3519

AAAAACTTGTGCGGGGCCATTTTTGGGGCAGTAAGATCGAGCGAGGAGCCCAAGAGAGAGCGCGCAGCACGAAGC
TCGAGCCGCCTCCGCCGCGCGACCCACCTCGGCCGCCGCCGCTGCGCCGCGAGATCCGCCCCGGCCTCCCCGA
GAGCGAGCCCCGGCCGCCGCGACCACCAGCCGCGCTAACCGCCGACCAACCGCCACCGAGGCGCCTGAGCGAGAG
CAGAGGAGGAGGAGGCATGAGTGAGGCGGGCGAGGCCACCACCACCACCACCACCCTCCCGCAGGCTCCGAC
GGAGGCGGGCCGCCGCGGCTCCCCAGGACCCCGCGCCCAAGAGCCCGGTGGGCAGCGGTGCGCCCCAGGCCCGCGGC
CCCGGCGCCCGCCGCCACGTGCGCAGGAAACCCCGGTGGGGACGCGGCCCGCCGAGCCACGGGCACCGCGGCCGC
CGCCTCTTTAGCCACCGCCGCCGCGCAGCGAAGACGCGGAGAAAAAAGTTCTCGCCACCAAAGTCCTTGGCACTGT
CAAATGGTTCAACGTCAGAAATGGATATGGATTTATAAATCGAAATGACACCAAAGAAGATGTATTTGTACATCA
GACTGCCATCAAGAAGAAATAACCCACGGAAATATCTGCGCAGTGTAGGAGATGGAGAAACTGTAGAGTTTGATGT
GGTTGAAGGAGAGAAGGGTGCAGAAGCTGCCAATGTGACTGGCCCCGATGGAGTTCCTGTGGAAGGGAGTCGTTA
CGCTGCAGATCGGCGCCGTTACAGACGTGGCTACTATGGAAGGCGCCGTGGCCCTCCCCGGAATGCTGGTGAGAT
TGGAGAGATGAAGGATGGAGTCCCAGAGGGAGCACAACTTCAGGGACCGGTTTCATCGAAATCCAACCTTACCGCCC
AAGGTACCGTAGCAGGGGACCTCCTCGCCACGACCTGCCCCAGCAGTTGGAGAGGCTGAAGATAAAGAAAATCA
GCAAGCCACCAGTGGTCCAAACCAGCCGTCTGTTTCGCCGTGGATACCGGCGTCCCTACAATTACCGGCGTCGCCC
GCGTCCTCCTAACGCTCCTTCACAAGATGGCAAAGAGGCCAAGGCAGGTGAAGCACCAACTGAGAACCCTGCTCC
ACCCACCCAGCAGAGCAGTGCTGAGTAACACCAGGCTCCTCAGGCACCTTCACCATCGGCAGGTGACCTAAAGAA
TTAATGACCATTTCAGAAATAAAGCAAAAAGCAGGCCACAACCTTAACCAACACCAAAGAAACATCCAAGCAATAA
AGTGGAAGACTAACCAAGATTTGGACATTGGAATGTTTACTGTTATTCTTTAAGAAACAACCTACAAAAAGAAAAT
GTCAACAAATTTTTCCAGCAAGCTGAGAACCTGGGAATTCTGACGGAAGACAAGAGAGTAGCCTCTCCAGTTT
CAGCAACCGCTAGGTTTCTATTTTTTTTCTGGTTTTTACTGTTTTGGTAATATATATATTGAAACAAGAAATAT
TAATACCACATGGGGAGAACCCCAACCAAAGAAATCTGAAATATATAGTAAATGCTTTTTTTTCCGTTTTTGTTC
ATTTTGGATGCTGGTGCTAAACCTCCAAGTGTGATGTTAAAAAATTTTATGTCCTTCTTATTTATT
TCTAGGATGAGGGGAGGATAACATTTTTGCTTTCTTATGTGACTCTCTTGAAAATGTGCAGTAAGAAATTCCTC
AAAAATAAAATTTTTACCCTTCAGAGG

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FIGURE 3520

CAGAGCCTCCTTCAAGATGCTGCTGGTCCTGCTCTCAGTGGTCCTTCTGGCTCTGAGCTCAGCTCAGAGCACAGA
TAATGATGTGAACTATGAAGACTTTACTTTTACCATAACCAGATGTAGAGGACTCAAGTCAGAGACCAGATCAGGG
ACCCACAGAGACCTCCTCCTGAAGGACTCCTACCTAGACCCCTGGTGATAGTGGTAACCAAGATGATGGTCCTCA
GCAGAGACCACCAAAACCAGGAGGCCATCACCGCCATCCTCCCCACCTCCTTTTCAAATCAGCAACGACCACC
CCAACGAGGACACCGTCAACTCTCTCTACCCCGATTTCTTCTGTCAGCCTGCAGGAAGCATCATCATTCTTCCG
GAGGGACAGACCAGCAAGACATCCCCAGGAGCAACCACTCTGGTTAATCTAGAATTCAGTGGCAGAAAATAAATAA
GAAGATAACTTCCTTCAGAAAGCCATGACATTGAAATAATGTGGTCATAACTCTTTC

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FIGURE 3521

MLLVLLSVVLLALSSAQSTDNDVNYEDFTFTIPDVEDSSQRPDQGPQRPPPEGLLP RP PGDSGNQDDGFPQQRPPK
PGGHRHPPPPPFQNRPPQRGHRQLSLPRFPSVSLQEASSFFRRDRPARHPQEQPLW

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FIGURE 3522

GGGGGGGGGAGCACAAAGTTGGGAGTGACACCAGAGCCTCCTGCAAGATGCCTTCTGATTCTGCTGTCAGTGGCCC
TGCTGGCCTTCAGCTCAGCTCAGGATTTAAATGAAGATGTCAGCCAGGAAGATGTTCCCCTCGTAATATCAGATG
GAGGAGACTCTGAGCAGTTCATAGATGAGGAGCGTCAGGGACCACCTTTGGGAGGACAGCAATCTCAACCCTCTG
CTGGTGATGGGAACCAGGATGATGGCCCTCAGCAGGGACCACCCCAACAAGGAGGCCAGCAGCAACAAGGTCCAC
CACCTCCTCAGGGAAAGCCACAAGGACCACCCCAACAGGGAGGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAG
GACCACCCCAACAGGGAGGCCATCCCCGTCTCCTCGAGGAAGGCCACAAGGACCACCCCAACAGGGAGGCCATC
AGCAAGGTCTCTCCCCACCTCCTCCTGGAAAGCCCCAGGGACCACCTCCCCAAGGGGGCCGCCACAAGGACCTC
CACAGGGGCAGTCTCCTCAGTAAATCCAGGATTCAATGACAGGAAGTGAATAAGAAGATAACAGTGTTTCAAATGC
CGTGAAACATGGCATCATGCTCTAACTTCAGTATACCAATAAAACAATCAGCTTGCAATTTT

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FIGURE 3523

MLLILLSVALLAFSSAQDLNEDVSQEDVFLVISDGGDSEQFIDEERQGPPLGGQSQPSAGDGNQDDGPQQGPPQ
QGGQQQQGPPPPQGKPGGPPQQGGHPPPPQGRPQGPPQQGGHPRPPRGRPQGPPQQGGHQGPPPPPPGKPGGP
PQGGRPQGPPQGQSPQ

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FIGURE 3524

TGCAGGGGGGGGAAAAAGTTGGGAGTGACACCAGAGCCTTCTGCAAGATGCCTTCTGATTCTGCTGTCAGTGGCCC
TGCTGGCCTTCAGCTCAGCTCAGGACTTAGATGAAGATGTCAGCCAAGAAGACGTTCCCTTGGTAATATCAGATG
GAGGAGACTCTGAGCAGTTCATAGATGAGGAGCGTCAGGGACCACCTTTGGGAGGACAGCAATCTCAACCCCTCTG
CTGGTGATGGGAACCAGAATGATGGCCCTCAGCAGGGACCACCCCAACAAGGAGGCCAGCAGCAACAAGGTCCAC
CACCTCCTCAGGGAAAAGCCACAAGGACCACCCCAACAGGGAGGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAG
GACCACCCCAACAGGGAGGCCATCCCCGTCTCCTCGAGGAAGGCCACAAGGACCACCCCAACAGGGAGGCCATC
AGCAAGGTCTCCCCACCTCCTCCTGGAAAGCCCCAGGGACCACCTCCCCAAGGGGGCCGCCACAAGGACCTC
CACAGGGGCAGTCTCCTCAGTAATCTAGGATTCAATGACAGGAAGTGAATAAGAAGATGACAGTGTTTCAAATGC
CTTGAAACATAATGTGATCATGCTCTAACTTCAATATACCAATAAAATAATCAGCTTGC

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FIGURE 3525

MLLILLSVALLAFSSAQDLDEDVSQEDVPLVISDGGDSEQFIDEERQGPFPLGGQQSQPSAGDGNQNDGPQQGPPQ
QGGQQQQGPPPPQGKPGGPPQQGGHPPPPQGRPGGPPQQGGHPRPPRGRPGGPPQQGGHQGPPPPPPGKPGGPP
PQGGRPGGPPQGQSPQ

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FIGURE 3526

CCTCTAGCCCTCCCTGCGTTTAGATTTCAGTTGCACCTTTTATTATTTTAACTCTTCTCCTTAGGACACGCAGCCC
CCAATTTGTCCCTCCGCTGGGCGGCCCTGGTCCCGCGCGCCAGCATGGGAGAGCGAGGGACCTGCCCGCGGCC
CGCCGGCGTGTGCAAGGAGGTCCAGCCGCCGCGCCCGCTACCCGGAGTCTGAGGACGGGTGTCCAGGGACGGAGA
GGCAGGTGAGAGGGAGGTGGCTAAGCTGGCTATGGTGACAGGACGATGTTTGGCCAGAAAGAGTATCATCCCGGAG
GAGTATGTGCTGGCGCGCATCGCCGCAGAGAACCTGCGCAAGCCGCGCATCCGAGACCGCCTCCCCAAAGCCCGC
TTCATCGCCAAGAGCGGGGCTGCAACCTGGCGCATAAGAACATCCGTGAGCAAGGACGCTTTCTACAGGACATC
TTCACCACCTTGGTGGACCTGAAATGGCGCCACACGCTGGTCATCTTTACCATGTCCTTCTCTGCAGCTGGCTG
CTCTTCGCTATCATGTGGTGGCTGGTGGCCTTTGCCCATGGGGACATCTATGCTTACATGGAGAAAAGTGGAATG
GAGAAAAGTGGTTTGGAGTCCACTGTGTGTGACTAATGTCAGGTCCTTCACTTCTGCTTTTCTCTTCTCCATT
GAAGTTCAAGTTACCATTGGGTTTGGAGGGAGGATGATGACAGAGGAATGCCCTTTGGCCATCACGGTTTTGATT
CTCCAGAATATTGTGGGTTTGATCATCAATGCAGTCATGTTAGGCTGCATTTTCATGAAAACAGCTCAGGCTCAC
AGAAGGGCAGAACTTTGATTTTCAGCCGCCATGCTGTGATTGCCGTCCGAAATGGCAAGCTGTGCTTCATGTTC
CGAGTGGGTGACCTGAGGAAAAGCATGATCATTAGTGCCTCTGTGCGCATCCAGGTGGTCAAGAAAACAACACTACA
CCTGAAGGGGAGGTGGTTCCTATTACCAACTGGACATTCTGTGATAACCCAATCGAGAGCAATAACATTTTT
CTGGTGGCCCCTTTGATCATCTGCCACGTGATTGACAAGCGCAGTCCCCTGTATGACATCTCAGCAACTGACCTG
GCCAACCAAGACTTGGAGGTCATAGTTATTCTGGAAGGAGTGGTTGAACTACTGGCATCACACACAAGCACGA
ACCTCCTACATTGCTGAGGAGATCCAATGGGGCCACCGCTTTGTGTCCATTGTGACTGAGGAAGAAGGAGTGTAT
TCTGTGGATTACTCCAAATTTGGCAACACTGTTAAAGTAGCTGCTCCACGGTGCAGTGCCCGAGAGCTGGATGAG
AAACCTTCCATCCTTATTCAGACCTCCAAAAGAGTGAAGTGTCTCATCAAAATTCTCTGAGGAAGCGCAACTCC
ATGAGAAGAAACAATTCCATGAGGAGGAACAATTCTATCCGAAGGAACAATTCTTCCCTCATGGTACCAAAGGTG
CAATTTATGACTCCAGAAGGAAATCAAAACACATCGGAATCATGACAGCAAGATAACCCCAAGACAGTCTTTTAT
CAAGTTTTGACGGTTTATGCTGGGCACTGCCAGACTGAACCAGAGCTGGAACACAATAATGTGTCTTCTACATT
TTATTACACTAAATGATATTCATATTCAAGCAACAGCACTTTCTGTAGTAATAAAAAGTAACACACCAAGTGGAG
GATTCATGGCTTATGCTTGTTT

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FIGURE 3527

MLARKSIIP E EYVLARIAAENLRKPRIRDRLPKARFIAKSGACNLAHKNIREQGRFLQDIFTTLVDLKWRHTLVI
FTMSFLCSWLLFAIMWWLVAFAGDIYAYMEKSGMEKSGLESTVCVTNVRSFSAFLFSIEVQVTIGFGGRMMTE
ECPLAITVLILQNIIVGLIINAVMLGCIFMKTAAHRAETLIFSRHAVIAVRNGKLCFMFRVGDRLRKSMIISASV
RIQVVKKTTTPEGEVVP IHQLDIPVDNPIESNNIFLVAPLIICHVIDKRSPLYDISATDLANQDLEVIVILEGVV
ETTGITTQARTSYIAEEIQWGHFRFVSIVTEEEGVYSVDYSKFGNTVKVAAPRCSARELDEKPSILIQTLQKSELS
HQNSLRKRNSMRRNNSMRRNNSIRRNSSLMVPKVQFMTPEGNQNTSES

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FIGURE 3528

GCCGGAGGAGACGCACGCAGCTGACTTTGTCTTCTCCGCACGACTGTTACAGAGGTCTCCAGAGCCTTCTCTCTC
CTGTGCAAAATGGCAACTCTTAAGGAAAACTCATTGCACCAGTTGCGGAAGAAGAGGCAACAGTTCCAAACAAT
AAGATCACTGTAGTGGGTGTTGGACAAGTTGGTATGGCGTGTGCTATCAGCATTCTGGGAAAAGTCTCTGGCTGAT
GAACTTGCTCTTGTGGATGTTTTGGAAGATAAGCTTAAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTT
CTTCAGACACCTAAAATTGTGGCAGATAAAGATTATTCTGTGACTGCCAATTCTAAGATTGTAGTGGTAACTGCA
GGAGTCCGTCAGCAAGAAGGGGAGAGTCGGCTCAATCTGGTGCAGAGAAATGTTAATGTCTTCAAATTCATTATT
CCTCAGATCGTCAAGTACAGTCCTGATTGCATCATAATTGTGGTTTTCCAACCCAGTGGACATTCTTACGTATGTT
ACCTGGAAACTAAGTGGATTACCCAAACACCGCGTGATTGGAAGTGGATGTAATCTGGATTCTGCTAGATTTTCGC
TACCTTATGGCTGAAAACTTGGCATTTCATCCCAGCAGCTGCCATGGATGGATTTTGGGGGAACATGGCGACTCA
AGTGTGGCTGTGTGGAGTGGTGTGAATGTGGCAGGTGTTTCTCTCCAGGAATTGAATCCAGAAATGGGAAGTGC
AATGATAGTGAAAAATTGGAAGGAAGTGCATAAGATGGTGGTTGAAAGTGCCTATGAAGTCATCAAGCTAAAAGGA
TATACCAACTGGGCTATTGGATTAAGTGTGGCTGATCTTATTGAATCCATGTTGAAAAATCTATCCAGGATTTCAT
CCCGTGTCAACAATGGTAAAGGGGATGTATGGCATTGAGAATGAAGTCTTCCTGAGCCTTCCATGTATCCTCAAT
GCCCCGGGGATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGCTCAAGAAAAGTGCAGAT
ACCCTGTGGGACATCCAGAAGGACCTAAAAGACCTGTGACTAGTGAGCTCTAGGCTGTAGAAATTTAAAACTAC
AATGTGATTAACCTCGAGCCTTTAGTTTTTCATCCATGTACATGGATCACAGTTTGCTTTGATCTTCTTCAATATGT
GAATTTGGGCTCACAGAATCAAAGCCTATGCTTGGTTAATGCTTGCAATCTGAGCTCTTGAACAAATAAAATTA
ACTATTGTAGTGTG

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FIGURE 3529

ATTCAGTAAACCACTGGGAGTCCGGCAGC**ATG**GAGGCAGCGCGCCCTCCCCGACGGCAGGGAAGTTCGTGGTGG
TCGGCGGGCGGCATCGCGGGCGTCACTTGTGCGGAGCAGTTGGCTACTCACTTTCCATCGGAAGATATTCTCTTGG
TAACAGCTTCTCCTGTTATTAAAGCAGTTACAAATTTCAAGCAGATTTCTAAAATATTGGAAGAATTTCGATGTTG
AAGAACAATCAAGTACCATGTTAGGAAAACGCTTTCCCAACATTAAGGTTATAGAATCTGGCGTAAAGCAACTGA
AGAGTGAAGAACTGCAATTGTAACAGAAGATGGCAATCAGCACGTATATAAGAACTCTGTCTGTGTGCTGGAG
CTAAACCAAAGTTGATATGTGAAGGAAATCCTTATGTATTAGGAATCCGTGATACAGACAGTGCTCAGGAATTTT
AGAAACAGCTTACTAAAGCTAAAAGAATAATGATCATAGGGAACGGTGGTATTGCACTTGAGTTAGTGTATGAAA
TTGAAGGCTGTGAAGTGATTTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTCTTCGATGCAGGAGCAGCTG
AATTCCTTGACTTCAAAGCTCATTGCTGAAAAATCAGAGGCTAAAAATTGCACATAAAAGAACCAGATATACAACCTG
AAGGAAGGAAAAAGGAAGCTAGAAGCAAATCTAAAGCAGATAATGTAGGAAGTGCATTGGGACCAGATTGGCATG
AAGGCTTGAATCTTAAAGGAACAAAAGAGTTTTCTCATAAGATTACCTTGAAACTATGTGTGAAGTAAAGAAAA
TCTACCTTCAGGATGAGTTTAGAATTTTGAAGAAAAAGTCCTTCACTTTTCCAAGAGACCATAAGTCAGTTACAG
CTGATACAGAGATGTGGCCTGTCTATGTGGAATTGACCAATGAAAAGATATATGGCTGCGATTTCAATTGTCAGTG
CTACAGGAGTTACACCAAATGTAGAACCTTTTCTCCATGGTAACAGTTTTGATCTAGGAGAAGATGGTGGCCTGA
AAGTGGATGATCATATGCACACATCCCTTCCTGATATCTATGCTGCCGGTGACATCTGTACTACATCCTGGCAGC
TGAGCCCAGTCTGGCAGCAGATGAGGCTGTGGACCCAGGCTAGACAGATGGGATGGTATGCAGCAAAGTGCATGG
CTGCAGCGAGTTCAGGAGACTCTATTGACATGGATTTTCAGCTTTGAACTGTTTGCTCATGTGACAAAATTTTTTA
ACTATAAGGTTGTACTGCTGGGAAAATACAATGCACAGGGCTTAGGTTTCAGATCATGAATTAATGCTGAGATGTA
CCAAAGGACGAGGAATACATCAAAGTCGTCATGCAAATGGACGAATGATGGGAGCTGTCTTAATTGGT**TGA**AACC
GATTTAGAAGAAACATTTGAAAACCTAATCTTAAACCAAATGAATCTTTCATCATATGGAGAAGATCTGCTAGAT
CCAAATATTGATATAGAAGATTATTTGACTAAAAATGGAATTTCTTCAGGAATCATATAAAGTTCCAAATGACA
CCAGAAAAATCACAAGTCAATAAAATGAATGACTGTATTGAGTTAATGATGACCACACTGAAAATTACAGAAGTG
ATAATGATATTTCGTGGAAAAATATAAAAAACATAAATTCTAAGTTTGAAATCAGTTCAAAGTTTATTTATAGATAT
ATCTTTCACACAACTGACCGCTTAGATAAAAAATCTTAAGTTATTTATTTCTGTGTTTTAAACATAAATATG
TTTACTTGTGATTTAGCTTTGGAGCAAATTTAGGTAAGTTATCTACTTAGCCAAATGTACTCTAGTAGACTAGAA
CCATTCTTTGTGAAATGTCAAATATGGCTATGGTTTCAGGAACCTTTAAATCGGTTGTATTTTACTTTAAATAG
AGATGTAGCAATACTCGTTTGCTAATATTTATATTGATGACTTACTCCTTTTTTTGTTGAATTGTACTTCTGGTT
TTATAACCTGAAATCATCTACAAGCTTGTCCTAAGCTTAGCCACGGGTCTAATGCAGCCAGAACAGCTTTGAAT
GCAGCCCAACACAAATCTGTAACTTTCTTAAAAACATGAGATTTTTCTTGCAATTTTTTTTTTTTAAAGCTCATC
AGCTATCGTCAGTGTTAGCATATTTTATGTGCGGCCCAAGACAATTCTTCTTCCAATGTGGCTCAGGGAAGCCAA
AAGATTGGACATCCCTGATCTACATAATTTAACTTAAAGTATCACTCAGTGAACCTCTGTCAGTATAATATTGCTT
TCAAAAAGATGGTTATGTCAAAGAAAAAATATAGCTAAGTATATAAAGGCATAAAAAACTTAAGACAATTACAT
GAACCTTATTCTCAAATATTTTACATTTTTTGTAACTTTCTTAAACATGAGATTTTTCTTGCAATTTTTTTTTT
AAGCTCATCAGCTATCATCAGTGTTAGCATATTTTATGTGCGGCCCAAGACAATTCTTCTTCCAATGTGGCTCAG
GGAAGCCAAAAGATTGGACATCCTTGATCTACATATTTAACTTAAAGTATCACTCAGTGAATTTCTTTAAAAAC
TATTGTCTAACTACAAAATAATGGCATATACATGCATAAACCATCTTTAATTAGAAAATTTAGTAACAGTCATA
TCAGGCATCATCGATTTTTCTTTTCTTAGCTCCTGTATTCTTAGAACCAGATTGCTGAAGCATGTTTGCAGCCTT
CTTCTGGAAGTTGCCTGAATTTTTTCTTCCATCTTTTATCACCTTGTTTCAAGATGACAAGTTTGAGACGATTC
AGCCTACAAAAA

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FIGURE 3530

MEAARPPPTAGKFVVVGGGIAGVTCAEQLATHFPSEDILLVTASPVIAKAVTNFKQISKILEEFDVEEQSSTMLGK
RFPNIKVIESGVKQLKSEEHCIVTEDGNQHVYKKLCLCAGAKPKLICEGNPYVLGIRDTSAQEFQKQLTKAKRI
MIIGNGGIALELVYEIEGCEVIWAIKDKAIGNTFFDAGAAEFLTSKLI AEKSEAKIAHKRTRYTTTEGRKKEARSK
SKADNVGSALGPDWHEGLNLKGTKEFSHKIHLETMCEVKKIYLQDEFRI LKKKSFTFPRDHKSVTADTEMWFPVYV
ELTNEKIYGCDFIVSATGVTPNVEPFLHGNSFDLGEDGGLKVDDHMHTSLPDIYAAGDICTTSWQLSPVWQQMRL
WTQARQMGWYAAKCMAAAASSGDSIDMDFSFE LFAHVTKFFNYKVVL LGKYNAQGLGSDHELMRLRCKGRGIHQSR
HAKWTNDGSCLNW

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FIGURE 3531

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTGCCTCGTCAGCCTCCTTGCTCGCCGCAGCCGCCTCCGCCGCG
CGCCTCCTCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTTATCCCC
TGCATCGCGTCACCGGCGTGCCCCACCATGTGACACGCAGCCGTAGACACCAGCTCCGAAATCACCACCGAGGAC
TTAAAGGAGAAGAAGGAAGTTGTGGAAGAGGCGGAAAATGGAAGAGACGCCCCTGCTAACAGGAATGCTAATGAG
GAAAATGGGGAGCCGGAGGCTGACAACGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAA
GAAGGTGATGGTGAGGAAGAGGACGGAGATGAAGATGAGGGAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAA
GATGATGAGGATGACACGCGCTCTCCACCACCCAACCCAAACCATGAGAATTTGCAACAGGGGAGGGAAAAAGAA
CCAAAACCTCCAAGGCCCTGCTTTTTTTTTCTTAAAGTACTTTAAAAAGGAACTTGTATTTTTTATTACATT
TTATATTTTTGTACATATTGTTAGGGTCGGCCATTTTAAATGATCTCGGATGACCAAACAGCCTTCGGAGCGTT
CTCTGTCCTACTTCTCACTTTACTTG

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FIGURE 3532

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTGCCTCGTCAGCCTCCTTGCTCGCCGCAGCCGCCTCCGCCGCG
CGCCTCCTCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTTATCCCC
TGCATCGCGTCACCGGCGTGCCCCACCATGTGACAGCGAGCCGTAGACACCAGCTCCGAAATCACCACCGAGGAC
TTAAAGGAGAAGAAGGAAGTTGTGGAAGAGGCGGAAAATGGAAGAGACGCCCCCTGCTAACAGGAATGCTAATGAG
GAAAATGGGGAGCCGGAGGCTGACAACGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAA
GAAGGTGATGGTGAGGAAGAGGACGGAGATGAAGATGAGGGAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAA
GATGATGAGGATGACGATGTCGATACCCAGAAGCAGAAGACCGACGAGGATGACCAGACAGCAAAAAAGGAAAAG
TTAAACTAAAAAAAAAAGGCCGCCGTGACCTATTGCCCCCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACTT
TCGAGTAGAGGGGGCCCGCCGCCACCGTGGGCAGTGCCACCCGCAGATGACACGCGCTCTCCACCACCCAACCC
AAACCATGAGAATTTGCAACAGGGGAGGGAAAAAGAACCAAACTTCCAAGGCCCTGCTTTTTTTTTTCTTAAAAG
TACTTTAAAAGGAAACTTGTATTTTTTATTTACATTTTATATTTTTGTACATATTGTTAGGGTCGGCCATTTTT
AATGATCTCGGATGACCAAACCAGCCTTCGGAGCGTTCTCTGTCTACTTCTCACTTTACTTGTGGTGTGGCCAT
GTTCAATTATAATCTCAAAGGAGAAAAAAAACCTTGTA AAAAATGCAAAAATGACAACAGAAAAACCATCTTATTC
CGAGCATTCCAGTAACTTTTTTGTGTATGTACTTAGCTGTACTATAAGTAGTTGGTTTGTATGAGATGGTTAAAA
AGGCCAAAGATAAAAGGTTTCTTTTTTTTCCTTGTCTGTGAAGTTGCTGTTTATTTTTTTTTTGGCCTGTTTGATG
TATGTGTGAAACAATGTTGTCCAACAATAAACAGGAATTTTATTTTGCTGAGCTGTTCT

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FIGURE 3533A

AGTAGGGAGGTGGGCAGGAGCCAGTGATGACGGAATGGCAATCACATTTGACCTCTGATCTGTTTATTTCTCTCT
CCTTGACGTCTCCATATAAATGTTACACGGGCATCCCCACACTCGGATACGCACCCACAGTGGCTGATTCTGGGGG
TAACCGTGTCAATTTGCTTGCAACACTGGCACCTCTGCCCTGCACCCCGGGAGTGAGCAGTGAGTGAGGCTCGGGT
CTGGGCGCTGGCTCCGAATCTTCGGGCTGGGAGAGACTCCACCATCTGGGGGCGGCTGGGGGAGCAGCCTTAGT
GTCTTCCTGCTGATGCAATCCGCTAGGTCGCGAGTCTCCGCCGCGAGAGGGCCGGTCTGCAATCCAGCCCGCCAC
GTGTACTCGCCGCCGCTCGGGCACTGCCCCAGGTCTTGCTGCAGCCGGGACCGCGCTCTGCAGCCGCAGACCCG
GTCCACACGGCCAGGGGCTACGACCCCTGGGATCTGCCCTCCGCTCAGCTCGAGCTTCCCTCGTGGCCGACGGAA
CAATGAAGGATTGCAGTAACGGATGCTCCGCAGAGTGACCGGAGAAGGAGGATCAAAAGAGGTGGTGGGGACTT
TTAAGGCTAAAGACCTAATAGTCACACCAGCTACCATTTTAAAGGAAAAACCAGACCCCAATAATCTGGTTTTTG
GAACTGTGTTACGGATCATATGCTGACGGTGGAGTGGTCTCAGAGTTTGGATGGGAGAAACCTCATATCAAGC
CTCTTCAGAACCTGTCAATTCACCCCTGGCTCATCAGCTTTGCACTATGCAGTGGAATTATTTGAAGGATTGAAGG
CATTTTCGAGGAGTAGATAATAAAATTCGACTGTTTTAGCCAAACCTCAACATGGATAGAATGTATCGCTCTGCTG
TGAGGGCAACTCTGCCGGTATTTGACAAAGAAGAGCTCTTAGAGTGTATTCAACAGCTTGTGAAATTGGATCAAG
AATGGGTCCCATATTCAACATCTGCTAGTCTGTATATTCTGCTTACATTCAATTGGAAGTGAAGCTTCTCTTGGAG
TCAAGAAGCCTACCAAAGCCCTGCTCTTTGTACTCTTGAGCCCAGTGGGACCTTATTTTTCAAGTGAACCTTTA
ATCCAGTGTCCCTGTGGGCCAATCCCAAGTATGTAAGAGCCTGGAAAGGTGGAAGTGGGGACTGCAAGATGGGAG
GGAATTACGGCTCATCTCTTTTTGCCCAATGTGAAGCAGTAGATAATGGGTGTCAGCAGGTCTGTGGCTCTATG
GAGAGGACCATCAGATCACTGAAGTGGGAAGTATGAATCTTTTTCTTTACTGGATAAATGAAGATGGAGAAGAAG
AACTGGCAACTCCTCCACTAGATGGCATCATTCTTCCAGGAGTGACAAGGCGGTGCATTCTGGACCTGGCACATC
AGTGGGGTGAATTTAAGGTGTCAGAGAGATACCTCACCATGGATGACTTGACAACAGCCCTGGAGGGGAACAGAG
TGAGAGAGATGTTTGGCTCTGGTACAGCCTGTGTTGTTTGGCCAGTTTCTGATATACTGTACAAAGGCGAGACAA
TACACATTTCCAACTATGGAGAATGGTCCCTAAGCTGGCAAGCCGCATCTTGAGCAAATTAAGTATATCCAGTATG
GAAGAGAAGAGAGCGACTGGACAATGTGCTATCT**TGA**ATGGAAAATAGAGGATACAATGGAAAATAGAGGATAC
CAACTGTATGCTACTGGGACAGACTGTTGCATTTGAATTGTGATAGATTTCTTTGGCTACCTGTGCATAATGTAG
TTTGTAGTATCAATGTGTTACAAGAGTGATTGTTTCTTCATGCCAGAGAAAAATGAATTGCAATCATCAATGGTG
TTTCATAACTTGGTAGTAGTAACCTTACCTTACCTTACCTAGAAAAACATTAATGTAAGCCATATAACATGGGATT
TTCTCAATGATTTTAGTGCTCTCTTTTGTACTTCACTCAGATACTAAATAGTAGTTTATTCTTTAATATAAGTT
ACATTCTGCTCCTCAAACAAATGCAATTTTTTGTGTGTGTTTGAAAGCTAATTTGAGAAAATTTCATAGGTTACA
TTTCTGTCAGCCTATCTTTATCCACAGAAAGTGTCTTTTTTTTTTAAATCAAGACTTTTAAACTGGATTTCTCT
CCCATCACTGTTTTTTGAAGGTCTCTCAAGTCCGTGTTAAGGTAAATATCTGTTTTCTTCTGATGTCACAGCCT
GAGCATACTCTGTGCATTAGGAAGACCTGAGTGCATTTCCACCATTGTCTTTCCACATTATGTTGTAGCTGGC
TGGCTGTCAGGCGACTACAAGACTGAGGGTCTTGTGCCTTATAGATCTTTGTATCCCCCATGGCTGACATATAGT
AGGTACTCAGTAAATGGTTTTTATAATGAATCAGTGAACATTTTGCTTCTATAGAAGTGACCTTCTTTGTTTCTA
TATTATGAAACCTCTTTATTAGAATTTGTGATTGATTCTGACAGTGTATAGATTTACCTTATATTGTCTTTATTT
TCCATGAGCTACTAAGTCATTAGAGATACTCTGAAGCATAGTTAGTTTAGGAAATCACTTCATATTGATTGTATT
AGAATTATCTTGGAATTGAAGATATATCCCTAGAGCAGGGGACCCCAACCCCAAGGCCATGGGCCACACAGCAGG
AAGAGGTGAGTGGTGGGCCATTGAGGAGCTTCATCTGTATTTATGGCTACTTCCCATCACTCGAATTACCACCTG
AACTCCACCTCTTGTGAGCTCAGTGGCAGCATTAGATTCTCATAGGAGCACAAATCCTATTGTGAAGTCTGCATG
CAAGGGATCTAGGCTATGCGCTCCTTATGAGAATCTAATGCTTGATGACCTGAGGTGTAACAGTTTCATCCTGAA
ACCACCTTCACCTGTCAGTCTGTGGAAAAATGTCTTCCACAAAATGGTCCCTGGTGCCAAAAATGTTGGGGA
CCACTGCTCTAGAGAGAGGTCTATGATATCATACCAACCAATGGAAATGACAAATGTTTTATGTCAAGTGTAAAT
TGCAGAAATAAATCTTTTTTTTTTTTTTGGTAGAAAACAAAGAGGCATACTCTGATTTTTATACTCTGTTTTT
GCAGGTGCTCTTTTCTTTGAATGGAGATTTGATGAGCAAGTGGTTAGGATGCAGGGAGAGCTACTATGGGTGATA
TTTTCTTGTGTTAGGAGCTGTGAGTTAAAAATTGTATCCTTTGTGGTTTATCTAAGGAAAGTCAAATCTTGACAGA
AAACATTTTTCTTGGAAAGGTCAACTCTCAGACATTGTATTTTGGTTTCCCTCAGTCCCTCATAACTTCCTTCTTG
CTGAACATATTTTTATTCTCTTTTTCAGAGAAGGAAAAATAAAAGGATTCTAAAAGTTTGATGCATTGGAAAAATTT
CCTTGAGGCATTTAGCAACACATAGAAAATGGGCTTTGATTCTTTTCCAAAACCTTTAGCCATAGGGTCTTTTAT
AGACAGGGATAGTAAAATGAAAATTGAGAAATATAAGATGAAAAGGAATGATAAAAATATCTTTTAGGGGGCTTT

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FIGURE 3533B

TAATTGGTGATCTGAAATCTTGGGAGAAGCTGTTCTTTTCAGGCCTGAGGTGCTCTTGACTGTCGCCTGCGCACT
GTGTACCCCGAGCAACATTCTAAGGGTGTGCTTTTCGCCTTGGCTAACTCCTTTGACCTCATTCTTCATATAGTAG
TCTAGGAAAAAGTTGCAGGTAATTTAAACTGTCTAGTGGTACATAGTAACTAAATTTCTATTCCCTATGAGAAATG
AGAATTATTTATTTGCCATCAACACATTTTATACTTTGCATCTCCAAATTTATTGTGGCGAGACTTGTCCATTGT
GAAAGTTAGAGAACATTATGTTTGTATCATTCTTTTCATAAAACCTCAAGAGCATTTTTAAGCCCTTTTCATCAG
ACCCAGTGAAAACCTAAGGATAGATGTTTAAAAACTGGAGGTCTCCTGATAAGGAGAACACAATCCACCATTGTCA
TTTAAGTAATAAGACAGGAAATTGACCTTGACGCTTTCTTGTTAAATAGATTTAACAGGAACATCTGCACATCTT
TTTTCTTTGTGCACTATTTGTTTAAATTGCAGTGGATTAATACAGCAAGAGTGCCACATTATAACTAGGCAATTAT
CCATTCTTCAAGACTTAGTTATTGTCACACTAATTGATCGTTTTAAGGCATAAGATGGTCTAGCATTAGGAACATG
TGAAGCTAATCTGCTCAAAAAGATCAACAAATTAATATTGTTGCTGATATTTGCATAATTGGCTGCAATTATTTA
ATGTTTAAATTGGGTTGATCAAAATGAGATTCAGCAATTCACAAGTGCATTAATATAAACAGAACTGGTGGCACTTA
AAATGATAATGATTAACTTATATTGCATGTTCTCTTCCCTTTCACTTTTTTCAGTTTCTACATTTTCAGACCGAGCT
TGTCAGCTTTTTTGAACACATCAGTAGAAACCAAGATTTTAAATGAAGTGTCAAGACAAAGGCAAAACCTGA
GCAGTTCCTAAAAAGATTTGCTGTTAGAAATTTCTTTGTGGCAGTCATTTATTAAGGATTCAACTCGTGATACA
CCAAAAGAAGAGTTGACTTCAGAGATGTGTTCCATGCTCTCTAGCACAGGAATGAATAAATTTATAACACCTGCT
TTAGCCTTTGTTTTCAAAAGCACAAAGGAAAAGTGAAAGGGAAAGAGAAACAAGTGAAGTCTTGTTAAG
GAATCAGGTTTTTTCTACCTGGTAAACATTCTCTATTCTTTCTCAAAAGATTGCTGTAAGAAAAAATGTAAGAC

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FIGURE 3534

MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKDPNPNLVFGTVFTDHMLTVEWSSEFGWEKPHIKP
LQNLSLHPGSSALHYAVELFEGGLKAFRGVDNKIRLFQPNLNMDRMYRSAVRATLPVFDKEELLECIQQLVKLDQE
WVPYSTSASLYIRPTFIGTEPSLGVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGG
NYGSSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNLFYWINEDGEEEELATPPLDGIILPGVTRRCILDLAHQ
WGEFKVSERYLTMDDLTTALEGNRVREMFSGTACVVCPVSDILYKGETIHIPTMENGPKLASRILSKLTDIQYG
REESDWTIVLS

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FIGURE 3535

AACACATTTTCAGTTTTGCCTGCATCATAAGAGTGAGCACTCCATTGCTTTCTTTCCTGGCCACACTGCTACAAT
CCAGCACTAACTATCCATGTCCAGGGTAAGGATCGAGATCGAGAAGCCCACACTGCCAGTGAAAAAGCTACGTCT
TTACTGCATAAATTAGAGGAAGCAATTTTCGGAACAACGGAACCTTCAAACCTATAAATACTGAATTATCGAACACT
TGCCAGGCACTTCAGCAGAAGACAAGGAACTGAAGAAGCTTTTTAGATGAGGAATTTCTCACTATGATTCCCT
GTCCTGCGCAGATGCAATTCAACAACCTCTTCAAGAAAAATTGAAGCAGTGTTGCCACAACTATATGGTGGTCA
AGAAGCAAGAATACATCAGACACCCCTGACCTTGAAACATACGTGCTGGTACACACCTCTGCTGGATGCCTTATC
TCTGGATAGTTTTACAGCAGTTCCAACCCTGGAATCAACACCTTTCTCAGGTGTAGCCAACCAAATCCACACTCT
GTGTGAAAGGCCACATATGGAGAAGTAAAGGATGGTGCTTTGGATGTAAAAAGACAACACAAGTGCCAGGCCC
CACAAGTGGCCCCAGCCCAGGAACGAATCTCTCAGGCTGCATCAGGATGAATGATGACCCAAGTATGGAAGAGAA
TGGTGTGTAACGCGTGTGTCTCTGAGAGCCTGCTGCAGTCCAGGGAATATTCTCTACTACCATTACCCAGACACAC
TTCATCGACAGACGGTACTATAACTTCAAGTGATCCTGGATTAGAAATTCTGAATATGGCTTCTTGTGACCTTGA
CAGAACTCGCTCTGTAAAGAAAGAGGAGGATACAAGATCAGCTTCTCCACGATAGAGGCCCAAGGCACAAGTCC
AGCTCATGATAATATTGCATTCCAAGACTCTACGAGTAAGGATAAAACCATATTAAATCTGGAAGCCAAAGAGGA
ACCAGAAACAATAGAAGAACATAAAAAAGAACATGCTTCAGGAGACTCTGTGGTTTCCCCTCTTCTGTAAACCAC
TGTGAAATCGGTTAACCTTAGACAAAAGTGAGAACACTTCTGCTAATGAGAAGGAGGTGGAGGCAGAATTTCTCAG
ATTATCTTTGGGATTTAAGTGTGACTGGTTTACCTTGGAGAAGAGAGTGAAGCTTGAAGAGAGGTCCCGTGACTT
GGCAGAAGAAAATTTGAAGAAAGAAATCACTAAGTGTAAAACTATTAGAGTCTTTAACACCTCTGTGTGAAGA
TGACAACCAGGCACAGGAAATCATTAAGAAGCTGGAGAAGAGTATAAAGTTTCTTAGCCAGTGTGCAGCACGAGT
GGCCAGTAGGGCTGAGATGTTGGGAGCCATCAATCAGGAAAGCCGGGTAGTAAAGCAGTTGAAGTGATGATTCA
GCACGTAGAAAACCTGAAGAGGATGTATGCCAAAGAGCACGCTGAATTAGAAGAACTGAAACAGGTTCTTCTGCA
GAATGAAAGGTCTTTCAATCCTCTTGAAGATGATGATGACTGCCAAATTAAAAAACGTTTCAGCTTCTCTAAACTC
CAAGCCATCTTCTCTACGAAGAGTGACTATTGCCTCTTTACCCAGAAATATTGGAAATGCAGGAATGGTGGCTGG
GATGGAAAATAATGATCGATTCAAGTGAAGGTCAAGCAGTTGGCGTATTTTGGGGTCAAAGCAGAGTGAACACCG
TCCCTCATTACCTCGATTTATTAGCACCTATTCTGGGCAGATGCTGAAGAAGAAAAATGTGAACATAAACTAA
AGATGACTCAGAGCCATCTGGAGAAGAAACAGTAGAAAGGACAAGGAAGCCAAGTCTTTCTGAAAAGAAAAATAA
TCCATCAAAGTGGGATGTCTCTTCAGTTTATGACACAATAGCTTCTGGGCAACAAATCTCAAGTCTCTCCATCAG
AAAAGGCTAATAAGGCCCTCTGGCTCTCTATTGCATTCAATTGTACTGTTTGCAGCTTTGATGAGCTTCTCACAGG
CCAATTATTCCAGAAGTCTGTGGATGCCGCTCCACACAGCAAGAGGACTCATGGACGTCTCTAGAACATATCTT
GTGGCCATTTACCAGACTCCGACACAATGGGCCACCACAGTGTGACAGCAGGACATCCTAATATATGATCTTG
ATTTTTAAGTTTCAGTATCTGAACCTTCGTAAATTAGTAACTTTTAGCTGGGAAAGTATAGCATGAAACCAGAGGT
TCTCAGAATGACTGTAAGATAGCTTACATTTCTCTTTTTGCCTTTATCTCCCCAACTAAAATACAATGGG

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FIGURE 3536

CCAGCCCTGGCGTGGGCCCAGCCCGGCCAGGCAGCA**ATG**GGGTTCCCTGCAGCTGCTGGTCGTAGCGGTGCTGGC
ATCCGAACACCGGGTGGCTGGTGCAGCCGAGGTCTTCGGGAATTCCAGCGAGGGTCTTATTGAATTTTCTGTGGG
GAAATTTAGATACTTCGAGCTCAATAGGCCCTTTCCAGAGGAAGCTATTTTGCATGATATTTCAAGCAATGTGAC
TTTTCTTATTTTCCAAATACACTCACAGTATCAGAATACAACCTGTTTCCTTTTCTCCGACTCTCCTTTCCAATTC
CTCGAAACAGGCACTGCCAGTGGACTGGTTTTTCATCCTTAGACCAGAGCAGAGTACATGCACTTGGTACTTGGG
GACTTCAGGCATACAGCCTGTCCAGAATATGGCTATCCTACTCTCCTACTCAGAAAGAGATCCTGTCCCTGGAGG
CTGTAATTTGGAGTTTCGATTTAGATATTGATCCCCACATTACTTGGGAGTATAATTCCTTTGAACGACTATCAA
GTTTGCCCCAGCAAACCTAGGCTATGCGAGAGGCGTAGATCCCCCACCATGTGACGCTGGGACAGACCAGGACTC
CAGGTGGAGGTTGCAGTATGATGTCTATCAGTATTTTCTGCCTGAGAATGACCTCACTGAGGAGATGTTGCTGAA
GCATCTGCAGAGGATGGTCAGTGTGCCCCAGGTGAAGGCCAGTGCTCTCAAGGTGGTTACCCTAACAGCTAATGA
TAAGACAAGTGTTTTCTTCTCCTCCCTCCCGGGACAAGGTGTCATATACAATGTCATTGTTTGGGACCCGTTTCT
AAATACATCTGCTGCCTACATTCCCTGCTCACACATACGCTTGCAGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTC
CCTAGGAAGAGTGTCTTCCAAAGTGTTCTTCACTCTTTTTGCCCTGCTTGGTTTCTTCATTTGTTTCTTTGGACA
CAGATTCTGGAACAGAAATTAATCTTCATAGGCTTTATCATCATGGGATTCTTCTTTTATATACTGATTACAAG
ACTGACACCTATCAAGTATGATGTGAATCTGATTCTGACAGCTGTCACTGGAAGCGTCGGTGGAAATGTTCTTGGT
AGCTGTGTGGTGGCGATTTGGAATCCTCTCGATCTGCATGCTCTGTGTTGGACTAGTGCTGGGGTTCCCTCATCTC
GTCAGTGACTTTCTTTACTCCACTGGGAAACCTAAAGATTTTTCATGATGATGGTGTATTCTGGGTCACTTTCTC
TTGCATAGCTATCTCATTCCAGTAGTTTTTCATGGGCTGCCTAAGAATACTGAACATACTGACTTGTGGAGTCAT
TGGCTCCTATTCCGTGGTTTTAGCCATTGACAGTTACTGGTCCACAAGCCTTTCCCTACATCACTTTGAACGTACT
CAAGAGAGCGCTCAACAAGGATTTCCACAGAGCTTTCACAAATGTGCCTTTTCAAACCTAATGACTTCATTATCCT
GGCAGTATGGGGCATGCTGGCTGTAAGTGGAATTACGTTACAGATTGGAAGAGAGAGAGGACGACCGTTCTTCCC
TCCCCACCCATACAAGTTATGGAAGCAAGAGAGAGAGCGCCGAGTGACAAACATTCTGGACCCTAGCTACCACAT
TCCTCCATTGAGAGAGAGGCTCTATGGCCGATTAACCCAGATTAAAGGGCTCTTCCAGAAGGAGCAGCCAGCTGG
AGAGAGAACGCCTTTGCTTCTG**TAG**ATGCCAGGGGCTTGGTCAGTGTGCCTCAGCTTTGGAGTTCATGCCTGGA
GTGGTTCAACAGTCTCTGGTGCAAGTCTAATAAGAGATCAGGCATATATATCTGTTCTTTGCATAATATTATGGT
GCCCTTATTGATATATGGTAAGGGTGTACTAGGGGATTAGGATGATTGTAAGAGAATGAGAAAGATGACCAAAAG
GTTGGTGGTAGGGAGGCTTTTTCTTATTTCCAAATACTTGAGAAATTACCTTTTGGTTTACAAATCTATGATCAA
CTTATTCCATTAAATAGATACATTAAAAAAATTAAAAACTGATTCTTCTGCAGAGCACTGGTGTTTCTTTTATA
ACCCCTTGAAACAAGTCTCTCACCTGAGCCTGTCTAAACTTTTCGGAGGGAGTTTATTATTGAGTCTTTATCTGTG
ACAGTATTTGGAGATTTAGGGATTTGATACTTAGGCCTTTGAATTTTAGAATACAAAAAGAGAAGCAAGCCAGAC
ATGGTGGCTCACACCTGTAATCCCAATACTGGGAAGCCAAGGTGGGAGTATCGCTTGAGCCCAGGAGTTTGAGAC
CGACATGGGCAACATGACAAGACCCCATCTCTACAAAAAAATTAAAAAATTAGCCAGGCATGGTGGCACATGCCT
ACTCCCAGCTCCCAAGGAGACTGAGATGGGAGGATCCCTGGAGCCCTGAAGATTGAGGCTACAGTGAGCCTTGAT
TGTGTCACTGCACTCCAGCTTGGGTGACAGAGACCTGTCTCGAGAAATT

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FIGURE 3537

MGFLQLLVVAVLASEHRVAGAAEVFGNSSEGLIEFSVGKFRYFELNRPFPEEAILHDISSNVTFLIFQIHSQYQN
TTVSFSPILLSNSSETGTASGLVFILRPEQSTCTWYLGTSIQPVQNMAILLSYSERDPVPGGCNLEFDLDIDPN
IYLEYNFFETTIFAPANLGYARGVDPPPCDAGTDQDSRWRLQYDVYQYFLPENDLTEEMLLKHLQRMVSVQPVK
ASALKVVILTANDKTSVSFSSLPQGVIYNVIVWDPFLNTSAAYIPAHTYACSFEEAGEGSCASLGRVSSKVFFTL
FALLGFFICFFGHRFWKTEFFIGFIIMGFFFYILITRLTPIKYDVNLILTAVTGSVGGMFLVAVVWRFGILSIC
MLCVGLVLGFLISSVTFFFTPLGNLKFHDDGVFWVTFSCIAILIPVVMGCLRILNILTCGVIGSYSVVLADSY
WSTLSYITLNVLKRALNKDFHRAFTNVPFQTNDFIILAVWGMLAVSGITLQIRRERGRPFPPHPYKLWKQERE
RRVTNILDPSYHIPPLRERLYGRLTQIKGLFQKEQPAGERTPLLL

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FIGURE 3538

AGACTATCTTTCTAGACAAGGCAGTTGAGGAGGAGGGAGCGCTTGAGGGGGACTGGCCTGGCGTGCACTCCGCAC
CTCGGGGACATTATTGCGCGTGGAACGGCTGCTTTTGGGAAGGCACAACCTTCCTGAATGGACCATGACTCCCA
AAGATCCCTGTCTCTGATTACCAAACAGCTTCAACCCTGAAAACAGGACGAGAAGTTGACAACATCTGAGTGG
CAGCTAATTGACCTAAGACTTCAGACCAGACTATTGCCAGAGAAGAAAAGATGTTTGGTTTTTACAAAGCCAAAGAT
GTACCGAAGTATAGAGGGCTGCTGTATTTGCAGAGCTAAGTCTCCAGTTCTCGATTCACTGACAGTAAACGCTA
TGAAAAGGACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTTCAGGAGACATCTGCAATGCCTGTGTCTCTGCT
TGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGCTGGACC
CAGTCTAAAGACTACATTGAAACCAAAGAAAGTGAAAACCTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAG
TAACTGCAGAAGGAATTTAAACGTCATAATTCTGATGCTCACAGTACCACCTCAAGTGCCTCCCCAGCTCAATC
TCCTTGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTT
TTCCTTTTTTAGATCTCACTTACTGGAAGACAGAAGATATGTTGTGGGATCATCTATAAAGGCCGTTTTGGGA
AGTCCTCATTGACACACATCTCTTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCTGAGAAGCCAGAGGAGCA
GGGGCCAGAGCCTCTGCCCATCTCCACTCAGGAGTGGTGACTGAGGTTTTATGTAGAAGGGGAACAAAAA
AATATCTGAATTTTTGAAAAACCACAAAGCTACAACTGACCCTCTTTTTTTTTTGTAGACGGAGTTTTGCTCTGT
TACCCAGGCTGGAGTGCACTGGCGTGATCTTGGCTCACTGCAACTTCCGTCTCCCGGTTCAAGTGATTCTCCTG
CCTCAGCCTCCCAAGTAGCTGGGTTTATAGGTGCCGCCACCAGACCCGGCTAATTTTTTAGTTTTAGTAGAGAC
GGGTTTTACCACGTTGGCCAGGCTGGTCTTAAATGACCCTCTTATTTTTAACTTGGATACCTGCTATTCTGCCA
AAAGACAATTTCTAGAGTAGTTTTGAATGGGTTGATTTCCCCACTCCCACAACTCTGAAGCCAGTGTCTAGCT
TACTAAAAAAGAGTTGTATATAATATTTAAGATGCTGAGTATTTTCATAGGAAAGCTGAATGCTGCTGTAAAGTG
CTCTTTAAGTCTTTTTTTTTTTTAAATCCCCTTCTAATGAATGAACTAGGGGAATTTTCAGGGGACAGAGATGGGA
TTTGTGTATGATAAACTGTATGTAGTTTTTAGTCTTTCTGTTTTGAGAAGCAGTGTTGGGGCATTTTTAAGAT
GGCTGGCTACTCTTGTTTTCCCTCATGATAATAAATTTGTCATAACTCAGTAACATGAACCTGCCCTAGAGGTA
GTTGTTAATAATTTTGAAATATTAAGGTCTTGCCAAGCTTCTGATGATTCACACCTGTACTACTGATTATTAAGC
AGGACAGACTGAGCTTTCTGTTGCAAATACCTTGGAGGAGAAAGTAATTTCTAAATATACAGAGAGGTAACCTTGA
CTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATATTTGATAAAGATTTTAAATTTATGTAAAACCTTCTAAA
GCAGAATCAAAGCTCCTCTTGGGGAAATGGCAAGTCTTTAGGATAGGCAAGACCCGTGATGAATAGTACCAAAGC
ATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAAATGTGCAAGTCTTCAGG
ATGGCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATATAATCGA
CTTTTGTGTGTGTTACATGACTTCTGTGACTTCATTGAAAATCTGCACAATTCAGTTTCAGCTCTGGATTACTTC
AGTTGACCTTTGTGAAGGTTTTTATCTGTGTAGAATGGGTGTTTGACTTGTTTTAGCCTATTAAATTTTTATTTT
CTTTCACCTCTGTATTAAAAGTAAAACCTTACTAAAAGAAAAGAGGTTTGTGTTTACATTAAATGGTTTTGGTTTG
CTTCTTTTAGTCAGGCTTTTCTGAACATTGAGATATCCTGAACCTTAGAGCTCTTCAATCCTAAGATTTTCATGAAA
AGCCTCTCACTTGAACCCAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTTCAGGAAAAGCATTGCCAGTT
CAGTCTTTTCAAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTTATTTTTTAACTGC
ATTTTAAAAAATTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTC
TTAATCTAAACATTTTATATTTCTTCTTTTGAAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATA
CAGTGAGTTGAGTTGGCTCTCCACAGTCTTTGAGGTGAATTACAAAAGTCCAGCCATTATCATCCTCCTGAGTT
ATTTGAAATGATTTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTA
CTTCTGTATTTATTTATTTATTACTAGACCTCAACCACAGTCTTCTTTTTCCCCTCCACCTCTCTTTGCCTGTA
GGATGTACTGTATGTAGTCATGCACTTGTATTAATATATTAGAAATCTACAGATCTGTTTTGTACTTTTTATAC
TGTTGGATACTTATAATCAAACCTTTTACTAGGGTATTGAATAAATCTAGTCTTACTAGAAAATAAAA

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FIGURE 3539

CTTTCCCAAGCGGCTGGCGAAGACGGCAGAGGTGCAGGTCTTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTCGTACGCTGCGAAGGCATCAACATT
TCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTCGCTTTCTCCGCAAGCGGATGAACACCAACTCTTACCGA
GGCTCCTACCACTTCCGGGGCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAG
CGAGGCCAGGCCGCTCTGGACCGCCTCAAGGTGTTTGATGGCATCCCACCGCCCTACGACAAGAAAAAGCGGATG
GTGGTTCCTGTTGCCCTCAAGGTTGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCAC
GAGTTTGGCTGGAAGTACCAGGCAGGGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTAC
GGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACA
GAGGTCCTCAAGACCCACGGCCTCCTGATCTGAGCCCAATAAAGACTGTTAATTCCTCA

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FIGURE 3540A

CTGAGGGGACCCGCCAGTTTCTAACTCAGTGGCGTTTGGCCCTGATTCCCGGGGCCTGGCTTTCAGCGTAGCAATT
CTGCCGGCGAAGAAGGTGAGCGCAGTGTGTGTGGCAGCAGAGCTCCTTAGGACGAGGAGCAGCGGGACGAGGAA
GGGCAGACTGGTGAAATCGCAAACCTGGGCGTCTGTTCCGGCGCCGGACCCCTATTTGCAAAGGTCCATGGCTAAT
GAAACACAGAAGGTTGGTGCCATCCATTTTCCCTTTCCCTTTCACACCCTATTCCATCCAGGAAGACTTCATGGCA
GAGCTGTACCGGGTTTTTGGAGGCTGGCAAGATTGGGATATTTGAGAGTCCAACCTGGCACTGGGAAGTCCTTAAGT
CTTATTTGTGGGGCCCTCTCTTGGCTCCGTGACTTTGAACAGAAAGAGCCTGAAGAAGAGGCACGACTCCTTGAA
ACTGGAACCTGGCCCCCTTACATGATGAGAAAGATGAATCCCTGTGTCTGTCTTCTTCTGCGAAGGGGCTGCAGGC
ACCCCGAGGCCTGCTGGAGAACC GGCTGGGTTACTCAGTTTGTGCAGAAGAAAGAGAGGGGACCTGGTGAC
CGACTAAAGGCGGAGCAGGCCAGGAGGAAGCAGCGAGAAGAAGCCTGCAGCAGCTGCAGCACAGGGTGCAGCTC
AAGTATGCAGCCAAGCGCCTGAGGCAGGAAGAAGAAGAAGAGAGAATCTCCTCCGCCTCAGCAGGGAGATGCTA
GAGACAGGCCCCGAGGCTGAGCGGCTGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCCGAATACGAG
AGTGATGAGGAGAAAAAGGTGGCGAGCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAG
ATTTATTACTGTAGTCGGACACACTCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCCCTTTGGCAAG
GATGTTCCGGCTGGTCTCCCTTGGCTCCCGGCAGAACCTTTGTGTAATGAAGACGTGAAAAGCCTAGGTTCTGTG
CAGCTTATCAACGACCGCTGTGTGGACATGCAGAGAAGCAGGCACGAGAAGAAGAAAGGAGCTGAGGAGGAGAAG
CCAAAGAGGAGGAGGCAGGAGAAGCAGGCAGCCTGCCCCCTTCTACAACCACGAGCAGATGGGCCTTCTCCGGGAT
GAGGCCCTGGCAGAGGTGAAGGACATGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCCTGTCCCTATTAC
GGGAGCCGCTTGGCATCCCTGCAGCCAGCTGGTGGTGCTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGG
CAGGCCGCGGGCATCCGGCTGCAGGACCAGGTGGTGATCATCGACGAGGCGCACAACTGATCGACACCATCACG
GGCATGCACAGCGTGGAGGTCAGCGGCTCCCAGCTCTGCCAGGCCCATTCCCAGCTGCTGCAGTACGTGGAGCGA
TACGGGAAGCGTTTGAAGGCCAAGAACCTGATGTACCTGAAGCAGATCCTGTATTGCTGGAGAAATTCGTGGCT
GTGCTAGGGGGGAACATTAAAGCAAATCCCAATACACAGAGTCTGTACAGACAGGGACGGAGCTGAAGACCATC
AACGACTTTCTCTTCCAGAGCCAGATCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATG
ATCAGCAGAAAGCTCTTTGGATTCACTGAACGGTACGGAGCAGTGTTCTCATCCCGGGAGCAGCCCAAACCTGGCT
GGGTTTCAGCAATTCTTGACAGAGCCTGCAGCCCAGGACGACTGAAGCTCTTGACAGCCCCTGCAGACGAGAGTCAG
GCCAGCACCCCTGCGACCAGCTTCTCCACTGATGCACATCCAAGGCTTCTTGGCAGCTCTCACTACGGCCAACCAG
GACGGCAGGGTCATCCTGAGCCGCCAAGGCAGCCTCAGTCAGAGCACCCCTGAAGTTTTTGTCTCTGAATCCAGCT
GTGCACTTTGCCCAAGTGGTGAAGGAATGCCGGGCAGTGGTCAATTGCGGGGGTACCATGCAGCCGGTGTCTGAC
TTCCGGCAGCAGCTGCTGGCCTGTGCCGGGTGGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTTCAGTGATC
CCTCCAGACAACATCCTGCCCTCGTCAICTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCAGTTCCAGAAA
AGAGAGCTGCCTCAGATGATGGACGAGGTGGGTGCGATTCTCTGTAACTGTGCGGTGTGGTTCTTGAGGGGTG
GTCTGTTTCTTCCCCTCCTACGAGTACCTGCGCCAGGTCCATGCCCACTGGGAGAAGGGTGGCCTGCTGGGCCGT
CTGGCTGCCAGGAAGAAGATATTCCAGGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCATATTCC
AGGTGCATCCAGGCCTGTGGCCAGGAGAGAGGCCAGGTGACAGGGGCCCTGCTCCTCTGTGTGGTTGGAGGAAAG
ATGAGTGAAGGGATCAACTTCTCTGACAACCTAGGCCGGTGTGTGGTGATGGTGGGCATGCCCTTCCCCAACATC
AGGTCTGCAGAGCTGCAGGAGAAGATGGCCTACTTGGATCAAACCCCTCAGCCCCCGGCCAGGCACCCCCAGGGAA
GGCTCTGGTGGAGAACCTGTGCATGAAGGCCGTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAGAAGGATTT
TGCCAGCGTAGTGCTCCTGGACCAGCGATATGCCCGGCCCCCTGTCTTGCCAAGCTGCCGGCCTGGATCCGAGC
CCGTGTGGAGGTCAAAGCTACCTTTGGCCCCGCCATTGCTGCTGTGCAGAAGTTTACC CGGAGAAGTCGGCCTC
TTCTGTATGGGCAACCACACCACTGCCTGGCGCCGTGCCCTTCTTTGTCTGCCCCGTGGAGACAGTGTTTGTG
GTGGGCGTGGTCTGCGGGGATCCTGTTACAAAGGTGAAACCCAGGAGGAGAGTGTTGGAGTCCAGAGTGCTGCCAG
GACCCAGGCACAGGCGTTAGCTCCCGTAGGAGAAAATGGGGGAATCCTGAATGAACAGTGGGTCTGGCTGTCTCT
TGGGGCGTTCCAGGGCAGCTCCCCCTCTGGAATAGAATCTTTCTTTCCATCCTGCATGGCTGAGAGCCAGGCTTC
CTTCTGGTCTCCGCAGGAGGCTGTGGCAGCTGTGGCATCCACTGTGGCATCTCCGTCTGCCACCTTCTTAAG
AGGCGAGATGGAGCAGGCCCATCTGCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTCTC
TGGTCTCAATTTAAATGATCCATGGCCACAGGGCTCCTGCCAGGGGCTTGTCACCTTCCCCTCCTCCTTCCCTG
AGTCACTCCTTCAGTAGAAGGCCCTGCTCCCTATCCTGTCCACAGCCCTGCCTGGATTGTATCCTTGGCTTCG
TGCCAGTTCTCCAAGTCTATGGCACCTCCCTCCCTCTCAACCACTTGAGCAAACTCCAAGACACCTTCTACCCC

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FIGURE 3540B

AACACCAGCAATTATGCCAAGGGCCGTTAGGCTCTCAACATGACTATAGAGACCCCGTGCATCACGGAGACCTT
TGTTCTGTGGGAAAATATCCCTCCCACCTGCAACAGCTGCCCCTGCTGACTGCGCCTGTCTTCTCCCTCTGACC
CCAGAGAAAGGGGCTGTGGTCAGCTGGGATCTTCTGCCACCATCAGGGACAAACGGGGGCAGGAGGAAAGTCACT
GATGCCCAGATGTTTGCATCCTGCACAGCTATAGGTCCTTAAATAAAAGTGTGCTGTTGGTT

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FIGURE 3541

MANETQKVGAIHFPPFPTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALSWLRDFEQKKREEEAR
LLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAGEPAWVTQFVQKKEERDLVNRLKAEQARRKQREERLQQLQHR
VQLKYAAKRLRQEEEEERENLLRLSREMLETGPEAERPEQLESGEELVLAEYESDEEKKVASRVDEDEDDEEEH
ITKIYHCSRTHSQLAQFVHEVKKSPFGKDVRLVSLGSRQNLVCNEDVRSLSVQLINNRCVDMQRSRHEKKKGAE
EEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYGSR LAIPAAQLVVL PYQMLLHA
ATRQAAGIRLQDQVVIIDEAHNLIDTTTSMHSVEVSGSQLCQAHSQQLQYMERYGKRLKAKNLMYKQIILYLLK
FVAVLGGNIKQNPNTQSLSQTGMELKTINDFLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQP
KLAGFQQFLQSLQPRTEALAAPADESQASVPQPASPLMHIEGFLAALT TANQDGRVILSRQGSLSQSTLKFLLL
NPAVHFAQVVKECRAVVIAGGTMQPVS NFRQQLLACAGVEAERVVEFSCGHVIPP DNILPLVICSGVSNQPLEFT
FQKRDLPQMMDEVGRILCNLCGVVSGGVVCFFPSY EYLRQVHAHWEKGGLLGR LAARKKIFQEPKSAHQVEQVLL
AYSRCGQACGQERGPVTGALLLSVVGKMS EGINFSDNLGR CVVMVGMPFPNIRSAELQEK MAYLDQTLPRAPGQ
AHPGKALVENLCMKAVNQSIGRAIRHQKDFASIVLLDQRYARPLCWPS CRPGSEPVWRSKLPLAPPLLLCRSFTG
RSRPLPDGQPHHRPAPCP SFVLPSGDSVC RGRGLQGSCYKGETQEESVESRALPGPRHRR

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FIGURE 3542

ATGAGTCTGACTTCCAGTTCAGCGGACGAGTTGAATGGATGGCAGCAGTTACCGTTGCTGCTGGGACAGCTGCA
ATTGGTTATCTAGCTTACAAAAGATTTTATGTTAAAGATCATCGAAATAAAGCTGTGATAAACCTTCACATCCAG
AAAGACAACCCCAAGACAGTACATGCTTTTGACATGGAGGATTTGGGAGATAATGCTGTGTACTGCCGTTTCTGG
AGAGAGCCACGACCTGCCCCAGCTGTTGGAGAAGCTGAAAAATAAAGGGAATCAACAATCAGCCAATCATCCAAGC
CAGCAACCTGCTCGCTGTGGCTACCAGCCTCCCCACCACTATTTACGTAGCCTCTATCCTCCTAAGGCTCCTTCA
CAAGATGGCAGAGACCGAAGCAGGTCATTAAGTATCTGGCTGAACGATGGGTTAAGGCCAGAGTGGGCTTCAGAG
CTGGGGCCACTATGA

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FIGURE 3543

CCTCCCCCCTTTCCCAAGGACAATCTGCAAGAAAGCAGCGGCGGAGGAGAGCTAAGACTAAAAGAGTGGATCATG
ACCCATGAAGAGCACCATGCAGCCAAAACCCTGGGGATTGGCAAAGCCATTGCTGTCTTAACCTCTGGTGGAGAT
GCCCAAGGTATGAATGCTGCTGTCAGGGCTGTGGTTTCGAGTTGGTATCTTCACCGGTGCCCCGTGTCTTCTTTGTC
CATGAGGGTTATCAAGGCCTGGTGGATGGTGGAGATCACATCAAGGAAGCCACCTGGGAGAGCGTTTCGATGATG
CTTCAGCTGGGAGGCACGGTGATTGGAAGTGCCCGGTGCAAGGACTTTCGGGAACGAGAAGGACGACTCCGAGCT
GCCTACAACCTGGTGAAGCGTGGGATCACCAATCTCTGTGTCATTGGGGGTGATGGCAGCCTCACTGGGGCTGAC
ACCTTCCGTTCTGAGTGGAGTGACTTGTTGAGTGACCTCCAGAAAGCAGGTAAGATCACAGATGAGGAGGCTACG
AAGTCCAGCTACCTGAACATTGTGGGCCCTGGTTGGGTCAATTGACAATGACTTCTGTGGCACCGATATGACCATT
GGCACTGACTCTGCCCTGCATCGGATCATGGAAATTGTAGATGCCATCACTACCACTGCCCAGAGCCACCAGAGG
ACATTTGTGTTAGAAAGTAATGGGCCGCCACTGTGGATACCTGGCCCTTGTCACCTCTCTGTCTGTGGGGCCGAC
TGGGTTTTTATTCCCTGAATGTCCACCAGATGACGACTGGGAGGAACACCTTTGTCGCCGACTCAGCGAGACAAGG
ACCCGTGGTTCTCGTCTCAACATCATCATTGTGGCTGAGGGTGCAATTGACAAGAATGGAAAACCAATCACCTCA
GAAGACATCAAGAATGTTCTGTATGAATGAAGCCAGAGAGGCCTTAGAATCCATAGCCCATTCCCTTCTGGCTTCT
GAGTCTCCTGACATTGCTTCTCCCTTGGTCTTCTGCACATCTCTCCCTGGTTCCTGCCCCTGATTGCCTCCC
ACAAAGAACCATTACAAGACAAGAGGCTGAGCTGTCCATGGTTTACCCAAGTCTCTGCTTGTTTTCTTCTTTGA
CTCTGCGTAACCCCTCTCTCTGTCCCTCTGTTGGTCCCTTCAGCTGGTGGTTAAGCGTCTGGGATATGACACCCGG
GTTACTGTCTTGGGGCATGTGCAGAGGGGTGGGACGCCATCAGCCTTTGACAGAATTCTGGGCAGCAGGATGGGT
GTGGAAGCAGTGATGGCACTTTTGGAGGGGACCCCAGATACCCCAGCCTGTGTAGTGAGCCTCTCTGGTAACCAG
GCTGTGCGCCTGCCCCCTCATGGAATGTGTCCAGGTG

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FIGURE 3544

MTHEEHHAAKTLGIGKAI AVLTS GGDAQGMNAAVRAVVRVGIFTGARVFFVHEGYQGLVDGGDHIKEATWESVSM
MLQLGGTVIGSARCKDFREREGRRLRAAYNLVKGITNLCVIGGDGSLTGADTFRSEWSDLLSDLQKAGKITDEEA
TKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEVMGRHCGYLALVTSLS CGA
DWVFIPECPPDDDWEEHLCRRLSETRTRGSRLNIIIVAEGAIDKNGKPITSEDIKNVRMNEAREALESIAHSLLA
SESPDIASPLGPSAHL SLVPCP

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FIGURE 3545A

ACGCAGAGCGCTGCTGGGCTGCCGGGTCTCCCGCTTCCCCCTCCTGCTCCAAGGGCCTCCTGCATGAGGGCGCGG
TAGAGACCCGGACCCGCGCCGTGCTCCTGCCGTTTCGCTGCGCTCCGCCCCGGGCCCGGCTCAGCCAGGCCCCGCG
GTGAGCCATGATTGCGCTCGGGGCTCCCCAGACGCTGGTGCTGCTGACGCTGCTCGTCGCCGCTGTCTTCGGTG
TCAGGGCCAGGATGTCCGGCAACCAGGACCAAAGGGACAGAAAGGAGAACCTGGAGACATCAAGGATATTGTAGG
ACCCAAAGGACCTCCTGGGCCTCAGGGACCTGCAGGGGAACAAGGACCCAGAGGGGATCGTGGTGACAAAGGTGA
AAAAGGTGCCCCCTGGACCTCGTGGCAGAGATGGAGAACCTGGGACCCCTGGAAATCCTGGCCCCCCTGGTCTCTCC
CGGCCCCCCTGGTCCCCCTGGTCTTGGTGGAACTTTTGCTGCCCAGATGGCTGGAGGATTTGATGAAAAGGCTGG
TGGCGCCCAGTTGGGAGTAATGCAAGGACCAATGGGCCCCATGGGACCTCGAGGACCTCCAGGCCCTGCAGGTGC
TCCTGGGCCTCAAGGATTTCAAGGCAATCCTGGTGAACCTGGTGAACCTGGTGTCTCTGGTCCCATGGGTCCCCG
TGGTCTCTCCTGGTCCCCCTGGAAAGCCTGGTGTATGATGGTGAAGCTGGAAAACCTGGAAAAGCTGGTGAAAGGGG
TCCGCTGGTCTCTCAGGGTGCTCGTGGTTTCCAGGAACCCAGGCCTTCTGGTGTCAAAGGTACAGAGGTTA
TCCAGGCCTGGACGGTGCTAAGGGAGAGGCGGGTGCTCCTGGTGTGAAGGGTGAGAGTGGTTCCCCGGGTGAGAA
CGGATCTCCGGGCCCCAATGGGTCTCTGTGGCCTGCCTGGTGAAAGAGGACGGAAGTGGCCCTGCTGGCGCTGCGGG
TGCCCGAGGCAACGATGGTCAGCCAGGCCCCGAGGGCCTCCGGGTCTGTGCGTCTGCTGGTGGTCTCTGGCTT
CCCTGGTGCTCCTGGAGCCAAGGGTGAAGCCGGCCCCACTGGTGCCCGTGGTCTCTGAAGGTGCTCAAGGTCTCTCG
CGGTGAACCTGGTACTCTGGGTCCCCCTGGGCCTGCTGGTGCTCCGGTAACCCTGGAACAGATGGAATTCCTGG
AGCCAAAGGATCTGCTGGTGCTCCTGGCATTGCTGGTGCTCCTGGCTTCCCTGGGCCACGGGGCCCTCCTGGCCC
TCAAGGTGCAACTGGTCTCTGGGCCCGAAAGGTGACAGCGGTGAACCTGGTATTGCTGGCTTCAAAGGTGAACA
AGGCCCCAAGGGAGAACCTGGCCCTGCTGGCCCCCAGGGAGCCCTGGACCCGCTGGTGAAGAAGGCAAGAGAGG
TGCCCGTGGAGAGCCTGGTGGCGTTGGGCCCATCGGTCCCCCTGGAGAAAGAGGTGCTCCCGGCAACCGCGGTTT
CCCAGGTCAAGATGGTCTGGCAGGTCCCAAGGGAGCCCTGGAGAGCGAGGGCCAGTGGTCTTGTGGCCCCAA
GGGAGCCAACGGTGACCTGGCCGTCTGGAGAACCTGGCCTTCTGGAGCCCGGGGTCTCACTGGCCGCCCTGG
TGATGCTGGTCTCTAAGGCAAAAGTTGGCCCTTCTGGAGCCCTGGTGAAGATGGTCTCTGGACCTCCAGGTCC
TCAGGGGGCTCGTGGGCAGCCTGGTGTCTATGGGTTTCCCTGGCCCCAAAGGTGCCAACGGTGAGCCTGGCAAAGC
TGGTGAGAAGGGACTGCCTGGTGCTCCTGGTCTGAGGGGTCTTCTGGCAAAGATGGTGAGACAGGTGCTGCAGG
ACCCCTGGCCCTGCTGGACCTGCTGGTGAACGAGGCGAGCAGGGTGCTCCTGGGCCATCTGGGTTCCAGGGACT
TCCTGGCCCTCCTGGTCCCCCAGGTGAAGGTGGAAAACAGGTGACCAGGGTGTTCCCGGTGAAGCTGGAGCCCC
TGGCCTCGTGGGTCCCAGGGGTGAACGAGGTTTCCAGGTGAACGTGGCTCTCCCGGTGCCAGGGCCTCCAGGG
TCCCCGTGGCCTCCCCGGCACTCCTGGCACTGATGGTCCCAAAGGTGCATCTGGCCAGCAGGCCCCCCTGGGGC
TCAGGGCCCTCCAGGTCTTCAGGGAATGCCTGGCGAGAGGGGAGCAGCTGGTATCGCTGGGCCCAAAGGCGACAG
GGGTGACGTTGGTGAGAAAGGCCCTGAGGGAGCCCTGGAAAGGATGGTGGACGAGGCCTGACAGGTCCCATTGG
CCCCCTGGCCCAGCTGGTGCTAATGGCGAGAAGGGAGAAGTTGGACCTCCTGGTCTCTGCAGGAAGTGCTGGTG
TCGTGGCGCTCCGGGTGAACGTGGAGAGACTGGGCCCCCGGACCAGCGGATTTGCTGGGCCTCCTGGTGCTGA
TGGCCAGCCTGGGGCCAAGGGTGAGCAAGGAGAGGCCGGCCAGAAAGGCGATGCTGGTGCCCTGGTCTCTCAGGG
CCCCTCTGGAGCACCTGGGCCTCAGGGTCTTACTGGAGTGACTGGTCTTAAAGGAGCCCGAGGTGCCCAAGGCC
CCCGGGAGCCACTGGATTCCCTGGAGCTGCTGGCCGCGTTGGACCCCCAGGCTCCAATGGCAACCCTGGACCCCC
TGGTCCCCCTGGTCTTCTGGAAAAGATGGTCCCAAAGGTGCTCGAGGAGACAGCGGCCCCCTGGCCGAGCTGG
TGAACCCGGCCTCCAAGGTCTGCTGGACCCCTGGCGAGAAGGGAGAGCCTGGAGATGACGGTCCCTCTGGTG
CGAAGGTCCACCAGGTCCCCAGGGTCTGGCTGGTTCAGAGAGGCATCGTCGGTCTGCTGGGCAACGTGGTGAGAG
AGGATTCCTGGCTTGCCCTGGCCCGTCGGGTGAGCCCGGCAAGCAGGGTGCTCCTGGAGCATCTGGAGACAGAGG
TCCTCCTGGCCCCGTGGGTCTCTGGCCTGACGGTCTCTGCAGGTGAACCTGGACGAGAGGGAAGCCCCGGTG
TGATGGCCCCCTGGCAGAGATGGCGCTGCTGGAGTCAAGGGTGATCGTGGTGAGACTGGTGTGTGGGAGCTCC
TGGAGCCCCCTGGGCCCCCTGGCTCCCCCTGGCCCCGCTGGTCCAACCTGGCAAGCAAGGAGACAGAGGAGAAGCTGG
TGCACAAGGCCCATGGGACCTCAGGACCAGCTGGAGCCCGGGGAATCCAGGGTCTCAAGGCCCCAGAGGTGA
CAAAGGAGAGGCTGGAGAGCCTGGCGAGAGAGGCCTGAAGGGACACCGTGGCTTCACTGGTCTGCAGGGTCTGCC
CGGCCCTCCTGGTCTTCTGGAGACCAAGGTGCTTCTGGTCTCTGCTGGTCTTCTGGCCCTAGAGGTCTCTCTGG
CCCCGTGCGTCCCTCTGGCAAAGATGGTGCTAATGGAATCCCTGGCCCCATTGGGCTCCTGGTCCCCGTGGACG
ATCAGGCGAAACCGGCCCTGCTGGTCTCTGGAAATCCTGGACCCCTGGTCTCTCAGGTCCCCCTGGCCCTGG

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FIGURE 3545B

CATCGACATGTCCGCCTTTGCTGGCTTAGGCCCCGAGAGAGAAGGGCCCCGACCCCTGCAGTACATGCGGGCCGA
CCAGGCAGCCGGTGGCCTGAGACAGCATGACGCCGAGGTGGATGCCACACTCAAGTCCCTCAACAACCAGATTGA
GAGCATCCGCAGCCCCGAGGGCTCCCGCAAGAACCCTGCTCGCACCTGCAGAGACCTGAAACTCTGCCACCCTGA
GTGGAAGAGTGGAGACTACTGGATTGACCCCAACCAAGGCTGCACCTTGGACGCCATGAAGGTTTTCTGCAACAT
GGAGACTGGCGAGACTTGCCTTACCCCAATCCAGCAAACGTTCCCAAGAAGAACTGGTGGAGCAGCAAGAGCAA
GGAGAAGAAACACATCTGGTTTGGAGAAACCATCAATGGTGGCTTCCATTTAGCTATGGAGATGACAATCTGGC
TCCCAACACTGCCAACGTCCAGATGACCTTCCTACGCCTGCTGTCCACGGAAGGCTCCCAGAACATCACCTACCA
CTGCAAGAACAGCATTGCCTATCTGGACGAAGCAGCTGGCAACCTCAAGAAGGCCCTGCTCATCCAGGGCTCCAA
TGACGTGGAGATCCGGGCAGAGGGCAATAGCAGGTTTACGTACACTGCCCTGAAGGATGGCTGCACGAAACATAC
CGGTAAGTGGGGCAAGACTGTTATCGAGTACCGGTCACAGAAAGACCTCACGCCTCCCCATCATTGACATTGCACC
CATGGACATAGGAGGGCCCGAGCAGGAATTCCGGTGTGGACATAGGGCCGGTCTGCTTCTTGTAACAACTGAACC
CAGAAACAACACAATCCGTTGCAAACCCAAAGGACCCAAAGTACTTTCCAATCTCAGTCACTCTAGGACTCTGCAC
TGAATGGCTGACCTGACCTGATGTCCATTTCATCCACCCCTCTCACAGTTCGGACTTTTCTCCCTCTCTTTCTAA
GAGACCTGAACTGGGCAGACTGCAAAATAAAATCTCGGTGTTCTATTTATTTATTGTCTTCTGTAAAGACCTTCG
GGTCAAGGCAGAGGCAGGAACTAACTGGTGTGAGTCAAATGCCCCCTGAGTGACTGCCCCAGCCCAGGCCAGA
AGACCTCCCTTCAGGTGCCGGGCGCAGGAACCTGTGTGTGTCTACACAATGGTGCTATTCTGTGTCAAACACCTC
TGTATTTTTTAAACATCAATTGATATTAAAAATGAAAAGATTATTGGAAAGT

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FIGURE 3546

ATGAGCCACCACCCGTCGGGCCTCCGGGCCGGCTTCAGCTCCACCTCATACCGCCGTACCTTCGGTCCACCGCCC
TCACTATCCCCCGGGGCTTCTCCTACTCGTCCAGCTCCCGCTTCTCCAGCAGCCGCCTGCTGGGCTCCGCGTCC
CCGAGCTCCTCGGTGCGCCTGGGCAGCTTCCGTAGCCCCGAGCGGGAGCGGGCGCCCTCCTGCGCCTGCCCTCG
GAGCGCCTCGACTTCTCCATGGCCGAGGCCCTCAACCAGGAGTTCCTGGCCACGCGCAGCAACGAGAAGCAGGAG
CTGCAGGAGCTCAACGACCGCTTCGCCAACTTCATCGAGAAGGTACGCTTTCTGGAGCAGCAGAACGCGGCCCTG
CGCGGGGAGCTGAGCCAAGCCCCGGGGCCAGGAGCCGGCGCGCGCCGACCAGCTGTGCCAGCAGGAGCTGCGCGAG
CTGCGGCGAGAGCTGGAGCTGTTGGGCCGCGAGCGTGACCGGGTGCAAGTGGAGCGCGACGGGCTGGCGGAGGAC
CTGGCGGCGCTCAAGCAGAGGTTGGAGGAGGAGACGCGCAAGCGGGAGGACGCGGAGCACAACCTCGTGCTCTTC
CGCAAGGACGTGGACGATGCCACTCTGTCCCGCCTGGAAGTAGAGCGCAAGATTGAGTCTCTGATGGATGAGATT
GAGTTCCTCAAGAAGCTGCACGAGGAGGAGCTGCGAGACCTGCAGGTGAGTGTGGAGAGCCAGCAGGTGCAGCAG
GTGGAGGTGGAAGCCACGGTGAAGCCCGAGCTGACGGCAGCGCTGAGGGACATCCGCGCGCAGTACGAGAGCATC
GCCGCGAAGAACCTGCAGGAGGCGGAGGAGTGGTACAAGTCCAAGTACGCGGACCTGTCCGACGCTGCCAACCGG
AACCACGAGGCCCTGCGCCAGGCCAAGCAGGAGATGAACGAGTCCCGACGCCAGATCCAGAGTCTAACGTGCGAG
GTGGACGGGCTGCGCGGCACGAACGAGGCGCTGCTCAGGCAGTTGAGAGAGCTGGAGGAGCAGTTCGCCCTGGAG
GCGGGGGGCTACCAGGCGGGCGCTGCGCGGCTCGAGGAGGAGCTGCGACAGCTAAAAGAGGAGATGGCGCGGCAC
CTGAGGGAGTACCAGGAGCTCCTCAACGTCAAGATGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTG
GAGGGCGAGGAGAGCCGGATCTCCGTGCCCGTCCATTCTTTTGCTCCTTAAATATAAAGACGACTGTGCCTGAG
GTGGAGCCTCCCCAGGACAGCCACAGCCGGAAGACGGTTCTGATCAAGACCATTGAGACCCGGAATGGGGAGGTG
GTGACAGAGTCCCAGAAGGAGCAGCGCAGTGAGCTGGACAAGTCTTCTGCCACAGTTACTTGAACCCCTTGGTCC
GGAGCCTTGACTCTGCCCTAGGCCTGCTCAAAGCCCAAACCCTAAGACCACTCCTGAATTGTCTCCTCTCCCTCT
GCATGTGTCTAAAGGTGGTACCAGGCATCCCTTTCTGGCTTATGGCCAAGCCCTACCCGGCCAGCAGTCGCTG
GCCTCTCCCTGCCCTGACACTTGATGTGACCTATGTGCTTCCCTTTTCATGTCCCGATAAGAAGCCAATGATCCC
CCCTCAGGACAAATCTACTCCAGCCACGATGAGAAGTGGGTGAGCCAGGGTCTGAGTTTCACATTTGAACCAAAT
AAAATGCTGTCAAGAGAAAAAA

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FIGURE 3547

MSHHPSGLRAGFSSTSYRRTFGPPPSLSPGAFSYSSSSRFSSSRLLGSASPSSSVRLGSFRSPRAGAGALLRLPS
ERLDFSMAEALNQEFLATRSNEKQELQELNDRFANFIEKVRFLEQQNAALRGELSQARGQEPARADQLCQQELRE
LRRELELLGREERDRVQVERDGLAEDLAALKQRLEEETRKREDAEHNLVLFKRDVDDATLSRLELERKIESLMDEI
EFLKKLHEEELRDLQVSVESQQVQQVEVEATVKPELTAALRDIRAQYESIAAKNLQEAEWYKSKYADLSDAANR
NHEALRQAKQEMNESRRQIQSLTCEVDGLRGTNEALLRQLRELEEQFALEAGGYQAGAARLEEEELRQLKEEMARH
LREYQELLNVKMALDIEIATYRKLEGEESRISVPVHSFASLNIKTTVPEVEPPQDSHSRKTVLIKTIETRNGEV
VTESQKEQRSELDKSSAHSY

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FIGURE 3548

GTTTCTGTCGCAGGCTGCGAGGAAAGGCCCTAGGCTGGGTCTGGGTGCTTGGCGGCGGCGGCTTCCTCCCCGCT
CGTCCTCCCCGGGCCCAGAGGCACCTCGGCTTCAGTCATGCTGAGCAGAGTATGGAAGCACCTGACTACGAAGTG
CTATCCGTGCGAGAACAGCTATTCCACGAGAGGATCCGCGAGTGATTATATCAACACTTCTGTTTGCAACACTG
TACATCCTCTGCCACATCTTCCTGACCCGCTTCAAGAAGCCTGCTGAGTTCACCACAGTTTCATCCTACAAAATG
GGCGTAACAATGTCTACCTACTCCATTGTGTGGACCAAAGGAGATGTTAATGTGAAAGCCCTTTGTGAACCTGA
AGTGAGCAACTGCTGGATGAATGTCATTACGGGCACAGGCTCTGTGTCATCTCCTCTCCTAGTGCTTCCACAGCC
AGGACCAGAGACCTCCCTGATGACTGGGGAACCTGTGGATGATGAAGATGCCACCGTCAACAAGATTGCGCTCGA
GCTGTGCACCTTTACCCCTGGCAATTGCCCTGGGTGCTGTCTGCTCCTGCCCTTCTCCATCATCAGCAATGAGGT
GCTGCTCTCCCTGCCTCGGAATACTACATCCAGTGGCTCAACGGCTCCCTCATCCATGGCCTCTGGAACCTTGT
TTTTCTCTTCTCCAACCTGTCCCTCATCTTCCTCATGCCCTTTGCATATTTCTTCACTGAGTCTGAGGGCTTTGC
TGGCTCCAGAAAGGGTGTCCTGGGCGGGTCTATGAGACAGTGGTGACGTTGATGCTCCTCACTCTGCTGGTGCT
AGGTATGGTGTGGGTGGCATCAGCCATTGTGGACAAGAACAAGGCCAACAGAGAGTCACTCTATGACTTTTGGGA
GTACTATCTCCCCCTACCTCTACTCATGCATCTCCTTCCTTGGGGTTCTGCTGCTCCTGGTGTGTACTCCACTGGG
TCTCGCCCGCATGTTCTCCGTCACTGGGAAGCTGCTAGTCAAGCCCCGGCTGCTGGAAGACCTGGAGGAGCAGCT
GTACTGCTCAGCCTTTGAGGAGGCAGCCCTGACCCGCAGGATCTGTAATCCTACTTTCCTGCTGGCTGCCTTTAGA
CATGGAGCTGCTACACAGACAGGTCCTGGCTCTGCAGACACAGAGGTCCTGCTGGAGAAGAGGCGGAAGGCTTC
AGCCTGGCAACGGAACCTGGGCTACCCCTGGCTATGCTGTGCTTGCTGGTGCTGACGGGCCTGTCTGTGCTCAT
TGTGGCCATCCACATCCTGGAGCTGCTCATCGATGAGGCTGCCATGCCCCGAGTCATGCAGGGTACCTCCTTAGG
CCAGGTCTCCTTCTCCAAGCTGGGCTCCTTTGGTGCCGTCAATCAGGTTGTACTCATCTTTTACCTAATGGTGT
CTCAGTTGTGGGCTTCTATAGCTCTCCACTCTTCCGGAGCCTGCGGCCAGATGGCACGACACTGCCATGACGCA
GATAATTGGGAACCTGTGTCTGTCTCCTGGTCCTAAGCTCAGCACTTCCTGTCTTCTCTCGAACCTGGGGCTCAC
TCGCTTTGACCTGCTGGGTGACTTTGGACGCTTCAACTGGCTGGGCAATTTCTACATTGTGTTCTCTACAACGC
AGCCTTTGCAGGCCTCACCACACTCTGTCTGGTGAAGACCTTCACTGCAGCTGTGCGGGCAGAGCTGATCCGGGC
CTTTGGGCTGGACAGACTGCCGCTGCCGCTCTCCGGTTTCCCCCAGGCATCTAGGAAGACCCAGCACCAGTGACC
TCCAGCTGGGGGTGGGAAGGAAAAAACTGGACACTGCCATCTGCTGCCTAGGCCTGGAGGGAAGCCCAAGGCTAC
TTGGACCTCAGGACCTGGAATCTGAGAGGGTGGGTGGCAGAGGGGAGCAGAGCCATCTGCACTATTGCATAATCT
GAGCCAGAGTTTGGGACCAGGACCTCCTGCTTTTCCATACTTAACTGTGGCCTCAGCATGGGGTAGGGCTGGGTG
ACTGGGTCTAGCCCCCTGATCCCAAATCTGTTTACACATCAATCTGCCTCACTGCTGTTCTGGGCCATCCCCATAG
CCATGTTTACATGATTTGATGTGCAATAGGGTGGGGTAGGGGCAGGGAAAGGACTGGGCCAGGGCAGGCTCGGGA
GATAGATTGTCTCCCTTGCTCTGGCCCAGCAGAGCCTAAGCACTGTGCTATCCTGGAGGGGCTTTGGACCACCT
GAAAGACCAAGGGGATAGGGAGGAGGAGGCTTCAGCCATCAGCAATAAAGTTGATCCAGGGTTTGCTTTGTTTT
TTT

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FIGURE 3549

MVNVKALCEPEVSNCWMNVITGTGSVSSPLLVLPPQGPETSLMTGEPVDDDEDATVNKIALELCTFTLAIALGAVL
LLPFSIIISNEVLLSLPRNYIIQWLNGSLIHGLWNLVFLFSNLSLIFLMPFAYFFTESEGFAGSRKGV LGRVYETV
VTLMLLTLLVLGMVWVASAIVDKNKNANRESLYDFWEYYLPYLYSCISFLGVLLLLLVCTPLGLARMF SVTGKLLVK
PRLLLEDLEEQLYCSAFEEAALTRRICNPTSCWLPLDMELLHRQVLALQTQRVLLEKRRKASAWQRNLGYPLAMLC
LLVLTGLSVLIVAIHILELLIDEAAMPVVMQGTSLGQVSFSKLGSGGAVIQVVLIFYLMVSSVVG FYSSPLFRSL
RPRWHD TAMTQIIGNCVCLLVLSALPVFSRTLGLTRFDLLGDFGRFNWLGNFYIVFLYNAAFAGLTTLCLVKTF
TAAVRAELIRAFGLDRLPLPVSGFPQASRKTQHQ

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FIGURE 3550

GGAGGTGGGAAGTATCCCGGGCTGGGGGTGGGGGTACGCCGCACAGCTCCAGTCGCCGTCGCCGGCTTCCGGTGCT
AGGTGGAGGGAAGGAAGGAGGGAGCCGGGGAGTGGGCCAGGGCAGCAGCCGGGCTGAAGTCGGCTTGGGGAGCCA
GAGGGAGCGGAGCGGAACCTGCGGGGCAGAGGCGGGCGGCCGAGCGGCGCAGCTGATAGCAGGAACAGGATCAAG
TCTTCCATACACAGGGACCAGGCCAAAACCAGACTGCCACTGCCCTACTTGGGCCCCACTGTCCCCAGAAAGCAG
CTGCTGTGATC**ATG**GGCAATATCTTTGAAACCTTCTCAAGAGCCTGATTGGGAAGAAGGAGATGCGCATCCTGA
TGGTGGGCCTGGATGCCGCAGGAAAGACCACCATCCTATACAAGCTGAAACTGGGGGAGATCGTCACCACCATCC
CTACCATTGGGTTCAATGTGGAGACAGTGGAGTATAAGAAACATCAGCTTTACAGTGTGGGATGTGGGTGGCCAGG
ACAAGATTGACCCCTCTGGAGACACTACTTCCAGAACACCCAAAGGTTGATATTTGTGGTGCACAGCAATGATC
GGGAGCGAGTAAATGAGGCCCCGGGAAGAGCTGATGAGAATGCTGGCGGAGGACGAGCTCCGGGATGCTGTACTCC
TTGTCTTTGCAAAACAAACAGGATCTGCCTAATGCTATGAACGCTGCTGAGATCACAGACAAGCTGGGCCTGCATT
CCCTTCGTACCCGTAACCTGGTACATTACAGCCACCTGTGCCACCAGCGGGGACGGGCTGTACGAAGGCCTGGACT
GGCTGGCCAATCAGCTCAAAAACAAGAAG**TGA**AAGCCAGACAGCCCTAACAAAGCACCCACCCACCCCTGACAT
ACCTACTGTACCCCTGCCCCAGTCTACCCCTTCCCTCTCCATGCAAGTGTGGCCAGGGCCCTGGGTATCATGTCC
ACATGCCCAGCAAGAGCCTTGCCCTCCCCTGCCTCCCCTCCTTTTCTGTCCACCTATATGACCAATCCCTAATT
GCTGTCTGTATGATGAGTCATTCCAATTTACTGGATTTAAAACAAAAGTTGTTACGGTTTCATGGGGTGGCCCC
TCTCTCTCTCTCACCTCTGGGTTTCGGGAGGTGAGTGGGGTATTCTCTTTGTTTGGCAGTGGTTGCTGTCTCT
TGGCATCTGAGTCCTTTCCCTGTCCCCACAAGCCCTTCTACTCCCTGTTTGCCTTTCCTTTGCCACCCTCTCCCT
GTTTTACATGGAAATTGCACGGGCCTCTCTGTGTTTGCCTGCATGTGTGCGCCTGTATATACATGTATAGAGAGA
TATATTTGTGGGGGCGGGGGGAGCGGGGAGGGGTGGAGTGAAGCTCAGGGCTTGCCAGCCAGGACACTGCCAC
TGGAGCCTGTCTATCTGCCCTTCCGTGTTGGTGAGATTAAGGGAAGAAGGTGGGAGGGCATTAGTCAAGCCGGAC
TGCCCCAGTCTTTGACTGGTTACCCCTCCTCTCTGCAGGTAGGTTTTTCTGGATGATAGGACAGATGATGGATTCT
TCACCACCATTTTTCTTGTACTCTTCTCTCCACCCTTCTTAGGGCTGGAGGATGGCATTATCTCTAGATGACTG
TTCCCAAGGAGATGCCACTCTGCTCTGCCTTACTGTTGGGAAGGAGAGAGGAACCCACTCACTCTTATCAGCTTA
GAGTGTTCAACTGATCCTTCCCCACCATCTTCAGATCTGTTCTCTGGAGCTTGACTGGGGGGTGGGGATGGCAA
GTCCATGGTGTGTGTTAGGGACCCAGGGCATTGGGGGAAGGGAGGCGAAGGCCCTGAGGTTTTCCATCTTCATTCT
CTTTTGTATTAGGAGAAGGTGAGGCATGGGCCAATCCCATTCCCTGCCTTCCAGTGCCCCACCACCCTTCTGAIC
TTAGGGGTGGATGGGTCACTGTCTTGGTCAGAATTTTCTCACCCCTAGTACTCCTACTGGCCTGACCAGGGCT
GACTGGGTATTCTAATGAGGAGCTGGGAAGTGGGGTGACATAGCTGACCTTAGTATCAACCCCCCTCTTCTCCAA
CTCTTGTTTTCTAGTCCAGGATATGCTAAAGGACGAAGATTTTCTATTGTTTCCAGGCCCTCAGACCATCCTTGC
TGTCCTTCCACCCTCCATGCCCTGCCATCCTCACTCACTTCTCATAAATGGATCTGGGGGTTAGAGTGGAGGAA
ATAAAATCCTGAAGTGGTTGTCAGTGCTTGTGGGATGCAGTGGTCTTCAGGATTCTCCCGCATTATTATGTAGT
TGTTCAAGAGCTGTTGCTACTGCGTCTCTCTGTCTGCAGGGGGCACTTGTTCTGAGGTCTCGCCTGGGTCTG
ACTTCTGTAGTTTCTGTGAAGACGTGGCTGTCTGTGGGCTCCTGTGTGTGCTGGCTGCGCCTGAGCTCCGAGAC
AGCTGCCCATAACCTGCTAAGGTGAGGGCCAGGGCCCCCACAGCATGGCTGAGGGACCCCTTCCAGTAGGGC
TGTCCAAGCCCCACTCCATGGGGCCAGGTTTCTGGCCACTTTTGTTGATAGCAGATGGATCAATATTAGTAAC
CCCATCCAAGATTGAACTGTGAAAGAGAGGTTCCAGGGGTATCTCCCTCAGTGCCAGTTACTTAGTGATGTGTTA
CCCAGGATGCAGCAGGTGTGTGCAGGTATCTTGCTCTCTAGGCCTGTGTGTGTGTGTGAGTGTGTGTGTATATGG
GTGTGGGTGTGTTTGTGTGTGTTGTTGTGGGGGGGTGTTGGAGGTTCTATTTCAATTTAAAATGTATTCATTT
CCCTGGCCCCACAGATGCTTCCCTCCATACTTTTTATTGCTCTGTTTCCCTCAGATTTATTTTGTCTTGCCCCAT
TGCCCTCTCCTTCCCTTGAACCTCTTCCCTTTCAATCTCAACTCACTCACTGCTGTTGCTCATTTGCCCTTTTCCAT
GTATTTTTTCTTACTTAGGATTTTCCACTCTATCTTTGTGGTTCATGAGGACTTTGCCTCTTCTCCTGCCTCATT
CCCTGACTTTTCTCTAGTTAGATGTCAGTCTAAATAGGTTTTCTCACTTCAGGCCTCACCCCTCACCTTGTTTT
TTTGGGGGCTCCAGGGACCAATCTGGGGCTGGAAATGTTAGGAGGTTGCCTTGGTGTGCCCCAGATCTGTCCAG
CAGGGGGCAGTAAGTGATCTTGGTAGTATCCCTGGCTGCTAAGCCCTTGGCAGGGGTGGTCCTTTCTACATTTCC
ATTCACCTAACAGCTCTTTTGGGATTGGGTGTTTCATTCCATTTCTGCCCACTCCCTCTCCTCTCCTCTCTGGTA
GGTTTAATTTTATGCTTTCCCTGATTCCAGCTTTCTGCTTCCCTGAGGACTCCCGCTCCCCCACCCCAAAGTTTG
TCTGTGGTGTTATAGTGGTAACTGCAGTTCCCTCCTCTGGAATGTAGACTGTATATGTTTAATAACTCACCTTCTC
TATCCTTGCTCAAAATGTGGGATAACCGGATGACTGTGACCCTGGTTGGAAATTAAACTTGTTTTATGCA

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FIGURE 3551

MGNIFGNLLKSLIGKKEMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAEDEL RDAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH
RNWYIQATCATSGDGLYEGLDWLANQLKNKK

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FIGURE 3552

AGTGCGGCGCAGCGCAGCTCCTGAGGTTTTGGTTATGAACAGGATTCCGGATTACGTCTTGCCAACCAATCGGGG
GAGGATCACTCCAGTGCCCAGGTCTCAGGAACCTCTGTCTTGTGCATTCACTCATCGTCCATGCTCTCACCCTCG
TCTGGAGGGGCAGGAGTTTTGCATTAAGCATATCCTTGAAGACAAGAATGCACCCTTCAAGCAGTGTAGTTATAT
ATCGACGAAGAATGGAAAAAGATGTCCCAATGCTGCCCCAAAGCCAGAGAAGAAAGATGGGGTGTCTTCTGTGC
TGAACATGTCCGTAGGAATGCCCTGGCACTTCATGCTCAAATGAAGAAGACCAACCTAGGGCCTGTGGGTGAAAC
ACTCCTGTGCCAGCTGAGCTCATATGCTAAGACAGAGCTGGGGTCTCAGACTCCAGAAAGTAGTCGCAGTGAAGC
CAGCCGAATACTAGACATGCTGGTGTCTACACAGCAGAAGAAGTGGCCCTGATT**ATG**CGTGAAAAGCTAATTCGT
TTGCAGTCGTTGTATATTGATCAGTTTAAACGACTTCAGCATCTGCTCAAGGAGAAGAAGCGCCGATACTTACAT
AATCGCAAAGTGGAACATGAAGCTCTAGGCAGTAGTCTCCTGACTGGCCCAGAGGGACTTTTGGCCAAAGAACGA
GAGAACTTAAAGCGATTAAATGTCTGCGACGATACCGCCAGCGCTATGGAGTGGAAGCCTTACTGCATAGGCAG
TTGAAGGAACGGAGAAATGCTGGCCACAGATGGTGTGCCCCAACAGGCCCATACCACTCGTTCCAGTCAGAGGTGC
TTGGCCTTTGTGGATGATGTTTCGTTGTTCCAATCAGTCTCTTCCAATGACCAGACACTGCCTTACCCAGAAAGAT
GCGACTGCCATTGGTGACCTGTAACTCTTTACTGTGGTCTAATGGAGACAGCACTCGACT**TGA**AAGTGAAGGACC
CAGACTCTAGTTGACTTGGATGTTGTGGGTGATGGTATGCAGTGTCTCCTTTCACCTTTGCTTTTTGATCCTTCA
CTAACCTTGAAGATCATTTAGTCAAAGAAATTGCTGAAGACACAGTGGATATTTTGGGCCAGATGCAGATGGCT
GGAGATGGGTGCAGATCCCAGGGATCTCGAAATTCTGAGAAAGCCTCTGCACCATTGTCTCAGAGTGGATTGGCT
ACTGCAAATGGGAAGCCAGAACCCACTTCTATTAGTTGATAGTTTGGGGAACCATTTTACTTTGGTGGATTTAAA
TTTCTCGTTCTTCAAAGAAGTATTTCTGATCATCTCTCACAAAACACAGGCAACCCAGACTACCTTGTTTTCTT
CTGGATTGAGTATTATAGTCAAACGTAAAGCCAAATTTTGAAGACGTGGACCGTGGGTTTCTTCCCACTCAGGGC
AAGGAAGAGAAAGAGAGATAATCCCTATCAAAGCTTCTGGGATCATTGGGACTATACCTAAAAGGAAAGTGACA
TCTTTGTAATGGGATTTCCCAAGTCATGGATAGAAATCCACTTAAGTAGCTAGGTGGGAGCTGTCTTTGTGAGTG
GTGTCTTTGAGATACTGATGGCCCTAATATCGGTTATCTCTATCTGAAGACCTGCAGTTTAGCTTTTCTTACCT
CTACTTAATTGGGCAGTCTTTAACCCCTTTCCCTGGTGAACCTCTGGCTTTTTATCCTCTGAGAAAACAGCCCACA
GGACTGGGTCTCTCTTATCCGTCTTGCTTTTAACTATGTAAATTTCTGTGGTTGCTATCTTATGTAAATATAG
TAAAAATTTATTGTATATAGTTTCTATTAAATGTTAAAGAAAATGTTATGAAAATATCAAACAGTCACCTGAATT
GAATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3553

MREKLIRLQSLYIDQFKRLQHLLKEKKRRYLHNRKVEHEALGSSLLTGPEGLLAKERENLKRLKCLRRYRQRYGV
EALLHRQLKERRMLATDGAAQQAHTTRSSQRCLAFVDDVRCSNQSLPMTRHCLTQKDATAIGDLLTLYCGLMETA
LD

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FIGURE 3554A

ATGGACAGCCAGAAGCTGGCTGGTGAGGATAAAGATTGAGAACCGGCAGCTGATGGACCTGCAGCTTCTGAGGAC
CCAAGTGCCACTGAGTCAGACCTGCCCAACCCACATGTGGGAGAGGTCTCTGTCCTTAGATTCTGGGAGTCCCAGG
CTTCAGGAGACTCCTCAGGACTGCAGTGGGGGTCCGGTGCGGCGTTGTGCTCTCTGTAACTGCGGGGAGCCCCAGT
CTACACGGGCAGCGGGAGCTACGGCGCTTTGAGTTGCCATTTGATTGGCCCCGGTGTCCAGTGGTGTCCCCCTGGG
GGGAGCCCAGGGCCCAATGAGGCAGTGTGCCCAGTGAGGACCTATCACAGATTGGTTTCCCTGAGGGGCCCTTACA
CCTGCCCACCTAGGAGAACCTGGAGGGTCTGCTGGGCTCACCATTTGGTGTGCTGCATGGTCGGCAGGCGTATGG
GGGAGGAGGGGCCAGAACTATGTGGTGTGGACAAGGCCATCTTCTCAGGGATCTCACAGCGCTGCTCCCACTGC
ACCAGGCTCGGTGCCTCCATCCCTTGCCGCTCACCTGGATGTCCACGGCTTTACCACTTCCCCTGCGCGACTGCC
AGCGGTTTCTTCTATCCATGAAAACACTGCAGCTGCTATGCCCAGAGCACAGTGAGGGGGCTGCATATCTGGAG
GAGGCTCGCTGTGCAGTGTGTGAGGGGCCAGGGGAGTTGTGTGACCTGTTCTTCTGTACCAGCTGTGGGCATCAC
TATCACGGGGCCTGCCTGGACACTGCTCTGACTGCCCCGAAACGTGCTGGCTGGCAGTGCCCTGAATGCAAAGTG
TGCCAAGCCTGCAGGAAACCTGGGAATGACTCTAAGATGTTGGTTTGTGAGACGTGTGACAAAGGATACCATACT
TTCTGCCTAAAACCAACCCATGGAGGAAGTGCCTGCTCACTCTTGGAAGTGCAAGGCGTGCCGGGTGTGCCGGGCC
TGTGGGGCGGGCTCAGCAGAACTGAATCCCAACTCGGAGTGGTTTGAAGAACTACTCTCTGTCAACCGCTGTAC
AAAGCCCAGGGAGGTCAGACTATCCGCTCCGTTGCTGAGCAGCATACCCCGGTGTGTAGCAGATTTTACCCCCA
GAGCCTGGCGATACCCCCACTGACGAGCCCGATGCTCTGTACGTTGCATGCCAAGGGCAGCCAAAGGGTGGGCAC
GTGACCTCTATGCAACCCAAGGAACAGGGCCCCCTGCAATGTGAAGCCAAACCACTAGGGAAAGCAGGGGTCCAA
CTTGAGCCCCAGTTGGAGGGCCCCCTAAACGAGGAGATGCCACTGCTGCCCCCACCTGAGGAGTCACCCCTGTCC
CCACCACCTGAGGAATCACCCACGTCCCCACCACCTGAGGCATCACGCTGTCAACCACCACTGAGGAATTGCC
GCATCCCCACTTCTGAGGCATTGCACCTGTCCCGCCGCTGGAGGAATCGCCCCCTCTCTCCGCCGCTGAGGAG
TCTCCTCTGTCTCCCCACCTGAATCATCACCTTTTTCTCCACTGGAGGAGTCGCCCTTGTCTCCACCGGAAGAG
TCACCCCCATCTCCTGCACTTGAGACGCCTCTATCCCCACCACCTGAAGCATCGCCCCCTGTCCCCACCATTGAA
GAATCTCCTTTGTCCCCGCCACCTGAGGAATTGCCCACTTCCCCGCCACCTGAAGCATCTCGCCTGTCTCCACCA
CCTGAGGAGTCACCCATGTCCCCTCCACCTGAAGAGTCACCCATGTCTCCACCACCGGAGGCATCTCGTCTGTTT
CCACCATTGGAAGAGTCTCCTCTGTCCCCTCCACCTGAGGAGTCTCCCCTTTCCCCACCACCTGAGGCATCACGC
CTGTCCCCACCACCTGAGGACTCGCCTATGTCCCCACCACCTGAAGAATCACCTATGTCCCCCCCCACCTGAGGTA
TCGCGCCTATCCCCCTGCCTGTGGTGTACGCTGTCTCCACCGCTGAGGAATCTCCCTTGTCCCCACCGGCC
CTGTCTCCTTTGGGGGAGTTAGAGTACCCCTTTGGTGCCAAAGGGGACAGTGACCCTGAGTCACCGTTGGCTGCC
CCCATCCTGGAGACACCCATCAGCCCTCCACCAGAAGCTAACTGCACTGACCCTGAGCCTGTCCCCCTATGATC
CTTCCCCCATCTCCAGGCTCCCCAGTGGGGCCGGCTTCTCCCATCCTGATGGAGCCCTTCTCCTCAGTGTTTCG
CCACTCCTTCAGCATTCCCTGGTTCCCCAAAACCTCCCCTCCTTCCAGTGCTCTCCTCCTGCCCTACCACTGTCC
GTTCCCTCCCCGTTGAGTCCCATAGGGAAGGTAGTGGGGGTCTCAGATGAGGCTGAGCTGCACGAGATGGAGACT
GAGAAAAGTTTCAGAACCTGAATGCCAGCCTTGGAACCCAGTGCCACCAGTCCTCTCCTTCCCCAATGGGGGAC
CTTTCTGCCCCGCCCCAGCCCTGCCCCAGCCCTGGATGACTTCTCTGGCCTAGGGGAAGACACAGCCCTCTG
GATGGGATTGATGCTCCGGGTTACAGCCAGAGCCTGGACAGACCCCTGGCAGTTTGGCTAGTGAACCTAAAGGC
TCCCCGTGTCTCCTGGACCCCGAGGAGCTGGCCCCCTGTGACCCCTATGGAGGTCTACCCGAATGCAAGCAGACA
GCAGGGCAGGGCTCACCATGTGAAGAACAGGAAGAGCCACGTGCACCGGTGGCCCCCACACCACCACTCTCATC
AAATCCGACATCGTTAACGAGATCTCTAATCTGAGCCAGGGTGATGCCAGTGCCAGTTTCTCCTGGCTCAGAGCCC
CTCCTGGGCTCTCCAGACCCGGAGGGGGGTGGCTCCCTGTCCATGGAGTTGGGGGTCTCTACGGATGTTAGTCCA
GCCCCGAGATGAGGGCTCCCTACGGCTCTGTACTGACTCACTGCCAGAGACTGATGACTCACTATTGTGCGATGCT
GGGACAGCTATCAGCGGAGGCAAAGCTGAGGGGGAGAGGGGGCGGCGCAGCTCCCCAGCCCGTTCCCGCATC
AAACAGGGTCGCAGCAGCAGTTTCCCAGGAAGACGCCGGCCTCGTGGAGGAGCCCATGGAGGACGTGGTAGAGGA
CGGGCCCCGGCTAAAGTCAACTGCTTCTTCCATTGAGACTCTGGTAGTTGCTGACATTGATAGCTCTCCAGTAAG
GAGGAGGAGGAAGAAGATGATGACACCATGCAGAATACCGTGGTTCTTCTCTCCAACACAGACAAAATTTGTCTTA
ATGCAGGACATGTGTGTGGTATGTGGCAGCTTTGGCCGGGGGGCAGAGGGCCACCTCCTTGGCTGTTGCGAGTGC
TCTCAGTGCTATCACCTTACTGTGTCAACAGCAAGATCACCAAGGTGATGCTGCTCAAGGGCTGGCGTTGTGTG
GAGTGTATTGTGTGTGAGGTGTGTGGCCAGGCCTCCGACCCCTCACGCTGCTGCTCTGTGATGACTGTGATATT
AGCTACCACACATACTGCCTGGACCCCCCACTGCTCACCGTCCCCAAGGGCGGCTGGAAGTGCAAGTGTTGTGTG

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FIGURE 3554B

TCCTGTATGCAGTGTGGGGCTGCTTCCCCTGGCTTCCACTGTGAATGGCAGAATAGTTACACACACTGTGGGCCC
TGTGCCAGCCTGGTGACCTGCCCTATCTGTATGCTCCTTACGTAGAAGAGGACCTACTAATCCAGTGCCGCCAC
TGTGAACGGTGGATGCATGCAGGCTGTGAGAGCCTCTTCACAGAGGACGATGTGGAGCAGGCAGCCGATGAAGGC
TTTGA CTGTGTCTCCTGCCAGCCCTACGTGGTAAAGCCTGTGGCGCCTGTTGCACCTCCAGAGCTGGTGCCCATG
AAGGTGAAAGAGCCAGAGCCCCAGTACTTTCGCTTCGAAGGTGTGTGGCTGACAGAACTGGCATGGCCTTGCTG
CGTAACCTGACCATGTCAACCACTGCACAAGCGGCGCCAACGGCGAGGACGGCTTGGCCTCCCAGGCGAGGCAGGA
TTGGAGGGTTCTGAGCCCTCAGATGCCCTTGGCCCTGATGACAAGAAGGATGGGGACCTGGACACCGATGAGCTG
CTCAAGGGTGAAGGTGGTGTGGAGCACATGGAGTGCAGAAATTAAGCTGGAGGGCCCCGTCAGCCCTGATGTGGAG
CCTGGCAAAGAGGAGACCGAGGAAAGCAAAAAACGCAAGCGTAAACCATAATCGGCCTGGCATTGGTGGTTTTCATG
GTGCGACAGCGGAAATCCACACACGACGCAAAAAGGGGCTGCTGCACAGGCGGAGGTGTTGAGTGGGGATGGG
CAGCCCGACGAGGTGATACCTGCTGACCTGCCTGCAGAGGGCGCCGTCGAGCAGAGCTTAGCTGAAGGGGATGAG
AAGAAGAAGCAACAGCGGCGAGGGCGCAAGAAGAGCAAAGCTGGAGGACATGTTCCCTGCTTACTTGCAGGAAGCC
TTCTTTGGGAAGGAGCTGCTGGACCTGAGCCGTAAGGCCCTTTTTGCAGTTGGGGTGGGCCGCGCAAGCTTTGGA
CTAGGGACCCCAAAGCCAAGGAGATGGAGGCTCAGAAAGGAAGGAAGTCCCCACATCGCAGAAAGGAGATGAT
GGTCCAGATATTGCAGATGAAGAATCCCGTGGCCTCGAGGGCAAAGCCGATACACCAGGACCTGAGGATGGGGGC
GTGAAGGCATCCCCAGTGCCCACTGACCCTGAGAAGCCAGGCAACCCAGGTGAAGGGATGCTTAGCTCTGACTTA
GACAGGATTTCCACAGAAGAACTGCCCAAGATGGAATCCAAGGACCTGCAGCAGCTCTTCAAGGATGTTCTGGGC
TCTGAACGAGAACAGCATCTGGGTGTGGAACCCCTGGCCTAGAAGGCAGCCGTACGCCACTGCAGAGGCCCTTT
CTTCAAGGTGGACTCCCTTTGGGCAATCTGCCCTCCAGCAGCCCAATGGACTCCTACCCAGGCCTCTGCCAGTCC
CCGTTCTCTGGATTCTAGGGAGCGCGGGGGCTTCTTTAGCCCGGAACCCGGTGAGCCCGACAGCCCTGGACGGGC
TCAGGTGGCACACGCCCTCCACCCCAACAACCCCAACACGGAGGGTGAGGGCGACGGACTCTCTATAACCAG
CGGAGTCTTCAGCGCTGGGAGAAGGATGAGGAGTTGGGCCAGCTGTCCACCATCTCACCTGTGCTCTATGCCAAC
ATTAATTTTCTTAATCTCAAGCAAGACTACCCAGACTGGTCAAGCCGTTGCAAACAAATCATGAAGCTCTGGAGA
AAGGTTCCAGCAGCTGACAAAGCCCCCTACCTGCAAAGGCCAAAGATAACCGGGCAGCTCACCGCATCAACAAG
GTGCAGAAGCAGGCTGAGAGCCAGATCAACAAGCAGACCAAGGTGGGCGACATAGCCCGTAAGACTGACCGACCG
GCCCTACATCTCCGCATTCCCCCGCAGCCAGGGGCACTGGGCAGCCCCGCCCCCGCTGCTGCCCCCACCATTTC
ATTGGCAGCCCCACTACCCCCGCGGCTTGTCTACCTCTGCGGACGGGTTCTTGAAGCCGCGCGGGCTCGGTG
CCTGGCCCTGACTCGCCTGGTGAGCTCTTCTCAAGCTCCCACCCAGGTGCCCGCCCAAGTGCTTTCGAGGAC
CCCTTTGGACTGGCCCTGCTATCCCCCTGGAGCCCCGCTTCCCCACGGCACCGCCACCTATCCCCCTATCCT
AGTCCTACGGGGGCCCTGCGCAGCCCCGATGCTGGGCGCCTCATCTCGTCTGGGGCTGGCCAGCCAGGGGAA
TTCCACACTACCCACCTGGCACCCCCAGACACCAGCCCTCCACACCTGACCCATTCTCAAACCCCGCTGCCCC
TCGCTGGATAACTTGGCTGTGCCTGAGAGCCCTGGGGTAGGGGGAGGCAAAGCTTCCGAGCCCTGCTCTCGCCC
CCACCTTTTGGGGAGTCCCGGAAGGCCCTAGAGGTGAAGAAGGAAGAGCTTGGGGCATCTCTCCTAGCTATGGG
CCCCCAAACCTGGGCTTTGTTGACTCACCTCCTCAGGCACCCACCTGGGTGGCTGGAGTTAAAGACACCTGAT
GTCTTCAAAGCCCCCTGACCCCTCGGGCATCTCAGGTAGAGCCCCAGAGCCCGGGCTTGGGCCTAAGGCCCCAG
GAGCCACCCCTGCCCAGGCTTTGGCACCTTCTCCTCCAAGTACCCAGACATCTTTCGCCCTGGCTCCTTACCT
GACCCATATGCTCAGCCCCCATTGACTCCTCGGCCCCAACCTCCGCCCCCTGAGAGCTGCTGTGCTCTGCCCCCT
CGCTCACTGCCCTCCGACCCTTTCTCCCGAGTGCCCTGCCAGTCTCAGTCCAGTCCAGTCCAGTCTCCACTG
ACACCCCGGCCTCTGTCTGCTGAAGCTTTTTGCCCATCACCCGTTACCCCTCGCTTCCAGTCCCCTGACCCCTAT
TCTCGCCACCCCTCACGCCCTCAGTCCCGTGACCAATTGCCCCATTGCATAAGCCACCCCGACCCAGCCCCCT
GAAGTTGCCTTTAAGGCTGGGTCTCTAGCCCACTTCGCTGGGGGCTGGGGAGTTCCAGCAGCCCTGCCCGCG
GGGCCAGCAGGTGAGCTCCATGCCAAGGTCCCAAGTGGGCAGCCCCCAATTTGTCCGGTCCCCTGGGACGGGT
GCATTTGTGGGCACCCCTCTCCCATGCGTTTCACTTTCCCTCAGGCAGTAGGGGAGCCTTCCCTAAAGCCCCCT
GTCCCTCAGCCTGGTCTCCCGCCACCCCATGGGATCAACAGCCATTTTGGGGCCCGGCCCCACCTTGGGCAAGCCT
CAAAGCACAACTACACAGTAGCCACAGGGAAGTTCACCCATCGGGCAGCCCCCTGGGGCCAGCAGCGGGTCC
ACAGGGGAGAGCTATGGGCTGTCCCCACTACGCCCTCCGTGCGTTCTGCCACCACCTGCACCCGACGGATCCCTC
CCCTACCTGTCCCATGGAGCCTCACAGCGATCAGGCATCACCTCTCCTGTGAAAAGCGAGAAGACCCAGGGACT
GGAATGGGTAGCTCTTTGGCGACAGCTGAACTCCCAGGTACCCAGGACCCAGGCATGTCCGGCCTTAGCCAAACA

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FIGURE 3554C

GAGCTGGAGAAGCAACGGCAGCGCCAGCGACTACGAGAGCTGCTGATTTCGGCAGCAGATCCAGCGCAACACCCTG
CGGCAGGAGAAGGAAAACAGCTGCAGCAGCTGCAGGAGCAGTGGGGCCTCCAGGCAGCTGGGGTGCTGAGCCCAGC
AGCCCTGCCTTTGAGCAGCTGAGTCGAGGCCAGACCCCTTTGCTGGGACACAGGACAAGAGCAGCCTTGTGGGG
TTGCCCCCAAGCAAGCTGAGTGGCCCCATCCTGGGGCCAGGGTCCTTCCCTAGCGATGACCGACTCTCCCGGCCA
CCTCCACCAGCCACGCCTTCCTCTATGGATGTGAACAGCCGGCAACTGGTAGGAGGCTCCCAAGCTTTCTATCAG
CGAGCACCTATCCTGGGTCCCTGCCCTTACAGCAGCAACAGCAACAACACTGTGGCAGCAACAACAGGCAACAGCA
GCAACCTCCATGCGATTTGCCATGTCAGCTCGCTTTCCATCAACTCCTGGACCTGAACTTTGGCCGCCAAGCCCTA
GGTTCCCCGTTGGCGGGAATTTCCACCCGTCTGCCAGGCCCTGGTGAGCCAGTGCCTGGTCCAGCTGGTCCCTGCC
CAGTTTATTGAGCTGCGGCACAATGTACAGAAAGGACTGGGACCTGGGGGCACTCCGTTTTCTGGTTCAGGGCCCCA
CCTCAGAGACCCCGTTTTTACCCTGTAAGTGAGGACCCCCACCGACTGGCTCCTGAAGGGCTTCGGGGCCTGGCG
GTATCAGGTCTTCCCCCACAGAAACCCTCAGCCCCACCGGCCCTGAATTGAACAACAGTCTTCATCCAACACCC
CACACCAAGGGTCTTACCCTGCCAAGCTGGTTTTGGAGCTGGTCAACCGGCCCGCTCGAGCACTGAGCTTGGCCGC
CCCAATCCTCTGGCCCTGGAAGCTGGGAAGTTGCCCTGTGAGGATCCCAGCTGGATGACGATTTTGATGCCAC
AAGGCCCTAGAGGATGATGAAGAGCTTGCTCACCTGGGTCTGGGTGTGGATGTGGCCAAGGGTGATGAACTT
GGCACCTTAGAAAACCTGGAGACCAATGACCCCCACTTGGATGACCTGCTCAATGGAGACGAGTTTGACCTGCTG
GCATATACTGATCCTGAGCTGGACACTGGGGACAAGAAGGATATCTTCAATGAGCACCTGAGGCTGGTAGAATCG
GCTAATGAGAAGGCTGAACGGGAGGCCCTGCTGCGGGGGGTGGAGCCAGGACCCTTGGGCCCTGAGGAGCGCCCT
CCCCCTGCTGCTGATGCCCTCTGAACCCCGCTGGCATCTGTGCTCCCTGAGGTGAAGCCCAAGGTGGAGGAGGGT
GGAGCCACCCCTTCTCCTTGCCAATTACCATTTGCTACCCCCAAGGTAGAGCCCGCACCTGCTGCCAATTCCCTT
GGCCTGGGGCTAAAGCCAGGACAGAGCATGATGGGCAGCCGGGATACCCGGATGGGCACAGGGCCATTTTCTAGC
AGTGGGCACACAGCTGAGAAGGCCTCCTTTGGGGCCACGGGAGGACCACCAGCTCACCTGCTGACCCCCAGCCCA
CTGAGTGGCCAGGAGGATCCTCCCTGCTGGAAAAGTTTGAGCTCGAGAGTGGGGCTTTGACCTTGCTGGTGG
CCTGCAGCATCTGGGGATGAGCTAGACAAGATGGAGAGCTCACTGGTAGCCAGCGAGTTACCCCTGCTCATTGAG
GACCTGTTGGAGCATGAGAAGAAGGAGCTGCAGAAGAAGCAGCAGCTTTCAGCACAGTTGCAGCCTGCCAGCAG
CAGCAGCAACAGCAGCAGCAGCATTCCCTACTGTCTGCACCAGGCCCTGCCAGGCCATGTCTTTGCCACATGAG
GGCTCTTCTCCAGTTTGGCTGGGTCCCAACAGCAGCTTTCCCTGGGTCTTGCCAGGTGCCCGACAGCCAGGTTTG
CCCCAGCCACTGATGCCACCCAGCCACCAGCTCATGCCCTCCAGCAACGCCTGGCTCCATCCATGGCTATGGTG
TCCAATCAAGGGCATATGCTAAGTGGGCAGCATGGAGGGCAGGCAGGCTTGGTACCCAGCAGAGCTCACAGCCA
GTGCTATCACAGAAGCCCATGGGCACCATGCCACCTTCCATGTGCATGAAGCCGCAGCAATTGGCAATGCAGCAG
CAGCTGGCAACAGCTTCTTCCCAGATACAGACCTGGACAAATTTGCTGCAGAAGATATCATTGATCCATTGCA
AAGGCCAAGATGGTGGCTTTGAAAGGCATCAAGAAAGTGATGGCTCAGGGCAGCATTGGGGTGGCACCTGGTATG
AACAGACAGCAAGTGTCTCTGCTAGCCAGAGGCTCTCGGGGGGACCTAGCAGTGATCTGCAGAACCATGTGGCA
GCTGGGAGTGGCCAGGAGCGGAGTGTGGTGATCCCTCCAGCCTCGTCCCAACCCGCCCACTTTTGCTCAGGGA
GTGATCAATGAAGCTGACCAGCGGCAGTATGAGGAGTGGCTGTTCCATACCCAGCAGCTCCTACAGATGCAGCTG
AAGGTGCTAGAGGAGCAGATTGGTGTACACCGCAAGTCCCGGAAGGCTCTGTGTGCCAAGCAGCGCACTGCCAAA
AAAGCTGGCCGTGAGTTCCCAGAAGCTGATGCTGAGAAGCTCAAGCTGGTTACAGAGCAGCAGAGCAAGATCCAG
AAACAACCTGGATCAGGTCCGGAACAGCAGAAGGAGCACACTAATCTCATGGCAGAATATCGGAACAAGCAGCAG
CAACAACAGCAGCAGCAGCAGCAACAACAGCAACAGCACTCAGCTGTGCTGGCTCTCAGCCCTTCCCAGAGTCCC
CGGCTGCTCACCAAGCTCCCTGGTCAGCTGCTCCCTGGCCATGGGCTGCAGCCACCACAGGGGGCTCCGGGTGGG
CAAGCCGGAGGTCTTCGCCTGACCCCTGGGGGTATGGCACTACCTGGACAGCCTGGTGGCCCTTCCCTTAATACA
GCTCTGGCCCAACAGCAGCAACAGCAACATTCTGGTGGGGCTGGATCCCTGGCTGGCCCTTCCAGGGGGCTTCTTC
CCTGGCAACCTTGCTCTTCGAAGCCTCGGACCTGATTCAAGGCTTTTACAGGAAAGGCAGCTGCAGCTGCAGCAG
CAACGTATGCAGCTGGCCAGAACTGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCACCTTCTAGGACAG
GTGGCAATCCAGCAGCAACAGCAGCAGGGTCTGGAGTACAGACAAACCAAGCTCTGGGTCCCCAAGCCCCAGGGC
CTTATGCCTCCCAGCAGCCACCAAGGCCTCCTGGTCCAGCAGCTGTCCCCTCAACCACCCCAAGGGGCCCAAGGGC
ATGCTGGGCCCTGCCAGGTGGCTGTGTTGCAGCAGCAGCACCTGGAGCTTTGGGGCCCCAGGGGCCCTCACAGA
CAGGTGCTTATGACCCAGTCCCGGGTGTCTAGTTCCCCCAGCTGGCACAGCAGGGTTCAGGGCCTTATGGGACAC
AGGCTGGTCACAGCCCAGCAGCAGCAGCAGCAACAACAGCACCAACAGCAAGGGTCCATGGCAGGGCTGTCCCAT

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FIGURE 3554D

CTTCAGCAGAGTCTGATGTCACACAGTGGGCAGCCCCAACTGAGCGCTCAGCCCATGGGCTCTTTACAGCAGCTT
CAGCAGCAGCAGCAGCTGCAACAGCAACAGCAACTTCAGCAGCAGCAGCAGCAGCAGCTACAACAGCAACAGCAA
CTTCAGCAGCAACAGCTTTCAACAGCAGCAACAGCAGCAGCAGCTTCAACAACAGCAGCAGCAACAGCTTCAACAG
CAGCAACAGCAGCTACAACAGCAACAGCAACAACAACAGCAGCAGTTTCAACAGCAGCAGCAACAGCAGCAGATG
GGCCTTTTAAACCAGAGTCGAACCTTTACTGTCTCCTCAGCAACAACAGCAGCAGCAAGTGGCACTTGGCCCTGGC
ATGCCAGCAAAGCCTCTTCAACACTTTTCTAGCCCTGGAGCCCTGGGTCCAACCCTCCTCCTGACGGGCAAGGAA
CAAAACACCGTAGACCCAGCCGTTTCTTCAGAGGCCACTGAGGGGGCCCTCTACACATCAGGGAGGGCCGTTAGCA
ATAGGAACTACCCCTGAGTCAATGGCCACTGAACCAGGAGAGGTAAAGCCCTCACTCTCTGGGGACTCACAACCTC
CTGCTTGTCCAACCCCAGCCCCAGCCTCAGCCCAGCTCTCTGCAGCTGCAGCCACCTCTGAGGCTTCCAGGACAA
CAGCAGCAGCAAGTTAGCCTGCTCCACACAGCAGGTGGAGGAAGCCATGGGCAGCTAGGCAGTGGATCATCTTCT
GAGGCCTCATCTGTGCCCCACCTGCTGGCTCAGCCCTCTGTTTCTTAGGGGATCAGCCTGGGTCCATGACCCAG
AACCTTCTGGGCCCCCAACAGCCCATGCTAGAGCGGCCCATGCAAAATAATACAGGGCCACAACCTCCCAAACCA
GGACCTGTCTCCAGTCTGGGCAGGGTCTGCCTGGGGTTGGAATCATGCCTACGGTGGGTGAGCTTCGAGCACAG
CTCCAAGGAGTCTGGCCAAAACCCACAGCTGCGGCACTTAAGTCTCAGCAGCAGCAGCAGCTACAGGCACTC
CTCATGCAGCGGCAGCTGCAGCAGAGTCAGGCAGTACGCCAGACCCCAACCTACCAGGAGCCTGGGACCCAGACC
TCTCCCCTCCAGGGCCTCCTGGGCTGCCAACCTCAACTTGGGGGCTTCCCTGGACCACAGACAGGCCCCCTCCAG
GAGCTAGGGGCAGGGCCTCGACCTCAGGGCCACCCCGGCTCCCTGCCCCACCAGGAGCCTTATCTACAGGACCA
GTCCTTGGCCCTGTCCATCCCACACCTCCACCATCCAGCCCTCAAGAGCCAAAGAGACCTTACAATTACCTTCC
CCCAGCTCCCAGCTTCCCCTGAGGCCAGCTCCCTCCCACCCATCCAGGGACCCCCAAACCTCAGGGGCCAACC
TTGGAGCCGCCTCCTGGGAGGGTCTCACCTGCTGCTGCCAGCTTGCAGATACCTTGTTTTAGCAAGGGTCTGGGA
CCTTGGGATCCCCCAGACAACCTAGCAGAAACCCAGAAGCCAGAGCAGAGCAGCCTGGTACCTGGGCATCTGGAC
CAGGTGAATGGACAGGTGGTGCCTGAGGCATCCCAACTCAGCATCAAGCAGGAACCTCGGGAAGAGCCATGTGCC
CTGGGAGCCCAGTCAGTGAAGAGGGAGGCCAATGGGGAGCCAATAGGGGCACCAGGAACCAGCAACCACCTCCTG
CTGGCAGGCCCTCGCTCAGAAGCTGGGCATCTGCTCTTGAGAAGCTACTCCGGGCAGGAATGTGCAACTCAGC
ACTGGGCGGGGTCCGAGGGGCTGCGAGCTGAGATCAACGGGCACATTGACAGCAAGCTGGCTGGGCTGGAGCAG
AAACTACAGGGTACCCCCAGCAACAAGGAGGATGCAGCAGCAAGGAAGCCTTTGACACCCGAAGCCCAAGCGGGTA
CAGAAGGCAAGCGACAGGTTGGTGAGCTCCCGAAAGAAGCTGCGGAAGGAGGACGGGGTTCAGGGCCAGCGAGGCC
TTGCTGAAACAGCTGAAACAGGAGCTGTCCCTGCTGCCCTAACCGAGCCTGCTATCACCGCCAATTTTAGCCTC
TTTGCCCCCTTTGGCAGTGGCTGCCCAGTCAATGGGCAGAGCCAGCTGAGGGGGGCCCTTTGGAAGTGGGGCGCTG
CCCCTGGCCCTGACTACTATTCCAGCTGCTTACCAAGAATAACCTGAGTAACCCGCCGACACCACCTCGTCC
CTGCCCCCACCACCCCATCGGTGCAGCAGAAGATGGTGAATGGCGTCACCCCATCTGAAGAGCTGGGGGAG
CACCCCAAGGATGCTGCCTCTGCCCCGGGATAGTGAAAGGGCACTGAGGGATACTTCAGAGGTGAAGAGTCTAGAC
CTGCTGGCTGCCTTGCTTACACCCCTCACAATCAGACTGAGGATGTGAGGATGGAGAGTGATGAGGATAGCGAT
TCTCCTGACAGCATTGTGCCAGCTTCATCCCCCTGAGAGCATCTTGGGGGAGGAGGCCCTCGTTTCCCTCATCTG
GGCTCAGGCCGGTGGGAGCAAGAGGACCGGGCCCTCTCCCCTGTATCCCCCTCATTCCTCGGGCCAGCATCCCA
GTCTTCCCAGATACCAAACCTTATGGGGCCCTTGCCCTGGAGGTCCCTGGAAAGCTGCCTGTCACAACCTTGGGAA
AAGGGCAAAGGAAGTGAGGTGTGAGTCATGCTCAGTCTCTGCTGCTGCAGCCAAGAACCTGAATGGCGTGATG
GTGGCAGTGGCGGAGCTGCTGAGCATGAAGATCCCCAACTCCTATGAGGTGCTGTTCCCAGAGAGCCCCGCCCGG
GCAGGCACTGAGCCAAAGAAGGGGGAAGCTGAGGGTCTTGGTGGGAAGGAAAAGGGTCTGGAAGGCAAGAGCCCA
GACACTGGCCCTGATTGGCTGAAGCAGTTTGATGCAGTGTTCCTGGCTATACCCTGAAGAGCCAACTAGACATC
TTGAGCCTCCTGAAACAGGAGAGCCCCGCCCCAGAGCCACCCACTCAGCACAGCTATACCTACAATGTCTCCAAT
CTGGATGTGCGACAGCTCTCGGCCCCACCTCCTGAAGAACCCTCCCCGCCCCCTTCCCCCTTGGCACCTTCTCCT
GCCAGTCCCCCTACTGAGCCCTTGTTTGAACCTCCCACCGAACCTTGGCTGAGCCACCCGTCCCCCTCACCTCTG
CCACTGGCCTCATCCCCCTGAATCAGCCCAGCCAAAGCCCCGTGCCCGGCCCTTGAAGAAGGTGAAGATTCCCGT
CCTCCTCGCCTCAAGAAATGGAAGGAGTGCCTGGAAGCGGCTTCGGCTGCTGCTGACCATCCAGAAGGGCAGT
GGGCGGCAGGAGGATGAGCGGGAAGTGGCAGAGTTTATGGAGCAGCTTGGCACAGCCTTGCGACCTGACAAGGTA
CCGCGAGACATGCGTCGCTGCTGTTTCTGTCTATGAGGAGGGTGACGGGGCCACTGATGGGCCTGCCCGTCTGCTG
AACCTGGACCTGGACCTGTGGGTGCACCTCAACTGTGCCCTTTGGTCCACGGAGGTGTATGAGACCCAGGGCGGG

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FIGURE 3554E

GCACTGATGAATGTGGAGGTTGCCCTGCACCGAGGACTGCTAACCAAGTGCTCCCTGTGCCAGCGAACTGGTGCC
ACCAGCAGCTGCAATCGCATGCGTTGCCCCAATGTCTACCATTTTGCTTGTGCCATCCGTGCCAAGTGCAATGTTT
TTCAAGGACAAGACCATGCTGTGTCCAATGCATAAGATCAAGGGGGCCCTGTGAGCAAGAGCTGAGCTCTTTTGCT
GTCTTCCGGCGGGTCTACATTGAGCGGGACGAGGTGAAGCAAATCGCTAGCATCATTACGCGGGGAGAACGGCTG
CACATGTTCCGTGTGGGGGGCCTTGTGTTCCACGCCATCGGACAGCTGCTGCCTCACCAGATGGCTGACTTTTCAT
AGTGCCACTGCCCTCTATCCCGTGGGCTACGAGGCCACGCGCATCTATTGGAGCCTCCGCACCAACAATCGTCGC
TGCTGCTATCGCTGTTCTATTGGTGAGAACAACGGGCGGGCCGGAGTTTGTAATCAAAGTCATCGAGCAGGGCCTG
GAGGACCTGGTCTTCACTGACGCCTCTCCCCAGGCCGTGTGGAATCGCATCATTGAGCCTGTGGCTGCCATGAGA
AAAGAGGCTGACATGCTGCGACTCTTCCCTGAGTATCTGAAGGGCGAGGAGCTCTTTGGGCTGACGGTGCAATGCC
GTGCTTCGCATAGCTGAATCACTGCCCCGGGTGGAGAGCTGTCAAACTATTTATTCCGCTATGGGCGCCACCCC
CTTATGGAGCTGCCACTCATGATCAACCCCACTGGCTGTGCCCCGATCAGAGCCTAAAATCCTCACACACTACAAA
CGGCCCCATACCCTGAACAGCACCAGCATGTCTAAGGCATATCAGAGCACCTTCACAGGCGAGACCAACACCCCC
TACAGCAAGCAGTTTGTGCACTCCAAGTCATCTCAGTACCGGCGGCTGCGCACCGAATGGAAGAACAACGTGTAC
CTGGCTCGCTCCCGTATCCAGGGCCTGGGGCTCTATGCAGCCAAGGACCTAGAAAAGCACACAATGGTTATCGAG
TACATTGGCACCATCATTCGGAACGAGGTGGCCAACCGGCGGGAGAAAATCTACGAAGAGCAGAATCGAGGCATC
TACATGTTCCGAATAAACAATGAACATGTGATTGATGCTACGTTGACCGGCGGCCCTGCCAGGTACATTAACCAT
TCCTGTGCCCCTAACTGTGTGGCCGAAGTCGTGACATTTGACAAAAGAGGACAAAATCATCATCATCTCCAGCCGG
CGAATCCCCAAAGGAGAGGAGCTAACCTATGACTATCAGTTTGATTTTGAGGACGATCAGCACAAGATCCCCTGC
CACTGTGGAGCCTGGAATTGTCGGAAATGGATGAACTAA

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FIGURE 3555

GCGCCCTTAAAGATGGTGAGGGGGCTCATGCTCTGAGTAGAAGGTGGTGACCTCCAGGAGCGGTGGGATGATGAG
GGCCCGGGCGCCTCTTGCA**ATG**GAGACGGTCATTTCTTCAGATAGCTCCCCAGCTGTGGAAAATGAGCATCCTCA
AGAGACCCCAGAATCCAACAATAGCGTGTATACTTCCTTCATGAAGTCTCATCGCTGCTATGACCTGATTCCCA
AAGCTCCAAATTGGTTGTATTTGATACGTCCCTGCAGGTGAAGAAAGCTTTTTTTGCTTTGGTGACTAACGGTGT
ACGAGCTGCCCCTTTATGGGATAGTAAGAAGCAAAGTTTTGTGGGCATGCTGACCATCACTGATTTTCATCAATAT
CCTGCACCGCTACTATAAATCAGCCTTGGTACAGATCTATGAGCTAGAAGAACAAGATAGAACTTGGAGAGA
GGTGTATCTCCAGGACTCCTTTAAACCGCTTGTCTGCATTTCTCCTAATGCCAGCTTGTGGATGCTGTCTCTTC
ATTAATTCGGAACAAGATCCACAGGCTGCCAGTTATTGACCCAGAATCAGGCAATACTTTGTACATCCTCACCCA
CAAGCGCATTCTGAAGTTCCTCAAATTGTTTATCACTGAGTTCCCCAAGCCAGAGTTCATGTCCAAGTCTCTGGA
AGAGCTACAGATTGGCACCTATGCCAATATTGCTATGGTTTCGCACTACCACCCCCGTCTATGTGGCTCTGGGGAT
TTTTGTACAGCATCGAGTCTCAGCCCTGCCAGTGGTGGATGAGAAGGGGCGTGTGGTGGACATCTACTCCAAGTT
TGATGTTATCAATCTGGCAGCAGAAAAGACCTACAACAACCTAGATGTATCTGTGACTAAAGCCTTGCAACATCG
ATCACATTACTTTGAGGGTGTTCTCAAGTGCTACCTGCATGAGACTCTGGAGACCATCATCAACAGGCTAGTGGA
AGCAGAGGTTACCGACTTGTAGTGGTGGATGAAAATGATGTGGTCAAGGGAATTGTATCACTGTCTGACATCCT
GCAGGCCCTGGTGCTCACAGGTGGAGAGAAGAAGCCCT**TGAG**CTGGGGGAAGGGGTCATGCAGCACCAGGGGATAT
GCCCAACTCACTGCCTGCTGGAAGCTCTGTGGGAATCAGATGAACTTGAGGGAATTGTGACTCTGTTCCCTGTT
CAGGGTCCCCTGCCCTTCTATCTGGGAGCTAGGGAAGGTATGGGGGAGGAAAGAGAATGGATTTATAGCTACCT
TACCCTCACACATACACTTGAAAAAACTTTACGCCTAGCCAGTTCTAGCCCCTGTCTCTTAGATATATCCCCCT
TTCTGGGTGAACATATAGGCTCTGTGCCTCTCAGACAAATTCTGATCTCTAAGAGATCCCCAGACCTCACTTGCC
CTGCCTCCATCTTGCCCTGATTCAACCCTAAGATAATAGCACAAACAAAATTCTTCATAAAGATATTTTTATTCA
CCTGTTCCGTGCTATATGGAGGAGGCCAAGTCCATTTAGTGACATTTCTTCCCATAATGTGAGTGGGGAGGATTG
TGG

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FIGURE 3556

METVISSDSSPAVENEHPQETPESNNSVYTSFMKSHRCYDLIPTSSKLVVFDTSLQVKKAFFALVTNGVRAAPLW
DSKKQSFVGMLTITDFINILHRYYKSALVQIYELEEHKIETWREVYLQDSFKPLVCISPNASLFDAVSSLIRNKI
HRLPVIDPESGNTLYILTHKRILKFLKLFITEFPKPEFMSKSLEELQIGTYANIAMVRTTTPVYVALGIFVQHRV
SALPVVDEKGRVVDIYSKFDVINLAAEKTYNNDVSVTKALQHRSHYFEGVLKCYLHETLETIINRLVEAEVHRL
VVVDENDVVKGIVSLSDILQALVLTGGEKKP

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FIGURE 3557

CTCGACTCTTAGCTTGTCGGGGACGGTAACCGGGACCCGGTGTCTGCTCCTGTCGCCTTCGCCTCCTAATCCCTA
GCCACTATGGTGATGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTA
CTGCCTGGAACACGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTT
CAACACCTTCTTCAGTGAGACGGGCGCTGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAG
GAAGATGCTGCCAATAACTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGA
ATTGCAAGCTGGCTGACCAGTGCACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAACTGGT
TCTGGGTTACCTCCCTGCTCATGGAACGTCTCTCAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCATT
TACCCAGCACCCCAGGTTTCCACAGCTGTAGTTGAGCCCTACAACTCCATCCTCACCACCCACACCACCTGGAG
CACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGTCTGTAGAAACCTCGATATCGAGCGC
CCAACCTACACTAACCTTAACCGCCTTATTAGCCAGATTGTGTCTCCATCACTGCTTCCGTCTCTCTGCTGAG
AAAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTGGCTTTGAGCCAGCCAACCAGATGGTGAAA
TGTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAAT
GCTGCCATTGCCACCATCAAAACCAAGCGCAGCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGC
ATCAACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGCGAGTTTTCAGAGGCCCGTGAAGATA
TGGCTGCCCTTGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGG
AATACTAATTATCCATTCTTTTGGCCCTGCAGCATGTCATGCTCCCAGAATTCAGCTTCAGCTTAACTGACAG
ACGTTAAAGCTTCTGGTTAGATTGTTTTCACTTGGTGATCATGTCTTTCCATGTGTACCTGTAATATTTTTCC
ATCATATCTCAAAGTAAAGTCATTAAACATC

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FIGURE 3558

MERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYTNLN
RLISQIVSSITASVISAEKAYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIK
TKRSIQFVDWCPTGFKVGINYQPPTVVPGGDLAKASFQRPVKIWLPLRRIMRRLVWILLKERVRRKKERNNTNYPFL
LALQHVMLPEFQLQLN

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FIGURE 3559

CTCCAGCAGCACCCGAGAGGGTCAGGAGAAAAGCGGAGGAAGCTGGGTAGGCCCTGAGGGGCCTCGGTAAGCCAT
CATGACCACCCGGCAAGCCACGAAGGATCCCCTCCTCCGGGGTGTATCTCCTACCCCTAGCAAGATTCCGGTACG
CTCTCAGAAACGCACGCCTTTCCCCACTGTTACATCGTGCGCCGTGGACCAGGAGAACCAAGATCCAAGGAGATG
GGTGCAGAAACCACCGCTCAATATTCAACGCCCCCTCGTTGATTACAGCAGGCCCCAGGCCGAAAGCCAGGCACCA
GGCAGAGACATCACAAAGATTGGTGCGGATCAGTCAGCCTCGGAACCCCTTGGAAGAGCTCAGGCCTAGCCCTAG
GGGTCAAAATGTGGGGCCTGGGCCCCCTGCCCAGACAGAGGCTCCAGGGACCATAGAGTTTGTGGCTGACCCTGC
AGCCCTGGCCACCATCCTGTGAGGTGAGGGTGTGAAGAGCTGTACCTGGGGCGCCAGCCTAGTCTGGCTAAAAAG
AGTACTGGTTCGAGGAAGTCAGGGAGGCACCACCCAGAGGGTCCAGGGTGTTCGGGCCTCTGCATATTTGGCCCC
CAGAACCCCCACCCACCGACTGGACCCTGCCAGGGCTTCTGCTTCTCTAGGCTGGAGGGACCCAGGACCTCGAGG
CCGGACATTGTGTCCCCAGAGGCTACAGGCTCTGATTTACCTTCAGGACCTTCCTTTACCCCTTCCACTCGCCC
CAGTTTCCAGGAGCTAAGAAGGGAGACAGCTGGCAGCAGCCGGACTTCAGTGAGCCAGGCCTCAGGATTGCTCCT
GGAGACCCCAAGTCCAGCCTGCTTTCTCTCTTCTAAAGGAGAACGCGAGGTTGTCACTCACTCAGATGAAGGAGG
TGTGGCCTCTCTTGGTCTGGCCAGCGAGTACCATTAAAGAGAAAACCGAGAAATGTACATAACAGGGACAGCCA
TGACTCCCACCTGATGCCCTCCCCTGCCCCCTGTGGCCAGCCCTTGCCCTGGCCATGTGGTGCCATGTCCATCACC
CTTTGGACGGGCTCAGCGTGTACCTTCCCCAGGCCCTCCAACCTCTGACCTCATATTCAGTGTTCGGCGTCTCAC
CGTTCAACCTAAAACCCGGTTTACACCCATGCCATCAACCCCCAGAGTTCAGCAGGCCCAGTGGCTGCGTGGTGT
CTCCCTCAGTCCTGCTCTGAAGATCCTGCCCTGCCCTGGGAGCAGGTTGCCGTCCGGTTGTTTGACCAGGAGAG
TTGTATAAGGTCACTGGAGGGTTCTGGGAAACCACCGGTGGCCACTCCTTCTGGACCCCACTCTAACAGAACCCC
CAGCCTCCAGGAGGTGAAGATTCAACGCATCGGTATCCTGCAACAGCTGTTGAGACAGGAAGTAGAGGGGCTGGT
AGGGGGCCAGTGTGTCCCTCTTAATGGAGGCTCTTCTCTGGATATGGTTGAACTTCAGCCCCTGCTGACTGAGAT
TTCTAGAACTCTGAATGCCACAGAGCATAACTCTGGGACTTCCCACCTTCTTGACTGTAAACACTCAGGGCT
GCCAAAGCCCTGTCTTCCAGAGGAGTGCGGGGAACCACAGCCCTGCCCTCCGGCAGAGCCTGGGCCCCCAGAGGC
CTTCTGTAGGAGTGAGCCTGAGATACCAGAGCCCTCCCTCCAGGAACAGCTTGAAGTACCAGAGCCCTACCCTCC
AGCAGAACCCAGGCCCTTAGAGTCCTGCTGTAGGAGTGAGCCTGAGATACCGGAGTCCTCTCGCCAGGAACAGCT
TGAGGTACCTGAGCCCTGCCCTCCAGCAGAACCCAGGCCCTTAGAGTCCTACTGTAGGATTGAGCCTGAGATACC
GGAGTCCTCTCGCCAGGAACAGCTTGAGGTACCTGAGCCCTGCCCTCCAGCAGAACCCGGGCCCTTACGCCCAG
CACCCAGGGGCAGTCTGGACCCCCAGGGCCCTGCCCTAGGGTAGAGCTGGGGGCATCAGAGCCCTGCACCCTGGA
ACA TAGAAGTCTAGAGTCCAGTCTACCACCCTGCTGCAGTCAGTGGGCTCCAGCAACCACCAGCCTGATCTTCTC
TTCCCAACACCCGCTTTGTGCCAGCCCCCTATCTGCTCACTCCAGTCTTTGAGACCCCCAGCAGGCCAGGCAGG
CCTCAGCAATCTGGCCCCCTCGAACCCTAGCCCTGAGGGAGCGCCTCAAATCGTGTTTAACCGCCATCCACTGCTT
CCACGAGGCTCGTCTGGACGATGAGTGTGCCTTTTACACCAGCCGAGCCCTCCCTCAGGCCCCACCCGGGTCTG
CACCAACCCTGTGGCTACATTACTCGAATGGCAGGATGCCCTGTGTTTATTCCAGTTGGTTCTGCTGCCCCCA
GGGCTCTCCATGATGAGACAACCACTCCTGCCCTGCCGTACTTCTTCTTTAGCCCTTATTTATTGTGCGTCTG
CCCATGGGACTGGGAGCCGCCCACTTTTGTCTCAATAAAGTTTCTAAAGTA

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FIGURE 3560

TCCAGACCAACCTGGTGCCCTATCCCCGCATCCACTTCCCTCTGGCCACATATGCCCCTGTCATCTCTGCTGAGA
AAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAACCAGATGGTGAAAT
GTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAATG
CTGCCATTGCCACCATCAAGACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGCA
TCAACTACCAGCCTCCCCTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCTGAGCA
ACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAACGTGCCTTTG
TTCACCACCCACACCACCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGT
CGTAGAAACCTCGATATCGAGCGCCCAACCTACACTAACCTTAACCGCCTTATTAGCCAGATTGTGTCCTCCATC
ACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTTGACCTGACAGAATTCCAGACCAACCTGGTGCCCTACCC

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FIGURE 3561

AATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAATGCTGCCATTGCCACCATCA
AGACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGCATCAACTACCAGCCTCCCA
CTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCTGAGCAACACCACAGCCATTGCTG
AGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAACGTGCCTTTGTTCACTGGTACGTTGGGG
AGGGGATGGAGGAAGGTGAGTTTTCAGAGGCCCGTGAGGACATGGCTGCCCTTGAGAAGGATTATGAGGAGGTTG
GTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGGAATACTAAAGTTAAAACGTCACAAAGGTGCTGC
TTTTACAGGGAAGCTTATTCTGTTTTAAACATTGAAAAGTTGTGGTCTGACATGAATGCTTTGTTACAGACCCAA
GCTGTCCATTTCTGTGATGGGTTTTGAATAAAGTATTCCC

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FIGURE 3562

CTCCTTGACTCGAACCTTGGACAGTGGCATTGGGACCTTCCCACCCCCAGACCATGGTAGCAGTGGGACCCCCAG
CAAGAATCTTCCTAAGACCAAGCCACCGCGGCTGGATCCCCACCTGGGGTACCCCCAGCTCGGCCCCACCCCT
TACCAAAGTCCCCCGCGCGCCACACACTGGAGCGGGAGGTGCCAGGCATAGAGGAGCTGCTGGTGAGTGGGCG
GCACCCCAGCATGCCAGCCTTCCCTGCACTGCTACCCGCTGCTCCGGGGCCACCGGGGCCATGAGACCTGTCCCTGA
TGATCCCTGTGAAGACCCAGGCCCCACCCCTCCTGTCCAGCTGGCCAAGAAGTGGACCTTCCCCAATACTAGGGC
AGCCGGCAGCTCCTCGGACCCTCTCATGTGCCCACCCGACAAGTGGAGGGGCTGCCAGGACCCCCATGGCCCT
GCCCCTGGACCGGAAGCGAAGCCAGGAGCCCAGCCGCGCTCCCTACGCCCCAGGGGCCACCTTTTGGGGGGTAG
CCGCACCCCCAGCACTTCGGACATGGCCGAGGAAGGCAGAGTGGCCAGCGGGGGCCCCCAGGGCTGGAGACCTC
GGAGTCTCTCAGTGACTCACTCTACGACTCGCTGTCTCTTGTGGGAGTCAGGGCTGAGGGGCTGCGCCACGCCA
CGGCCCCGCTGGAGCTGGGGACCACAGACTGGACCGGCTCTCTTCATGCCAGCCCCCGGAGACGGGGACCCCTC
CCTGAAGGGACCAAGGAGGCAGGTGGATAAGAAGGTGAAAAGGGGGTCCCTGGCACACCCACCACCCACTGCTT
CGGCGGATGAGATGACCGTGCTCAGCTCAGGGAGAGACCCCGCCCTTGGTCCCTTCTCTACCCAGAGTAAGGCT
CTTCCTGGAAGGGACTGGGGGTTAAAGGCCACTGTGTGCGAGCCCCCAGTCCCTACTTCAGGCTGAGCCATCTT
GTGGTGCTGGGCTTCCTGCCCGAAGCCCTCGCGAGGCCCTCCTGGAGGCCCCCGTGCTGGTGGA

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FIGURE 3563

MFMGAGDAPLGSRP GHPHSSSQVSKLQIGPPSPGEAQGPLLPSPARGLKFLKLPPTSEKSPSPGGPQLSPQLPR
NSRIPCRNSGSDGSPSPLLARRGLGGGELSPEGAQGLPTSPSPCYTTPDSTQLRPPQSALSTTLSPGPVVSPCYE
NILDLSRSTFRGFSPEPPPSPLQVPTYQLTLEVPQAPEVLRSPGVPPSPCLPESYPYGSPQEKSLDKAGSESPH
PGRRTPGNSSKKPSQGSGRRPDGPSTPLRDRLAALGKLKTGPEGALGSEKNGVPARPGIEKTRGPGKSGESAGD
MVPSIHRPLEQLEAKGGIRGAVALGTNSLKQQEPGLMGDPGARVYSSHSMGARVDLEPVSPRSCLTKVELAKSRL
AGALCPQVPRTPAKVPTSAPSLGKPNKSPHSSPTKLPSKSPTKVVPRPGAPLVTKESPKPKDKGKGPWADCGSTT
AQSTPLVPGPTDPSQGPEGLAPHS AIEEKVMKGIEENVLRQLQGQERAPGAEVKHRNTSSIASWFGKKSKLPALN
RRTATKNKEGAGGGSPLRREV KMEARKLEAESLNISKLMKAEDLRRALEEEKAYLSSRARPRPGGPAPGPNTG
LGQVQGQLAGMYQGADTFMQQLLNVRVDGKELPSKSWREP KPEYGD FQPVSSDPKSPWPACGPRNGLVGPLQGC GK
PPGKPSSEPGRRREEMPSED SLAEPVPTSHFTACGSLTRTLDSGIGTFFPPPDHGSSGTPSKNLPKTKPPRLDPPPG
VPPARPPPLTKVPRAHTLEREVPGIEELLVSGRHPSMPAFPALLPAAPGHRGHETCPDDPCEDPGPTPPVQLAK
NWTFPNTRAAGSSSDPLMCPPRQLEGLPRTPMVRIAAEERERTREQEGVMWGDQFLQ

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FIGURE 3564

AGAGTGGAGACTGCTGCACGGACTCTGGAACC**ATGA**ACATATTTGATCGAAAGATCAACTTTGATGCGCTTTTAA
AATTTTCTCATATAACCCCGTCAACGCAGCAGCACCTGAAGAAGGTCTATGCAAGTTTTGCCCTTTGTATGTTG
TGGCGGCTGCAGGGGCTATGTCCATATGGTCACCTCATTTCATTGAGGCTGGCCTGCTGTCTGCCTTGGGCTCCC
TGATATTGATGATTTGGCTGATGGCAACACCTCATAGCCATGAAACTGAACAGAAAAGACTGGGACTTCTTGCTG
GATTTGCATTCCCTTACAGGAGTTGGCCTGGGCCCTGCCCTGGAGTTTTGTATTGCTGTCAACCCAGCATCCTTC
CCACTGCTTTTCATGGGACGGCAATGATCTTTACCTGCTTCACCCCTCAGTGCACCTCTATGCCAGGCGCCGTAGCT
ACCTCTTTTCTGGGAGGTATCTTGATGTCAGCCCTGAGCTTGTTCCTTTTGTCTTCCCTGGGGAATGTTTTCTTTG
GATCCATTTGGCTTTTCCAGGCAAACCTGTATGTGGGACTGGTGGTCATGTGTGGCTTCGTCTTTTTTGATACTC
AACTCATTATTGAAAAGGCCGAACATGGAGATCAAGATTATATCTGGCACTGCATTGATCTCTTCTTAGATTTCA
TTACTGTCTTCAGAAAACCTCATGATGATCCTGGCCATGAATGAAAAGGATAAGAAGAAAGAGAAGAAAT**TGA**AGTG
ACCATCCAGCCTTTCCCAATTAGACTTCCTCTCCTTCCACCCCTCATTTCCTTTTTTGCACACATTACAGGTGGTG
TGTTCTGTGATAATGAAAAGCATCAGAAAAGCTTTTGTACTTTGTGGTTTCCTCTATTTTTGAATTTTTTGATCAA
AAAAGTGAATTAGCAGAATATAGTTTGGAGTTTGGCTTCATCTTCCTGGGGTTCCTCTACTCCCTTTTTTGTCAA
CCCCATCTGTAGCCTCTTCCTCTACTCAGGCAGTCGACCCGCCACGATGAGAAGTGGGACCAGCAGAGGGCGCCA
ACTTCAGGAGTCCGCTTTCCACCAGGCTTCATTACCCAGTGGACCTGAACTGTTTGGTAGAGCCACCCGGCCC
TTCCTTCCTCATTGTTGTTTGGTATGCGCACAGTTCCTGTGGGACTGGGCCGTGAGTTTTCCATTGGAAAGAAGT
TCAGTGGTCCCATTTGTTAACTCAGCCTCAAATCTCAACTGTGAGGCCCTACAAAGAAAATGGAGAGCCTCTTCTG
GTGGATGCTTTGCTCCCTCTGAGCTGCCCATGCTGGTCTGGCAAACACACCTTTCTGCTTTGCCTTCACAAAAGT
AATGTGTTCCCTTTCCACCCCTTGCCCTGACCCTCAGGGAGTCAGCCTGCTTCCATCCATGGGTGGGAAGACTTC
AGCACAAAGGAAAGACTAATTCTTGTGAGGCATTTTTGAAAAGGCTGATTATGTGTATCAAGGTACAGCATCGTA
GGGTTCCCCTAAACTTGCCCTGTTTTTGTTTTTTTAGTTTGTATCCCCCTACTGAGCGGCCTCTACTAGGTGGC
TGTGATTAAATGTCCCAAGCAAGGATAGGGAAGGGGAATGGTTGAGCCTCTGGAGATCATTGTAACCAATCCTGC
CAGACCTGTTTGGGGCAGTGGGGAGCAAACCTAGATAAGGACCTGTTTGGGGCAGCAGGGAGCAAATCTCCTTT
AACAAACCAAGCAGTTCCTCATTACATCAACAGAGCGAGGCTGTGATAACTTAGGAGGCAGCAATCCTAATAGTC
CTTCAGTGCATTTTAGTCTGTCTCCAACCTGGACACCAGTAGGTAGTGTCAAGCCAGAGATTCGGGGCAGTAGATA
AATGTTCATTTTACTGATGCACTTTAGTTTTTGGTCTGTTACCTGTTTTCCAGAAATTTGTGGCCTTTTAGGCGG
GAGTTAGGCGACCAAACAGTGAGAGCCCCAATCCCTGCAGTTTTGTGGCTTCAAGTGTGGGTGGACAGTCCTAA
TGGGGATCTCCAGCTCCTTCCTGTGGGCTGCCACAGACAGCTACCCCCAGAAGGGTCAATGTTGGGAGTGGTTGT
GGCTCTGAGCTGCTCTACAGAGCTTCAGTGTGAGAGGATCGAGCCATTGAAAGCTCATTACCAGTAGGACATAAT
TTTTGGCTCTCCCTATTACAAACCAAGTGCACAGTTTGACACAGTGGCCTCAGGTTACAGTGCACCATGTCACTG
TACTGAGGATGCTGTCTCTGATTTAGCTGCTGCCTCCAGCCTCTGGCTTGAGAACTTACTAAAGGCACTTCCT
TCCTGTTAAACCCCTGTTAACTCTCCATAAATTTGGTGATTCTCTGCTAGGCCTAAGATTTTGAGTTAACATCTC
TTGAAGCCAAACTCCACCTTCTGTGCTTTTTGCTTGGGATAATGGAGTTTTCTTTAGAAACAGTGCCAAGAATG
ACAAGATATTAAAAAAAAAAAA

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FIGURE 3565

MNIFDRKINF DALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVH MVTHFIQAGLLSALGSLIILMIWLMATP
HSHETE QKRLGLLAGFAFLTGVGLGPALEFCIAVNPSILPTAFMGTAMIFTCTLSALYARRRSYLFLGGIILMSA
LSLLLLSSLG NVFFGSIWLFQANLYVGLVVMCGFVLFDTQLIIEKA EHGDDQDIWHCIDLFLDFITVFRKIMMIL
AMNEKDKKKEKK

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FIGURE 3566

GCGAAGTGAAGGGTGGCCAGGTGGGGCCAGGCTGACTGAATGTATCTCCTAGCTATGGACTAAATAATACATGG
GGGGAATAAACAAGTATTCATGAGGGTGAAAATGTGACCCAGCAGGAAAATTACAACATATTTTCAATTGACGTT
GAATAGGATGAGTCATGGAATTTAAGTGATTTACTGAAGATTATACTACTGGTAGATAGAAGAGCTAAAGAAAGA
TGGATACTATGATGCTGAATGTGCGGAATCTGTTTGAGCAGCTTGTGCGCCGGGTGGAGATTCTCAGTGAAGGAA
ATGAAGTCCAATTTATCCAGTTGGCGAAGGACTTTGAGGATTTCCGTAAAAAGTGGCAGAGGACTGACCATGAGC
TGGGGAAATACAAGGATCTTTTGATGAAAGCAGAGACTGAGCGAAGTGCTCTGGATGTTAAGCTGAAGCATGCAC
GTAATCAGGTGGATGTAGAGATCAAACGGAGACAGAGAGCTGAGGCTGACTGCGAAAAGCTGGAACGACAGATT
AGCTGATTCGAGAGATGCTCATGTGTGACACATCTGGCAGCATTCAACTAAGCGAGGAGCAAAAATCAGCTCTGG
CTTTTCTCAACAGAGGCCAACCATCCAGCAGCAATGCTGGGAACAAAAGACTATCAACCATTGATGAATCTGGTT
CCATTTTATCAGATATCAGCTTTGACAAGACTGATGAATCACTGGATTGGGACTCTTCTTTGGTGAAGACTTTCA
AACTGAAGAAGAGAGAAAAAGAGGCGCTCTACTAGCCGACAGTTTGTTGATGGTCCCCCTGGACCTGTAAAGAAAA
CTCGTTCCATTGGCTCTGCAGTAGACCAGGGGAATGAATCCATAGTTGCAAAAACACTACAGTGAAGTGTCCCAATG
ATGGCGGGCCCATCGAAGCTGTGTCCACTATTGAGACTGTGCCATATTGGACCAGGAGCCGAAGGAAAACAGGTA
CTTTACAACCTTGGAACAGTGAAGTCCACCCTGAACAGCAGGCAGCTGGAGCCAAGAACTGAGACAGACAGTGTGG
GCACGCCACAGAGTAATGGAGGGATGCGCCTGCATGACTTTGTTTCTAAGACGGTTATTAAACCTGAATCCTGTG
TTCCATGTGGAAAGCGGATAAAATTTGGCAAATTATCTCTGAAGTGTGAGACTGTCGTGTGGTCTCTCATCCAG
AATGTCGGGACCGCTGTCCCCTTCCCTGCATTCCCTACCCTGATAGGAACACCTGTCAAGATTGGAGAGGGAATGC
TGGCAGACTTTGTGTCCCAGACTTCTCCAATGATCCCCTCCATTGTTGTGCATTGTGTAAATGAGATTGAGCAAA
GAGGTCTGACTGAGACAGGCCTGTATAGGATCTCTGGCTGTGACCGCACAGTAAAAGAGCTGAAAGAGAAATTCC
TCAGAGTGAAACTGTACCCCTCCTCAGCAAAGTGGATGATATCCATGCTATCTGTAGCCTTCTAAAAGACTTTC
TTCGAAACCTCAAAGAACCTCTTCTGACCTTTGCGCTTAACAGAGCCTTTATGGAAGCAGCAGAAATCACAGATG
AAGACAACAGCATAGCTGCCATGTACCAAGCTGTTGGTGAAGTGGCCAGGCCAACAGGGACACATTAGCTTTCC
TCATGATTCACTTGACAGAGAGTGGCTCAGAGTCCACATACTAAAATGGATGTTGCCAATCTGGCTAAAGTCTTTG
GCCCTACAATAGTGGCCCATGCTGTGCCCAATCCAGACCCAGTGACAATGTTACAGGACATCAAGCGTCAACCCA
AGGTGGTTGAGCGCCTGCTTTTCCCTTGCTCTGGAGTATTGGAGTCAGTTTATGATGGTGGAGCAAGAGAACATTG
ACCCCTACATGTCATTGAAAACCTCAAATGCCTTTTCAACACCACAGACACCAGATATTAAGTGAAGTTTACTGG
GACCTGTGACCACTCCTGAACATCAGCTTCTCAAGACTCCTTCATCTAGTTCCCTGTCACAGAGAGTCCGTTCCA
CCCTCACCAAGAACACTCCTAGATTTGGGAGCAAAAGCAAGTCTGCCACTAACCTAGGACGACAAGGCAACTTTT
TTGCTTCTCCAATGCTCAAGTGAAGTCACATCTGCCTGTTACTTCCCAGCATTGACTGACTATAAGAAAGGACAC
ATCTGTACTCTGCTCTGCAGCCTCCTGTACTCATTACTACTTTTAGCATTCTCCAGGCTTTTACTCAAGTTTAAT
TGTGCATGAGGGTTTTATTAAAACTATATATATCTCCCTTCTCCTCAAGTCACATAATATCAGCACTTTG
TGCTGGTCATTGTTGGGAGCTTTTAGATGAGACATCTTTCCAGGGGTAGAAGGGTTAGTATGGAATTGGTTGTGA
TTCTTTTTGGGGAAGGGGGTTATTGTTCCCTTGGCTTAAAGCCAAATGCTGCTCATAGAATGATCTTTCTCTAGT
TTCATTTAGAAGTGAATTTCCGTGAGACAATGACAGAAACCCTACCTATCTGATAAGATTAGCTTGTCTCAGGGTG
GGAAGTGGGAGGGCAGGGCAAAGAAAGGATTAGACCAGAGGATTTAGGATGCCTCCTTCTAAGAACCAGAAGTTC
TCATTCCCATTATGAAGTGAAGTATAATATGGAGCTTTCATAAAAATGGGATGCATTGAGGACAGAAGTGTGA
TGGGAGTATGCGTAGCTTTGATTTGGATGATTAGGTCTTTAATAGTGTGAGTGGCACAACCTTGTAATGTGAA
AGTACAACCTCGTATTTATCTCTGATGTGCCGCTGGCTGAAGTTTGGGTTCATTTGGGGTCAAAGCCAGTTTTCT
TTTAAATGAATTCATTCTGATGCTTGGCCCCCATACCCCAACCTTGTCCAGTGGAGCCCACTTCTAAAGGT
CAATATATCATCCTTTGGCATCCCACTAACAATAAAGAGTAGGCTATAAGGGAAGATTGTCAATATTTTGTGGT
AAGAAAAGCTACAGTCATTTTTTCTTTGCACTTTGGATGCTGAAATTTTTCCCATGGAACATAGCCACATCTAGA
TAGATGTGAGCTTTTTCTTCTGTATAAATTATTCTTAATGTCTGTAAAAACGATTTTCTTCTGTAGAATGTTTGA
CTTCGTATTGACCCTTATCTGTAAAAACCTATTTGGGATAATATTGGAAAAAAGTAAATAGCTTTTTTCAAAA
TGAAAAA

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FIGURE 3567

MDTMMLNVRNLFEQLVRRVEILSEGNEVQFIQLAKDFEDFRKKWQRTDHELKGYKDLLMKAETERSALDVKLKHA
RNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLSEEQKSALAFLNRGQPSSSNAGNKRLSTIDESG
SILSDISFDKTDSESLDWDSSLVKTFKLKKREKRRSTSRQFVDGPPGPVKKTRSIGSAVDQGNESIVAKTTVTVPN
DGGPIEAVSTIETVPYWTRSRRTGTLPWNDSSTLNSRQLEPRTEQDSVGTQSNNGMRLHDFVSKTVIKPESC
VPCGKRIKFGKLSLKCRDCRVVSHPECRDRCPLPCIPTLIGTPVKIGEGMLADFVSQTSMPMIPSIVVHCVNEIEQ
RGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICSLKDFLRNLKEPLLTFRNLNRAFMEAAEITD
EDNSIAAMYQAVGELPQANRDTLAFMLIHLQVAQSPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMLQDIKRQP
KVVERLLSLPLEYWSQFMMVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPVTTPEHQLLKTPSSSSLSQRVRS
TLTKNTPRFGSKSKSATNLGRQGNFFASPMK

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FIGURE 3568

CTATCCCATAGTCTCGCTGCCCTGAGCCTCCCGTGCCGGCCGGCCGGCCGGGGGAACAGGCGGGCGCTCGGGGGG
CGCTCGGGGGGCGGGGGGAGTTCCGGTTCCGGTTCTTTGTGCGGCTGCATCGGCGGCTCCGGGAAGATGGCGGCC
CGGGCGGGTTTCCAGTCTGTGGCTCCAAGCGGCGGCGCCGGAGCCTCAGGAGGGGCGGGCGCGGCTGCTGCCTTG
GGCCCCGGGCGGAACCTCCGGGGCCTCCTGTGCGAATGGGGCCCGGCTCCGGGTCAAGGGCTGTACCGCTCCCCGATG
CCCGGAGCGGCCTATCCGAGACCAGGTATGTTGCCAGGCAGCCGAATGACACCTCAGGGACCTTCCATGGGACCC
CCTGGCTATGGGGGGAACCCCTCAGTCCGACCTGGCCTGGCCCAGTCAGGGATGGATCAGTCCCGCAAGAGACCT
GCCCCCTCAGCAGATCCAGCAGGTCCAGCAGCAGGCGGTCCAAAATCGAAACCACAATGCAAAGAAAAAGAAGATG
GCTGACAAAATTCTACCTCAAAGGATTCTGTGAACCTGGTACCAGAAATCCAGGCCTATATGGATCTCTTGGCTTTT
GAAAGGAAACTGGACCAGACTATCATGAGGAAACGGCTAGATATCCAAGAGGCCTTGAAACGTCCCATCAAGCAA
AAACGGAAGCTGCGAATTTTTCATTTCTAACACTTTCAATCCGGCTAAGTCAGATGCCGAGGATGGGGAAGGGACG
GTGGCTTCCTGGGAGCTTCGGGTAGAAGGACGGCTCCTGGAGGATTACAGCCTTGTCCAAATATGATGCCACTAAA
CAAAAGAGGAAGTTCTCTTCCTTTTTTAAGTCCTTGGTGATTGAACTGGACAAAGACCTGTATGGGCCAGACAAC
CATCTGGTAGAATGGCACAGGACCGCCACTACCCAGGAGACCGATGGCTTTCAGGTGAAGCGGCCGGGAGACGTG
AATGTACGGTGTACTGTCTACTGATGCTGGATTACCAGCCTCCCCAGTTTAAATTAGACCCCGCCTAGCTCGA
CTCCTGGGCATCCATACCCAGACTCGTCCAGTGATCATCCAAGCACTGTGGCAATATATTAAGACACATAAGCTC
CAGGACCCCTCAGCAGCGGGAGTTTGTCAICTGTGACAAGTACCTGCAGCAGATCTTTGAGTCTCAACGTATGAAG
TTTTCAGAGATCCCTCAGCGGCTCCATGCCTTGCTTATGCCACCAGAACCTATCATCATTAAATCATGTATCAGT
GTTGACCCGAATGATCAGAAAAAGACAGCTTGTTATGACATTGATGTTGAAGTGGATGACACCTTGAAGACCCAG
ATGAATTCTTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTAGACAACAAGATCCATGAGACAATA
GAAACCATCAACCAGCTGAAGACTCAGCGGGAGTTTCATGCTGAGCTTTGCCAGAGACCCTCAGGGTTTTCATCAAT
GACTGGCTTCAGTCCCAGTGCAGGGACCTCAAGACAATGACTGATGTGGTGGGTAAACCCAGAGGAGGAGCGCCGA
GCTGAGTTCTACTTCCAGCCCTGGGCTCAGGAGGCTGTGTGCCGATACTTCTACTCCAAGGTGCAGCAGAGACGA
CAAGAATTAGAGCAAGCCCTGGGAATCCGGAATACATAGGGCCTCTCCACAGCCCTGATTGCACTGCACCAATT
CTTGATTTGGGCCCTGTGCTGCCTGCCTCATAGTATCTGCCTTGGTCTTGCTTGGGGCGTTCCAGGGGATGCTGT
TGGTTCAAGGACAACACCAGAATGAAGAGGGTCTCACAAGACACCTGTTATCCTCTTCTTTACCCTATCTCTTC
CCACCCCCAGCTTCCCTTTGCCCCACAAAGTTCCCATGTGCCTGTACCCTCCCCTGGTCTACATAGGACCTCTAG
ATAGTGTTAGAGAGAGAACATGTAGTGGTAATGAGTGTCTGGAATGGATTGGGCCTCAGGCCAGGTGGTCTTCAA
GGGGACCAGCTAACTGATCCTGCCCTTCAGAGACCCAGGAGTTGGGAGCTTTCGCTCCTTCTCCAAGACTCAGGC
CTGTGGGCACTCTATAAGCTAGTTGATCTTGGCTCTCCTGATAACAGAATCCAATTTCTTCTTCCCTCCACAG
GTTTGAACAAACTCTCCCTTCACTTGTTGCCCTGTAGCACTACAGAAACCCCTGGTTCTTGGGCTCCACTGAGCC
CCAGGTGAGTCCCAGCCCTCTGGGTTGGCCTGCTGTGCTGCTTCTCTCACTCCTTAGTTGGGGTCCACATCAG
TATTGGAGTTTTGTCTTTTATTGCTCCCTCCCAGACACTCCCTGTGGCTGCCCTTTGTGATTCCCTCAGATCTGC
CCTAATCCCGGGCATTGTTGGGTGGGGGAATCTTGCCCTTTCCCTTTTCAGAGCCCCAGGGATCTCATCTGGGGAAGT
TCATTGCCAGCAGAGGCTGTTTCTTCCCTGCTGTTTGGAGATGTGACTCATTCACTCACTCCACCCTGCCTC
TGCATCCCTTAATGGAGAAACGGGCCTAAAACCAAACGGGTAAAAGCCCTGGGCCATCCCTGTCTTCCCTGTCCC
TTGTCTGCCAGTTGACACCTACTGGTGACTTCTAGGGCACTGAGGAGTGAAAGCGCCTAGGGCTGGAGAATAGC
GCTGAGTTGGGTTTGTGACTCTTCCCTCTCCCTGCCTCACAGGATTGTGACTCCCCAGCCCTGCCCTCAAAGCT
TCAGACCCCTCAGGTAGCAGCAGGACCTTGTGATCTTGGCCCTTGGATCTGAGATGGTTTTTGCATCTTCCAG
GAGAGCCTCACATTCTTCTTCCAGTTGTATCACCCCGAGTTAGCATATCCCAGGCTCGCAGACTCAACACAGC
AAGGGTGGGAGACAGCTGGGCACAAAGGGGGGAATCCGTTTACGATGGGCTCTAAACCCACAGAACTGACAAAGC
CCCTGCTTCCCCACCCCTCCTCAGGCTCCTGCGAGCACACCCCAACCCCAATCCCTCCCTGTTCTACTG
GGACAGCAGAAATTTCTCCCCGTCTTCCCTTCTGCCATTTTCCCTCCCTTGAAAGGTTGACACTGGACAACCT
TGGGGCAGCTGAGCCCTGGCCGCTCCTGGCTGGAACCATGAGAAGGAAGCTCAGTACTTCCCACAGTGTCCCTG
TTGATAACTGTTTTTATTAAGTGAATGTTTTTTCATGGACCAAACCTTTTTTTTGTACTGTCCCCTTATTGATG
TTACCCAGTTTTTAATAAAAGAATCTTCTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 3569

MGPAPGQGLYRSPMPGAAYPRPGMLPGSRMTPQGPPSMGPPGYGGNPSVRPGLAQSGMDQSRKRPAPQQIQQVQQQ
AVQNRNHNNAKKKKMADKILPQRIRELVPESQAYMDLLAFERKLDQTIMRKRLDIQEALKRPIKQKRKLRIFISNT
FNPAKSDAEDGEGETVASWELRVEGRLLDSALSKYDATKQKRKFSFFKSLVIELDKDLYGPDNHLVEWHRTATT
QETDGFQVKRPGDVNVRCTVLLMLDYQPPQFKLDPRLARLLGIHTQTRPVIIQALWQYIKTHKLQDPHEREFVIC
DKYLQQIFESQRMKFSEIPQRLHALLMPPEPIIINHVISVDPNDQKKTACYDIDVEVDDTLKTQMNSFLLSTASQ
QEIATLDNKIHETIETINQLKTQREFMLSFARDPQGFINDWLQSQCRLKTMTDVVGNPPEEERRAEFFYPWQAQ
AVCRYFYYSKVQRRQEELEQALGIRNT

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FIGURE 3570

TGCACTGTGACTCAGGCCTTCCCATCAGGCCTATTTGTCTACCCAATAAAGCGTGTTTTTCCAGAAACAAGAAG
AGTTGGGAGAGGGAGCTTCAGTGCGATGTGGCAGTGCGTGTGCTGGCGCGTATCATTGCACAGCTTGGCTCGCCAA
AGACCCCTCCCTCGAGGGAGAGAAACCACAGCCCCCAGAATTCAGCGGGCCTCTCCGAGAGCACGGCGCGTCTGAG
GATGCGTATGTTGACCCGAATGATCAGAAAAAGACAGCTTGTTATGACATTGATGTTGAAGTGGATGACACCTTG
AAGACCCAGATGAATTCTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTAGACAACAAGATCCAT
GAGACAATAGAAACCATCAACCAGCTGAAGACTCAGCGGGAGTTCATGCTGAGCTTTGCCAGAGACCCCTCAGGGT
TTCATCAATGACTGGCTTCAGTCCCAGTGCAGGGACCTCAAGACAATGACTGATGTGGTGGGTAAACCCAGAGGAG
GAGCGCCGAGCTGAGTTCTACTTCCAGCCCTGGGCTCAGGAGGCTGTGTGCCGATACTTCTACTCCAAGGTGCAG
CAGAGACGACAAGAATTAGAGCAAGCCCTGGGAATCCGGAATACATAG

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FIGURE 3571

GTACCTCACGGAAGCCGGCTTTGGCCCTGCGGCTGCTACCGTCGCCGCGGAGAAATTGTTGGATCTGGCAGTCTA
GGAATGAATCTCCTCTCAGCCTTTAAGCTCACCTGGTCAGAATCCTTGGATGAGCCTGTGGGACCGTTCCTCCTA
GCCCCGTGGTTTGGAAACAGTGGCTTTGGGACTGTAAGAGGATGGACAAAGATTCTCAGGGGCTGCTAGATTCTAT
CCCTGATGGCATCAGGCACTGCCAGCCGCTCAGAGGATGAGGAGTCACTGGCAGGGCAGAAGCGAGCCTCCTCCC
AGGCCTTGGGCACCATCCCTAAACGGAGAAGCTCCTCCAGGTTCATCAAGAGGAAGAAGTTTCGATGATGAGCTGG
TGGAGAGCAGCCTGGCAAAATCTTCTACCCGGGCAAAGGGGGCCAGTGGGGTGGAAACCAGGGCGCTGTTCCGGGGA
GTGAACCCTCCTCCAGTGAGAAGAAGAAGGTATCCAAAGCCCCCAGCACTCCTGTGCCACCCAGCCCAGCCCCAG
CCCCTGGACTCACCAAGCGTGTGAAGAAGAGTAAACAGCCACTTCAGGTGACCAAGGATCTGGGCCCGCTGGAAAGC
CTGCAGATGACCTCCTGCTCATAAATGCTGTGTTGCAGACCAACGACCTGACCTCCGTCACCTGGGCGTGAAAT
TCAGCTGCCGCTTCACCCCTTCGGGAGGTCCAGGAGCGTTGGTACGCCCTGCTCTACGATCCTGTCTATCTCCAAGT
TGGCCTGTCTAGGCCATGAGGCAGCTGCACCCAGAGGCTATTGCAGCCATCCAGAGCAAGGCCCTGTTTAGCAAGG
CTGAGGAGCAGCTGCTGAGCAAAGTGGGATCGACCAGCCAGCCCACCTTGGAGACCTTCCAGGACCTGCTGCACA
GACACCCTGATGCCTTCTACCTGGCCCCGTACCGCGAAGGCCCTGCAGGCCCACTGGCAGCTCATGAAGCAGTATT
ACCTGCTGGAGGACCAGACAGTGCAGCCGCTGCCCAAAGGGGACCAAGTGCTGAACTTCTCTGATGCAGAGGACC
TGATTGATGACAGTAAGCTCAAGGACATGCGAGATGAGGTCTTGGAAACATGAGCTGATGGTGGCTGACCGGCGCC
AGAAGCGAGAGATTTCGGCAGCTGGAACAGGAAGTGCATAAGTGGCAGGTGCTAGTGGACAGCATCACAGGCATGA
GCTCTCCGGACTTCGACAACCAGACACTGGCAGTGCTGCGGGGCGCATGGTGCGGTACCTGATGCGCTCGCGTG
AGATCACCCCTGGGCAGAGCAACCAAGGATAACCAGATTGATGTGGACCTGTCTCTGGAGGGTCCGGCCTGGAAGA
TATCCCGGAAACAAGGTGTCATCAAGCTGAAGAACAACGGTGATTTCTTCATTGCCAATGAGGGTCGACGGCCCA
TCTACATCGATGGACGGCCGGTGCTCTGTGGCTCCAAATGGCGCCTCAGCAACAACCTCTGTGGTGGAGATCGCCA
GCCTGCGATTTCGTCTTCCTTATCAACCAGGACCTCATTGCCCTCATCAGGGCTGAGGCTGCCAAGATCACACCAC
AGTGAGGAGTGGTGGCAGGACTCGTGGGCCCTCTCCGGCCTGTTTCCCTGCCACTCCAGCCCCCTTGAGCTGGG
AACTCAGGCTCCTGGAAAAACCTGGGCAGTGGGAGGCTCAGCTGCGGGCCATTGATTTGAGCCTTTGAGGGAGGA
TAGGGCTGGCCTTTGTGAAGCCAGCAGAGGCTGAGAACCTCAGGCTTCCCTAGATCCAGAGCCCCCTCCCCATCTT
CCTCTCTCTAAAAACAACCCTACCCCCCATTGCCACCTTCACTCCTGTGTCTCCAGCTGATTAGCCTCAGACTCT
TCTTTTATTGTTTTTCTTTTGTAAATAAAAAGCACCAGGTTCC

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FIGURE 3572A

GGCACGAGGCGCTAGGTAGAGCGCCGGGACCTGTGACAGGGCTGGTAGCAGCGCACAGGAAAGGCGGCTTTTAGC
CAGGTATTTTCAGTGTCTGTAGACAAGATGGAATCATCTCCATTTAATAGACGGCAATGGACCTCACTATCATTGA
GGGTAACAGCCAAAGAACCTTTCTCTTGTCAACAAGAACAAGTCATCGGCTATTGTGGAAATATTCTCCAAGTACC
AGAAAGCAGCTGAAGAAACAAACATGGAGAAGAAGAGAAGTAACACCCGAAAATCTCTCCCAGCACTTTAGAAAAGG
GGACCCCTGACTGTGTAAAGAAGAAGTGGGAGAACCCAGGGCTGGGAGCAGAGTCTCACACAGACTCTCTACGGA
ACAGCAGCACTGAGATTAGGCACAGAGCAGACCATCCTCCTGCTGAAAGTGACAAGCCACGCTGCTTCTGGAGCCA
AAGCTGACCAAGAAGAACAATCCACCCAGATCTAGACTCAGGTCACCTCCTGAAGCCCTCGTTTCAGGGTTCGAT
ATCCCCACATCAAGGACGGTGAGGATCTTAAAGACCACTCAACAGAAAAGTAAAAAATGGAATTTGTCTAGGAG
AATCCAGGCATGAAGTAGAAAAATCAGAAATCAGTGAAAACACAGATGCTTCGGGCAAAATAGAGAAATATAATG
TTCCGCTGAACAGGCTTAAGATGATGTTTGAGAAAGGTGAACCAACTCAAATAAGATTCTCCGGGCCCCAAGCC
GAAGTGCAAGTGGAAGGAAGATCTCTGAAAACAGCTATTCTCTAGATGACCTGGAAATAGGCCCAGGTCAGTTGT
CATCTTCTACATTTGACTCGGAGAAAAATGAGAGTAGACGAAATCTGGAACCTCCACGCCTCTCAGAAACCTCTA
TAAAGGATCGAATGGCCAAGTACCAGGCAGCTGTGTCAAACAAAGCAGCTCAACCAACTATACAAATGAGCTGA
AAGCCAGTGGTGGCGAAATCAAAATTCATAAAATGGAGCAAAAGGAGAATGTGCCCCCAGGTCCTGAGGTCTGCA
TCACCCATCAGGAAGGGGAAAAGATTTCTGCAAATGAGAATAGCCTGGCAGTCCGTTCCACCCCTGCCGAAGATG
ACTCCCGTGACTCCAGGTTAAGAGTGAGGTTCAACAGCCTGTCCATCCCAAGCCACTAAGTCCAGATTCCAGAG
CCTCCAGTCTTTCTGAAAGTTCTCCTCCCAAAGCAATGAAGAAGTTTCAGGCACCTGCAAGAGAGACCTGCGTGG
AATGTCAGAAGACAGTCTATCCAATGGAGCGTCTCTTGGCCAACCAGCAGGTGTTTACATCAGCTGCTTCCGTT
GCTCCTATTGCAACAACAACTCAGTCTAGGAACATATGCATCTTTACATGGAAGAATCTATTGTAAGCCTCACT
TCAATCAACTCTTTAAATCTAAGGGCAACTATGATGAAGGCTTTGGGCACAGACCACACAAGGATCTATGGGCAA
GCAAAAATGAAAACGAAGAGATTTTGAGAGAGACCAGCCAGCTTGCAAATGCAAGGGAGACCCCTCACAGCCAG
GGGTAGAAGATGCCCTATTGCTAAGGTGGGTGTCTGGCTGCAAGTATGGAAGCCAAGGCCTCCTCTCAGCAGG
AGAAGGAAGACAAGCCAGCTGAAACCAAGAAGCTGAGGATCGCCTGGCCACCCCCACTGAACTTGGAAGTTCAG
GAAGTGCCTTGAGGAAGGGATCAAAATGTCAAAGCCCAAATGGCCTCCTGAAGACGAAATCAGCAAGCCCGAAG
TTCTTGAGGATGTGATCTAGATCTGAAGAAGCTAAGACGATCTTCTTCACTGAAGGAAAAGAGCCGCCATTCA
CTGTAGCAGCTTCATTTCAAAGCACCTCTGTCAAGAGCCCAAAACTGTGTCCCCACCTATCAGGAAAGGCTGGA
GCATGTGAGAGCAGAGTGAAGAATCTGTGGGTGGAAGAGTTGCAGAAAGGAAACAAGTGGAATGCAAGGCTT
CTAAGAAGAATGGGAATGTGGGAAAAACAACCTGGCAAAACAAGAATCTAAAGGAGAGACAGGGAAGAGAAGTA
AGGAAGGTGATAGTTTGAGATGGAGAATGAGAATCTTGTAGAAAATGGTGCAGACTCCGATGAAGATGATAACA
GCTTCCTCAAACAACAATCTCCACAAGAACCCAGTCTCTGAATTGGTTCGAGTTTTGTAGACAACACCTTTGCTG
AAGAATTCATACTCAGAATCAGAAATCCCAGGATGTGGAACCTCTGGGAGGGAGAAGTGGTCAAAGAGCTCTCTG
TGGAAGAACAGATAAAGAGAAATCGGTATTATGATGAGGATGAGGATGAAGAGTGACAAATGCAATGATGCTGG
GCCTTAAATTCATGTTAGTGTAGCGAGCCACTGCCCTTTGTCAAATGTGATGCACATAAGCAGGTATCCCAGC
ATGAAATGTAATTTACTTGGAAGTAACTTTGGAAGAAATTCCTTCTTAAATCAAAAACAAAAACAAAAACAC
AAAAACACATTCTAAATACTAGAGATAACTTTACTTAAATCTTTCATTTTAGCAGTGATGATATGCATAAGTGC
TGTAAGGCTTGTAACCTGGGGAATATTCCACCTGATAATAGCCCAGATTCTACTGTATTCCCAAAAGGCAATATT
AAGGTAGATAGATGATTAGTAGTATATTGTTACACACTATTTTGAATTAGAGAACATACAGAAGGAATTTAGGG
GCTTAAACATTACGACTGAATGCACCTTAGTATAAAGGGCACAGTTTGTATATTTTAAATGAATACCAATTTAA
TTTTTTAGTATTTACCTGTTAAGAGATTATTTAGTCTTTAAATTTTTTAGGTTAATTTTCTTGCTGTGATATATA
TGAGGAATTTACTACTTTATGTCCTGCTCTCTAACTACATCCTGAACTCGACGTCCTGAGGTATAATACAACAG
AGCACTTTTTGAGGCAATTGAAAAACCAACCTACACTCTTCGGTGCTTAGAGAGATCTGCTGTCTCCCAATAAG
CTTTTGATCTGCCAGTGAATTTACTGTACTCCAAATGATTGCTTTCTTTCTGGTGATATCTGTGCTTCTCATA
ATTACTGAAAGCTGCAATATTTTAGTAATACCTTCGGGATCACTGTCCCCATCTTCCGTGTTAGAGCAAAAGTGA
AGAGTTTAAAGGAGGAAGAAGAAGAACTGTCTTACACCACTTGAGCTCAGACCTCTAAACCCTGTATTTCCCTT
ATGATGTCCCTTTTTGAGACACTAATTTTTAAATACTTACTAGCTCTGAAATATATTGATTTTTATCAGATAT
TCTCAGGGTGAAATTAACCAACTATAGGCCTTTTTCTTGGGATGATTTTCTAGTCTTAAGGTTTGGGGACATTA
TAACTTGAGTACATTTGTTGTACACAGTTGATATTCCAAATGTATGGATGGGAGGGAGAGGTGTCTTAAGCTG
TAGGCTTTTCTTTGTACTGCATTTATAGAGATTTAGCTTTAATATTTTTTAGAGATGTAAACATTCTGCTTTCT

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FIGURE 3572B

TAGTCTTACCTAGTCTGAAACATTTTATTCAATAAAGATTTTAATTAAAATTG

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FIGURE 3573

MESSPFNRRQWTSLSLRVTAKELSLVNKNKSSAIVEIFSKYQKAAEETNMEKKRSNTENLSQHFRKGTLTVLKKK
WENPGLGAESHTDSLNRNSSTEIRHRADHPPAEVTSHAASGAKADQEEQIHPRSRRLRSPPEALVQGRYPHIKDGED
LKDHSTESKKMENCLGESRHEVEKSEISENTDASGKIEKYNVPLNRLKMMFEKGEPTQTKILRAQSRASGRKIS
ENSYSLDDLEIGPGQLSSSTFDSEKNESRRNLELPRLSETSIKDRMAKYQAAVSKQSSSTNYTNELKASGGEIKI
HKMEQKENVPPGPVEVCITHQEGEKISANENSLAVRSTPAEDDSRDSQVKSEVQQPVHPKPLSPDSRASSLSESSP
PKAMKKFQAPARETCVECQKTVYPMERLLANQQVFHISCFRCSYCNKLSLGTYSALHGRIYCKPHFNQLFKSKG
NYDEGFGRPHKDLWASKNENEEILERPAQLANARETPHSPGVEDAPIAKVGVLAASMEAKASSQQEKEDKPAET
KKLRIAWPPPTELGSSGSALEEGIKMSKPKWPPEDIKPEVPEDVDLDLKKLRRSSSLKERSRPFTVAASFQST
SVKSPKTVSPPIRKGWSMSEQSEESVGGRAERKQVENAKASKKNGNVGKTTWQNKESKGETGKRSKEGHSLEME
NENLVENGADSDDDNSFLKQQSPQEPKSLNWSSFVDNTFAEEFTTQNKQSQDVELWEGEVVKELSVEEQIKRNR
YYDEDEDEE

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FIGURE 3574

ATGGAAGATTCCCACAAGAGTACCACGTCAGAGACAGCACCTCAACCTGGTTCAGCAGTTCAGGGAGCTCACATT
TCTCATATTGCTCAACAGGTATCATCTTTATCAGAAAGTGAGGAGTCCCAGGACTCATCCGACAGCATAGGCTCC
TCACAGAAAGCCCACGGGATCCTAGCACGGCGCCCATCTTACAGAAAAATTTTGAAAGACTTATCTTCTGAAGAT
ACACGGGGCAGAAAAGGAGACGGAGAAAATTCTGGAGTTTCTGCTGCTGTCACTTCTATGTCTGTTCCAACTCCC
ATCTATCAGACTAGCAGCGGACAGTACATTGCCATTGCCCCAAATGGAGCCTTACAGTTGGCAAGTCCAGGCACA
GATGGAGTACAGGGACTTCAGACATTAACCATGACAAATTCAGGCAGTACTCAGCAAGGTACAACCTATTCTTCAG
TATGCACAGACCTCTGATGGACAGCAGATACTTGTGCCCAGCAATCAGGTGGTCGTACAACTGCATCAGGAGAT
ATGCAAACATATCAGATCCGAACTACACCTTCAGCTACTTCTCTGCCACAACTGTGGTGATGACATCTCCTGTG
ACTCTCACCTCTCAGACAACTAAGACAGATGACCCCCAATTGAAAAAGAGAAATAAGGTTAATGAAAAACAGAGAA
GCTGCTCGAGAATGTGCGCAGAAAGAAGAAAGAATATGTGAAATGCCTGGAAAACCGAGTTGCAGTCCTGGAAAAT
CAAAATAAACTCTAATAGAAAGAGTTAAAAACTTTGAAGGATCTTTATTCCAATAAAAGTGTTTGA

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FIGURE 3575

MEDSHKSTTSETAPQPGSAVQGAHISHIAQQVSSLSESEESQDSSDSIGSSQKAHGILARRPSYRKILKDLSSD
TRGRKGDGENSGVSAAVTSMVPTPIYQTSSGQYIAIAPNGALQLASPGTDGVQGLQTLTMTNSGSTQQGTTILQ
YAQTS DGQQILVPSNQVVQTASGDMQTYQIRTTSPATSLPQTVVMTSPVTLTSQTTKTDDPQLKREIRLMKNRE
AARECRRKKKEYVKLENRVAVLENQNKTLIEELKTLKDLYSNKSV

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FIGURE 3576

GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT
TGTACCTGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCCT
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG
TGACCTGTATTGACCCCAACCCCACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT
TTGAGCGCTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA
CCCTGGTGTCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGTGAGACCGGGAGGGG
CTTTCTATTTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCCTGGATCCTG
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA
AGCTGAAGCTGCAGCACATCCAGGCCCACTGTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAAATGCTAA
GTGGGAGAAGAGAAACCTTTTTTTTTGGGGGGCGGTTTTTTTTGGTTTTGTTGTTTTTTTTTTTTTTTTTTGGCAA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG
GCCGGTCTTGAACCTCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG
TCTGGCTTTCAGAATTAACATACAAGGTTGCCACACCTAGTTCTGCCAGCTTTATGTCTTTTATTCCAGTATTC
CACCAAAGTTTGTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC
ATAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCAATTTCCCTTAATACTTTGCTGAATATTGTAGATTGTAGG
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCCTAAACATCAAGC
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTTAGGTTGGTTAG
AGGGTTTAATATTTTCTGCAATGGTTGTAGGAATTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

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FIGURE 3577

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVVCTLVLCVS
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLEDGNCNLTRESWKALERASF SKLKLQHI
QAPLSWELVRPHIYGYAVK

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FIGURE 3578

CAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTT
TCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGG
GCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCA
AGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCT
TTGGTGGCGCCGGGAGTGGATTTGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCC
TTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACCGTCAACCAGA
GTCTCCTGACTCCCCCTCAACCTGCAAATTGACCCCGCCATCCAGCGGTGCGGGCCGAGGAGCGTGAGCAGATCA
AGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCCCTAGAGCAGCAGAACAAGGTTCTGGACA
CCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACA
TCAACAACCTCAGGAGGCAGCTGGACAACAT

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FIGURE 3579

CCTGCCTCTCGCCTCCAGCCTCCAACGCTCGCCACAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACC
ACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCT
GGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTT
GGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGC
GGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATTTGGTTTTCGGTGGTGGAGCC
GGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCC
CCTGGAGGCATCCAAGAGGTCACCGTCAACCAGAGTCTCCTGACTCCCTCAACCTGCAAATTGACCCCGCCATC
CAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTG
CGGTTCTTAGAGCAGCAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTG
AGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTCGGGGAA
CGGGGCCCGCTGGACTCGGAGCTGAGAAACATGCAGGACCTGGTGGAGGACCTCAAGAACAAATATGAGGATGAA
ATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGATGCTGCCTACATGAACAAG
GTTGAACTGCAAGCCAAGGCAGACACTCTCACAGATGAGATCAACTTCCTGAGAGCCTTGTATGATGCAGAGCTG
TCCCAGATGCAGACCCACATCTCAGACACATCCGTGGTGCTATCCATGGACAACAACCGCAACCTGGACCTGGAC
AGCATCATCGCTGAGGTCAAGGCCAATACGAGGAGATTGCTCAGAGGAGCCGGGCTGAGGCTGAGTCCTGGTAC
CAGACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAGCAGGAGATT
GCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCATGTCAAGAAGCAGTGTGCCAGCCTGCAG
GCTGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCACTCAAGGATGCTAAGAACAAGCTGGAAGGGCTGGAG
GATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGAGCTGATGAATGTCAAGCTG
GCCCTGGATGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGTGCAGGCTGAATGGCGAAGGCGTT
GGACAAGTCAACGTCTCTGTAGTACAGTCCACCATCTCCAGTGGCTATGGCGGTGCCAGCGGTGTGGCAGTGGC
TTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCATTGGAGGTGGCTTCAGTTCCAGCAGT
GGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAAGTACACCACCACCTCCTCC
TCCAGCAGGAAGAGCTACAAGCACTAAAGTGCTGCCTCCAGCTCTCGGTCCCACAGTCCTCAGGCCCTTCTCTGG
CTGCAGAGCCGTCTCCTCAGGTTGCCTATCCTCTCCTGGCCTCTAGTCTTCCCTGCTCTCCGAGGTAGAGCTGGG
TATGGATGCTTAGTGCCCTCACTTCTCTGTCTATACCTGCCCCATCTGAGCACCCATTGCTCACCATCAGATC
AACCTTTGATTTTACATCATAATGTATTACCAATGGAGCTTCACTTTGTTACTAAATTATTAATTTCTTGCCCTC
CAAAATTGTTCTCTCTGAGGCTGAGCATTATAAGAAAATGATCTCTGTTCCTTTTTCACTACTGAAAATCGCCTGG
GGCTTATTTTCAAGAACAACCTTCCACTTATTTTTCCATTGGCCCCCAAACCTCCCTAAGTTAAAAGTATTGTGAACCCC
CGCCCCGCAGTATGCATGGAAGCACAAAGTGAAGTGTGATGTACACAGTCTTTCTCCCTGTGATGATTCT
CTGCTCTTTGCTCTTTGTAATTTCTAAATAAAGCAGGTTTTAGAATAA

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FIGURE 3580

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCT
CCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTG
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGG
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGGCC
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCAACGTCAACCAGAGTCTCCTGACTCCCCCTCAACCT
GCAAATCGATCCCACCATCCAGCGGGTGCGGGCTGAGGAGCGTGAACAGATCAAGACCCTCAACAACAAGTTTGC
CTCCTTCATCGACAAGGTGCGGTTCTTGAGCAGCAGAACAAGTTCTGGAACAAGTGGACCCTGCTGCAGGA
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCAGCAGTACATCAACAACCTCAGGAGGCAGCT
GGACAGCATTGTGCGGGGAACGGGGCCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGA
TGCTGCCTACATGAACAAGGTTGAACTGCAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCTGAGAGC
CTTGATGATGCAGAGCTGTCCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGTGTCCATGGACAACAA
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC
TGAGGCTGAGTCTGTGTTACCAGACCAAGTACGAGGAGCTGCAGGTCACAGCAGGCAGACATGGGGACGACCTGCG
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA
GCAGTGCGCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAGGAGTGCAG
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC
CAGTGGTGTGCGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAA
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTATAAGCACTAAAGTGCGTCTGCTAGCTCTCGGTCCCACAG
TCCTCAGGCCCCCTCTCTGGCTGCAGAGCCCTCTCCTCAGGTTGCCTTTCTCTCTCTCTCTCTATACCATCTGAGCACCC
ATTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCAGTGGAGCTTCACTGTTACTAAATT
ATTAATTTCTTGCTCCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAAATGACCTCTGCTCCTTTTTCATTG
CAGAAAATTGCCAGGGGCTTATTTTCAACAACCTTCCACTTACTTTCCACTGGCTCTCAAACCTCTCTAACTTATA
AGTGTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAGTGACTAGTCCTATGATGTACAAAGCCTGTAT
CTCTGTGATGATTTCTGTGCTCTTCGCTGTTTGCAATTGCTAAATAAA

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FIGURE 3581

TCGACAGCTCTCTCGCCCAGCCCAGTTCTGGAAGGGATAAAAAGGGGGGCATCACCGTTCCTGGGTAACAGAGCCA
CCTTCTGCGTCTCTGCTGAGCTCTGTTCTCTCCAGCACCTCCCAACCCACTAGTGCCTGGTTCTCTTGCTCCACCA
GGAACAAGCCACCATGTCTCGCCAGTCAAGTGTGTCTTCCGGAGCGGGGGCAGTCGTAGCTTCAGCACCGCCTC
TGCCATCACCCCGTCTGTCTCCCGCACCAGCTTCACCTCCGTGTCCCGGTCCGGGGGTGGCGGTGGTGGTGGCTT
CGGCAGGGTCAGCCTTGCGGGTGCTTGTGGAGTGGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGGCTC
CAAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAGGAACCGGTTTGGTGCTGGTGCTGGAGGCGGCTATGG
CTTTGGAGGTGGTGCCGGTAGTGGATTTGGTTTCGGCGGTGGAGCTGGTGCTGGCTTTGGGCTCGGTGGCGGAGC
TGGCTTTGGAGGTGGCTTCGGTGGCCCTGGCTTTCTGTCTGCCCTCCTGGAGGTATCCAAGAGGTCACTGTCAA
CCAGAGTCTCCTGACTCCCTCAACCTGCAAATCGACCCAGCATCCAGAGGGTGAGGACCGAGGAGCGCGAGCA
GATCAAGACCCTCAACAATAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCTTGAGCAGCAGAACAAGGTTCT
GGACACCAAGTGACCTTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCAGCA
GTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGGGAACGGGGCCGCCTGGACTCAGAGCTGAGAAA
CATGCAGGACCTGGTGGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGAATGA
GTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATGCACT
GATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCAGATGCAGACGCATGTCTCTGACAC
CTCAGTGGTCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCAGTA
TGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGAC
AGCTGGCCGGCATGGCGATGACCTCCGCAACACCAAGCATGAGATCTCTGAGATGAACCGGATGATCCAGAGGCT
GAGAGCCGAGATTGACAAATGTCAAGAAACAGTGCGCCAATCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGG
GGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACAT
GGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCG
CAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCAGTCAACATCTCTGTTGTCACAAG
CAGTGTTTTCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGCCTCGGTGGAGGTCTTGCGGGCGGCCTCGG
TGGAGGTCTTGCCGGAGGTAGCAGTGAAGCTACTACTCCAGCAGCAGTGGGGGTGTGCGCCTAGGTGGTGGGCT
CAGTGTGGGGGGCTCTGGCTTCAGTGCAAGCAGTGGCCGAGGGCTGGGGGTGGGCTTTGGCAGTGGCGGGGGTAG
CAGCTCCAGCGTCAAATTTGTCTCCACCACCTCCTCCTCCCGGAAGAGCTTCAAGAGCTAAGAACCTGCTGCAAG
TCACTGCCTTCCAAGTGCAAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTAT
CCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGCCCCATTCCC
AGCCCCCTGGTCTCCCGTGCCGAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCACAGCATGGCCCT
GCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCCAAATTTTGT
TTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAATAT

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FIGURE 3582

GTGGGCTCAGTGTGGGGGGCTCTGGCTTCAGTGCAAGCAGTGGCCGAAGCTTCAAGAGCTAAGAACCTGCTGCAA
GTCAGTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTA
TCCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACACATTCTTTGGTTCCCAGGAGAGCCCCATTCC
CAGCCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGCATGGCCCC
TGCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCCAAATTTTG
TTTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAATA

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FIGURE 3583

GTGCGGTTCCCTGGAGCAGCAGAACAAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACT
GTGAGGCAGAACCTGGAGCCGTTGTTGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGG
GAACGGGGCCGCCTGGACTCAGAGCTGAGAAACATGCAGGACCTGGTGGAAGACTTCTAGGCAGTTGCTCAAGCC
ATGTTTTATCCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGC
CCCATTCCCAGCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGC
ATGGCCCCTGCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCC
AAATTTTGTTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAAT

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FIGURE 3584

GAAACATGCAGGACCTGGTGGAAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGA
ATGAGTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATG
CACTGATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCAGATGCAGACGCATGTCTCTG
ACACCTCAGTGGTCCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCC
AGTATGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTCCGCAACACCAAGCA
TGAGATCTCTGAGATGAACCGGATGATCCAGAGGCTGAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAA
TCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGGGGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGA
GCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACAC
CAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCGCAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGA
AGGAG

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FIGURE 3585

CCGCGCCTTCAGCTGCATCTCGGCCTGCGGGCCCCGGCCCCGGCCGCTGCTGCATCACCGCCGCCCCCTACCGCGG
CGTCTCCTGCTACCGCGGCCTCACCGGAGGCTTCGGCAGCCACAGCGTGTGCGGGGGCTTCGCGCCGGCTCCTG
CGGACGCAGCTTCGGCTACCGCTCCGGGGGCGTGTGCGGACCCAGCCCCCATGCATCGCCACCGTGTCTGGTCAA
CGAGAGCCTCCTCACGCCCCCTCAACCTGGAGATCGACCCCAACGCACAGTGCCTGAAGCAGGAGGAGAAGGAGCA
GATCAAGTCCCTCAACAGCAGGTTTCGCGGCCTTCATGGACAAGGTGGGTGTCCTGGAGCAGCAGAACAAGCTGCT
GGAGACAAAGCTGCAGTTCTTCCAGAACCCTGAGTGTGCAAGAGCAACCTGGAGCCTCTGTTTGAGGGCTACAA
CTCTGCGACGGGAGGCCGAGTGCATGGAAGCCAACAGTGGGAGGCTGGCCTCAGAGCTCAACCACGTGCAGGAGG
TGCTGGAGGGTTACAAGAAGAAGTATGAGGAGGAGGTTTCTCTGAGAGCAACAGCTGAGAACGAGTTTGTGGCTT
TGAAGAAGGATGTGGACTGCGCCTACCTCCGCAAGTCAGACCTGGAGGCCAACGTGGAGGCCCTGATCCAGGAGA
TCGACTTCCTGAGGCGGCTGTATGAGGAGGAGATCCTCATTCTCCAGTCGCACATCTCAGACACCTCCGTGGTTG
TCAAGCTGGACAACAGCCGGGACCTGAACATGGACTGCATCATTGCCGAGATTAAGGCACAGTATGACCACATTG
TCACCCGCAGCCGGGCGGAGGCCGAGTCTGGTACCGCAGCAAGTGTGAGGAGATGAAGGCCACGGTGATCAGGC
ACGGGGAGACCTTGCGCCGCACCAAGGAGGAGATCAATGAGCTGAACCGCATGATCCAAAGGCTGACGGCCGAGG
TGGAGAATGCCAAGTGCCAGAACTCCAAGCTGGAGGCCGCGGTGGCCAGTCTGAGCAGCAGGGTGAGGCGGCC
TCAGTGATGCCCCGCTGCAAGCTGGCCGAGCTGGAGGGCGCCCTGCAGAAGGCCAAGCAGGACATGGCCTGCCTGA
TCAGGGAGTACCAGGAGGTGATGAACTCCAAGCTGGGCCTGGACATCGAGATCGCCACCTACAGGCGCCTGCTGG
AGGGCGAGGAGCAGAGGCTATGTGAAGGCATTGGGGCTGTGAATGTCTGTGTGTCAGCAGCTCCCGGGGCGGGTCTG
TGTGCGGGGACCTCTGCGTGTCTAGGCTCCCGGCCAGTGAAGTGGCAGTGTCTGCAGCGCTCCGCTGCAACGGGAAC
GTGGCGGTGAGCACCGGCCTGTGTGCGCCCTGCGGCCAATTGAACACCACCTGCGGAGGGGGTTCTGCGGCGTG
GGCTCCTGTGGTATCAGCTCCCTGGGTGTGGGTCTTGCGGCAGCAGCTGCCGGAATGTTAGGCACCCCCAACTC
AAGTCCCAGGCCCCAGGCGTCTTTCCTGCCCTGCCTTGCTTGCCCCATCCAGTCCAGGCGCCTGGAGCAAGTGCT
CAGCTACTTCTCCTCCACTTTGAAAGACCCCTCCCACTCCTGGCCTCACATTTCTCTGTGTGATCCCCCACTTC
TGGGCTCTGCCACCCACAGTGGGAAAGGCACCCTAGAAAGAAGTCCGTGGCACCATAGGAAGGGGCTCAGGAGC
AGGAAGGGCCAGGACCAGAACCTTGCCACGGCAACTGCCTTCCTGCCTCTCCCCTTCCTCCTCTGCTCTTGATC
TGTGTTTCAATAAATTAATGTAGCC

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FIGURE 3586

GCGAGTGC GCGCTCCTCCTCGCCCGCCGCTAGGTCCATCCCGGCCAGCCACCATGTCCATCCACTTCAGCTCCC
CGGTATTACCTCGCGCTCAGCCGCCTTCTCGGGCCGCGGCGCCAGGTGCGCCTGAGCTCCGCTCGCCCCGGCG
GCCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCCTCACGGCCGCGCGTGGCCGTGCGCTCTGCCTATGGGGGCC
CGGTGGGCGCCGGCATCCGCGAGGTACCATTAACCAGAGCCTGCTGGCCCCGCTGCGGCTGGACGCCGACCCCT
CCCTCCAGCGGGTGCGCCAGGAGGAGAGCGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACA
AGGTGCGGTTTTCTGGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGGACGCTGCTGCAGGAGCAGAAGTCGGCCA
AGAGCAGCCGCCTCCCAGACATCTTTGAGGCCAGATTGCTGGCCTTCGGGGTCAGCTTGAGGCACTGCAGGTGG
ATGGGGGCCGCTGGAGGCGGAGCTGCGGAGCATGCAGGATGTGGTGGAGGACTTCAAGAATAAGTACGAAGATG
AAATTAACCACCGCACAGCTGCTGAGAATGAGTTTGTGGTGCTGAAGAAGGATGTGGATGCTGCCTACATGAGCA
AGGTGGAGCTGGAGGCCAAGGTGGATGCCCTGAATGATGAGATCAACTTCCTCAGGACCCTCAATGAGACGGAGT
TGACAGAGCTGCAGTCCCAGATCTCCGACACATCTGTGGTGCTGTCCATGGACAACAGTCGCTCCCTGGACCTGG
ACGGCATCATCGCTGAGGTCAAGGCGCAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAAGCCTGGT
ACCAGACCAAGTTTGAGACCCTCCAGGCCAGGCTGGGAAGCATGGGGACGACCTCCGGAATACCCGGAATGAGA
TTTCAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCTGAGATCGACAACATCAAGAACCAGCGTGCCAAGTTGG
AGGCCGCCATTGCCGAGGCTGAGGAGCGTGGGGAGCTGGCGCTCAAGGATGCTCGTGCCAAGCAGGAGGAGCTGG
AAGCCGCCCTGCAGCGGGGCAAGCAGGATATGGCACGGCAGCTGCGTGAGTACCAGGAACTCATGAGCGTGAAGC
TGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGAGCCGTTGGCTGGAGATGGAG
TGGGAGCCGTGAATATCTCTGTGATGAATTCCACTGGTGGCAGTAGCAGTGGCGGTGGCATTTGGGCTGACCCTCG
GGGGAACCATGGGCAGCAATGCCCTGAGCTTCTCCAGCAGTGCGGGTCTTGGGCTCCTGAAGGCTTATTCCATCC
GGACCGCATCCGCCAGTCGCAGGAGTGCCCGCGACTGA

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FIGURE 3587

MSIHFSSPVFTSRSAAFSGRGAQVRLSSARPGLGSSSLYGLGASRPVAVRSAYGGPVGAGIREVTINQSLLAP
LRLDADPSLQVRVQEESEQIKTLNNKFASFIDKVRFLQEQNKLLQEQKSAKSSRLPDIFEAQIAGLRG
QLEALQVDGGRLEAELRSMQDVVEDFKNKYEDEINHRTAAENEFVVLKKDVDAAYMSKVELEAKVDALNDEINFL
RTLNETELTELQSQISDTSVVLSDNSRSLDLGIIAEVKAQYEEMAKCSRAEAEAWYQTKFETLQAQAGKHGDD
LRNTRNEISEMNRAIQRLQAEIDNIKNQRAKLEAAIAEAEERGELALKDARAKQEELEAALQRGKQDMARQLREY
QELMSVKLALDIEIATYRKLEGEESRLAGDGVGAVNISVMNSTGGSSSGGGIGLTLGGTMGSNALSFSSSAGPG
LLKAYSIRTASASRRSARD

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FIGURE 3588

TTCCGGTCCCGGCTCAGCCTCCGACCCAGGTGGTCTGGAGCCTGCCGGGAGAGTGGTGGCATCTGAGAGGCTGGT
CGTGGACTGTGGTTGGGGGAGGTGGGAGCTGTTTTAACCGTGTGCCCCCTCTCCTGTGCCGGCGTGGGCATCCCC
CGGGGCAGTGGAACGCGGGCGCTCCTCCAGCTTCCGAGTCCAGCCAGCCTGGGCGCGGGGCGCCGCCCCGAGAC
ACCCGAGGAGTCCGTTCCCTCCCTGGTTACGTGGACTGTGGAGCTGGTCTCTTGTGGCTCAGCGCCGTGCGGAGGT
TGAAGCGTACCTGCGGAGGTGCGACCAGGGCGTGAGGAGGAGGAGGAAGGGCATGAGCCGAGCTTGAGGAATCCG
TGCTCCAAACTCTACACTCAAGGGTGGCCCTTGGGTAGGGTGAAGATCCCCTGTCTTTATCCTAGTTCCACACCT
TGGTGTGGGTACTGGGTGCAGGATGAAGTGTGCTCGCTCGGAGGTGCTGGAGGTGTCGGTGGAGGGGCGGCAGGTGG
AGGAGGCCATGCTGGCTGTGCTGCACACGGTGCTTCTGCACCGCAGCACAGGCAAGTTCCACTACAAGAAGGAGG
GCACCTACTCCACTGGCACCCTGGGCACCCAGGATGTTGACTGTGACTTCATCGACTTCACTTATGTGCGTGTCT
CTTCTGAGGAACTGGATCGTGCCCTGCGCAAGGTTGTTGGGGAGTTCAAGGATGCACTGCGCAACTCTGGTGGCG
ATGGGCTGGGGCAGATGTCCTTGAGTTCTACCAGAAGAAGAAGTCTCGCTGGCCATTCTCAGACGAGTGCATCC
CATGGGAAGTGTGGACGGTCAAGGTGCATGTGGTAGCCCTGGCCACGGAGCAGGAGCGGCAGATCTGCCGGGAGA
AGGTGGGTGAGAACTCTGCGAGAAGATCATCAACATCGTGGAGGTGATGAATCGGCATGAGTACTTGCCCAAGA
TGCCACACAGTCGGAGGTGGATAACGTGTTTGACACAGGCTTGCGGGACGTGCAGCCCTACCTGTACAAGATCT
CCTTCCAGATCACTGATGCCCTGGGCACCTCAGTCACCACCACCATGCGCAGGCTCATCAAAGACACCCTTGCCC
TCTGAGCGTCTGCTGGATCTCTGGGAGCTCCTTGATGGCTCCCAGACCTTGGCTTTTGGGAATTGCACTTTGGGC
CTTTGGGCTCTGGAACCTGCTCTGGGTGATTGGTGAGACTTGGAAGGGGCAGCCCCGCTGGCTTCTTGGTTTTG
TGGTTGCCAGCCTCAGGTCATCCTTTAATCTTTGCTGACGGTTCAGTCCTGCCTCTACTGTCTCTCCATAGCCC
TGGTGGGGTCCCCCTTCTTTCTCCACTGTACAGAAGAGCCACCACTGGGATGGGGAATAAAGTTGAGAACATG

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FIGURE 3589

MNCRSEVLEVSVEGRQVEEAMLAVLHTVLLHRSTGKFHYKKEGTYSTGTVGTQDVLDCDFIDFTYVRVSSEELDRA
LRKVVGEFKDALRNSGGDGLGQMSLEFYQKKKSRWPFSEDECIPWEVWTVKVHVVALATEQERQICREKVGEKLCE
KIINIVEVMNRHEYLPKMPTQSEVDNVFDTGLRDVQPYLYKISFQITDALGTSVTTTMRRLIKDTLAL

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FIGURE 3590

ATGAGCAGACAAGCCAGCAAGACATCTGGTGGCGGGAGCCAGGGTTTCTCCGGCCGCTCTGCTGTGGTCTCCGGC
AGCAGCAGGATGAGCTGTGTGGCCCACTCTGGGGGAGCTGGCGGAGGGGCCTATGGCTTCCGGAGCGGAGCAGGT
GGCTTTGGCAGTCGCAGCCTCTACAACCTGGGCGGCAACAAGAGCATCTCCATCAGCGTGGCAGCTGGCGGGCTCC
CGGGCTGGAGGCTTTGGGGGAGGGCGGAGCAGCTGTGCCTTTGCAGGTGGCTATGGAGGTGGCTTTGGGAGCGGC
TATGGAGGTGGCTTTGGTGGTGGCTTTGGTGGTGGCAGAGGAATGGGAGGTGGCTTTGGTGGAGCTGGTGGCTTT
GGAGGGGCTGGTGGCTTTGGAGGGGCTGGTGGCTTTGGTGGTCCTGGTGGCTTTGGTGGGTCTGGTGGCTTTGGT
GGGCCTGGCAGCTTGGGCAGTCCTGGTGGCTTTGGCCCTGGGGGCTTTCCTGGGGGAATTCAGGAAGTGACTATC
AACCAGAGTCTCCTGCAGCCCCTCAATGTGGAGATCGACCGCCAGATTGGGCAAGTAAAGGCCCAGGAGCGGAAA
CAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATTGACAAGGTGCGGTTTCCTGGAGCAACAGAACAAAGTC
CTGGAGACCAAGTGGAACCTGCTCCAGCAGCAGGGCACAAGTTCCATCTCAGGCACAAACAACCTTGAGCCTCTT
TTTGAGAATCACATCAACTACCTGCGGAGCTACCTGGACAACATCCTCGGGGAGAGAGGGGCGCCTGGACTCTGAG
CTGAAGAACATGGAGGACCTGGTGGAGACTTCAAGAAGAAATATGAGGATGAAATCAATAAACGTACAGCTGCT
GAGAATGAATTTGTGACTCTGAAGAAGGATGTGGACAGTGCCTATATGAACAAGGTGGAGCTTCAGGCCAAAGTG
GATGCCTTGATAGATGAGATCGACTTCTTAAGGACCCTCTACGACGCTGAGCTATCTCAGATGCAGAGCCACATC
AGTGACACATCTGTGGTGTGTCCATGGACAATAATCGCTCCCTGGACCTGGACAGCATCATTGCTGAAGTTCGT
GCACAGTATGAGGATATCGCTCAGAGAAGCAAGGCCGAAGCTGAGGCCCTGTACCAGACCAAGTTGGGGGAGCTG
CAGACCACGGCTGGCAGGCATGGGGATGACCTAAGAAATACCAAGAGCGAGATCATAGAGCTCAACAGAATGATC
CAGAGGCTGCGGGCAGAGATCGAGGGTGTCAAGAAGCAGAATGCCAACCTGCAGACGGCCATTGCCGAGGCCGAG
CAGCATGGAGAGATGGCCCTCAAGGATGCCAATGCCAAGCTCCAAGAGCTGCAGGCTGCTCTACAGCAGGCGAAG
GATGACCTGGCGCGGCTGTCTACGTGACTACCAGGAGCTGATGAATGTCAAGCTGGCCCTGGACGTGAGATCCCCC
CCTACCGCAGCTGCTGGAGGGCGAGGAGTACAGCAGGATGTCTGGAGAGTGTCCGAGTGTCTCAGCATCTCCGT
GGTCAGCAGCAGCACGACTTCCGCCTCCGCAGGTGGCTATGGAGGAGGTTACGGCGGAGGCATGGGCGGTGGTTT
AGGAGGTGGCTTCAGTGCGGGCGGCGGCTCAGGCAGTGGCTTTGGCCGGGGAGGCGGCGGTGGAATCGGCGGTGG
ATTTGGCGGCGGCAGCAGCGGTTTCAGCGGTGGCAGCGGCTTTGGCTCCATCTCTGGCGCCCGCTATGGAGTCAG
TGGCGGGGGCTTCAGCTCGGCCAGCAACCGGGGCGGCAGCATCAAGTTCTCCCAGTCCTCCCAGTCCTCCCAGCG
CTACTCCAGATAAAGAGCACGCATCAGCATCGCAGCCACTCCAGCGCCTCCCCCTCCGCTCCCCACGCCCCCATAT
TGGCAACACCCCCAGCGCCACCCCATGCTCCCCAAGAACGCGGCTCTGCGCTGGAAGGCTTGTGGCCTCTTGCTC
CTCCTTCCAGATCCCCGGCCAAGCCCAGTCACGAGAATTTAGGCTCTTCTCTCCGGCTCCAGCCTGTGCCTGTG
ATTGTCCAGGTGTGGCCTAGGCCGCCACCTTCTGCTGCCCGGAGTCCCCTCCCTGGGTGGGATGCTCACTACAG
CTCTGATGTATATAGCACACAGCCCCCTCCGCCCTCCGGTCTGTGCGCAATAAA

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FIGURE 3591

CTGCTCCTTCTAGGATCTCCGCCTGGTTGCGCCCGCCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGA
CCCAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTT
CCCGCATCAGCTCCTCGAGCTTCTCCCGAGTGGGCAGCAGCAACTTTCGCGGTGGCCTGGGCGGCGGCTATGGTG
GGGCCAGCGGCATGGGAGGCATCACCGCAGTTACGGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGTGG
ACCCCAACATCCAGGCCGTGCGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCA
TAGACAAGGTACGGTTCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGA
CGGCTCGAAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCC
AGGAGAAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGG
ATGAGATCAATAAGCGTACAGAGATGGAGAACGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACATGA
ACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACCGACGAGATCAACTTCCTCAGGCAGCTATATGAAGAGG
AGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGCTGTCCATGGACAACAGCCGCTCCCTGGACA
TGGACAGCATCATTTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCGCAGCCGGGCTGAGGCTGAGAGCA
TGTACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGGAAGCACGGGGATGACCTGCGGCGCACAAAGACTG
AGATCTCTGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCC
TGGAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAAGGATGCCAACGCCAAGTTGTCCGAGC
TGGAGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGCGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCA
AGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGA
TGCAGAACATGAGTATTATACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCA
CAAGCCCCGGCCTCAGCTACAGCCTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGCTCCTTCAGCCGCACCA
GCTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACACGTGATGGGAAGCTGGTGTCTGAGTCTCTGACGTCC
TGCCCAAGTGAACAGCTGCGGCAGCCCCCTCCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGGGAAGGAGGCC
GCTATGCAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCCACCTGGGGAGTTT
ACTACCTGGGGACCCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTTTTTGGTCCAAAT
AAAACCTCAGCTAGCTCTGCCAAACCC

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FIGURE 3592

MSIRVTQKSYKVSTSGPRAFSSRSYTSGPSRISSSSF SRVGSSNFRGGLGGGYGGASGMGGITAVTVNQSLSP
LVLEVDPNIQAVRTQEKEQIKTLNNKFASFIDKVRFLEQQNKMLETKWSLLQQQKTARSNMDNMFESYINNLRRO
LETLGQEKLEAEELGNMQGLVEDFKNKYEDEINKRTEMENEFVLIKKDVDEAYMNKVELESRLLEGLTDEINFLR
QLYEEEIRELQSQISDTSVVLSDNSRSLDMDSI IAEVKAQYEDIANRSRAEAESMYQIKYEELQSLAGKHGDDL
RRTKTEISEMNRNISRLQAEIEGLKGQRASLEAAIADAEQRGELA IKDANAKLSELEAALQRAKQDMARQLREYQ
ELMNVKLALDIEIATYRKLLGEESRLESQMNMNSIHTKTTSGYAGGLSSAYGGLTSPGLSYSLSGSSFGSGAGSS
SFSRTSSSRVAVVKIETRDGKLVSESSDVLPK

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FIGURE 3593

CGGGGTCGTCCGCAAAGCCTGAGTCCTGTCTTTCTCTCTCCCCGGACAGC**ATG**AGCTTCACCACTCGCTCCACC
TTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCC
AGCGTCTATGCAGGCGCTGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCAGGGGCGGCATG
GGGTCCGGGGGCTTGGCCACCGGGATAGCCGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACC
ATGCAAAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACCGAGAACCGGAGGCTG
GAGAGCAAAATCCGGGAGCACTTGGAGAAGAAGGGACCCAGGTCAGAGACTGGAGCCATTACTTCAAGATCATC
GAGGACCTGAGGGCTCAGATCTTCGAAATACTGTGGACAATGCCCGCATCGTTCTGCAGATTGACAATGCCCGT
CTTGCTGCTGATGACTTTAGAGTCAAGTATGAGACAGAGCTGGCCATGCGCCAGTCTGTGGAGAACGACATCCAT
GGGCTCCGCAAGGTCATTGATGACACCAATATCACACGACTGCAGCTGGAGACAGAGATCGAGGCTCTCAAGGAG
GAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTG
ACCGTGGAGGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCCAATATGACGAG
CTGGCTCGGAAGAACCAGAGAGGAGCTAGACAAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACAGTGGTCACC
ACACAGTCTGCTGAGGTTGGAGCTGCTGAGACGACGCTCAGAGAGCTGAGACGTACAGTCCAGTCCCTTGGAGATC
GACCTGGACTCCATGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCCGCTACGCCCTA
CAGATGGAGCAGCTCAACGGGATCCTGCTGCACCTTGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGACAGCGC
CAGGCCCAGGAGTATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCTG
CTGGAAGATGGCGAGGACTTTAATCTTGGTGATGCCTTGACAGCAGCAACTCCATGCAAACCATCCAAAAGACC
ACCACCCGCCGGATAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGGCAT**TAA**GCCAGC
AGAAGCAGGGTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTTCAGAGTTCATTGGATGTC

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FIGURE 3594

MSFTTRSTFSTNYRSLGSVQAPSYGARPVSSAASVYAGAGGSGSRISVSRSTSFRRGGMGSGGLATGIAGGLAGMG
GIQNEKETMQSLNDRLASYLDRVRSLETENRRLESKIREHLEKKGPQVRDWSHYFKIIEDLRAQIFANTVDNARI
VLQIDNARLAADDFRVKYETELAMRQSVENDIHGLRKVIDDTNITRLQLETEIEALKEELLFMKKNHEEEVKGLQ
AQIASSGLTVEVDAPKSQDLAKIMADIRAQYDELARKNREELDKYWSQQIEESTTVVTTQSAEVGAAETTLTEL
RTVQSLEIDLDSMRNLKASLENSLREVEARYALQMEQLNGILLHLESELAQTRAEGQRQAQYEYALLNIKVKLEA
EIATYRRLLEDGEDFNLGDALDSSNSMQTIQKTTTTRRIVDGKVVSETNDTKVLRH

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FIGURE 3595

AGATAAGAGCTGGACGGAGGCTAAAGCGGCAGCCCCAGCTTCGCGCCCCGCCAGTCCCTTTCCCTGCTGGGGA
TCCCCCTCTTCCCCGCCACCCCTTACCCGCATGCAGCCCAGCGCCCTATGCTAGCCCTCCCCCTCCCCCCTG
CTGGAGCGGGGCGCCGCCGGGGAGGAGGGGGAATCGGCTGCGGGTCCCTTGGTGTTTCCAGCACCCAGTTTCCCT
TCAAGCCGGGTGCGATGTACGACTGTATGGAACGTTTGCCCCGGGTCCGCGACGGCTGTACGGGGCGGCCGGG
CCCCGGGCGCGCTTGCTGCGCAGAGCCACCGGCGGCTCCTGTTTCCCGGACTTGAATCTTTGCTGCGCCGAA
CCCCGCCAGCCTGCAATCGGTGGAGACACAGAGCACCAGCTCAGAGGAGATGGTGCCAGCTCGCCCTCGCCCCCT
CCGCCTCCTCGGGTCTACAAGCCATGCTTCGTGTGCAATGACAAGTCCCTCTGGCTACCACTATGGGGTCAGCTCT
TGTGAAGGCTGCAAGGGCTTCTTTGCGCGAAGCATCCAGAAGAACATGGTGACACGTGTACCGCGACAAAAAC
TGTATCATCAACAAGGTGACCAGGAATCGCTGCCAGTACTGCCGGCTACAGAAGTGCTTGAAGTGGGCATGTCC
AAGGAAGCTGTGCGAAATGACCGGAACAAGAAGAAGAAAGAGGTGAAGGAAGAAGGGTCACCTGACAGCTATGAG
CTGAGCCCTCAGTTAGAAGAGCTCATACCAAGGTGAGCAAAAGCCCATCAGGAGACTTTCCCTCGCTCTGCCAG
CTGGGCAAGTATACCAAGTGCATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCCTGGCTTTACAGGGCTCAGCATT
GAGCTGGCTACCAAGTGCATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCCTGGCTTTACAGGGCTCAGCATT
GCTGACCAGATCACTCTGCTCAAAGCTGCCTGCCTAGATATCCTGATGCTGCGTATCTGCACAAGGTACACCCCA
GAGCAGGACACCATGACCTTCTCCGACGGGCTGACCCTGAACCGGACCCAGATGCACAATGCCGGCTTCGGGCCC
CTCACAGACCTTGTCTTTGCTTTGCTGGGCAGCTCCTGCCCTGGAGATGGATGACACCGAGACAGGGCTGCTC
AGCGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAAAGTGGACAAGCTGCAGGAGCCA
CTGCTGGAAGCCCTGAGGCTGTACGCCCGCGCGCGGCCAGCCAGCCCTACATGTTCCCAAGGATGCTAATG
AAAATCACCGACCTCCGGGGCATCAGCACTAAGGGAGCTGAAAGGGCCATTACTCTGAAGATGGAGATTCCAGGC
CCGATGCCTCCCTTAATCCGAGAGATGCTGGAGAACCCTGAAATGTTTGAGGATGACTCCTCGCAGCCTGGTCCC
CACCCCAATGCCTCTAGCGAGGATGAGGTTTCTGGGGGCCAGGGCAAAGGGGGCCTGAAGTCCCCAGCCTGACCA
GGGCCCCCTGACCTCCCCGCTGTGGGGGTTGGGGCTTCAGGCAGCAGACTGACCATCTCCAGACCGCCAGTGACT
GGGGGAGGACCTGCTCTGCCCTCTCCCCACCCCTTCCAATGAGCTCCTTGTTTTTGCCAAAGTTTCTAGGGGTGC
CTCTGTGTTTCATCCCTTCTGATCTAACC GGCTCCCTCGCCAGTCCCGGGGGCCTGCCCTGCTCCACCAGGAG
AGAGGGCAAAGGGATGAGCCTGGGTTTGGACTCTAAAATCTCAGCACTGCCCCATGGGTCCCTAGACTTCCCAGGG
CAAGAGGAAGACCCTGCCATTCCACAGCCCCCTTCTCTGCCAGGTGCTTGGCTCTCTGAGAGCAAACAGGAACAC
TAGAGACCAAAAAGGGGACAAAGGAGAAGGGCTGAGCCACCTTCTTGCTCCTACCCTTGGTGCCTAATGCTGTG
TGATGCACCTGCAGGGTGTGTGCTAGCCTCTGTGCCCCGTCTTGTGCCAGGTCAAGGTGGGGGCAGGCTGGGCC
CTGCATTTCTGGGGCAGGAACAGAGGGTGAAAGGGACAGATAGATGCAGGTCCATTCTGCACCTCTTGGCTCGGG
TGCAGAGTTACCCCTGTGCCCTCCGTTATAAGTCCCTCCCCAGCCCTGTATGTGCCTTGGGCTCCTCCTGCCC
TCCATCTCAGCCATTGGGGCAGGGACCTCCTACACTACAGAGGGGCCAGGGGATCCCTCTCTCCCTAGTGCCTT
CCACCCTTTACTCCCCAGAGCAGCTTGCCCCAGGGAGGGGGGATGCTGCTTAGCTGATCCCGCCCTGACCCAGAG
GAAGCCTCTATTTATTTATTAGCTTTTGTTTACACCGTGGAATTGACCCCTTCTCCAGGGGTCTTGGGTGGGGG
AGCCCAGGGCCCCCTGTGACCCCTCCTTTCTTCCCAATCCCCAGTTTGTATTTAGCTGCCAAATAAGATTCCCA
TTGGCTCCCTGTGTTCTCTTGGGGGGTCAGGGTGCTGTCCCCTCCCCTCTGTTTACATCTCCCTCTACCCCGCT
GTATCGCATATTGCTGAGTTTTTCTATTTTGC AAAATAAAGTGATGGAACTC

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FIGURE 3596

AGTTTCTAAGGATCATGTCTGCGAGCCAGGATTCTTGATCCAGAGACAACGGCCCCAATGGG**ATCG**AGCCCCAAAG
GTGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCAGAGTCCCTTCTCCGTG
GCATCTACGCCTATGGTTTAGAGAAGCCGTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTATC
ACGTGATTGCTCAAGCCCAATCTGGGGCTGGGAAAATGGCCACATTTGCCATATTGATTCTGCAGCAGATTGAAT
TAGATCTAAAAGCCACCCAGGCCTTGCTCCTAGCACCCACTCAAGAATTGGCTCAGCAGATACAGAAGGTGGTCA
TGGCACTAGGAGACTACATGGGTGCCTCCTGTTCATGCCTGTATCAGGGGCACCAACATGCGTGCTGAGGTGCAGA
AACTGCAGACGAAGCTCCTCACATCATTGTGGGTACCCCTGGCCATGTGTTTGATATGCTTAACGGGAGATACCT
GTCTCCCAAATACATCAAGATGTTTGTACTGGACGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGAT
CTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTGTCTGTCAGCTGCGATGCCTTCTGATGTGCT
TGAGGTGACCAAGAAGTTCATGAGGGACCTCATTCCGATTCTTGTACGAAGGAAGTGTGACCTTGGAGGGTAT
CCGCCAATTCTACATCAATTTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGAC
CATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAG
ATTTCACTGTCTTCACCATTCGTGGAGATATGGACCAAAACGAACAAGACGTGATCTTGAGGGAGTTTCGTTATG
GCTCTAGCAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAACAGGTTTTCTTTAGTCACCAAC
TATGACCTTCCCACCAACAGGGAAAACCATATCCATAGAATCGGTCGAGGTGGACGGTTTTGGCCGTAAAGGTGTG
GCTATTAACGTGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATCGAGATCTTCTACAACTCCTCCATTGAG
GAAATGCCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCTATCTCG
GGGGGCTGAGGAGCAGCAGGAGTGGGGAGGGAAGGGAGCCAAGGGATGGACATCTTGTCATTTTTTTCTTTGAAT
AAATGTCACTTTTTTGAGGCAAAA

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FIGURE 3597

MEPKGVIESNWNNEIVDSFDDMNLSESLLRGIYAYGLEKPSAIQQRAILPCIKGYHVIAQAQSGAGKMATFAILIL
QQIELDLKATQALLLAPTQELAQQIQKVVMA LGDYM GASCHACIRGTNMRAEVQKLQTKLLTSLWVPLAMCLICL
TGDTC L PFGFLSRRKC

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FIGURE 3598

GGAGGACTGGGTGCGCGTGCAGGGATCGGAAGCCGGTTGGAGTGTGTGAGGTTTTCTCGCTCTAGGGAGATTCTT
CAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAAACTTATT
GGAAAAGCTAAAGAGGCACCATTTGTACCCGTTGGAATAGCAGGTTTTGCAGCAATTGTTGCATATGGATTATAC
AAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCTTTGTT
GTAGGAGCAATGACTGTTGGTATGGGCTACTTCATGTATCGGGAATTCTGGGCAAAACCTAAGCCTTAGAAGAAG
AGATGCTGTCTTGGTCTTGTGGACGAGCTTGCTTTAGTTAGACGTCTCATTATTGAAGTTACTATTATTGTTGG
AAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGGCTTGAT
TTGCCTGGTGACCAAATTACTAGTGACTAGTTTACTAACTAGGTCATTAAAGGAAGTCAAGTTAACTTAAACACG
TCAACTAAACGCACATTGATGGTGTGAAATGTCCACCTTCTTAAATTTTAAAGATGAACTGAGTTCTAAAGAAGA
TAACAGGCCAATCCTGAAGGTACTCCCAGTTTGCTGCAGAATCTCACATATTTTGGATGTTGTATAAGAGTCCTA
TTTGCCCCAGTTAATTCAACTTTTGTCTGCCTGTTCTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCCAAAAAG
TGCATGGAATATAACTTGTAAGCTTCCCACAATTGACAATATATGTGCATGTGTTAAGCCAAATCCAGAAAGC
TTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACAACGTAAACATGAGAATAACTTAAGGATTCTA
GTTTAGTTTTTTTGTAAATTGCAAATTATATTTTGTCTGCTGATATATTAGAATAATTTTAAATGTCATCTTGAAA
TAGAAATATGTATTTTAAGCACTCATGCAAAGGTAAATGAACACTTTTTAAATGTGTGTTGCTTATTTTTTCCAT
AAGAATTGTAAACATTGAACTGAACAAATTACCTATAATGGATTTGATTAATGACTAATGAGCAAGCGGGTTTGG
CCAGACAGTATACCCAACTTTTATATAGTATACAGAAGGCTATCACACTTGTGAAATTCTCTTGTCTAATCCGA
ATTTGCATTCCATGGTGATAACATGGTATATGTATTGTTATTAAAGTAAGTGACCCATGTC

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FIGURE 3599

GGAGGACTGGGTGCGCGTGCAGGGATCGGAAGCCGGTTGGAGTGTGTGAGGTTTTCTCGCTCTAGGGAGATTCTT
CAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAACTTATT
GGAAAAGCTAAAGAGGCACCATTGTACCCGTTGGAATAGCAGGTTTTGCAGCAATTGTTGCATATGGATTATAC
AAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCTTTGTT
GTAGGAGCAATGACTGTTGGTATGGGCTACTTCATGTATCGGGAATTCTGGGCCTTTAGTTAGACGTCTCATTAT
TGAAGTTACTATTATTGTTGGAAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTGTTGAATATTGGC
TTCCTTTCTTGCAGGCTTGATTTGCCTGGTGACCAAATTACTAGTGACTAGTTTACTAACTAGGTCATTAAAGGA
AGTCAAGTTAACTTAAACACGTCAACTAAACGCACTTGATGGTGTGAAATGTCCACCTTCTTAAATTT

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FIGURE 3600

GCAGCTGCGCTGCGACTGCTCTGGAAGGAGAGGACGGGGCACAAACCCTGACCATGACCCCCACAGGCTGCTGC
CACCGCTGCTGCTGCTGCTAGCTCTGCTGCTCGCTGCCAGCCCAGGAGGCGCCTTGGCGCGGTGCCCAGGCTGCG
GGCAAGGGGTGCAGGCGGGTTGTCCAGGGGGCTGCGTGGAGGAGGAGGATGGGGGGTCGCCAGCCGAGGGCTGCG
CGGAAGCTGAGGGCTGTCTCAGGAGGGAGGGGCAGGAGTGCGGGGTCTACACCCCTAACTGCGCCCCAGGACTGC
AGTGCCATCCGCCCCAAGGACGACGAGGCGCCTTTGCGGGCGCTGCTGCTCGGCCGAGGCCGCTGCCTTCCGGCCC
GCGCGCCTGCTGTTGCAGAGGAGAATCCTAAGGAGAGTAAACCCCAAGCAGGCACTGCCCGCCACAGGATGTGA
ACCGCAGAGACCAACAGAGGAATCCAGGCACCTCTACCACGCCCTCCCAGCCCAATTCTGCGGGTGTCCAAGACA
CTGAGATGGGCCCCATGCCGTAGACATCTGGACTCAGTGCTGCAGCAACTCCAGACTGAGGTCTACCGAGGGGGCTC
AAACACTCTACGTGCCCAATTGTGACCAICGAGGCTTCTACCGGAAGCGGCAGTGCCGCTCCTCCCAGGGGCAGC
GCCGAGGTCCCTGCTGGTGTGTGGATCGGATGGGCAAGTCCCTGCCAGGGTCTCCAGATGGCAATGGAAGCTCCT
CCTGCCCCACTGGGAGTAGCGGCTAAAGCTGGGGGATAGAGGGGCTGCAGGGCCACTGGAAGGAACATGGAGCTG
TCATCACTCAACAAAAAACCGAGGCCCTCAATCCACCTTCAGGCCCCGCCCATGGGCCCTCACCGCTGGTTGG
AAAGAGTGTGGTGTGGCTGGGGTGTCAATAAAGCTGTGCTTGGGGTCAA

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FIGURE 3601

MTPHRLLPPLLLLLLALLLAASPGGALARCPGCGQGVQAGCPGGCVEEEDGGSPAEGCAEAEGCLRREGQECGVYT
PNCAPGLQCHFPKDDDEAPLRALLLGRGRCLPARAPAVAEENPKESKPQAGTARPQDVNRRDQQRNPGTSTTPSQP
NSAGVQDTEMGFCRRHLDSVLQQLQTEVYRGAQTLYVPNCDHRGFYRKRQCRSSQGQRRGPCWCVDRMGKSLPGS
PDGNGSSSCPTGSSG

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FIGURE 3602A

GCTGGCCGTCTGCGCACCCCTCTCTCCCTCGGCTCTTTCCTAGGAAAGCTGAGCCTCATAGCTTCCGGGAGAAGG
TTTTCCGGAAGAAACCTCCAGTCTGTGCAGTATGTAAGGTGACCATCGATGGGACAGGCGTTTCGTGCAGAGTCT
GCAAGGTGGCGACGCACAGAAAATGTGAAGCAAAGGTGACTTCAGCCTGTCAGGCTTGCCTCCCGTGGAGTTGC
GGCGAAAACAGGCCCCAGTCAGGCGCATAGAGCACCTGGGATCCACCAAATCTCTGAACCACTCAAAGCAGCGCA
GCACTCTGCCCAGGAGCTTCAGCCTGGACCCGCTCATGGAGCGGCGCTGGGACTTAGACCTCACCTACGTGACGG
AGCGCATCTTGGCCGCCGCTTCCCCGCGCGGCCCGATGAACAGCGGCACCGGGGCCACCTGCGCGAGCTGGCCC
ATGTGCTGCAATCCAAGCACCGGGACAAGTACCTGCTCTTCAACCTTTCAGAGAAAAGGCATGACCTGACCCGCT
TAAACCCCAAGGTTCAAGACTTCGGCTGGCCTGAGCTGCATGCTCCACCCCTGGACAAGCTGTGCTCCATCTGCA
AAGCCATGGAGACATGGCTCAGTGCTGACCCACAGCACGTGGTTCGTACTATACTGCAAGGGAAACAAGGGCAAGC
TTGGGGTTCATCGTTTCTGCCTACATGCACTACAGCAAGATCTCTGCAGGGGCGGACCAGGCACTGGCCACTCTTA
CCATGCGGAAATTCTGCGAGGACAAGGTGGCCACAGAAGTGCAGCCCTCCCAGCGTCGATATATCAGCTACTTCA
GTGGGCTGCTATCTGGCTCCATCAGAATGAACAGCAGCCCTCTCTTCTGCACTATGTGCTCATCCCCATGCTGC
CAGCCTTTGAACCTGGCACAGGCTTCCAGCCCTTCCTTAAAATCTACCAGTCCATGCAGCTTGTCTACACATCTG
GAGTCTATCACATTGCAAGGCCCTGGTCCCCAGCAGCTTTGCATCAGCCTGGAGCCAGCCCTCCTCCTCAAAGGCG
ATGTCATGGTAACATGTTATCACAAGGTGGCCGGGGCACAGACCGGACCCTCGTGTTCGAGTCCAGTTCCACA
CCTGCACCATCCACGGACCACAGCTCACTTTCCCAAGGACCAGCTTGACGAGGCCTGGACTGATGAGAGGTTCC
CCTTCCAAGCCTCCGTGGAGTTTGTCTTCTCCTCCAGCCCCGAGAAGATCAAAGGCAGCACTCCACGGAACGACC
CCTCGGTCTCTGTGCACTACAACACCACTGAGCCAGCCGTGCGCTGGGACTCCTATGAGAACTTCAACCAGCACC
ACGAGGACAGTGTGGATGGCTCCTTGACCCACACCCGGGGTCCCCTGGATGGCAGTCCTTATGCCCAGGTGCAGC
GGCCTCCCCGGCAGACCCCCCGGCACCCTCTCCAGAGCCTCCACCACCCCCCATGCTCTCTGTGTCAGCAGCGACT
CAGGCCATTCTCCACGCTGACCACAGAGCCGGCTGCTGAGTCCCCTGGCCGGCCGCCCTTACAGCTGCTGAAC
GGCAGGAGCTGGATCGCCTCCTAGGAGGCTGCGGAGTGGCCAGTGGGGGCGGGGAGCTGGGCGCGAGACGGCCA
TCCTAGATGACGAAGAGCAGCCCACTGTGGGCGGAGGCCCCACCTCGGAGTGTATCCAGGCCATAGGCCTGGCC
TCAGCCGCCACTGCTCCTGCCGCCAGGGCTACCGGGAGCCCTGCGGGGTTCCTAATGGGGGCTACTACCGGCCAG
AGGGAACCCTGGAGAGGAGGCGACTGGCCTACGGGGGCTATGAGGGATCCCCCAGGGCTACGCCGAGGCCTCGA
TGGAGAAGAGGCGCCTCTGCCGATCGCTGTGAGAGGGCTATACCCCTACCCACCTGAGATGGGGAAACCAGCCA
CTGGGGACTTTGGCTACCGCGCCCCAGGCTACCGGGAGGTGGTTCATCCTGGAGGACCCTGGGCTGCCTGCCCTAT
ACCCATGCCCAGCCTGCGAGGAGAAGCTGGCGCTGCCTACAGCAGCCTTGTATGGACTGCGGCTGGAGAGGGAGG
CTGGAGAAGGGTGGGCAAGTGAAGGCTGGCAAGCCTCTCCTGCACCCAGTGCAGGCTGGGCAACCGCTGCCTCTGC
TCTTGCCCTGCCTGTGGGCATCACCATGCCCGCATGCCTGACTACAGCTGCCTGAAGCCACCCAAGGCAGGCGAGG
AAGGGCACGAGGGCTGCTCCTACACCATGTGCCCGAAGGCAGGTATGGGCATCCAGGGTACCCTGCCCTGGTGA
CATAAGCTATGGAGGAGCAGTTCACGTTACTGCCCAGCATATGGCCGTGTGCCTCATAGCTGTGGCTCTCCAG
GAGAGGGCAGAGGGTATCCAGCCCTGGTGGCCACTCCCCACGGGGCTGGCTCCATTTCCCCGGGCAGCCCCCCT
ATCCACAATCTAGGAAGCTGAGCTACGAGATCCCTACGGAGGAGGGAGGGGACAGGTACCCATTGCCTGGGCACC
TGGCCTCAGCAGGACCTTTGGCATCTGCAGAGTCGCTGGAGCCGGTGTCTGAGGGGAGGGCCCCAGTGGGCACA
GCACACTGCCTCGGTCTCCCCGAGATGCCCCATGCAGTGCTTCGTCAGAGTTGTCTGGTCCCTCCACGCCCCCTGC
ACACCAGCAGTCCAGTCCAGGGCAAGGAAAGCACCCGGCGACAGGACACCAGGTCCCCACCTCAGCGCCCACTC
AGAGACTGAGTCTGGCGAGGCCTTGCCCCCTGTTTCCCAGGCAGGCACCGGAAAGGCCCTGAGCTGCCGTCGG
GAAGTGGGCCTGAGCCTCTGGCCCCCTAGCCAGTCTCTCCGACCTTCCCTCCCAGCTCGCCCAGTGAAGTGGCCTC
AGGAAAGGAGTCCAGGGGGGCCACTCAGATGGCGCCAGTCTCGGAGCCCTGTGCCCACCACTTCTGGCCTCC
GCCACGCCCCCTGGCAAGGCCCTCGAGGCCCCCCCCGACAGCCAGATGGGTCTCCCTCACTCCTGTGCCTTCCC
AGATGCCCTGGCTTGTGGCCAGCCCAGAGCCGCCTCAGAGCTCACCTACACCTGCTTTCCCCCTGGCTGCCTCCT
ATGACACCAATGGCCTTAGCCAGCCCCCACTTCTGAGAAACGCCACCTGCCCGGGCGGGGCAACAGCCAGGAC
CCTGGGGCCCAGAGCAGGCATCATCGCCAGCCAGAGGCATCAGTCACCATGTACCTTCGCACCTCTGCTCTCAG
ATAATGTCCCCCAAACCCAGAGCCTCCTACACAAGAGAGCCAAAGCAATGTCAAGTTTGTCCAGGATACATCCA
AGTTCTGGTACAAGCCACACCTGTCCCGTGACCAAGCCATTGCCCTGCTGAAGGACAAGGACCCTGGGGCCTTCC
TGATCAGGGACAGTCATTCAATCCAAGGAGCTTATGGGCTGGCCCTCAAGGTGGCCACACCGCCACCCAGTGCCC
AGCCCTGGAAAGGGGACCCCGTGAACAGCTGGTCCGCCATTTCTCATCGAGACTGGGCCCAAAGGGGTGAAGA

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FIGURE 3602B

TCAAGGGCTGCCCCAGTGAGCCCTACTTTGGCAGCCTGTCCGCCTTGGTCTCCCAGCACTCCATCTCCCCATCT
CCCTGCCCTGCTGCCTGCGCATTCCCAGCAAAGATCCTCTGGAAGAGACCCCAGAGGCTCCAGTGCCCACCAACA
TGAGCACAGCGGCAGACCTCCTGCGTCAGGGTGCTGCCTGCAGCGTGCTCTACTTGACCTCAGTGGAGACAGAGT
CACTGACGGGGCCCCAAGCTGTGGCCCCGGGCCAGCTCTGCAGCTCTGAGCTGTAGCCCCCGCCGACACCAGCTG
TTGTCCACTTCAAGGTGTCAGCCCAGGGCATTACACTGACGGACAACCAAAGGAAGCTCTTCTTTTCGCCGCCATT
ATCCAGTGAACAGCATCACCTTCTCCAGCACTGACCCCTCAAGACCGGAGATGGACCAACCCAGACGGGACCACCT
CCAAGATCTTTGGTTTCGTGGCCAAGAAGCCGGGAAGCCCCCTGGGAGAATGTGTGTACCTCTTTGCAGAGCTTG
ACCCAGATCAGCCTGCTGGCGCCATTGTACCTTCATCACCAAAGTTCTACTGGGCCAGAGAAAATGAAGGAAGG
CCACAAGCTCAGAGCCCACATCAACACTGCCCCCCTCCCAGCACCCACAGCCCTCACATCCCCCTGGCCTGGACC
CAGGAGACCCAGGAGAAAGCACCCCTCCCTTAGGAATGAGGAGTGGGCATCAGGCCTGGGACACTGCTCTCCTTCC
CCGCCCCCAGCCTGCTAAGTTAAGTGGACAGGCCCACAAGATGACCTTGCATGTGAGCAGATGGCAGAGATGGGT
GTGTGAGGGGTGAGGAGGCATCAGCAGTTGAGCCCCGAAGGAGATCAGGCAGCCCCACCTGCAGGAGAACGTCAG
CCCTCCAGGGGATCAGCCCCTGCCAGTTCCACCCAGCTGCAGGTGCCAGCACGGCAGGGATGGGAGAGGGGTGGG
GAGCGAGTCACTGCCTCCTCTGAGCAGAGATTGAGAGTAGGATCACATGAATAGGGGAAAAAAGAGAGTCTATTT
TTGTCTAATAATAAAGAATTTCTATAAACTTT

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FIGURE 3603

MKSSGPVERLLRALGRRDSSRAASRPRKAEPHSFREKVFRKKPPVCAVCKVTIDGTGVSCRVCVATHRKCEAKV
TSACQALPPVELRRNTAPVRRIEHLGSTKSLNHSKQRSTLPRSFSLDPLMERRWDLDTYVTERILAAAFPAPRD
EQRHRGHLRELAHVLOSKHRDKYLLFNLSSEKRDHLTRLNPKVQDFGWPELHAPPLDKLCSICKAMETWLSADPQH
VVVLYCKGNKGKLGVIIVSAYMHYSKISAGADQALATLTMRKFCEDKVATELQPSQRRYISYFSGLLSGSIRMNSS
PLFLHYVLIPMLPAFEPGTGFQPFLLKIYQSMQLVYTSGVYHIAGPGPQQLCISLEPALLLKGDVMVTCYHKGGRG
TDRTLVRVQFHTCTIHGPQLTFPKDQLDEAWTDERFPFQASVEFVVFSSSPEKIKGSTPRNDPSVSVDYNTTEPA
VRWDSYENFNQHHEDSVDGSLTHTRGPLDGSPYAQVQRPPRQTTPAPSPPEPPPPMLSVSSDSGHSSTLTTEPAA
ESPGRPPPTAAERQELDRLLGCGVASGGRGAGRETAILDDEEQPTVGGGPHLGVYPGHRPGLSRHCSCRQGYRE
PCGVPNGGYRPEGTLERRRLAYGGYEGSPQGYAEASMEKRRLCRSLSEGLYPYPPEMGKPATGDFGYRAPGYRE
VVILEDPLPALYPCPACEEKLALPTAALYGLRLEREAGEGWASEAGKPLLHPVRPGHPLPLLLPACGHHHAPMP
DYSCLKPPKAGEEGHEGCSYTMCEPGRYGHPGYPALVTYSYGGAVPSYCPAYGRVPHSCGSPGEGRGYPSPGAHS
PRAGSISPGSPYPQSRKLSYEIPTEEGGDRYPLPGHLASAGPLASAESLEPVSWREGPSGHSTLPRSPRDAPCS
ASSELSGPSTPLHTSSPVQGKESTRRQDTRSPTSAPTQRLSPGEALPPVSQAGTGKAPELPSGSGPEPLAPSPVS
PTFPSSPSDWPQERSPGGHSDGASPRSPVPTTLPGLRHAPWQGRGPPDSPDGSPLTPVPSQMPWLVASPEPPQ
SSPTPAFPLAASYDTNGLSQPPLPEKRHLPGPGQQPGPWGPEQASSPARGISHHVTFAPLLSDNVPQTPEPPTQE
SQSNVKFVQDTSKFWYKPHLSRDQAIALLDKDKDPAFLIRDSSHFSQAYGLALKVATPPPSAQPWKGDPEQLVR
HFLIETGPKGVKIKGCPSEPYFGSLSALVSQHSISPISLPCCLRIPSKDPLEETPEAPVPTNMSTAADLLRQGAA
CSVLYLTSVETESLTGPQAVARASSAALSCSPRPTPAVVHFKVSAQGITLTDNQRKLFRRHYPVNSITFSSTDP
QDRRWTNPDGTTSKIFGFVAKKPGSPWENVCHLFAELDPDQPAGAIVTFITKVLLGQRK

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FIGURE 3604

AATCTAGCCCGGGAACCGAGTTGCGGGAGTGCGGTCTGTGCCGTTCCGGCCAGGAGTTTGCCGACTGCAGACGTC
CTGCGAACCGGCAAGATGTGCTCTCTGGGGTTGTTCCCTCCTCCACCGCCTCGGGGTCAAGTCACCCTATATGAG
CACAATAACGAGCTGGTGACGGGCAGTAGCTATGAGAGCCCCCGGACTTCCGGGGCCAGTGGATCAATCTT
CCTGTCTTACAACCTGACAAAGGATCCCCTAAAGACCCCTGGAAGGCTGGACCATGGCACAAGAAGTGCCTTCATC
CATCACCGGGAGCAAGTGTGGAAGAGATGCATCAACATTTGGCGTGATGTGGGCCTTTTTGGGGTGCTAAATGAA
ATTGCAAACCTCAGAAGAAGAGGTGTTTGAGTGGGTGAAGACGGCATCCGGCTGGGCCCTGGCACTCTGTTCGATGG
GCCTCTTCCCTCCATGGGTCCCTGTTCCCCCATCTGTCTCTCAGGAGCGAAGATCTGATCGCTGAATTTGCCCAA
GTCACAAATTGGTCCAGCTGCTGCTTGCCTGTCTTTGCATGGCACCCCCACACCAACAAGTTTGAGTGGCCCTG
CTAGATGACTCAGTCCGTGTGTATAATGCCAGCAGCACCATAGTCCCCCTCCCTGAAGCACCGGCTGCAGCGAAAT
GTGGCGTCTCTGGCCTGGAAGCCCCCTTAGTGCCCTCTGTCTTTGGCTGTGGCCTGCCAGAGCTGCATTCTTATCTGG
ACCCTGGACCCTACCTCCTTGTCTACCCGACCCTCTTCTGGCTGTGCCCAAGTGCTGTCTCACCCCTGGGCATACA
CCTGTTACCAGCTTGGCCTGGGCCCCCAGTGGGGGGCGGCTGCTCTCAGCTTCACCCGTGGATGCTGCTATCCGG
GTATGGGATGTCTCAACAGAGACCTGTGTCCCCCTTCCCTGGTTCCGAGGAGGTGGGGTGACCAACCTGCTCTGG
TCCCCAGACGGCAGCAAAATCCTGGCTACCACTCCTTCAGCTGTCTTTTCGAGTCTGGGAGGCCCAGATGTGGACT
TGTGAGAGGTGGCCTACTCTATCAGGGCGCTGTGAGACTGGCTGCTGGAGCCCAGATGGCAGCCGACTGCTGTTC
ACTGTATTGGGAGAGCCACTGATTTACTCCCTGTCTTTTCCAGAACGTTGTGGTGAGGGAAAGGGGTGCGTTGGA
GGTGCAAAGTCAGCAACGATTGTGGCAGATCTGTCTGAGACAACAATACAGACACCAGATGGTGAGGAGAGGCTT
GGGGGAGAGGCTCACTCCATGGTCTGGGACCCCACTGGGGAACGTCTGGCTGTGCTTATGAAAGGAAAGCCAAGG
GTACAGGATGGTAAACCAGTCATCCTCCTTTTTTCGCACTCGAAACAGCCCTGTGTTTGAGCTCCTTCCCTGTGGC
ATTATCCAGGGGGAGCCAGGAGCCCAGCCCCAGCTCATCACTTTCCATCCTTCCTTCAACAAAGGGGCCCTGCTC
AGTGTGGGCTGGTCCACAGGCCGAATTGCCACATCCCGCTGTACTTTGTCAATGCCAGTTTCCACGTTTTAGC
CCAGTGCTTGGGCGGGCCCAGGAACCCCTGCTGGGGGTGGAGGCTCTATTCATGACCTGCCCTCTTTACTGAG
ACATCCCCAACCTCTGCCCCCTTGGGACCCTCTCCCAGGGCCACCACCTGTTCTGCCCCACTCCCCACATTCCAC
CTCTTAAGAATAAATAAGTTTTCTTTGTTTTCCACTCA

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FIGURE 3605

MCSLGLEFPFPPPRGQVTLYEHNNELVTGSSYESPPPDFRGQWINLPVLQLTKDPLKTPGRLDHGTRTAFIHHREQ
VWKRCINIWRDVGLFGVLNEIANSEEEVFEWVKTAGWALALCRWASSLHGSLFPHLSLRSEDLIAEFAQVTNWS
SCCLRVFAWHPHTNKFALLDDSVRVYNASTIVPSLKHRLQRNVASLAWKPLSASVLAVACQSCILIWTLDP
SLSTRPSSGCAQVLSHPGHTPVTSLAWAPSGGRLLSASPVDAAIRVWDVSTETCVPLPWFRGGGVTNLLWSPDGS
KILATTPSAVFRVWEAQMWTCERWPTLSGRCQTGCWSPDGSRLLEFTVLGEPLIYSLSFPERCGEGKGCVGGAKSA
TIVADLSETTIQTPDGEERLGGEAHSMVWDPSGERLAVLMKGKPRVQDGKPVILLFRTRNSPVFELLPCGIIQGE
PGAQPQLITFHPSFNKGALLSVGWSTGRIAHIPLYFVNAQFPRFSPVLGRAQEPPAGGGGSIHDLPLFTTETSPTS
APWDPLPGPPPVLPHSPHSHL

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FIGURE 3606

AACGGGATGGGGAGCTGGACCAGCAGATTATGAGCTTACAGAAAGCCTGGCCTACATTTTACTCTTTTTGGATTT
CTTCCTCATCAAGAGACTGCTGCAGTGCCTGTCATGTGACAGCGGCATGGACAT**ATG**CCCCAGGCTTTCCTGCTG
GGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCCCTGGAAGCTTGGCTGAGAGCTTCCTG
GAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTTTTTCGGAGCCTGTGGGCATCATCTACAATCCC
GTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCCAAGGAAGTACTCTTCCTG
GGCATGAACCCTGGACCTTTTGGCATGGCCCAGACTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGG
TTGGGCATTGTGGGGCCTGTGCTGACCCCTCCCCAAGAGCATCCTAAACGACCAGTGCTGGGACTGGAGTGCCCCA
CAGTCAGAAGTGAGTGGTGCCGATTCTGGGGCTTTTTCCGGAACCTCTGTGGACAGCCTGAGGTCTTCTTCCAT
CACTGTTTTGTCCACAATCTATGCCCTCTGCTTTTCTGGCTCCCAGCGGGCGCAACCTTACTCCTGCTGAGCTG
CCTGCCAAGCAGCGAGAACAGCTTCTTGGGATCTGTGATGCAGCCCTCTGCCGGCAGGTGCAGCTGCTGGGGGTG
CGGCTGGTGGTGGGAGTTGGGCGACTGGCAGAGCAGCGGGCACGACGGGCTCTGGCAGGCCTGATGCCAGAGGTC
CAGGTGGAAGGGCTCCTGCATCCCTCTCCCCGTAACCCACAGGCCAACAAAGGGCTGGGAGGCAGTGGCCAAGGAA
AGATTGAATGAGCTGGGGCTGCTGCCACTGCTGTTGAAAT**TGAG**TGCCCTTGGGGCCTTGCATGGGACACATTCAA
GACCTCGAAGTCATTCTTGGCCAAGCAGATGACAACACATCTCCTGGACTGGAGCAAAAGGTCCTTCTGTGCACC
CTGGTCGCTGGGAAACGTATTCTTTGATCTGTTGAACTGTCTTCCAACCTGCCATGGCAGTTTTTGACACTACTCC
TGTTTGCCCTCCTGATTCTGCTTTCTTTACCTTTTAACATTGCCCTTTCAGGGGACCCCACTTTGTAGGGAAT
CTGCAGAAGGTGTGCTTTTGCCTTGCAGACTGCTCTACCTCAGTGTTTCCTTGGGAGACTTTATTAGCTGAGA
GTGCCCTAGACAGTAACTTCTAAGGTCACGTTTACTATTTTCAAGAGAAATATCTTGCCAGGATACCTACCCATCC
TTATAGAACAGTTACCTTTAGCTGACCCCTTTCCTCACAGGGACCAAGACAAAGCATGGGACATGAAATTAAGAG
TGAACCTTCTTATGGGAGGCTGCAGCTGGATCAGAGGAAAAATCCAGTGACAGAGTGCAAGTCAGAAGACCTGG
CTTTTCATCCCAGCTTTGAAACTTGGAACTTTTTGATTGACAAATTAATAAACCTCTCTATGCCTCAGGC

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FIGURE 3607

MPQAFLLGSIHEPAGALMEPQPCPGSLAESFLEEELRLNAELSQLQFSEPVGIIYNPVEYAWEPHRNYVTRYCQG
PKEVLFLGMNPGPFGMAQTGVPFGEVSMVRDWLGIVGPVLTTPQEHPKRPVLGLECPQSEVSGARFWGFFRNLCG
QPEVFFHHCFVHNLCPLLFLAPSGRNLTPAELPAKQREQLLGICDAALCRQVQLLGVRLLVVGVRRLAEQRARRAL
AGLMPEVQVEGLLHPSPRNPQANKGWEAVAKERLNELGLLPLLLK

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FIGURE 3608

TGACCCTAACAGTCGATTCAAGGCCAAGTGGTCAGTTTGTTCAGCCTTTTTTAAGGGATTCTTTTTATTTTTAGG
AATTCCAAACAGAGTTAACCTAAACTGTCATTGCCAAAAGATCAGTCTTAAACTTTCTTAGCACCTGTACCTGTT
TAATGTGATCAGCTATCAGTGAGGAAAAAAAAAAAAATCTATTTAGGTCTTGGAATGGTTCTGTACCTAGAGTA
TCCATATTGAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGATGGAACTTGCTCTTTTGCCAGGCTGGAG
TGCAGTGGCGTGATCTTGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGCAGTTCTCTGCCTCAGCCTCCTGAG
CAGCTGGGATTATAGGCGCCTGCCACCATGCCCGGCTAATTTTTGTATTTTAGTAGAGACAGGGTTCACCATCT
TGGCCGTGCTGGTCTTGAACCTCTGACCTTGTGATCCGCCTGCCTCGGCCACTCAAAGTGCTGGGATTGCAGGCG
TGAGCCAGCACCCGGCCACAGTATCTTTATTACAGCTCACTGCAGCCTCAATCTCCTGGGCTCAAATGATCCTCC
TGCCTCAGCCTCCCAAGCAGCTGGGACTACAGGCGCACACCACGGTGTCTGGCTAATTTTATTATTTAAAAAATG
TTTTGTAGAGACAGTCTCCCTGTGTTGCCAGGCTGGTCTCCAACCTCGTGAGCTCAAGTGATCCACGTGCCTCAG
CCTCCCAAAGTGCTGGGATTACAAGCATAAGCCACCGCACCCGGCCCCCTAGTGAACATTTTACTGTATGTGTTGA
TAAATCATCTTTTGTAGTTTCTGTTGTATGTGGGGACTTCTACACTGGCTGCTGTGAAGAGGTATGGAAGAAAGG
AGAGGCTTTCTGCCTAGAAATTCTTTGAGAACACCTGAAAAGACAGTTTAATCATGTCACAACACTCTTAAGGCT
CAAGTCAGTGTTCTGGTTTCCGGTAGCTTTAGGATTGGATTCTAAACGAGGGCTGGTGGTGAGTTTGGTGTGTTGT
CTCGTGTACCCCTCACCCCTCACCTCCTCAGTTTAGGATAAGAGACATAATGATTTCTACCAGAATCCAAAGTAA
ATCCAAAGGGGGAGAAAAGACATAACTGTTTTTCTTCTACCTTTTTTTTGTAAAGAGTTACATCTCTCACAGG
AGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTTTCATCCCCCTCTCCCTGAATAGAAAAGCAGG
GGTCACCATTGTATCCTTACCCTTGAGGTGTTTTTGAAGATGCTGTAACCTCTTGAAGTTGAGCTGAGGCAGAAA
GGTTGGA AAAATGCAGCCCTCTGGGTATTGTGGGGAGGGATGTGATGTAGTAAGAGGGTGTTTTGTGGTGCTAGG
ATTCCCACGCCACCAACTTGCAGCTTTATAAGAGCGCTACCAAGAACCACCTGGGGAAAAGGTTCTTATTCAI
TGTTTCTGTTGGAATGTGATCTTGCTTTCTGGATTTTAGGAATTCAGGTTACTCAGTATAAACTCTGAGAAATC
AGTGTGACTTAGTCCTTACCTCCTAAGATAAAGTGAATATTTCTTTACAAAATAATTCATGTCCTTAATGTTAA
AGATGTAATTTTATTTTCAAAACATCTATAACATGACTTTTCAAGAGCAGTTTCAATTTTCCAAGATTCTCACATT
ATACTAGATAAATAATAGGCCCTCAGTTAATACCCTTCAGTTATTGAATTAATCTAGTTTGTGGAATGAGGTGTA
TCCTGCCAACTTCCCTCTGCTCCCAAGTACACTCTGAGAGGTAAAATGCTCTGGGAAATGGAACAAGAATCGAGT
GGATGCTGACTCTGTGTGCCACCTCCTCAACTGATTGATAATGGTTGACCTTGGGCAAGTCACTTCTTTCAATG
CCTCAGTTCCCATCTGTCAAAATGGGGTTAATAAATACTGACCTACCTCACAGGGGTGTTGTTGTGAGGCATTGTA
AATCAAAGTTAATAGAATACTTCAGGGTCTCTGTGGAGGATGTCTTGAGCCAGAGTTTAAGCCTGACACACAGG
CTTTGGTCTCACTGAGCTGTCTCCAAGACTGGAACCTACTTAGTGACTCGGCAAAATTTCTGCCCCCACCCTC
ATCAAAGCTGCTAGTTTCAAGATGTTGACAGTGTCTTTCATGAATGTTGGAATCTTACTAGTCCAGACTTACTTAGGA
TGTGTTGGGGAAGGCACTTGGGATTTTCTGTGTCTTGCATTACAGAGGGAGGCCATTTCAGATTCAAGAGCAT
TGGATTAGGGAATCGTGAGGCAGGGATGCTACTGCGTATTTCTCTCTGCAGGTGGGGATTAAAGTTCTTTTCCC
CATGGGTTTGAAGCAGACTCAGACTGTCTCAGGATCAAAGCAACCCTCAATGGTTTTGATTTATGTCATTGCTTA
CCACTCCCCAACCAATCCCAGGACAGCTGGGTCACTGTACCCCTTTGTGGTATCTGTACCTGGGCCTCTCCTTCC
TCATAGGGACCAGCTGATTGAATAAATGTGACCACCTTATTTCCACCCCCCACCCTCAAAAGCTACATTGGAATT
ATTTTTCCTAGAAATGTGTATAACACTCAGAATTGGGCATTGATCCTTAAAGCTTCATCCCATTACCGTATTCA
ACATCTGTCATCTCTTAGTGTCTGCAGTCTGAACCTAACCTTGACCTTTTTTCCCTCTGGTTTGAGAAAACCTTG
GACACTATTTCTACTTGGCCAGGTGTGGGCTCAAGAGCCTTACTCTTTCCATCTCAGTTTAGGGGCGCAGCCAGC
TCCTCTTCCCAATAGGGCTCTTTCTGCTTTCCCTCTCCTTGGCCCTAGATTTGTAATCCATGAAAAAGCACAAGG
TCCTGGCTCCTTGCGGTACATTCTGGTTCTCTGTGTTTTGTGGACTCTGCTCTCACTGTTACCCAGCACTAGC
AGTACCAGATGGTCTGTGGAGTCTGGGGAATGGAGAGAGCACAGTCTGACTCCCTGCCAAGTAGCCAGGAGTT
GACTTGCCCATGGTCCGCTGGCTTTCCCACTTCCCTACAGGATGGGATCTAAGAGACTCAAGAGCTGGGTTTC
TTTCAGCACTCTGTACTGTCCCAAATAGCAAACAAATCATTGTTAGCCAGATTTCTGAATGGAAATGAGAAATT
GAATTCTCCATGGACTTTTAGGTTTATGGGGGAGTTTAGCTGTGTTTCTTGGTTTTATTTACGCCAAACATGTC
TGCTTTTGTATTTTTTTTTTAAAGTATAAGTGGTCTATATATATGTTTACCTTTTAAATGTAAATGTTTAAAAAGT
AAGCATTTATGTGTTTCCATAACTGACATCTGATGCAGACCTCATTCTCTCCCCCTCTTCTACCTCCTCTTTTC
CCCCTTTTCATACTCTTGTATTGGTTCTAATAAATGTTGCTTTTC

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FIGURE 3609

MVDLGQVTSFNASVPHLSNGVNNTDLPHRGVVVRHCKSKLIEYFRVLCGGCLEPEFKPDTQALVLTELSPELLELL
SDSANFLPPTPHQSC

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FIGURE 3610

GGAAGAGCCGAGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTAAAGGAGGACACACCTAA
ACATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCA
ATCCTGCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATG
GCAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGG
GTCCCTACCTCCTCCATACCCACCGCCTGCCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTG
GACCAGCAGTGATAGTAGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCAAA
AGCACCACAAGTACCACAAGCATGGCAAGCATTCCTCCTCTTCCTCCTCCTCTTCCAGCAGTGATTCTGACTTGAA
TACAGGCCCTGGACCTTCCCTCAAGTCTCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCATGTTGTACTG
GGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCT
AGGGGAAATGGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGTTAGATCATATAGCTAATGAATT
AGGCAGGGGAGCTATTTTTTGAAGATGATGAACCTAAATGTTGAAGACAAGTTTGAGATCTGTAAATGTGATTTT
TTACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTATCTTTTTTG
TAATGTTGGCATACTTGGGGAAATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGTTGCACTAACTGCA
AGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTGGAACCTTACCTCTCCTCCTTAG
CCCAATATGCTGTCTTGGGTCTATTCAAATAAAGTTATTTCTCCTGGTCTCAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 3611

MWNPAGQPGPNPYFPNIGCPGGSNPAHPPPINPPFFPGFCPPPPGAPHGNPAFPPGGPPHPVPQPGYFGCQPLG
PYPPPYPPPAPGIPFVNPLAPGMVGPAVIVDKKMQKKMKKAHKKMHKHQKHHKYHKGKHSSSSSSSSSSSDSD

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FIGURE 3612

GAGAGGGCGAAGGTAGGCTGGCAGATACGTTTCGTCAGCTTGCTCCTTTCTGCCCCTGGACGCCGCCGAAGAAGCA
TCGTTAAAGTCTCTCTTCACCCCTGCCGTC**ATG**CTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGC
TCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCA
CGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCTAGGGGCTTTGGGTTTGTACATATGCCACTGTGG
AGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCT
CCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACA
CTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAG
GCAGTGGCAAGAAAAGGGGCTTTGCTTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTGAGA
AATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCAT
CCAGCCAAAGAGGTGCAAGTGTTCTGGAAACTTTGGTGGTGGTTCGTGGAGGTGGTTTCGGTGGGAATGACAACT
TCGGTTCGTGGAGGAACTTCAGTGGTTCGTGGTGGCTTTGGTGGCAGCCGTGGTGGTGGTGGATATGGTGGCAGTG
GGGATGGCTATAATGGATTTGGCAATGATGGTGGTTATGGAGGAGGCGGCCCTGGTTACTCTGGAGGAAGCAGAG
GCTATGGAAGTGGTGGACAGGGTTATGGAAACCAGGGCAGTGGCTATGGCGGGAGTGGCAGCTATGACAGCTATA
ACAACGGAGGCGGAGGCGGCTTTGGCGGTGGTAGTGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTG
GGAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCT
ATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCT
ATGGCAGTGGCAGAAGATTT**TAA**TTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGC
TACAGGTTACAACAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGT
TTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTT
TAGTTTCTGTTCTGTGGAAAGTGTAAGCATTTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTTTTGCACCCCAT
GCTGTTGATTGCTAAATGTAACAGTCTGATCGTGACGCTGAATAAATGTCTTTTTTTTAAATGTGCTGTGTAAAGT
TAGTCTACTCTTAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGT
TCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTGTCTTCGGAAACCTTGGTGTAGTTGAACTG
ATAGTTACTGTTGTGACCTGAAGTTCACCATTAAAAGGGATTACCCAAGCAAAATCATGGAATGGTTATAAAAGT
GATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTACCAGATAAAATTATAGATGGGAATGAAGC
TTGTGTATCCATTATCATGTGTAATCAATAAACGATTTAATTCTCTTGAA

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FIGURE 3613

MSKSESPKEPEQLRKLFIGGLSFETTTDESLRSHFEQWGTLTDCVVMRDPNTRSRGFGFVITYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSRGGGGYGGSGDGYNGFGNDGGYGGGGPGYSGGSRGYGSGGQGYGNQGSYGGSGSYDSYNNGGGGGFGG
GSGSNFGGGGSYNDFGNYNNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPRNQGGYGGSSSSSSSYGSGRRF

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FIGURE 3614

GCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGTGCCCAAAGCAA**ATG**CTGGCCGCCAACCAGGC
AAGACCCCGATCAGCCTTCTGCAGGAGTATGGGACCAGAA**T**AGGGGAAGACGCCTGTGTACGACCTTCTCAAAGCC
GAGGGCCAAGCCCACCAGCCTAATTTACCTTCCGGGTACCGTTGGCGACACCAGCTGCACTGGTCAGGGCCCC
AGCAAGAAGGCAGCCAAGCACAAAGGCAGCTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCG
GCCCTGGAGGACAGCAGTTCTTTTTCTCCCCTAGACTCTTCACTGCCTGAGGACATTCCGGTTTTTACTGCTGCA
GCAGCTGCTACCCCAGTTCCATCTGTAGTCCTAACCAGGAGCCCCCATGGAAGTGCAGCCCCCTGTCTCCCCT
CAGCAGTCTGAGTGCAACCCCGTTGGTGCTCTGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTAC
ACAGTGACCCAGGAGTCTGGGCCAGCCACCACGAAAGAATTCACCATGACCTGTGAGTGGAGCGTTTCATTGAG
ATTGGGAGTGGCACTTCCAAAAAATTGGCAAAGCGGAATGCGGCGGCCAAAATGCTGCTTCGAGTGCACACGGTG
CCTCTGGATGCCCCGGGATGGCAATGAGGTGGAGCCTGATGATGACCACTTCTCCATTGGTGTGGGCTCCCGCCTG
GATGGTCTTCGAAACCGGGGCCAGGTTGCACCTGGGATTCTCTACGAAATTCAGTAGGAGAGAAGATCCTGTCC
CTCCGCAGTTGCTCCCTGGGCTCCCTGGGTGCCCTGGGCCCTGCCTGCTGCCGTGTCCTCAGTGAGCTCTCTGAG
GAGCAGGCCTTTCACGTCAGCTACCTGGATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGTGCCTGGTGGAA
CTGTCCACCCAGCCGGCCACTGTGTGTCATGGCTCTGCAACCACCAGGGAGGCAGCCCGTGGTGAGGCTGCCCGC
CGTGCCCTGCAGTACCTCAAGATCATGGCAGGCAGCAAG**TGA**AGCCCCAGCTGGACTCATGGATGTGCACCCTTT
GCTCCCTGCTCTTTCTGCCTCTGGGCTCATGTATCTGCGCAGCTCTGGTACCCTCTGTGGGTGCCATCTCTACCT
CTGACACAGACTGCCTGCCTTGAAGCTGAGAAGGCACAGGGCAAGGAGCCAAGGACCACAGAGCCTCAGCCAGCC
CAGGATCCGTCCTCATTTTATTGGTGATGATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCCTGGAATA
AATATGCTGCTTTGTGGATTTTAA

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FIGURE 3615

MLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSC TGQGPSKKA AKHKA AEVALKHLK
GGSMLEPALEDSSSFSPLDSSLPEDIPVFTAAAAATPVPSVVLTRSPPMELQPPVSPQQSECNPVGALQELVVQK
GWRLPEYTVTQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAAKMLLRVHTVPLDARDGNEVEPDDDHFS
IGVGSRLDGLRNRGPGCTWDSL RNSVGEKILSLRSCSLGSLGALGPACCRVLSELSEEQAFHVS YLDIEELSLSG
LCQCLVELSTQPATVCHGSATTREAAERGEAARRALQYLKIMAGSK

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FIGURE 3616

GCCTCTCCAGCTGCGACACAGATGGCGCGCGGGCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGT
GCCCAAGTGAGTCCTTACCGCCTCCCTACCCAGCGGCTTCCCCCTCCGCTAGTACGCATGTCCACAGCTTCACGGA
CCGGGAGAGAGGGGGCGCGGAAGGAAGGAGGCGGGACGGTATTACAAACAAAAAATACGGCCTTCTCGAGAAGC
GACGGCGGAGGGCCCCGCTCCTCCCAGAAGGCGGTGCAGCCTGCCCCGGGCGAGCCACGCACGCAGAGGGTTGTGGG
GCGGATAGCTCCCCCTCCAGATGGAGGCTCACGAAGTAGGGTGGGCGGGGGGACTCCATATCCCAGCGTGCCCCGCG
GCGGGCCCTACCGGCCGCGACTCCGGGCTTGCCCCGGCCCTAGCTCGTCCGGCTGTGTATTGGGGCGCGTGGAGG
CTGCAGTCACGGTGGCGCCCCGCGGGGACGGAGGAGGGAATGAGTGAAGAGGAGCAAGGCTCCGGCACTACCACGG
GCTGCGGGCTGCCTAGTATAGAGCAAATGCTGGCCGCCAACCCAGGCAAGACCCCCGATCAGCCTTCTGCAGGAGT
ATGGGACCAGAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAGCCCACCAGCCTAATTTCA
CCTTCCGGGTACCGTTGGCGACACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAAGGCAG
CTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCGGCCCTGGAGGACAGCAGTTCTTTTTCTC
CCCTAGACTCTTCACTGCCTGAGGACATTCCGGTTTTTACTGCTGCAGCAGCTGCTACCCAGTTCCATCTGTAG
TCCTAACCAGGAGCCCCCCCCATGGAAGTGCAGCCCCCTGTCTCCCCTCAGCAGTCTGAGTGCAACCCCGTTGGTG
CTCTGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTGGGCCAGCCC
ACCGCAAAGAATTACCATGACCTGTGAGTGGAGCGTTTCATTGAGATTGGGAGTGGCACTTCCAAAAAATTGG
CAAAGCGGAATGCGGCGGCCAAAATGCTGCTTCGAGTGCACACGGTGCCTCTGGATGCCCGGGATGGCAATGAGG
TGGAGCCTGATGATGACCACTTCTCCATTGGTGTGGGCTCCCGCCTGGATGGTCTTCGAAACCGGGGCCAGGTT
GCACCTGGGATTCTCTACGAAATTCACTAGGAGAGAAGATCCTGTCCCTCCGCAGTTGCTCCCTGGGCTCCCTGG
GTGCCCTGGGCCCTGCCTGCTGCCGTGTCCTCAGTGAGCTCTCTGAGGAGCAGGCCTTTCACGTACGTACCTGG
ATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGTGCCTGGTGGAACTGTCCACCCAGCCGGCCACTGTGTGTC
ATGGCTCTGCAACCACCAGGGAGGCAGCCCGTGGTGGGCTGCCCGCCGTGCCCTGCAGTACCTCAAGATCATGG
CAGGCAGCAAGTGAAGCCCCAGCTGGACTCATGGATGTGCACCCTTTGCTCCCTGCTCTTTCTGCCTCTGGGCTC
ATGTATCTGCGCAGCTCTGGTACCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCTTGAAGCTG
AGAAGGCACAGGGCAAGGAGCCAAGGACCACAGAGCCTCAGCCAGCCAGGATCCGTCCCTCATTTTTATTGGTGAT
GATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCCTGGAATAAATATGCTGCTTTGTGGATTTTTAAAAA
AAAAAAAAAAAAA

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FIGURE 3617

MSEEEQSGSTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSCGTG
QGPKKAAKHKAAEVALKHLKGGSMLEPALEDSSSFSPLDSSLPEDIPVFTAAAAATPVPSVVLTRSPPMELQPP
VSPQQSECNPVGALQELVVQGWRLPEYTVTQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAAKMLLRV
HTVPLDARDGNEVEPDDDHFSIGVGSRLDGLRNRGPGCTWDSLNRNSVGEKILSLRSCSLGSLGALGPACCRVLSE
LSEEQAFHVSYLDIEELSLSGLCQCLVELSTQPATVCHGSATTREAAARGEAAARRALQYLKIMAGSK

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FIGURE 3618

GCCTCTCCAGCTGCGACACAGATGGCGCGCGGGCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGT
GCCCAAGTGAGTCCTTACCGCCTCCCTACCCAGCGGCTTCCCCTCCGCTAGTACGCATGTCCACAGCTTCACGGA
CCGGGAGAGAGGGGGCGCGGAAGGAAGGAGGCGGGACGGTATTACAAACAAAAAATACGGCCTTCTCGAGAAGC
GACGGCGGAGGGCCCGCTCCTCCCAGAAGGCGGTGCAGCCTGCCCCGGGCGAGCCACGCACGCAGAGGGTTGTGGG
GCGGATAGCTCCCCTCCAGATGGAGGCTCACGAAGTAGGGTGGGCGGGGGACTCCATATCCCAGCGTGCCCCGCG
GCGGGCCCTACCGGCCGCGACTCCGGGCTTGGCCCCGGCCCTAGCTCGTCCGGCTGTGTATTGGGGCGCGTGGAGG
CTGCAGTCACGGTGGCGCCCCGCGGGGACGGAGGAGGGA**ATG**AGTGAAGAGGAGCAAGGCTCCGGCACTACCACGG
GCTGCGGGCTGCCTAGTATAGAGCAAATGCTGGCCGCCAACCCAGGCAAGACCCCCGATCAGCCTTCTGCAGGAGT
ATGGGACCAGAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAGCCCACCAGCCTAATTTCA
CCTTCCGGGTACCGTTGGCGACACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAAGGCAG
CTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCGGCCCTGGAGGACAGCAGACTCTTCACTG
CCT**TGA**GGACATTCCGGTTTTTACTGCTGCAGCAGCTGCTACCCAGTTCCATCTGTAGTCCCTAACAGGAGCCCC
CCCATGGAAGTGCAGCCCCCTGTCTCCCTCAGCAGTCTGAGTGCAACCCCGTTGGTGCTCTGCAGGAGCTGGTG
GTGCAGAAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTGGGCCAGCCACCGCAAAGAATTACCC
ATGACCTGTGAGTGGAGCGTTTCATTGAGATTGGGAGTGGCACTTCCAAAAAATTGGCAAAGCGGAATGCGGCG
GCCAAAATGCTGCTTCGAGTGACACGGTGCCTCTGGATGCCCGGGATGGCAATGAGGTGGAGCCTGATGATGAC
CACTTCTCCATTGGTGTGGGCTCCCGCCTGGATGGTCTTCGAAACCGGGGCCAGGTTGCACCTGGGATTCTCTA
CGAAATTCAGTAGGAGAGAAGATCCTGTCCCTCCGCAGTTGCTCCCTGGGCTCCCTGGGTGCCCTGGGCCCTGCC
TGCTGCCGTGTCTCAGTGAGCTCTCTGAGGAGCAGGCCTTTCACGTCAGCTACCTGGATATTGAGGAGCTGAGC
CTGAGTGGACTCTGCCAGTGCCCTGGTGGAACTGTCCACCCAGCCGGCCACTGTGTGTCATGGCTCTGCAACCACC
AGGGAGGCAGCCCGTGGTGAGGCTGCCCCCGGTGCCCTGCAGTACCTCAAGATCATGGCAGGCAGCAAGTGAAGC
CCCAGCTGGACTCATGGATGTGCACCCTTTGCTCCCTGCTCTTTCTGCCTCTGGGCTCATGTATCTGCGCAGCTC
TGGTACCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCTTGAAGCTGAGAAGGCACAGGGCAAG
GAGCCAAGGACCACAGAGCCTCAGCCAGCCCAGGATCCGTCCTCATTTTATTGGTGATGATGAATGGGAATGAAA
TCAGGGGGCTGTCTACTAGAGCCTGGAATAAATATGCTGCTTTGTGGATTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 3619

MSEEEQGS GTTTCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSC TG
QGPSKKA AKHKAAEVALKHLKGGSMLLEPALEDSRLFTA

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FIGURE 3620

CTCGCGCCTGCAGTTTTTGGCTTTTACCCCCAACCCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG
AACACTGCTCGAC**ATGG**ACACCGGTGTGATTGAAGGTGGATTAAATGTCACTCTCACCATCCGGCTACTTATGCA
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACG
TATCAACATCTCAGAAGGGAATTGTCCTGAGAGAATTATCACTTTGGCTGGACCCACTAATGCCATCTTCAAAGC
CTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGCACAGCTGCCAGTAGACC
CCCGGTACCCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAA
GGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGCCAT
CACTATTGCTGGCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCGTGGTCATGTTGGAGACTCTCTC
CCAGTCCCCCCCCGAAGGGCGTGACCATCCCGTACCGGCCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAGGTGG
TCAGGACAGGTACAGCACAGGCAGCGACAGTGCGAGCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCTGA
CCTGGAGGGACCACCTCTAGAGGCCTATACCATTC AAGGACAGTATGCCATTCCACAGCCAGATTTGACCAAGCT
GCACCAGTTGGCAATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGGATTTCAGTGGCATTGAATCCAG
CTCTCCAGAGGTGAAAGGCTATTGGGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCATGAACTCACCATTCC
AAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGCA
GATCAAAATTGCGAACCCAGTGGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAG
CCTGGCTCAATATCTAATCAATGTCAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCT**TAGA**ACAATGCAGA
TTCATCCATAATCCCTTTCTGCTGTTACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAGCGATT
CAGGTTTTAAATAGTTTGTAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTAATTAAAGCGT
TTTAATTCCTTT

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FIGURE 3621

MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMI
IDKLEEDISSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPNSTERAITAG
IPQSIIECVKQICVVMLETLSQSPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSASFHTTPSMCLNPDLEGP
PLEAYTIQGQYAIPQPD LTKLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQTTSHELTIPNDLI
GCIIGRQGAKINEIRQMSGAIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

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FIGURE 3622

CTCGCGCCTGCAGTTTTTGGCTTTTACCCCCAACCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG
AACACTGCTCGACATGGGACACCGGTGTGATTGAAGGTGGATTAAATGTCACCTCTCACCATCCGGCTACTTATGCA
TGGAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACG
TATCAACATCTCAGAAGGGAATTGTCCTGAGAGAATTATCACTTTGGCTGGACCCACTAATGCCATCTTCAAAGC
CITTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGCACAGCTGCCAGTAGACC
CCCGGTCACCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAA
GGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGGCCAT
CACTATTGCTGGCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCGTGGTTCATGTTGGAGTCCCCCCC
GAAGGGCGTGACCATCCCGTACCGGCCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAGGTGGTTCAGGACAGGTA
CAGCACAGGCAGCGACAGTGCGAGCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCTGACCTGGAGGGACC
ACCTCTAGAGGCCTATACCATTTCAAGGACAGTATGCCATTCCACAGCCAGATTTGACCAAGCTGCACCAGTTGGC
AATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGGATTTCAGTGGCATTGAATCCAGCTCTCCAGAGGT
GAAAGGCTATTGGGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCATGAACTCACCATTCCAAACGATTTGAT
TGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGCAGATCAAAATTGC
GAACCCAGTGGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAATA
TCTAATCAATGTCAGGCTTTCCCTCGGAGACGGGTGGCATGGGGAGCAGCTTAGAACAATGCAGATTCATCCATAAT
CCCTTTCTGCTGTTCAACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAGCGATTCCAGGTTTTAAAT
AGTTTGTAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTAATTAAAGCGTTTTAATTCCTTT

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FIGURE 3623

MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMI
IDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPNSTERAITIAG
IPQSIIECVKQICVVMLESPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSASFPHTTPSMCLNPDLEGPPLEA
YTIQGQYAIPOPDLT KLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQTTSHELTIPNDLIGCII
GRQGAKINEIROMSGAIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

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FIGURE 3624

AGAGCGACGCGGAACCCCGGGCGCCTGGGTCCCCAGCATGATCCTCGGCAGCCTGAGCCGGGCAGGGCCCCCTGCC
TCTGCTACGGCAGCCCCCGATCATGCAGCCCCCACTGGACCTCAAGCAGATCCTGCCCTTCCCACTCGAGCCAGC
CCCTACCCTTGGCCTCTTCAGCAACTACAGCACCATTGGACCCCTGTGCAGAAGGCTGTGCTCTCCACACTTTTGG
GGGACCCTTGCTCAAGACCAAGCGGCCCGTCATTTCTGTAAATATCTGTCAAATCCGCTTCAATTCTCAGAGCCA
GGCTGAGGCGCACTACAAAGGTAATCGCCACGCCCCGACGAGTCAAAGGCATTGAGGCTGCCAAGACCAGAGGCAG
GGAGCCTGGCGTCCGAGAACCTGGAGACCCAGCTCCCCCAGGCAGCACCCCAACAAATGGGGATGGTGTAGCACC
CCGTCCAGTTTCCATGGAGAATGGACTGGGGCCAGCCCCAGGATCCCCAGAGAAACAGCCTGGCTCCCCATCCCC
TCCCAGCATTCCGGAGACTGGTCAGGGTGTAAACCAAGGGTGAAGGGGGGACTCCAGCCCCGGCTTCCCTTGCCCTGG
GGGTAGCAAGGAAGAGGAGGAGAAAGCCAAGCGGCTGCTCTACTGTGCTCTGTGCAAGGTGGCTGTGAACTCCCT
GTCCCAGCTTGAGGCACATAACAAAGGTACTAAGCACAAGACAATTCTGGAGGCCCGAAGTGGGCTCGGGCCCAT
CAAAGCTTACCCTCGGCTGGGGCCTCCACCCCGGGGGAACCAAGAGGCTCCTGCCAGGACCGAACTTTCCACTG
TGAGATCTGCAATGTCAAGGTCAACTCGGAGGTCCAAGTGAACAGCACATCTCCAGCCGGCGGCACCGAGACGG
CGTGGCCGGGAAGCCCAACCCACTACTGAGCCGTCAACAAGAAGTCTAGGGGCGCCGGGGAGCTGGCGGGCAGCT
GACTTTCTCCAAGGAGCTGCCCAAGTCCCTGGCGGGCGGCTGCTCCCCAGCCCCCTGGCGGTGGCTGCAGTGAT
GGCAGCGGCAGCAGGCTCGCCGCTGTCCCTGCGCCCGGCTCCAGCCGCACCTCTTCTCCAGGGACCGCCGATCAC
TCACCCTCTGCTTCACCCGGCCCCCGGACCCATCCGAAGTGCACAGGACCCATCCTCTTCTCCCGTACTGACC
TCAACCCTGAACCCCTCCCATTTCAACTCCCCACCTCCAGCCGGGACCCAGGCGTCCGGGCTCCAGCCCGCCCCCT
CCTCCCGGCACTCCCTAAATGATCTCTCCTTCCCCCCCCCACCCTGAGATACGGGGTTCCAGGAAAGGGGAGGG
GTAGCGGGGAGGGGGGCTTCAGAAGGGGGGGAACACCCAGATCTCAGGGAACCCCGCCCCCTGCCTTTCCCTC
TCCCCTAGAAAAGGGGGGGCCGTCTCACCCCGAGCCCCCTTGAGACACCCCCCTCCCAAAAGCCATGTCCAT
CCAGCCCTTCCCCCAAACCTAGCACAAAACGGGGTTACAAGCCATGGTCGGGGTCCGGGGGGGACAGAAATGG
ATTTTCTTGGAATAAGCGGACTCTGGGACTCCGGCTCCCTACCCCAAAGTGAAGCGCTTCCGTGAACACCCCG
TCCTCCGTAGGGGGAGGGGAGCAGGCGGGATCCTGGGTCCCTCATAAGCACTTTGGTTTTACCGCTGCAACCTC
ACTGTGCCCCCGCCCGCACCATGCCCTAGCCCCAGGTCTAGCCGGGCCCATTGCAGGGGGCAGCACTTGGGGGCAT
CTCCGGCACTTGGGTGGGACCAAGGAGATGCCACCATAGACCTTTCCCTCGCCTTCTTCCCTCCCTAGTCCGGGTT
CCATTCTTTTACCAGCACCCATCGCCCAAGGGGTACCGAGGGGGGCAAGGGGTGTCCAGTCCAAGCCACCCCC
GCCTCGCCTTCCGCAAACTGTGAGCAAAAAGCAATAGAAGCCTCGCCCCCGCCCTTCCCTTTCGAGGATTTCGC
CGAGTCTGTAGCCTCCCCGATCCAAGTTCCTAGACCTCATGGCTGTCCCCTCCCACCAGTCACCTCCACTGCACA
ACTCGGGCGGGGGTGTGACACCTCTCCCCCACCCTCGACTCCGTGGTTTTCCGTATCGTCAACCCTTCAGCCGCCG
ACCCGGGAGGGGTCTGGCCTACACTGGTCTTCCCCTTCCCATCAACTCTTTCTGCTTGACAATGTAGCAACCCAG
GCCCCCACCCACGGTCCTCCCCTTTTTCTCTCCCTGACAATAAAGTCTGAATTTGTTCTGCCCTCC

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FIGURE 3625

MQPPLDLKQILPFPLEPAPTLGLFSNYSTMDPVQKAVLSHTFGGPLLKTKRPVISCNICQIRFNSQSQAFAHYKG
NRHARRVKGIEAAKTRGREPGVREPGDPAPPGSTPTNGDGVAPRPVSMENGLGPAPGSPEKQPGSPSPPSIPETG
QGVTKGEGGTPAPASLPGGSKEEEEKAKRLLYCALCKVAVNSLSQLEAHNKGTKHKTILEARSGLGPIKAYPRLG
PPTPGEPEAPAQDRTFHCEICNVKVNSEVQLKQHISSRRHRDGVAGKPNPLLSRHKKSRGAGELAGTLTFSKELP
KSLAGLLPSPLAVAAVMAAAAGSPLSLRPAPAAPLLQGPPITHPLLHPAPGP IRTAHGPILFSY

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FIGURE 3626

AGTTACACCAATGGACCTGCCTACTGCAGCGTAGGCCTCGCCTCAACGGCAGGAGAGCAGGCGGCTGCGGTTGCT
GCAGCCTTCAGTCTCCACCCGGACTACGCCATGTTGGGGTTTGTGGGTCGGGTGGCCGCTGCTCCGGCCTCCGGG
GCCTTGCGGAGACTCACCCCTTCAGCGTCGCTGCCCCAGCTCAGCTCTTACTGCGGGCCGCTCCGACGGCGGTC
CATCCTGTCAGGGACTATGCGGCGCAAACATCTCCTTCGCCAAAAGCAGGCGCCGCCACCGGGCGCATCGTGCGG
GTCATTGGCGCAGTGGTGGACGTCCAGTTTGATGAGGGACTACCACCAATTCTAAATGCCCTGGAAGTGCAAGGC
AGGGAGACCAGACTGGTTTTGGAGGTGGCCAGCATTGTTGGGTGAGAGCACAGTAAGGACTATTGCTATGGATGGT
ACAGAAGGCTTGGTTAGAGGCCAGAAAGTACTGGATTCTGGTGACCAATCAAAATTCCTGTTGGTCCCTGAGACT
TTGGGCAGAATCATGAATGTCATTGGAGAACCTATTGATGAAAAGAGGTCCCATCAAAACCAAACAGTAAATTTGC
TCCCATTATGCTGAGGCTCCAGAGTTCATGGAAATGAGTGTGAGCAGGAAATTCCTGGTGACTGGTATCAAGGT
TGTCGATCTGCTAGCTCCCTATGCCAAGGGTGGCAAAATTGGGCTTTTTGGTGGTGCTGGAGTTGGCAAGACTGT
ACTGATCATGGAGTTAATCAACAATGTCGCCAAAGCCCATGGTGGTTACTCTGTGTTTGCTGGTGTGGTGAGAG
GACCCGTGAAGGCAATGATTTATACCATGAAATGATTGAATCTGGTGTTATCAACTTAAAAGATGCCACCTCTAA
GGTAGCGCTGGTATATGGTCAAATGAATGAACCACCTGGTGCTCGTGCCCGGGTAGCTCTGACTGGGCTGACTGT
GGCTGAATACTTCAGAGACCAAGAAGGTCAAGATGTACTGCTATTTATTGATAACATCTTTCGCTTCACCCAGGC
TGGTTCAGAGGTGTCTGCATTATTGGGCCGAATCCCTTCTGCTGTGGGCTATCAGCCTACCCTGGCCACTGACAT
GGGTACTATGCAGGAAAGAATTACCACTACCAAGAAGGGATCTATCACCTCTGTACAGG

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FIGURE 3627

MYCYLLITSFASPRLVQRCLHYWAESLLLWAISLPWPLTWVLCRKELPLPRRDLSPLYRLSMCLLMT

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FIGURE 3628

CTTGGTTCCGCGTTCCCTGCACAAAATGCCCGGCGAAGCCACAGAAACCGTCCCTGCTACAGAGCAGGAGTTGCC
GCAGCCCCAGGCTGAGACAGGGTCTGGAACAGAATCTGACAGTGATGAATCAGTACCAGAGCTTGAAGAACAGGA
TTCCACCCAGGCAACCACACAACAAGCCCAGCTGGCGGCAGCAGCTGAAATTGATGAAGAACCAGTCAGTAAAGC
AAAACAGAGTCGGAGTGAAGAAGGCACGGAAGGCTATGTCCAAACTGGGTCTTCGGCAGGTTACAGGAGTTAC
TAGAGTCACTATCCGGAAATCTAAGAATATACTCTTTGTTCATCACAAAACCAGATGTCTACAAGAGCCCTGCTTC
AGATACTTACATAGTTTTTGGGGAAGCCAAGATCGAAGATTTATCCCAGCAAGCACAACTAGCAGCTGCTGAGAA
ATTCAAAGTTCAAGGTGAAGCTGTCTCAAACATTCAAGAAAACACACAGACTCCAAGTGTACAAGAGGAGAGTGA
AGAGGAAGAGGTCGATGAAACAGGTGTAGAAGTTAAGGACATTGAATTGGTCATGTCACAAGCAAATGTGTCGAG
AGCAAAGGCAGTCCGAGCCCTGAAGAACAACAGTAATGATATTGTAAATGCGATTATGGAATTAACAATGTAACC
ATATGGAAGCAACTTTTTTTGGTGTCTCAAAGGAGTAACTGCAGCTTGGTTTGAAATTTGTACTGTTTCTATCAT
AAATAAAGTTATGGCTTCTTGTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3629

MPGEATETVPATEQELPQPPAETGSGTESDSDESVP ELEEQDSTQATTQQAQLAAAAEIDEEPVSKAKQSRSEKK
ARKAMSKLGLRQVTGVTRVTIRKSKNILFVITKPDVYKSPASDTYIVFGEAKIEDLSQQAQLAAAEKFKVQGEAV
SNIQENTQIPTVQEESEEEEEVDETGVEVKDIELVMSQANVSRKAVRALKNNSNDIVNAIMELTM

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FIGURE 3630

CTGAGGGGTGTACATTTTATTGGAAACCTTAAATACTGTTTCAGAAAGAATATATCTTCAATCAAGGCTCTTGTGC
AGCCTACACAGAAAAATGAAGCTTTTGGGTTAGGGGCAAGGAGAGAGACAGTACAGAGGACAAAGACCCCTCAC
GATGAATGCTCTTCAGCCAGCTTATCAGCTTTTGCCACAGCTTCTTCAATGGGTCCCACCATATAGAAGGCCTGT
TCTGGGAGATGGTCATATTCACCTGCCAAAATCTGCTGGAATCCTTTGATGGTCTCCTTCAGGGGTACCAGCTTC
CCCATATGACCTGTGAAGACCTCAGCAACCTGGAATGGCTGAGACAAGAAACGCTGTATTTCCGTGCACGGGACA
CGGTCAACTTGTCTTCCTCAGAAAGTTCATCCATACCCAGGATGGCAATGATATCTGGAAGGAATTTGTAGTCCT

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FIGURE 3631

CCTATTCTACGGCTGACCCCTGGTGGTCACGTGGATCTGTTGCCACGCAAGTCTGGGTCCTTCGGCGATTGACC
GGGGTCCTTGCTGTTTCGGGAGCCTCTCCTAAGCTGCCTGTTTCGCGGAGAGTTTGGAGGGGCGGGTTTGGGGTCG
GTGTCTGATTGGGGCTCGCACCGCAGCACGCTGGAGTCCCGCTTAGGTACCAGTTAGCGTCAGGGGAGCTGGGTC
AGGCGGTGCGCGGGACACCCCGTGTGTGGCAGGCGGCGAAGCGCTCTGGAGAAATCCCGGACAGCCCTGCTCCCTG
CAGCCAGGTGTAGTTTCGGGAGCCACTGGGGCCAAAGTGAGAGTCCAGCGGTCTTCCAGCGCTTGGGCCACGGCG
GCGGCCCTGGGAGCAGAGGTGGAGCGACCCCAATTACGCTAAAGATGAAAGGCTGGGGTTGGCTGGCCCTGCTTCT
GGGGGCCCTGCTGGGAACCGCCTGGGCTCGGAGGAGCCAGGATCTCCACTGTGGAGCATGCAGGGCTCTGGTGGA
TGAAGTAGAATGGGAAATTGCCCAGGTGGACCCCAAGAAGACCATTGAGATGGGATCTTTCCGGATCAATCCAGA
TGGCAGCCAGTCAGTGGTGGAGGTGCCTTATGCCCCTCAGAGGCCACCTCACAGAGCTGCTGGAGGAGATATG
TGACCGGATGAAGGAGTATGGGGAACAGATTGATCCTTCCACCCATCGCAAGAACTACGTACGTGTAGTGGGCCG
GAATGGAGAATCCAGTGAAGTGGACCTACAAGGCATCCGAATCGACTCAGATATTAGCGGCACCCTCAAGTTTGC
GTGTGAGAGCATTGTGGAGGAATACGAGGATGAAGTCAATTGAATTCCTTTCCCGAGAGGCTGACAATGTTAAAGA
CAAACCTTTCAGTAAGCGAACAGATCTTTGTGACCATGCCCTGCACATATCGCATGATGAGCTATTGAACCACTGG
AGCAGCCCACACTGGCTTGATGGATCACCCCCAGGAGGGGAAAATGGTGGCAATGCCTTTTATATATTATGTTTT
TACTGAAATTAAGTGAAGGAAATATGAAACC

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FIGURE 3632

MKGWGWLALLLGALLGTAWARRSQDLHCGACRALVDELEWEIAQVDPKKTIQMGsFRINPDGSQSVVEVPYARSE
AHLTELEEICDRMKEYGEQIDPSTHRKNYVRVVGNGESSELDLQGIRIDSDISGTLKFACESIVEEYEDELIE
FFSREADNVKDKLCSKRDLCDHALHISHDEL

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FIGURE 3633

GGCCTCATCATTCTGTCTCCTGTTTCTCCACTTCCTTCTCTATTGGTTGGTCCACTGATGTATGGACTTGACACA
TGATGAACTGTGAACTTCTAGCCACATGTAGTGCCCTTGGGTACTTGGAGGGAGACACTTACCATAAGGAACCAG
ATTGCTTAGAGAGCGTGAAGGATCTGATCCGCTATTTGAGGCATGAGGATGAGACACGAGATGTGCGGCAGCAGC
TGGGGGCAGCCCAGATCCTACAGAGCGACCTTCTGCCCATCCTCACCCAGCACCACCAGGACAAGCCTCTCTTTG
ATGCTGTTATCCAGACTGATGGTGAACCTTGACACAACCAGCCTTGCTCTGTTTTGGCAATCTGCCTAAGGAGCCC
AGCTTTCGGCACCATTTTTTGCAGGTGCTAACTTATTTGCAGGCCTACAAAGAGGCCTTTGCCAGTGAGAAGGCT
TTTGGAGTCCTCAGTGAAACCTTGTATGAGCTGCTGCAGCTGGGCTGGGAGGAACGGCAGGAGGAAGACAACCTG
CTGATTGAACGGATCCTACTGCTGGTCAGAAATATTCTCCATGTCCCAGCTGACCTTGATCAGGAGAAGAAGATT
GATGATGACGCCAGTGCCCATGACCAGCTCCTCTGGGCGATTACCTCAGCGGCCTGGATGACCTGCTCCTCTTT
CTGGCCAGCTCGTCTGCTGAGGAGCAATGGAGCCTACATGTGCTAGAGATTGTCTCCCTTATGTTTCGTGACCAG
AACCCCGAGCAGCTGGCGGGAGTAGGGCAGGGACGCTTAGCTCAGGAGCGGAGTGCAGATTTTGCAGAACTGGAG
GTATTGCGCCAGCGAGAGATGGCAGAAAAGAAGACTCGAGCCCTCCAGCGAGGCAACAGGCATTCTCGATTTGGG
GGCTCCTATATTGTCCAGGGGTTGAAATCCATTGGGGAGAGGGACCTCATCTTTCACAAAGGCCTTCACAACCTA
CGAAACTACAGTTCAGATTTGGGAAAGCAGCCGAAAAAGGTGCCTAAACGTCGCCAGGCCGCCCGAGAGCTGTCC
ATTACAGCGCCGTTCTGCCCTCAATGTGAGGCTCTTCCTCAGAGACTTCTGCTCTGAGTTCCTGGAGAAGCTGTTAC
AACCGGCTCATGGGATCAGTAAAGGATCACCTGCTTCGGGAGAAAGCTCAGCAGCATGATGAGACCTATTATATG
TGGGCCTTGGCTTTCTTCATGGCCTTCAACCGAGCTGCCTCCTTCCGGCCAGGCCTGGTTTCTGAGACCCTCAGT
GTCCGTACCTTCCACTTCATTGAGCAGAACCTCACCAACTACTATGAGATGATGCTGACTGACCGCAAGGAAGCT
GCCTCCTGGGCACGCCGGATGCACCTGGCTCTGAAGGCCTATCAGGAGCTGCTGGCAACAGTGAATGAGATGGAC
TTATCTCCAGATGAGGCTGTGAGGGAGAGCAGCCGCATCATCAAGAACAATATTTTCTATGTGATGGAGTACCGA
GAACTATTCTGGCACTTTTTTCGAAAGTTTGATGAGAGATGCCAGCCCCGCTCTTTCCTTCGTGACCTGGTGGAG
ACCACCCACCTCTTCCTCAAAAATGTTGGAGCGATTCTGTGCGAGCCGTGGGAACCTGGTGGTGCAG

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FIGURE 3634

ATGGAGGTGACATCATGTGGACAACAGGCTAGGATGCCAGAGTTAGCTGCTCGGTGGAGATCATTGAGAATGCA
TCTTGCTTGTTCCTTGCAGCCCGGCATGCCAGTGCTTCCTCCACGAATTTGAAAGACATATTGGCTGACCTGATA
CCTAAGGAGCAGGCCAGAATTAAGACTTTCAGGCAGCAACATGGCAAGACGGTGGTGGGCCAAATCACTGTGGAC
ATGAAAAGTAAAACTACACCTGACGCTGAGACTCAAAGTGTGCAAGAGTCCCAAGGACAAAGAGGAGGGCCTGAA
GGACCCACTCTTGTGCTCGGCGTGGTCACCGAAGGCTTAAATAATAGGCTTGGAGAAATGGAAACAGGCAGTTTCG
GGAAGTACAAAGGCCCTTCCTACAAAGCAGAGGACGAAATTAGCCACTGCTCCAGAGTGA

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FIGURE 3635

GAGGACCCCGGGCTGGGCGCCGCCGCCGATCCCGGAGATCGCCCGCCATGGCTTTACTTACTGCGGCCGCCCCGGC
TCTTGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCCGGCATGCCAGTGCTTCCTCCACGAATTTGAAAG
ACATATTGGCTGACCTGATACCTAAGGAGCAGGCCAGAATTAAGACTTTCAGGCAGCAACATGGCAAGACGGTGG
TGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATTGGTCTATGAAACATCAGTTC
TTGATCCTGATGAGGGCATCCGTTTCCGAGGCTTTAGTATCCCTGAATGCCAGAACTGCTACCCAAGGCTAAGG
GTGGGGAAGAACCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGACATATCCCAACAGAGGAACAGGTAA
AGCAGAAGGATATTATTAGCTCTTCTCATTCCCCTTCTTCATTGCCTTTCTCTAATCTCAGACACTTAATGCTGA
TCCGGCATTATATAGAGATGCGTAGTGAAGGGAAGGAATCAGCAGAGTTCTGCTGTATAAATGGATTGGGTTGACC
TCTCTTGGGTTTTCTTTACTCAGATGTTGCTGTCTTTTTTTATTTTTCTCCTTCCTTGCTCCTTGCTGGTGTTCTG
AGCACTGTCTCTTTTTCCACAGGTATCTTGGCTCTCAAAAGAGTGGCAAAGAGGGCAGCTCTGCCTTCCCATGT
GGTCACCATGCTGGACAACCTTTCCCACCAATCTACCCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAA
CAGTGAAAGTAACTTTGCCCCGAGCATATGCACAGGGTATCAGCCGAACCAAGTACTGGGAGGTAGGAAATTTGGG
TGGGGTGATCGGTGTGTGATG

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FIGURE 3636

GCTAATGAATGAATGTGATCATTAAAAAGAAAGTCTCTTTCAGTATGAGAGAGAGAAAAACAGAAGTAGTAGTGGT
TGTGAGACAACCTTCAACAAGAAGTGGCTGACAGCGTAAAAAAATTAACGACGTTAGAGTCTCCACTGGAAGGTAT
ATCATGTTGTACATTAAATTTGGATGAGACACAGGCCTCAAATAAGAAATTATTTCAAGTGAAAAGTCAAATATA
AGAAACTCCTGGAAATGACAATAAATATGTTAAATGTATTTGGAAATGAAGACTTTGATTGCCATGGAGACTTAA
AAACAGATCAACTGAAAATGGATATTCTGATTAAAGAAGCTAAAAACAGAAGTTTGATGATCTTACAGCACAGAAGG
AAGCTTTATCTTCAAAATGTGTCAATTTGGCTAAAGACAATCAAGTTCTTCAACAGGAGTTTTTATCTATGAAAA
AAGTACAACAGCAATGTGAAAACTTGAGGAGGATAAAAAAGATGTTGAAAGAAGAAATATTAAATCTTAAGACAC
ATATGGAACAAATAGGGTAGAAATTAGTAACTACAAGAAATATAAATTGGAGCTAGATGAAAAGGCAATGCAGG
CAGTAGAAAAATTAGAAGAAATCCATTTACAGGAACAAGCACAAATATGAAAAACAATTAGAGCAGTTAAACAAGG
ATAATATGGCTTCACTAAATAAAAAAGGAACCTCACACTTAAAGATGTGGAATGTAAATTCCTCAGAAATGAAAACTG
CTTATGAAGAGGTTACAACCGAATTAGAAGAATATAAGGAAGCCTTTGCAGCAGCATTGAAAGCTAACAATTCCA
TGTCAAAAAAGTTAACAAAATCAAATAAGAAAATAGCAGTGATTAGCATGAAGCTCCTCATGGAGAAAGAGCAGA
TGAAATATTTTCTCAGTGCTCTTCTACAAGGCGAGACCCAGAGTCACCTTGTGTTGAAAATCTTACTAGTATAG
GACTCAACAGAAAAATATATTCCCCAAACACCCATAAGAATTCCTATTTCAAGCCCACAGACTTCAAATAACTGCA
AGAACTCCTAGACTGTGATGGAGCTGGACTGTGTAGAACAATAACTAGAGAAACAAAGAGAATTGTTGCTGTGT
TGAACACTTGCTCCCGTCTACTTACTTCTCTATAATCCACTGCCATGGAATGAGTGATTTTTCTTAGAAGCAGAG
GTGGAGCCACTGAGGAAGCACAGGCGAGCCCTCCCCAGCACGTGCTCACTGGTCCCCAACAGAACAACCGCTGCC
GCATCCATGAGGCTCCCATTTGTGGTGGGTTGTGTACCCCAACAATGTCACCTGTTGCTGAGCCCCCATCGCCTCTG
TGTGTGGAGCAGTTAGAGACACACTGTGGTGTCTGAGTGGCTCTGTGTGAAGGACCGTTTTCTAGGTGAGAGGC
ACATCTCAACACAGCTGACTGATCAGACTCAACCATTTTGCACACCCCTGGTCAGAATGAAACATTCCTTGGGAAC
TCGGGCCGTGAGAAGCATCCTTCCTGATCACCTGACTGTAGAAACATCCTTATCGCACCCCTCCCGGGCAAAGGCC
CAACAGCCTGACTGCAGGAACATCCTTGCCATATCCTGCCGGGCAGCAAGCTCTACCGCCCACGCCCCCTCCTTCC
CAGTCCCATGATCACCCCAGCCTGTGAGAGGCAGTTGGTGTGGCAGTAAGCTGGTTTTCTCCTCTGCAGGGTTT
TGCTAGTAATAAAGGTGTTGCTGTTGAAGCCGTCAAAAAAAAAAAAAAAAAAGGCCAGCATCGAGTCGGCCTTGT
TGGATTCTGGGGCCCGAGGTCGAGCCCGCCGTGCCGCCGTGAGGGAAGCGAGAAGAGGCCGCGACCCGGA
GAGAAAAAGCGGAGTCGCCACCGGAGAGAAGTCGACTCCCTAGCAGCAGCCGCCGCCAGAGAGGCCCGCCACCA
GTTCCGCCGTCCCCCTGCCCCGTTCACAATGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTCTT
CATTGAATTTTGTGTTGAAGACAGTAAGGATGTTAATGTAAATTTTGAAAAATCCAAACTTACATTTCAGTTGTCT
CGGAGGAAGTGATAATTTTAAGCATTAAATGAAATTGATCTTTTTCACTGTATTGATCCAAATGATTCCAAGCA
TAAAAGAACGACAGATCAATTTTATGTTGTTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGGTTAACAAA
AGAAAGGGCAAAGCTTAATTGGCTTAGTGTGACTTCAATAATTGGAAAGACTGGGAAGATGATTTCAGATGAAGA
CATGTCTAATTTTGATCGTTTCTCTGAGATGATGAACAACATGGGTGGTGTGAGGATGTAGATTTACCAGAAGT
AGATGGAGCAGATGATGATTACAAGACAGTGATGATGAAAAAATGCCAGATCTGGAGTAAGGAATATTGTCATC
ACCTGGATTTTGAGAAAGAAAAATAACTTCTCTGCAAGATTTTATAATTGAGAGAATTCCTGAGTTGATAGCTCT
AAAGGCAGATATGCTGTATTTGCCCTACTTTAACCCTTTTTCAACCTGTTTGTTTTTTAAAAGGCTTCACTAAGG
GTTGATATGTACCATTTGATATGGGGCAATTTAAGTCAGCTAAGGCAATAACCTTATGCATGAGCATTTCACAGAC
TTTCATGAAGCTGTTGAGGTCCTAGGCAATTAATGCAGCAGTTGCGATAAATAAAACATCTCACCTAAGTCTCC
TTTTCTTCATAACATAGATACTGACATGATAGGAAGCTCTCAGCTTAGGGAAAGAGAATAAATTTTAGATTATAG
AACATGGATTCAAAGTGACTGGAACAAATTGGCTGACACCTTACTGGTAACCTGCTATTCTTCTGGTGTATCC
TTCAGGATTGTTCCACTAAAATTTATTTTCAAAAAATTTACTTCACATTATTCTATGTAAGTGATGACTTGTCA
GTGTTCCAGGTGTATCTTAGCTAAACTAGAGAATGCCCTAACTTAGATGGTTTTTGAAGCCTATACAATTGGTA
TTGTTTGACCCTTAAGCTTTTACATCTCTTAGCATGGAGGACGAAGAAAGCTGTACATTGTTGCTTGAGAGTCTG
TACATTTAGTCCAGATTTGTATTTGCACTGTGAGTATGGCAATGAGTGAAAAATGTTTAATACACTATTGGATT
TTTTATTTCCTTTTTTTTGATTTCAGCTTATACCCGGGCTGAAAACCTCAATTTATGTTTCATGACAGTGGGGATTT
TTTAAATGTCTACATTCTTTCTAATAAACTGTTGGAAGACTT

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FIGURE 3637

MTINMLNVFGNEDFDCHGDLKTDQLKMDILIKKLKQKFDDLTQKEALSSKCVNLAKDNQVLQQEFLSMKKVQQQ
CEKLEEDKKMLKEEILNLKTHMENNRVEISKLQEYKLELDEKAMQAVEKLEEIHLEQAQYEKQLEQLNKDNMAS
LNKKELTLKDVECKFSEMKTAYEEVTTELEEYKEAFAAALKANNSMSKKLTksnkkIAVISMKLLMEKEQMKYFL
SALPTRRDPESPcVENLTsiglnrkyIPQTPIRIPISSPQTSNNCKNS

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FIGURE 3638

GACGACCTGTCTCGCTGCGTGCACGCCCTGCCGCCGCCCGCAGAAATGCTTCGGTTACCCACAGTCTTTTCGCCA
GATGAGACTGGTGTCCAGGGTGCTGGCTCCTCATCTCACTGGGGCTTATGCCAAAGATGTAAAATTCGGTGCAGA
TGCCCGAGCCTTAATGCTTCAAGGTATAGACCTTTTAGCCGATGCTGTAGCCCTTACAATGGGGCCAAAGGGAAG
AAGAACAGTGATTATCGAGCAGAGCTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAAT
TGACTTAAAGGATAAAATATAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATGAAGAGAC
TGGGGATGGCCCTACCACTGCTACTGTACTGGCAGCTCTATAGCCAAGGAAGGCATCGAGAAGATTAGCAAAGG
TGCTAATCCAGTGGAATCAGGAGAGGTGTGATGTTAGTTGTTGATGCTGTAATTGCTGAACTTAAAAAGCAGTC
TAAACCTGTGACCACCCCTGAAGAAATTGCACAGGTTGCTACAATTTCTGCAAACGGAGACAAAGAAATTGGCAA
TATCTCTGATGCAATGAAAAAGGTTGGAAGAAAGGGTGTCTATCACAGTAAAGGATGGAAAAACACTGAATGATGA
ATTAGAAATTATTGAAGGCATAAAGTTTGATCGAGGCTATATTTCTCCATACTTTATTAAATACATCAAAAGGTCA
GAAATGTGAATTCAGGATGCCTATGTTCTGTTGAGCGAAAAGAAAATTTCTAGTGTCCAGTCCGTTGTACCTGC
TCTTGAAATTGCCAATGCTCACCGTAAGCCTTTGGTCATAATCGCTGAAGACGTTGATGGAGAAGCTCTAAGTAC
ACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGATGTGGCAATCAAGGCTCCAGGGTTTGGTGACAATAGAAA
GAACCAGCTTAAAGATATGGCAATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGAGGGGCTGACCCTAAATCTTGA
AGATGTTACAGCTCATGACTTAGGAAACGTTGGAGAGGTCATTGTGACCAAAGATGATGCCACGCTCTTAAAAGA
AAAAGGTGACAAGGCTCAAATTGAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACCTAGTGAATA
TGAAAAGGAAAACTGAATGAACGGCTGGCAAACTTTTCAAGATGTAGTAGCTGTGCTGAAGGTTGGTGGGACAAG
TGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTCGGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGAAGGC
TTTGTATTGGGAGGGGGTTGTGCCCTGCTTCGATGCATTCTAGCCTTGGACTCATTGACTCCAGCTAATGAAGAT
CAAAAAATTGGTACAGAAATTATTAAAGAACTCAAAATTCAGCAATGACCATTGCTAAGAATGCAGGTGTTG
AAGGATCTTCGATAGTTGAGAAAATTACGCAATTTCTCAGAAGCTGGTTATGATGCTATGGTTGGAGATTTTG
TGAATATGGTGGAAAAATGAATTATTGACCCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCCGCTGGTGTGA
CCTCTCTGTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCCTGGAATGGGTGCAA
TGGGTAGAATGGGAGGTGGTATGGGAAGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTATTAATGAAC
TGTGACAGGAAGCCCAAGGCAGTGTTCCCTACCAATAACTTCAGAGAAGTCAGTTGGAGAAAAATGAAGAAAAAG
GCTGGCTGAAAATCACTATAACCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGTCATT
GTCCATGCCTATAGATAATTTATTTTGTATTTTGAATAAAAAACATTTGTACATTCCTGATACTGGGTAAAAGA
GCCATGTACCAATGTATGGCTTTCAACTTAAATCACTGAGGCATTTTTACTACTATTCTGTAAAATCAGGATTT
TTAGTGCTTGCCACCACCAGATGAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACAAAGTAG
AGAAATATCCAATTATGTGACAACTTTTGTGTAATAAAAAATTTGTTTAAAGTT

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FIGURE 3639

MLRLPTVFRQMRLVSRVLAPHLTGAYAKDVKFGADARALMLQGIDLLADAVALTMGPKGRRTVII EQSWGSPKVT
KDGVTVAKSIDLKDKYKNIGAKLVQDVANNTNEETGDGPTTATVLARSIAKEGIEKISKGANPVEIRRGVMLVVD
AVIAELKKQSKPVTTP EEIAQVATISANGDKEIGNISDAMKKVGRKGVITVKDGKTLNDELEIIEG IKFDRGYIS
PYFINTSKGQKCEFQDAYVLLSEKKISSVQSVVPALEIANAHRKPLVIIAEDVDGEALSTLVNLRLKVGLQDVAI
KAPGFGDNRKNQLKDMAIATGGAVFGEEGLTLNLEDVQPHDLGNVGEVIVTKDDATLLKEKGDKAQIEKRIQEII
EQLDVTTSEYEKEKLNRLAKLSDVVAVLKVGGTSDVEVNEKKDRVRMPLMLQELLLKKALYWEGVVP CFDAF

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FIGURE 3640

GTGCGGTGGTCAGGAACGAGGAGACTCCACTAAGTTCCTTGTGTTGCCTTCATTTTCATTCCCCCAACCCCCAAT
GAATTTTAGCCAAATGGAGCGGAGTCCCTGAAAGATTTTGGCCAGGAAGATCTGGAAGAAGAGGAAAACCTGCCT
GAGGAAGACAGCGAAGAGGAAGAAGAAGGGGGCTCAGAAGCAGAACAAAGTCCAGGGTAGCTTAGTCCTTTCAAAAT
GAAAACCTTGGTCAAAGCCTGCATCAGGAAGGCTTTTCTATCCCGCTCCTATGGCTCCAGAACTGCCTGATCCGA
GCAGCTGATGATCGGGAAGAGGATGGCTGCTCCAGGCCGTTCCATTGGTGCCACTCACAGAGGAAAATGAGGAA
GCCATGGAAAACGAACAGTTTCAGCAGCTGTTGCGCAAGCTAGGGGTTTCGGCCCCCTGCCTCTGGGCAGGAAAAC
TTCTGGCGAATTCCAGCCAAGCTGAGTCCTACCCAGCTCCGGAGGGCAGCAGCTTCTTTGAGTCAACCAGAGGAG
GAACAGAAGCTGCAGCCAGAGCTGCAGCCTAAAGTCCCTGGAGAGCAAGGCTCTGATGAGGAGCACTGTAAAGAG
CACCGAGCACAAAGCCCTGAGGGCCCTCTTGCTAGCCCACAAGAAGAAAGCGGGCCTGGCATCCCCAGAGGAGGAA
GACGCTGTTGGTAAAGAGCCGCTGAAGGCAGCACCCAAGAAACGACAATTGCTGGACAGCGACGAGGAACAGGAA
GAAGATGAGGGCAGGAACAGAGCACCAGAGTTGGGAGCTCCAGGAATCCAAAAGAAGAAACGATACCAGATTGAG
GATGATGAGGATGACTGAAGAGCTAAGAAGCCTAGGGGTAGAGATAGACACGTTTTTAGATGGTGCATTCAAGTC
AGAGTTGGAAGGGTCATACAGGACCCAGAAGCTCCTCTTACTGGACAGAGCAGTAGAATCCCAGGCTCTTTCACG
GATTTAGGCTGAGAACTTCAGCAGCAGTATTGGACTTCTCTGCTGTCAGTCTTTGTTTCTCCAGTTTTTATCG
GTATGCCCCAGCAGCTCTCTGGAGATTTAGTTCTCTTCTTCTAGGAACCATTCTTTTGGTTATTGGAGCTCCTT
AGCAAATAAGAGGAGTGAGTGAATAGAGAAAGCACCCCGGACCCCTTTTATTGGTCTGTTTCCTTTGGCTTTCTC
TTGGAGGTGGGTGCGAGCACCAGATGGGGAGCTTTATGACATGACAGGCGGGAGTTTTGTACCACTTTTAGAAGA
TACCAGATGCCTCTGTCTCATTTTGTTCCTATGATCATCCTCTAGATACCAGATAGAGGCCCATTCCTGCATT
TGAGATAGGGTTGGAATATAGTACTCTAGATGATGAATGTGTTTGCTTTGTGTTTGGTATTAAACATGTAAGATT
AGAAGTTCTCATCTCAGTCTGACTTGGCGATATGTCTAAGTTCCCCAGCCCTTCCCCTGCTGTGCTCTTGAAAGA
AGAACTTAACAATTTTAGGGTAAAAAGAGACCAACAGACCGGCACAGTGGCTCAAACCTGTTGTCTAGCACTTT
GGGAGGCTGAGGCGGGCGGATCACCTGAGGTCAGGAGTTTGAGACCGGCCTGGACAATATGGCGAAATCCCATCT
CCACTAAAAATACAAAAATTAGCCGGCCATGGTGGCATGCGCCTGTAATCCCAGCCACTCGGGTGGCTGAGGCAG
GAGAATTGCCTGAACCCAGGAGGCAGAGGTTGCAGTGAGCTAAGGTCACGCCAGTGCATATGCCTGGGCGACAGA
GCAAGACTCTGTCTCAAAAAAAAAAGAAAAAAAAAAAAAGACCAACAACCTTCCCTTTTCTTCCGCTTTCCCTACAG
AAGACACAGAAAAGCATTTTTGCCTCTAGATCCTTTTGTCTAGGGTAAATTCTTAGGGTGACAAGAGTATGCGGC
AGGAAGAAGGAGGAGCCATAAAGGAAGAGAAGCCAGCTTGTTGGCATGGGGCATAGAAAAGGACAAAATCTAGGC
ATGAAAAGGATGGATAAATACTGCAAAATATTATGTTCTTACCCATTCTTGGAACGTCAGCTTTCTTGCTTCCTG
TGCTTCCAGCCGAGGTAGGGCAAAGGTGAGATTGAGAAAATAGCCATTGAGCTCAGGAAGGCTTCTAAGTAAAGG
ATGGATTTGGA

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FIGURE 3641

AGTTGATTTATGAAGACTCTATGGATCTAATCGCAAAGCTACCTTGTGTTGCAGCAAAGATCTACCGAAATCTCT
ACAGAGAAGGCAGCGGTATTGGGGCCATTGACTCTAACCTGGACTGGTCTCACAATTTACCAACATGTTAGGCT
ATACTGATCATCAGTTCAGTCTCAGCGCCTGTACCTCACCATCCACAGTGACCATGAGGGTGGCAATGTAA
GTGCCCATAACCAGCCATTTGGTGGGCAGTGCCCTTTCCGACCCTTACCTGTCCTTTGCAGCAGCCATGAACGGGC
TGGCAGGGCCTCTCCATGGACTGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCA
AAGATGTGTCAGATGAGAAGTTACGAGACTACATCTGGAACACACTCAACTCAGGACGGGTTGTTCCAGGCTATG
GCCATGCAGTACTAAGGAAGACTGATCCGCGATATACCTGTCAGCGAGAGTTTGCTCTGAAACACCTGCCTAATG
ACCCCATGTTTAAGTTGGTTGCTCAGCTGTACAAGATTGTGCCCAATGTCCTCTTAGAGCAGGGTAAAGCCAAGA
ATCCTTGGCCCAATGTAGATGCTCACAGTGGGGTGCTGCTCCAGTATTATGGCATGACGGAGATGAATTACTACA
CGGTCCTGTTTGGGGTGTCACGAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTC
TAGAAAGGCCCAAGTCCATGAGCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAA

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FIGURE 3642

AAAGCTTGTTTGGACGACCTTCGTCTGGGATGCACTCTTCTTCTCCTTCACCTACAAATGATAGAGGATTACGAA
GAACTATACGGTTGGCTCCTCTTTCCCTTTGGCCTTAGGTTTCTGACCTCCTGCAGCCTCCTCTTGCCTCGGGCTG
CCCAGATCTTGGCGGCTGAGGCTGGCTTACCTTCGAGCCGTTCCCTTCATGGGATTGCTGCTCCCTTCACCAACA
AGCGAAAGGCTTACTCGGAGCGTAGAATCATGGGGTACTCAATGCAGGAGATGTATGAGGTGGTGTCCAACGTCC
AGGAGTATCGTGAGTTTGTGCCCTGGTGTAAGAAGTCTCTGGTGGTATCCAGCCGTAAGGGTCATTTGAAAGCCC
AGCTGGAGGTTGGCTTTCCACCTGTCATGGAACGTTACACCTCTGCAGTTTCCATGGTCAAACCTCACATGGTCA
AGGCTGTTTGTACTGATGGCAAGCTCTTCAACCACTTAGAGACTATTTGGCGATTTCAGCCCTGGTATTCTGCCT
ATCCTCGAACCTGCACTGTGGACTTTTCGATTTCCCTTTGAATTTCTGCTGCACTCCCAGCTGGCCACCA
TGTTTTTTTGATGAGGTTGTCAAACAGAAATGTTGCTGCCTTTGAGCGTCGGGCAGCCACCAAGTTTGGTCCAGAAA
CAGCCATCCCCCGTGAAGTATGTTCCATGAGGTGCACCAGACTTGAGGCAAGGGATTGCTCCCTGACCTCCCTT
CTACCCCACTTCCCTACACAATTCTCTTATTTATTTGGTTTGGCTCCTGTTCCAATTTGAAAGGAGTCTGTGTTC
ATAATACTGTTTCTCCTCTCAATTTCCCAGAAATTGGGTTCTATGCTGGCTGGAAATGTTGGGGGAAAGAGAAGG
CAAAGGATGTGGAATGAGATGTGCTTAGGAAAGGGTCAGGCCCATCGTAGGAGCACCATATGCCTGCAGCCTTT
TCACTACGAATTAGAATAAGGACTATGTGGTTGTCTCTGGACCTTATCAAGACACCTTAGTGTCTGACCAGGGGA
CGATAGTAACTTTTCTAAGGATTGAATAAATTGAGCTTTTCTTCTGGCACAGAGGTAAGTGGTAAGTAACCTT
TTACCCTGCCTGAGATTCCCTCAGGAGAAAAAGGCAACCTGCCTCCAGCCTGAAATACATAAAGCCTCATTTTAAGA
CTGTAAGTCCATGCTGCCTGGCTACTAGAGAGCAAGGGGCTTTCTTACCACCAGTGCTGAGGAGAAAAGTACTGA
ACGGAACGGAGTTGTCTTTGTACTCTTGAGTTGTACCTTATTCTTCCACTTGGCCTGAGTTTTATAAAATTTT
AATAAATTGTGACAGTGTG

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FIGURE 3643

GGCACGAGGAGGGGTTGAGGCTGCCTGACCCCAGCCTAATGGGGTAGGTAGGCCTTGGGAAGTGGAGCATGGGGG
CAAAGGATCCAAGCATTGAGCCTTCATCCTCTATTCCCCATCCAGTGGGGTGCCGAGGCTCAGGCAGCATGACGA
CGGAGACCTTTGTGAAGGATATCAAGCCTGGGCTCAAGAATCTGAACCTTATCTTCATTGTGCTGGAGACAGGCC
GAGTGACCAAGACAAAGGACGGGCATGAGGTTCTGGACCTGCAAAGTGGCGGACAAAACAGGCAGCATCAATATCT
CTGTCTGGGACGATGTTGGCAATCTGATCCAGCCTGGGGACATTATCCGGCTCACCAAAGGGTACGCTTCAGTTT
TCAAAGGTTGTCTGACACTATATACTGGCCGTGGGGGTGATCTGCAGAAGATTGGAGAATTCTGTATGGTTTATT
CTGAGGTTCCCTAACTTCAGTGAGCCAAACCCAGAGTACAGCACCCAGCAGGCACCCAACAAGCGGTGCAGAACG
ACAGCAACCCCTTCAGCTTCCCAGCCTACCACTGGACCCCTCTGCTGCCTCTCCAGCCTCTGAGAACCAGAATGGGA
ATGGACTGAGTGCCCCACCAGGTCCCGGTGGTGGCCACATCCCCCTCATACTCCCTCCCACCCACCCAGCACCC
GAATCACTCGAAGCCAGCCCAACCACACACCTGCAGGCCCGCCTGGCCCTTCCAGCAACCCGTGTTAGTAACGGCA
AAGAAACCCGGAGGAGCAGCAAGAGATTAGCATGACATTCTTTCTTCTGCCACCAACCACATCCCAAGTGTCCTCC
TGGAGAGCAAGATAGCCTTCCACTGATTGGCTGGTGTAGCAGTATTTTAGCCACTGAACTTCAGTGGAGGGTGGT
GAGCAGTGTCTTATCCACCCTAATCTCATACTCCCTCATTGTCCAGCTGAACTACCTGTCCCTGGGAGTCAGG
ACCTCTGCCTGCTCTCTTTCTCTTTAGAAATGGCAGTTACTGGCTGGGCGCAGTGGCTCACGCTTGTAATCCC
AGCACTTTGGGAAGCCGAGGTGGGCGGATCACCTGAGGTCGGGAGTTCAAGACCAGCCTGACCAACATGGAGAAA
CCCCGTGTCTACTAAAAATACAGAATTAGCCAGGCATGGTGGCGTATGCCTGTAATCCCAGCTACTTAGGAGGCT
GAGGCAGGAGAATCTCTTGAAACCGGGAGGCGGAGGTTGAGGTGAGCCGAAATTGCACCATTGCACTCCAGCCTG
GGCAATAAGAGCGAAACTCCATCTCAA

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FIGURE 3644

MTTETFVKDIKPGLKLNLI FIVLETGRVTKTKDGHEVRTCKVADKTGSINISVWDDVG NLIQPGDIIRLTGYA
SVFKGCLTLYTGRGGDLQKIGEF CMVYSEVPNFSEPNPEYSTQQAPNKAVQND SNPSASQPTTGPSAASPASENQ
NGNGLSAPPGPGGGPHPPHTPSHPPSTRITRSQPNHTPAGPPGPSSNPVSNGKETRRSSKR

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FIGURE 3645A

GGCGGGCGGCGGCGGGGCCCCGAGCCGGAGAAGATGGCGGTGCGGAAGAAGGACGGCGGCCCCAACGTGAAGTACT
ACGAGGCCGCGGACACCGTGACCCAGTTCGACAACGTGCGGCTGTGGCTCGGCAAGAACTACAAGAAGTATATAC
AAGCTGAACCAACCACCAACAAGTCCCTGTCTAGCCTGGTTGTACAGTTGCTACAATTTTCAGGAAGAAGTTTTTG
GCAAACATGTGAGCAATGCACCGCTCACTAAACTGCCGATCAAATGTTTCCTAGATTTCAAAGCGGGAGGCTCCT
TGTGCCACATTCTTGCAGCTGCCTACAAATTCAAGAGTGACCAGGGATGGCGGCGTTACGATTTCCAGAATCCAT
CACGCATGGACCGCAATGTGGAAATGTTTATGACCATTGAGAAGTCCTTGGTGCAGAATAATTGCCTGTCTCGAC
CTAACATTTTTCTGTGCCAGAAATTGAGCCCCAACTACTAGGGAAATTAAAGGACATTATCAAGAGACACCAGG
GAACAGTCACTGAGGATAAGAACAATGCCTCCCATGTTGTGTATCCTGTCCCGGGGAATCTAGAAGAAGAGGAAT
GGGTACGACCAGTCATGAAGAGGGATAAGCAGGTTCTTCTGCACTGGGGCTACTATCCTGACAGTTACGACACGT
GGATCCCAGCGAGTGAAATTGAGGCATCTGTGGAAGATGCTCCAACCTCCTGAGAAACCTAGGAAGGTTTCATGCAA
AGTGGATCCTGGACACCGACACCTTCAATGAATGGATGAATGAGGAAGACTATGAAGTAAATGATGACAAAAACC
CTGTCTCCCGCCGAAAGAAGATTTAGCCAAGACACTGACAGATGAGGTGAACAGCCCAGATTTCAGATCGACGGG
ACAAGAAGGGGGGAAACTATAAGAAGAGGAAGCGCTCCCCCTCTCCTTACCAACCCCAAGAAGCAAAGAAGAAAA
ATGCTAAGAAAAGTCCCTCAACACCTTACACTAAGTCAAAGCGTGCCACAGAGAAGAGGAGCAAGAAGACCTGA
CAAAGGACATGGACGAGCCCTCACCAGTCCCCAATGTAGAAGAGGTGACACTTCCCAAAACAGTCAACACAAAGA
AAGACTCAGAGTCGGCCCCAGTCAAAGGCGGCACCATGACCGACCTGGATGAACAGGAAGATGAAAGCATGGAGA
CGACGGGCAAGGATGAGGATGAGAACAGTACGGGGAACAAGGGAGAGCAGACCAAGAATCCAGACCTGCATGAGG
ACAATGTGACTGAACAGACCCACCACATCATCATTTCCAGCTACGCTGCCTGGTTTGACTACAATAGTGTTCATG
CCATTGAGCGGAGGGCTCTCCCCGAGTTCTTCAACGGCAAGAACAAGTCCAAGACTCCAGAGATCTACCTGGCCT
ATCGAAACTTTATGATTGACACTTACCGACTGAACCCCCAAGAGTATCTTACCTCTACCGCCTGCCGCCGAAACC
TAGCGGGTGATGTCTGTGCCATCATGAGGGTCCATGCCTTCTAGAACAGTGGGGTCTTATTACTACCAGGTGG
ATGCTGAGAGTCGACCAACCCCCAATGGGGCCTCCGCCTACCTCTCACTTCCATGTCTTGGCTGACACACCATCAG
GGCTGGTGCTCTGCAGCCCCAAGACACCTCAGGGCCGCCAGGTTGATGCTGATACCAAGGCTGGGCGAAAGGGCA
AAGAGCTGGATGACCTGGTGCCAGAGACGGCTAAGGGCAAGCCAGAGCTGCAGACCTCTGCTTCCCAACAAATGC
TCAACTTTCTGACAAAGGCAAGAGAAACCAACAGACATGCAAACTTTGGGCTGCGCACAGACATGTACACAA
AAAAGAATGTTCCCTCCAAGAGCAAGGCTGCAGCCAGTGCCACTCGTGAGTGAGACAGAACAGGAAACCCTGCTTC
TCTGGAGGCACTGGAAATGTACAAAGATGACTGGAACAAAGTGTCCGAGCATGTGGGAAGCCGCACACAGGACG
AGTGCATCTTGCATTTTCTTCGTCTTCCCATTGAAGACCCATACCTGGAGGACTCAGAGGCCTCCCTAGGCCCCC
TGGCCTACCAACCCATCCCTTCAGTCAGTCGGGCAACCCTGTTATGAGCACTGTTGCCTTCTGGCCTCTGTGCG
TCGATCCCCGAGTCGCCTCTGCTGCTGCAAGTCAGCCCTAGAGGAGTTCTCCAAAATGAAGGAAGAGGTACCCA
CGGCTTGGTGGAGGCCCATGTTTCGAAAAGTGAAGAAGCAGCCAAAGTAACAGGCAAGGCGGACCCTGCCTTCG
GTCTGAAAAGCAGTGGCATTGCAGGAACCACCTCTGATGAGCCTGAGCGGATTGAGGAGAGCGGGAATGACGAGG
CTCGGTGGAAGGCCAGGCCACAGATGAGAAGAAGGAGCCCAAGGAACCCCGAGAAGGAGGGGGTGCTATAGAGG
AGGAAGCAAAAGAGAAAACCAGCGAGGCTCCCAAGAAGGATGAGGAGAAAGGGAAGGAAGGCGACAGTGAGAAGG
AGTCCGAGAAGAGTGATGGAGACCCAATAGTCGATCCTGAGAAGGAGAAGGAGCCAAAGGAAGGGCAGGAGGAAG
TGCTGAAGGAAGTGGTGGAGTCTGAGGGGGAAAGGAAGACAAAGGTGGAGCGGGACATTGGCGAGGGCAACCTCT
CCACCGCTGCTGCCGCCGCCCTGGCCGCCGCCGAGTGAAAGCTAAGCACTTGGCTGCTGTTGAGGAAGGAAGA
TCAAATCTTTGGTGGCCCTGCTGGTGGAGACCCAGATGAAAAAGTTGGAGATCAAACCTTCGGCACTTTGAGGAGC
TGGAGACTATCATGGACCGGGAGCGAGAAGCACTGGAGTATCAGAGGCAGCAGCTCCTGGCCGACAGACAAGCCT
TCCACATGGAGCAGCTGAAGTATGCGGAGATGAGGGCTCGGCAGCAGCACTTCCAACAGATGCACCAACAGCAGC
AGCAGCCACCACCAGCCCTGCCCCAGGCTCCCAGCCTATCCCCCAACAGGGGCTGCTGGGCCACCCGCAGTCC
ATGGCTTGGCTGTGGCTCCAGCCTCTGTAGTCCCTGCTCCTGCTGGCAGTGGGGCCCCCTCCAGGAAGTTTGGGCC
CTTCTGAACAGATTGGGCAGGCAGGGTCAACTGCAGGGCCACAGCAGCAGCAACCAGCTGGAGCCCCCAGCCTG
GGGCACTCCACAGGGGTTCCCCCCCCCTGGACCCCATGGCCCCCTCACCGTTCCCCAACCAACAACTCCTCCCT
CAATGATGCCAGGGGCAGTGCCAGGCAGCGGGCACCCAGGCGTGGCGGACCCAGGCACCCCTGCCTCCAGACC
CCACAGCCCCGAGCCCAGGCACGGTCAACCCCTGTGCCACCTCCACAGTGAGGAGCCAGCCAGACATCTCTCCCC
TCACCCCTGTGGACATCACGGTTCCAGGAACAGCCCTTCCCCCAACCACTGGGACCCTCCCCAGCCTGGAGAGTT
CATCACTACGTAAGGAAAGCTCCTTCCGCCCTCCAAAGCCCTCACCATGCCTAACAGAGGCATGCATTTTTTATA

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FIGURE 3645B

TCAGATTATTCAAGGACTTCTGTTTAAAAGATGTTTATAATGTCTGGGAGAGAGGATAGGATGGGAATGCTGCCC
TAAAGGAAGGGCTGGTGAAAGGTGTTTATACAAGGTTCTATTAACCACTTCTAAGGGTACACCTCCCTCCAACT
ACTGCATTTTCTATGGATTAAAAAAGTAGATTTTAAAAAGCCACATTGGAGCTCCCTTCTACCC
ACTAAAAATAACCAATTTTACATTTTGTAGGGGGAGTGAGTTTGTAGGAAAGGGGAATTAAGATTCCAGGGAG
AGCTCTGGGGATAGAACAGGGCGCAGATTCCATCTCTCCCAAGCCCCTTTTAGTGACTAAGTCAAGGCCCAA
CTCCCTCCCTCCCTACGCTGAGCTTATTCGAGTTCATTTCGTACTAATAATCCCTCCTGCGGCTTCCTCATTG
TTGCTGTTTGTAGGCCACCCAGCTCAGCCAATGATTCCCTTCCCTCTGAATGTCAGTTTTGTTTTTAAAGTCAC
TTGCTTAGTTGATGTCAGCGTATGTGATTTGGTGGGGAAAACCTAATTCGGGGATTCTGTGGTAGGTAATAG
GAGAAGAAAGGGCACTGGGGGCTGTTCTCCTTCCCTGGGCTGTATCCATGGACTCCTGGAAGGCACAGAGA
AGGGAGCTATAAGAGGATGTGAAGTTTAAAACCTGAAATTGTTTTTAAAGCACTTAAGCACCTCCATATTATG
ACTTGGTGGGTCACCCCTTAGCTTCCTCCCTCTCCACCAAGACTATGAGAACTTCAGCTGATAGCTGGGGGCTC
CCCAGATGAGGATGCAGGGATTTGGGAGCAGTGAAGAGGGTGCCCAACCTTGGGTTGGACCAACCCTTGGCTCG
CAGCTCAACTCTGCTTCCCGCATTCTGCTCCACGTGTCCAGCTTCTCCCTGTGACGGGAAGGCAGGTGTGAC
TCCAGGCTCTGCACTGGTTCTTCTTGGTTCCCTCCACCAGGCCCTTTGTTCCCTCATGTCCCCATGTTTCTCTCC
TCTGCGTCTTAGCACCTTTCTTCTGTTCAAAGTTTTCTGTAAATTTCTCTTTTTTCTTTCTTTCTTTTTTTT
TTTTTATAAATTAATTTGCTTTCAGTTCATCTTGTGGGTGCATTCTGTGTTCTTACCTGTGGCTGTCAGGCAGG
GGGATTGTGATGGGAG

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FIGURE 3646

ATTACTGCAGGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGAGTT
CAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAG
GGCCCTGGGCCAGAACCCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGATGAATGT
GAAGGTGCTGGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAAGGACCAGGGCACCTATGA
GGATTATGTCGAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGT
TCTTGTCACTGCGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGG
TTGTATCAACTATGAAGCGTTTGTGAGGCATATCCTGTCGGGGTTGACGGGCCCATGGGGCGGAGCTCGTCCGCAT
GGTGCTGAATGGCTGAGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCTTTCCCTGTGTGAATTTTGTATCTAGCC
TAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTGGATGATGTTTGCCGTCAGCAT
TCACCAAATAAACTTGCTCTCTGGGCCTC

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FIGURE 3647

MCDFTEdqTAEFKEAFQLFDRTGDGKILYSQCGDVMRAIGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHFLPMLQ
TVAKNKDQGTYEDYVEGLRVFDKEGNGTVMGAIEIRHVLVTLGEKMTEEEVEMLVAGHEDSNGCINYEAFVRHILS
G

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FIGURE 3648

GGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGAGTTCAAGGAGGC
CTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTG**ATG**AGGGCCCTGGG
CCAGAACCCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAAACCCCAAGAGTGATGAGATGAATGTGAAGGTGCT
GGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAAGGACCAGGGCACCTATGAGGATTATGT
CGAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGTTCTTGTCTAC
ACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGGTTGTATCAA
CTATGAAGAGCTCGTCCGCATGGTGCTGAATGGCT**TG**AGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCTTTCCCT
GTGTGAATTTTGTATCTAGCCTAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTG
GATGATGTTTGCCGTCAGCATTACCAAATAAACTTGCTCTCTGGGAAAAA

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FIGURE 3649

MRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHFLPMLQTVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIR
HVLVTLGEKMTEEEVEMLVAGHEDSNGCINYEELVRMVLNG

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FIGURE 3650

ATTACTGCAGGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGCTGTGACTTCACCGAAGACCAGACCGCAGATCT
GATCCCAAGCACTGAGTTCAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCA
GTGTGGGGATGTGATGAGGGCCCTGGGCCAGAACCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAA
GAGTGATGAGATGAATGTGAAGGTGCTGGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAA
GGACCAGGGCACCTATGAGGATTATGTCGAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGG
TGCTGAAATCCGGCATGTTCTTGTCACACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGCTGGCAGG
GCATGAGGACAGCAATGGTTGTATCAACTATGAAGCGTTTGTGAGGCATATCCTGTCGGGGTGAACGGGCCCATGG
GGCGAGCTCGTCCGCATGGTGCTGAATGGCTGAGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCTTTCCCTGTGT
GAATTTTGTATCTAGCCTAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTGGATG
ATGTTTGCCGTCAGCATTCACCAAATAAACTTGCTCTCTGGG

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FIGURE 3651

MCDFTEDQTADLIPSTEFKEAFQLFDRTGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEH
FLPMLQTVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIRHVLVTLGEKMTEEEVEMLVAGHEDSNGCINYEAF
VRHILSG

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FIGURE 3652

CCCTCGAGAGCGGCTAGAGTCTGGCGGCCGAGAGGACTAGTTGTCCCAGCGTGCCCTGCGCCTCAGCCCGCGCGC
TCGCAGCTTCTCGCTCTCGCCTGCCTGCCCGCTCCCTTGCTTGCTCGCGCTTTCGCTCGCCCTCTCCTCGAGGAT
CGAGGGGACTCTGACCACAGCCTGTGGCTGGGAAGGGAGACAGAGGCGGGCGGCGGCTCAGGGGAAACGAGGCTGC
AGTGGTGGTAGTAGGAAGATGTCGGGCGAGGACGAGCAACAGGAGCAAACTATCGCTGAGGACCTGGTCGTGACC
AAGTATAAGATGGGGGGCGACATCGCCAACAGGGTACTTCGGTCCTTGGTGGAAGCATCTAGCTCAGGTGTGTGCG
GTACTGAGCCTGTGTGAGAAAGGTGATGCCATGATTATGGAAGAAACAGGGAAAATCTTCAAGAAAGAAAAGGAA
ATGAAGAAAGGTATTGCTTTTCCCACCAGCATTTCGGTAAATAACTGTGTATGTCACCTTCTCCCCCTTTGAAGAGC
GACCAGGATTATATTCTCAAGGAAGGTGACTTGGTAAAAAATTGACCTTGGGGTCCATGTGGATGGCTTCATCGCT
AATGTAGCTCACACTTTTGTGGTTGATGTAGCTCAGGGGACCCAAAGTAACAGGGAGGAAAGCAGATGTTATTAAG
GCAGCTCACCTTTGTGCTGAAGCTGCCCTACGCCTGGTCAAACCTGGAAATCAGAACACACAAGTGACAGAAGCC
TGGAACAAAGTTGCCCACTCATTTAACTGCACGCCAATAGAAGGTATGCTGTACACCAGTTGAAGCAGCATGTC
ATCGATGGAGAAAAAACCATTTATCCAGAATCCACAGACCAGCAGAAGTAGGTGCCAACCCCTACTTATTACCTTC
TACCACACAAGACTAGTCATCAGGTTTTTTTTCTATACTCCCAACTGAATCTTGTCCGCCCTCTACTCCATGTTTT
CAGGAGTGACCTGTTGCTCTTAATATTCCCTTTCTCTAGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCTGAGGCGGGTGATCACCTGAGGTACAGAGTTCAGAACCCAGCCTAACCAACATGGCGAAACCCTG
TCTCTACTAAAACTACAAAAATGAGCCAGGCCTGGTGGTTTGTGCCTATAGTCCCAGCTACTTGGGAGGCTGAG
GCAGGAGAGTTGCTTGGACCCGGGAGGTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGT
GACAGAATGAGACTCTGTGTGCGAAGGACCATGAAAAAGCTGAATTTGAGGTACATGAAGTATATGCTGTGGATGT
TCTCGTCAGCTCAGGAGAGGGCAAGGTGAGGAGAGTACCAGAGTTGGCAAAGAGGGGTGACTGAGAGTGTTTACC
AGACCAAATGTTACTTAAATTACTCTTTCAGGCCAAGGATGCAGGACAGAGAACCCTATTTACAAACGAGACCC
CTCTAAACAGTATGG

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FIGURE 3653

MSGEDEQQEQTIAEDLVVTKYKMGGDIANRVLRSLSVEASSSGVSVLSLCEKGDAMIMEETGKIFKKEKEMKKGIA
FPTSISVNNCVCHFSPKSDQDYILKEGDLVKIDLGHVHVDGFIANVAHTFVVDVAQGTQVTGRKADVIKAAHLCA
EAALRLVKPGNQNTQVTEAWNKVHSAFNCTPIEGMLSHQLKQHVIDGEKTI IQNPTDQQK

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FIGURE 3654

ACCCGGCGCTCCATTAAATAGCCGTAGACGGAACCTTCGCCTTTCTCTCGGCCTTAGCGCCATTTTTTTGGAAACC
TCTGCGCC**ATG**AGAGCCAAGTGGAGGAAGAAGCGAATGCGCAGGCTGAAGCGCAAAAGAAGAAAGATGAGGCAGA
GGTCCAAG**TAA**ACCGCTAGCTTGTTGCACCGTGGAGGCCACAGGAGCAGAAACATGGAATGCCAGACGCTGGGGA
TGCTGGTACAAGTTGTGGGACTGCATGCTACTGTCTAGAGCTTGTCTCAATGGATCTAGAACTTCATCGCCCTCT
GATCGCCGATCACCTCTGAGACCCACCTTGCTCATAAACAAAATGCCCATGTTGGTCCTCTGCCCTGGACCTGTG
ACATTCTGGACTATTTCTGTGTTTATTGTGGCCGAGTGTAACAACCATATAATAAATCACCTCTTCCGCTGTTT
TAGCTGAAGAATTAAATCAAAAAAAAAA

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FIGURE 3655

MRAKWRKKRMRRLLKKRRRKMQRSK

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FIGURE 3656

CCTGTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCA
CGTGCAGCCTATTCGCTGCACTAACTGTGCCCAGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCG
AAACATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCT
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTTAAAAAAAAAA
AAAAAAAAA

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FIGURE 3657

MTKKRRNNGRAKKGRGHVQPIRCTNCARCVPKDKAIKKFVIRNIVEAAAVRDI SEASVFDAYVLPKLYVKLHYCV
SCAIHSKVVRNRSREARKDRTPPPRFRPAGAAPRPPPKPM

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FIGURE 3658

CCCCATCCCTTCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGCCTACGACCACCTCTTCAAGTTGCTGCTGAT
CGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTGCTTTGCAGAGGACAACCTTCAACAACACTTACATCTC
CACCATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGGGAAGAAGATCAAACCTACAAGTCTGGGACAC
AGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCGTGGAGCCATGGGCATTATCCTAGCATACGA
CATCACGGATGAGAAATCTTTCGAGAATATTGAGAACTGGATGAAAAGCATCATGGAGAATGCCTCAGCTGGGGT
GGAGCACCTCTTGCTAGGGAACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCGATAAGTT
GGCTCGAGAGCATGGAATCCGATTTTTTCGAAACTAGTGCTAAATCCAGTATGAATGTGGATGAGGCTTTTAGTTC
CCTGGCCCGGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGGAAACGGCAACAAGCCTCCCAGTACTGACCT
GAAAACTTGTGACATAAAGAACACCAACAAGTGCTCCCTGAGCTGAGGACCCTTTCTTGCTCCCCACCCCGGAA
GCTGAACCTGAGGGAGACAACAGCAGAGGGAGTGAGCAGGGGAGAAATAGCAGAGGGGCTTGAGGGGACACATAG
GTAGATGGTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGGAAAAGCAGAAAGGAAAAGAAGGAAAAGAGAGGAAG
GGAGAAGGGAGAGGAATGAATTGAGGAAGTGAACGAAGGCAAGGAGGTAGGAAGAGAGGGAGGAGGAAAGGAAGG
AGAGATGCCTCAGGCTTACAGACCTTACCTGGGTTTTTCAGGGCAAACATAAATGTAAATACACTGATTTATTCTGT
TACTAGATCAGGTTTTAGGGTCCTGCAAAGGGCTAGCTCGGCACTACACTAGGGAATTTGCTCCTGTTCTGTCAC
TTGTCATGGTCTTTCTTGGTATTAAAGGCCACCATTTCACAAAAAATAAATAAA

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FIGURE 3659

GGAAGCAGGGGCGGGGCGCTCTGGTGGCGGTCTGGGAACCTCGGTGGGAGGCGGCAACATTGTTTCAAGTTGGCCAAA
TTGACAAGAGCGAGAGGTATACTGCGTTCCATCCCGACCCGGGGCCACGGTACTGGGCCCTGTTTCCCCCTCCTC
GGCCCCCGAGAGCCAGGGTCCGCCTTCTGCAGGGTTCCAGGCCCGCTCCAGGGCCGGGCTGACCCGACTCGC
TGGCGCTTCATGGAGAACTTCCAAAAGGTGGAAGATCGGAGAGGGCACGTACGGAGTTGTGTACAAAAGCCAGA
AACAAAGTTGACGGGAGAGGTGGTGGCGCTTAAGAAAATCCGCCTGGACACGTGAACTGAGGGTGTGCCAGTACT
GCCATCCGAGAGATCTCTCTGCTTAAGGAGCTTAACCATCCTAATATTGTCAAGCTGCTGGATGTCATTACACA
GAAAAATAAATCTACCTGGTTTTTGAATTTCTGCACCAGATCTCAAGAAATTCATGGATGCCTCTGCTCTCACT
GGCATTCCCTCTTCCCCCTCATCAAGAGCTATCTGTTCCAGCTGCTCCAGGGCCTAGCTTTCTGCCATTCTCATCGG
GTCTCCACCGAGACCTTAAACCTCAGAATCTGCTTATTAAACACAGAGGGGGCCATCAAGCTAGCAGACTTTGGA
CTAGCCAGAGCTTTTGGAGTCCCTGTTTCGTACTTACACCCATGAGGTGGTGACCCTGTGGTACCGAGCTCCTGAA
ATCCTCCTGGGCTGCAATATTATTCCACAGCTGTGGACATCTGGAGCCTGGGCTGCATCTTTGCTGAGATGGTG
ACTCGCCGGGCCCTATTCCCTGGAGATTCTGAGATTGACCAGCTCTTCCGGATCTTTCCGACTCTGGGGACCCCA
GATGAGGTGGTGTGGCCAGGAGTTACTTCTATGCCTGATTACAAGCCAAGTTTCCCCAAGTGGGCCCCGGAAGAT
TTTAGTAAAGTTGTACCTCCCCCTGGATGAAGATGGACGGAGCTTGTTATCGCAAATGCTGCACTACGACCCTAAC
AAGCGGATTTTCGGCCAAGGCAGCCCTGGCTCACCTTTCTTCCAGGATGTGACCAAGCCAGTACCCCATCTTCGA
CTCTGATAGCCTTCTTGAAGCCCCCAGCCCTAATCTCACCTCTCCTCCAGTGTGGGCTTGACCAGGCTTGGCCT
TGGGCTATTTGGACTCAGGTGGGCCCTCTGAACCTTGCCTTAAACACTCACCTTCTAGTCTTGCCAGCCAACCTCT
GGGAATACAGGGGTGAAAGGGGGGAACCAGTGAAAATGAAAGGAAGTTTCAGTATTAGATGCACTTAAGTTAGCC
TCCACCACCTTTCCCCCTTCTCTTAGTTATTGCTGAAGAGGGTTGGTATAAAAAATAATTTTAAAAAAGCCTTCC
TACACGTTAGATTTGCCGTACCAATCTCTGAATGCCCCATAATTATTATTTCAGTGTTTGGGATGACCAGGATC
CCAAGCCTCCTGCTGCCACAATGTTTATAAAGGCCAAATGATAGCGGGGGCTAAGTTGGTGCTTTTGAGAACCAA
GTAAAACAAAACCACTGGGAGGAGTCTATTTTAAAGAATTCGGTTGAAAAAATAGATCCAATCAGTTTATACCTT
AGTTAGTGTTTTGCCTCACCTAATAGGCTGGGAGACTGAAGACTCAGCCCGGTGGGGCTGCAGAAAAATGATTG
GCCCCAGTCCCCTTGTTTGTCCCTTCTACAGGCATGAGGAATCTGGGAGGCCCTGAGACAGGGATTGTGCTTCAT
TCCAATCTATTGCTTCACCATGGCCTTATGAGGCAGGTGAGAGATGTTTGAATTTTCTCTTCTTTTAGTATTCT
TTAGTTGTTTCAAGTTGCCAAGGATCCCTGATCCCATTTTCTCTGACGTCCACCTCCTACCCCATAGGAGTTAGAA
GTTAGGGTTTTAGGCATCATTTTGAAGATGCTGACACTTTTTCAGGGCTGTGATTGAGTGAGGGCATGGGTAAAAA
TATTTCTTTTAAAAAGAAGGATGAACAATTATATTTATATTTTTCAGGTTATATCCAATAGTAGAGTTGGCTTTTTTTT
TTTTTTTTTTGGTCATAGTGGGTGGATTTGTTGCCATGTGCACCTTGGGGTTTTGTAATGACAGTGCTAAAAAAA
AAAGCATTTTTTTTTTATGATTGTCTCTGTACCCCTTGTCTTGGAGTGCTCTTGCTATTAAACGTTATTTGTAAT
TTAGTTTGTAGCTCATTAATAAATGTCCTAGTTTTATA

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FIGURE 3660

ATGGATCTGGTGCTAAAAAGATGCCTTCTTCATTTGGCTGTGATAGGTGCTTTGCTGGCTGTGGGGGCTACAAAA
GTACCCAGAAACCAGGACTGGCTTGGTGTCTCAAGGCAACTCAGAACCAGCCTGGAACAGGCAGCTGTATCCA
GAGTGGACAGAAGCCCAGAGACTTGACTGCTGGAGAGGTGGTCAAGTGTCCCTCAAGGTCAGTAATGATGGGCTT
ACACTGATTGGTGCAAATGCCTCCTTCTCTATTGCCTTGAACCTCCCTGGAAGCCAAAAGGTATTGCCAGATGGG
CAGGTTATCTGGGTCAACAATACCATCATCAATGGGAGCCAGGTGTGGGGAGGACAGCCAGTGTATCCCCAGGAA
ACTGACGATGCCTGCATCTTCCCTGATGGTGGACCTTGCCCATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTT
TATGTCTGGAAGACCTGGGGCCAATACTGGCAAGTTCTAGGGGGCCCCAGTGTCTGGGCTGAGCATTGGGACAGGC
AGGGCAATGCTGGGCGACACACACCATGGAAGTGAAGTGTCTACCATCGCCGGGGATCCCGGAGCTATGTGCCTCTT
GCTCATTCCAGCTCAGCCTTCACCATTACTGACCAGGTGCCTTTCTCCGTGAGCGTGTCCAGTTGCGGGCCTTG
GATGGAGGGAACAAGCACTTCCTGAGAAATCAGCCTCTGACCTTTGCCCTCCAGCTCCATGACCCCAGTGGCTAT
CTGGCTGAAGCTGACCTCTCCTACACCTGGGACTTTGGAGACAGTAGTGAACCCTGATCTCTCGGGCACTTGTG
GTCACCTCATACTTACCTGGAGCCTGGCCCAGTCACTGCCCAGGTGGTCTTGCAGGCTGCCATTCTCTCACCTCC
TGTGGCTCCTCCCCAGTTCCAGGCACACAGATGGGCACAGGCCAACTGCAGAGGCCCTTAACACCACAGCTGGC
CAAGTGCCTACTACAGAAGTTGTGGGTACTACACCTGGTCAGGCGCCAACTGCAGAGCCCTCTGGAACCACATCT
GTGCAGGTGCCAACCCTGAAGTCATAAGCACTGCACCTGTGCAGATGCCAACTGCAGAGAGCACAGGTATGACA
CCTGAGAAGGTGCCAGTTTCAGAGGTTCATGGGTACACACTGGCAGAGATGTCAACTCCAGAGGCTACAGGTATG
ACACCTGCAGAGGTATCAATTGTGGTGCCTTTCTGGAACCACAGCTGCACAGGTAACAACCTACAGAGTGGGTGGAG
ACCACAGCTAGAGAGCTACCTATCCCTGAGCCTGAAGGTCCAGATGCCAGCTCAATCATGTCTACGGAAAGTATT
ACAGGTTCCCTGGGCCCCCTGCTGGATGGTACAGCCACCTTAAGGCTGGTGAAGAGACAAGTCCCCCTGGATTGT
GTTCTGTATCGATATGGTTCCCTTTCCGTACCCCTGGACATTGTCCAGGGTATTGAAAGTGCCGAGATCCTGCAG
GCTGTGCCGTCCGGTGAGGGGGATGCATTTGAGCTGACTGTGTCTTGCCAAGGCGGGCTGCCAAGGAAGCCTGC
ATGGAGATCTCATCGCCAGGGTGCCAGCCCCCTGCCAGCGGCTGTGCCAGCCTGTGCTACCCAGCCCAGCCTGC
CAGCTGGTTCTGCACCAGATACTGAAGGTGGCTCGGGGACATACTGCCTCAATGTGTCTCTGGCTGATACCAAC
AGCCTGGCAGTGGTCAGCACCCAGCTTATCATGCCTGGTCAAGAAGCAGGCCTTGGGCAGGTTCCGCTGATCGTG
GGCATCTTGCTGGTGTGATGGCTGTGGTCCTTGATCTCTGATATATAGGCGCAGACTTATGAAGCAAGACTTC
TCCGTACCCCAGTTGCCACATAGCAGCAGTCACTGGCTGCGTCTACCCCGCATCTTCTGCTCTTGTCCATTGGT
GAGAATAGCCCCCTCCTCAGTGGGCAGCAGGTCTGA

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FIGURE 3661

MDLVLRCLLHLAVIGALLAVGATKVPRNQDWLGVSRLRTKAWNRLYPEWTEAQRLLDCWRGGQVSLKVSNDGP
TLIGANASF SIALNFPQSQKVLDPGQVIWVNNTIINGSQVWGGQPVYPQETDDACIFPDGGPCPSGSWSQKRSFV
YVWKTWQYWQVLGGFVSGLSIGTGRAMLGHTMEVTVYHRRGSRSYVPLAHSSSAFTITDQVPFSVSVSQLRAL
DGGNKHFLRNQPLTFALQLHDP SGYLAEADLSYTWDFGDSSGTLISRALVVHTHTYLEPGPVTAQVVLQAAIPLTS
CGSSPVPGTTDGHRTAEAPNTTAGQVPTTEVVGTTPGQAPTAEPSGTTSVQVPTTEVISTAPVQMPTAESTGMT
PEKVPVSEVMGTTLAEMSTPEATGMTPAEVSIVVLSGTTAAQVTTTEWVETTARELPIPEPEGPDASSIMSTESI
TGSLGPLLDGTATLRLVKRQVPLDCVLYRYGSFSVTLDIVQGIESAEILQAVPSGEGDAFELTVSCQGGPLPKEAC
MEISSPGCQPPAQRLCQPVLPSPACQLVLHQILKGGSGTYCLNVSLADTNSLAVVSTQLIMPGQEAGLGQVPLIV
GILLVLMVVLASLIYRRRLMKQDFSVPLPHSSSHWLRLPRIFCSCPIGENSPLLSGQQV

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FIGURE 3662

GGCAGCAGAGAAGAAAGTGGTGAAAATTACATCTGAAATACACAGACTGAGAGAATGCAGAAGAGGGCTGAACG
ATTCAATGTACCTGTGAGCTTGGAGAGTAAGAAAGCTGCTCGGGCAGCTAGGTTTGGGATTTCTTCAGTTCCAAC
AAAAGGTCTGTCATCTGATAACAAACCTATGGTTAACTTGGATAAGCTGAAGGAAAGAGCTCAAAGATTTGGTTT
GAATGTCTCTTCAATCTCCAGAAAGTCTGAAGATGATGAGAAACTGAAAAAGAGGAAGGAGCGATTTGGGATTGT
CACAAGTTCAGCTGGAAGTGAACCACAGAGGATACAGAGGCAAAGAAGAGGAAAAGAGCAGAGCGCTTTGGGAT
TGCCTGATGAAAAGTTCCTGATACTTTCTGTTCTCCAGTGTTTTCCATTTCTCTCCTTCTTCTTGGTCACATATA
TGCCTAAATGCACAGTCATGTGCCTACGTCCTGCCTCGCAATGAGGGAGCATGTACCCAGGTACATCCATGAAC
TGCGGCAGCAGTTTGACTTATTGCTGTTTCAGCTTTAAGGTTGTTGTGTTTTTGTGTTTTTGATTATGTTGCTTGTT
AATAAAAAAAAAATAGAAAAG

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FIGURE 3663

GGCACGAGGGGCCGGGGGCGCAGCTAGAGAGCCCCGAGCCGCGCGGGAGAGGAACGCGCAGCCAGCCTTGGG
AAGCCCAGGCCCGGCAGCC**ATG**GCGGTGGAAGGAGGAATGAAATGTGTGAAGTTCTTGCTCTACGTCCTCCTGCT
GGCCTTTTGCGCCTGTGCAGTGGGACTGATTGCCGTGGGTGTCGGGGCACAGCTTGTCCTGAGTCAGACCATAAT
CCAGGGGGCTACCCCTGGCTCTCTGTTGCCAGTGGTCATCATCGCAGTGGGTGTCTTCCTCTTCCTGGTGGCTTT
TGTGGGCTGCTGCGGGGCCTGCAAGGAGAACTATTGCTTATGATCACGTTTGCCATCTTTCTGTCTCTTATCAT
GTTGGTGGAGGTGGCCGCAGCCATTGCTGGCTATGTGTTTAGAGATAAGGTGATGTCAGAGTTTAATAACAACCTT
CCGGCAGCAGATGGAGAATTACCCGAAAAACAACCACACTGCTTCGATCCTGGACAGGATGCAGGCAGATTTTAA
GTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTTCCATGTCTGAAGAACCGAGTCCCCGACTCCTG
CTGCATTAATGTTACTGTGGGCTGTGGGATTAATTTCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAA
GATTGGGGGCTGGCTGAGGAAAAATGTGCTGGTGGTAGCTGCAGCAGCCCTTGGAATTGCTTTTGTGAGGTTTT
GGGAATTGTCTTTGCCTGCTGCCTCGTGAAGAGTATCAGAAGTGGCTACGAGGTGATG**TAG**GGGTCTGGTCTCCT
CAGCCTCCTCATCTGGGGGAGTGGAATAGTATCCTCCAGGTTTTTCAATTAAACGGATTATTTTTTCAGACCGAA
AAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3664

MAVEGGMKCVKFLLYVLLLAFCAVGLIAGVGGAQLVLSQTIIQGATPGSLLPVVIIAVGVFLFLVAFVGCCGA
CKENYCLMITFAIFLSLIMLVEVAAAÀIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTASILDRMQADFKCCGAAN
YTDWEKIPSMSKNRVPDSCCINVTVGCGINFNEKAHKEGCVKEKIGGWLKKNVLVAAAAALGIAFVEVLGIVFAC
.CLVKSIRSGYEV

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FIGURE 3665

GGCACGAGGAGCTGTGAGGGTCAAGCACAGCTATCCATCAGATGATCTACTTTTCAGCCTTCCTGAGTCCCAGACA
ATAGAAGACAGGTGGCTGTACCCTTGGCCAAGGGTAGGTGTGGCAGTGGTGTCTGCTGTCACTGTGCCCTCATTG
GCCCCAGCAATCAGACTCAACAGACGGAGCAACTGCCATCCGAGGCTCCTGAACCAGGGCCATTACACAGGAGC
ATGCGGCTCCCTGATGTCCAGCTCTGGCTGGTGTCTGCTGTGGGCACTGGTGCGAGCACAGGGGACAGGGTCTGTG
TGTCCCTCCTGTGGGGGCTCCAACTGGCACCCCAAGCAGAACGAGCTCTGGTGTGGAGCTAGCCAAGCAGCAA
ATCCTGGATGGGTTCACCTGACCAGTCGTCCCAGAATAACTCATCTCCACCCAGGCAGCGCTGACCAGAGCC
CTCCGGAGACTACAGCCAGGGAGTGTGGCTCCAGGGAATGGGGAGGAGGTCATCAGCTTTGCTACTGTACAGAC
TCCACTTCAGCCTACAGCTCCCTGCTCACTTTTCACCTGTCCACTCCTCGGTCCCACCACCTGTACCATGCCCGC
CTGTGGCTGCACGTGCTCCCCACCCTTCCTGGCACTCTTTGCTTGAGGATCTTCCGATGGGGACCAAGGAGGAGG
CGCCAAGGGTCCCGCACTCTCCTGGCTGAGCACCACATACCAACCTGGGCTGGCATACCTTAACCTCTGCCCTCT
AGTGGCTTGAGGGGTGAGAAGTCTGGTGTCTGAACTGCAACTAGACTGCAGACCCCTAGAAGGCAACAGCACA
GTTACTGGACAACCGAGGCGGCTCTTGACACAGCAGGACACCAGCAGCCCTTCCTAGAGCTTAAGATCCGAGCC
AATGAGCCTGGAGCAGGCCGGGCCAGGAGGAGGACCCCACTGTGAGCCTGCGACCCCTTATGTTGCAGGCGA
GACCATTACGTAGACTTCCAGGAACTGGGATGGCGGGACTGGATACTGCAGCCCGAGGGGTACCAGCTGAATTAC
TGCAGTGGGCAGTGGCCTCCCCACCTGGCTGGCAGCCAGGCATTGCTGCCTCTTTCCATTCTGCCGTCTTCAGC
CTCCTCAAAGCCAACAATCCTTGCCCTGCCAGTACCTCCTGTTGTGTCCCTACTGCCCGAAGGCCCTCTCTCTC
CTCTACCTGGATCATAATGGCAATGTGGTCAAGACGGATGTGCCAGATATGGTGGTGGAGGCCTGTGGCTGCAGC
TAGCAAGAGGACCTGGGGCTTTGGAGTGAAGAGACCAAGATGAAGTTTCCAGGCACAGGGCATCTGTGACTGGA
GGCATCAGATTCTGATCCACACCCCAACCAACAACCACCTGGCAATATGACTCACTTGACCCCTATGGGACCC
AAATGGGCACCTTTCTTGTCTGAGACTCTGGCTTATTCCAGGTTGGCTGATGTGTTGGGAGATGGGTAAAGCGTTT
CTTCTAAAGGGGTCTACCCAGAAAGCATGATTTCTGCCCTAAGTCTGTGAGAAGATGTCAGGGACTAGGGAGG
GAGGGAGGGAAGGCAGAGAAAAATTACTTAGCCTCTCCCAAGATGAGAAAGTCCTCAAGTGAGGGGAGGAGGAAG
CAGATAGATGGTCCAGCAGGCTTGAAGCAGGGTAAGCAGGCTGGCCCAGGGTAAGGGCTGTTGAGGTACCTTAAG
GGAAGGTCAAGAGGGAGATGGGCAAGGCGCTGAGGGAGGATGCTTAGGGGACCCCAAGAACAGGAGTCAGGAAA
ATGAGGCACTAAGCCTAAGAAGTTCCTGGTTTTTCCAGGGGACAGGACCCACTGGGAGACAAGCATTATATACT
TTCTTTCTTTCTTTTTTATTTTTTTGAGATCGAGTCTCGCTCTGTCAACCAGGCTGGAGTGCAGTGACACGATCTTG
GCTCACTGCAACCTCCGTCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCGAGCAGCTGGGATTACAGGC
GCCCACTAATTTTTGTATTCTTAGTAGAAAACGAGGTTTCAACATGTTGGCCAGGATGGTCTCAATCTCTTGACCT
CTTGATCCACCCGACTTGGCCTCCCGAAGTGATGAGATTATAGGCGTGAGCCACCGCGCCTGGCTTATACTTTCT
TAATAAAAAGGAGAAAGAAAATCAACAAATGTGAGTCATAAAGAAGGGTTAGGGTGATGGTCCAGAGCAACAGTT
CTTCAAGTGTA CTGTAGGCTTCTGGGAGGTCCCTTTTCAGGGGTGTCCACAAAGTCAAAGCTATTTTCATAAT
AATACTAACATGTTATTTGCCTTTTGAATTCTCATTATCTTAAATTTGATTGTGGAGTTTTTCCAGAGGCCGTGT
GACATGTGATTACATCATCTTTCTGACATCATTGTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 3666

MRLPDVQLWLVLWLVRAQGTGSVCPSGGSKLAPQAERALVLELAKQQILDGLHLTSRPRITHPPQAALTRA
LRRLOPGSVAPGNGEVVISFATVTDSTAYSSLLTFHLSTPRSHHLYHARLWLHVLPTLPGTLCIRIFRWGPRRR
RQGSRTLLAEHHITNLGWHTLTLPSSGLRGEKSGVLKLQIDCRPLEGNSTVTGQPRRLD TAGHQQPFLELKIRA
NEPGAGRARRRTP TCEPATPLCCRRDHYVDFQELGWRDWILQPEGYQLNYCSGQCPHLAGSPGIAASFHSAVFS
LLKANNPWPASTSCCVPTARRPLSLLYLDHNGNVVKTDVPDMVVEACGS

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FIGURE 3667

CCCAGACTCCAGCCCTGGACCGCGCATCCCGAGCCCAGCGCCCAGACAGAGTGTCCCCACACCCTCCTCTGAGAC
GCC**ATG**TTTCAACTCGATGACCCCAACCACCAATCAGTAGCTATGGCGAGCCCTGCTGTCTCCGGCCCCCTCCCCAGT
CAGGGGGCCCCCAGTGTGGGGACAGAAGGA^ΔTGTCTGGCCCCCCTTCTGCCACCAAGCTAACCTCATGTCCGGC
CCCCACAGTTATGGGCCAGCCAGAGAGACCAACAGCTGCACCGAGGGGCCACTCTTTTCTTCTCCCCGGAGTGCA
GTCAAGTTGACCAAGAAGCGGGCACTGTCCATCTCACCTCTGTCTGGATGCCAGCCTGGACCTGCAGACGGTTATC
CGCACCTCACCCAGCTCCCTCGTAGCTTTTCATCAACTCGCGATGCACATCTCCAGGAGGCTCCTACGGTCATCTC
TCCATTGGCACCATGAGCCCATCTCTGGGATTCCCAGCCCAGATGAATCACCAAAAAGGGCCCTCGCCTTCCTTT
GGGGTCCAGCCTTGTGGTCCCCATGACTCTGCCCGGGGTGGGATGATCCACATCCTCAGTCCCGGGGACCCCTC
CCAATTGCCAGCTGAAGTCTGAGCTGGACATGCTGGTTGGCAAGTGCCGGGAGGAACCCCTTGGAAGGTGATATG
TCCAGCCCCAACTCCACAGGCATACAGGATCCCCTGTTGGGGATGCTGGATGGGCGGGAGGACCTCGAGAGAGAG
GAGAAGCGTGAGCCTGAATCTGTGTATGAAACTGACTGCCGTTGGGATGGCTGCAGCCAGGAATTTGACTCCCAA
GAGCAGCTGGTGACACCATCAACAGCGAGCACATCCACGGGGAGCGGAAGGAGTTCGTGTGCCACTGGGGGGGC
TGCTCCAGGGAGCTGAGGGCCCTTCAAAGCCCAGTACATGCTGGTGGTTTACATGCGCAGACACACTGGCGAGAAG
CCACACAAGTGACGTTTTGAAGGGTGCCGGAAGTCATACTCACGCCCTCGAAAACCTGAAGACGCACCTGCGGTCA
CACACGGGTGAGAAGCCATACATGTGTGAGCACGAGGGCTGCAGTAAAGCCTTCAGCAATGCCAGTGACCGAGCC
AAGCACCAGAATCGGACCCATTCCAATGAGAAGCCGTATGTATGTAAGCTCCCTGGCTGCACCAAACGCTATACA
GATCCTAGCTCGCTGCGAAAACATGTCAAGACAGTGCATGGTCTGACGCCCATGTGACCAAACGGCACCGTGGG
GATGGCCCCCTGCCTCGGGCACCATCCATTTCTACAGTGGAGCCCCAAGAGGGAGCGGGAAGGAGGTCCCATCAGG
GAGGAAAGCAGACTGACTGTGCCAGAGGGTGCCATGAAGCCACAGCCAAGCCCTGGGGCCCAGTCATCCTGCAGC
AGTGACCACTCCCCGGCAGGGAGTGCAGCCAATACAGACAGTGGTGTGGAAATGACTGGCAATGCAGGGGGCAGC
ACTGAAGACCTCTCCAGCTTGGACGAGGGACCTTGCAATTGCTGGCACTGGTCTGTCCACTCTTCGCCGCTTGAG
AACCTCAGGCTGGACCAGCTACATCAACTCCGGCCAATAGGGACCCGGGGTCTCAAACCTGCCAGCTTGTCCAC
ACCGGTACCACTGTGTCCCGCCGCGTGGGCCCCCAGTCTCTCTTGAACGCCGCAGCAGCAGCTCCAGCAGCATC
AGCTCTGCCTATACTGTACGCCGCGCTCCTCCCTGGCCTCTCCTTTCCCCCTGGCTCCCCACCAGAGAATGGA
GCATCCTCCCTGCCTGGCCTTATGCCTGCCCAGCACTACCTGCTTCGGGCAAGATATGCTTCAGCCAGAGGGGGT
GGTACTTCGCCCCACTGCAGCATCCAGCCTGGATCGGATAGGTGGTCTTCCCATGCCTCCTTGAGAGAAGCCGAGCC
GAGTATCCAGGATACAACCCCAATGCAGGGGTACCCGGAGGGCCAGTGACCCAGCCCAGGCTGCTGACCGTCTCT
GCTCCAGCTAGAGTCCAGAGGTTCAAGAGCCTGGGCTGTGTCCATACCCCACCCACTGTGGCAGGGGGAGGACAG
AACTTTGATCCTTACCTCCCAACCTCTGTCTACTCACACAGCCCCCAGCATCACTGAGAATGCTGCCATGGAT
GCTAGAGGGCTACAGGAAGAGCCAGAAGTTGGGACCTCCATGGTGGGCAGTGGTCTGAACCCCTATATGGACTTC
CCACCTACTGATACTCTGGGATATGGGGGACCTGAAGGGGCAGCAGCTGAGCCTTATGGAGCGAGGGGTCCAGGC
TCTCTGCCTCTTGGGCCTGGTCCACCCACCAACTATGGCCCCAACCCTGTCCCCAGCAGGCCTCATATCCTGAC
CCCACCCAAGAAACATGGGGTGAGTTCCCTTCCCACTCTGGGCTGTACCCAGGCCCCAAGGCTCTAGGTGGAACC
TACAGCCAGTGTCTCGACTTGAACATTATGGACAAGTGCAAGTCAAGCCAGAACAGGGGTGCCAGTGGGGTCT
GACTCCACAGGACTGGCACCCCTGCCTCAATGCCACCCCACTGAGGGGCCCCACATCCACAGCCTCTCTTTTCC
CATTACCCCCAGCCCTCTCCTCCCCAATATCTCCAGTCAGGCCCTATACCCAGCCACCCCTGATTATCTTCTT
TCAGAACCCAGGCCTTGCCTGGACTTTGATTCCCCCACCATTCCACAGGGCAGCTCAAGGCTCAGCTTGTGTGT
AATTATGTTCAATCTCAACAGGAGCTACTGTGGGAGGGTGGGGGCAGGGAAGATGCCCCGCCAGGAACCTTCC
TACCAGAGTCCCAAGTTTCTGGGGGGTTCCAGGTTAGCCCAAGCCGTGCTAAAGCTCCAGTGAACACATATGGA
CCTGGCTTTGGACCCAACCTTGCCCAATCACAAGTCAGGTTCTATCCCACCCCTTACCATGCCATGAAAATTTT
GTAGTGGGGGCAAATAGGGCTTCACATAGGGCAGCAGCACCACTCGACTTCTGCCCCCATTGCCCACTTGCTAT
GGGCCTCTCAAAGTGGGAGGCACAAACCCCACTGTGGTTCATCCTGAGGTGGGCAGGCTAGGAGGGGGTCTGCC
TTGTACCCCTCCTCCGAAGGACAGGTATGTAACCCCTGGACTCTCTTGATCTTGACAACACTCAGCTGGACTTT
GTGGCTATTCTGGATGAGCCCCAGGGGCTGAGTCTCCTCCTTCCCATGATCAGCGGGGCAGCTCTGGACATACC
CCACCTCCCTCTGGGCCCCCAACATGGCTGTGGGCAACATGAGTGTCTTACTGAGATCCCTACCTGGGGAAACA
GAATTCCTCAACTCTAGTGCC**TAA**AGAGTAGGGAATCTCATCCATCACAGATCGCATTTTCTAAGGGGTTTCTAT
CCTTCCAGAAAAATTGGGGGAGCTGCAGTCCCCTGCACAAGATGCCCCAGGGATGGGAGGTATGGGCTGGGGGCT
ATGTATAGTCTGTATACGTTTTGAGGAGAAATTTGATAATGACACTGTTTCTGATAATAAAGGAACTGCATCAG

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FIGURE 3667A

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FIGURE 3668

MFNSMTPPPISSYGEPCCLRPLPSQGAPSVGTEGLSGPPFCHQANLMSGPHSYGPARETNSCTEGPLFSSPRSAV
KLTKKRALSISPLSDASLDLQTVIRTSPSSLVAFINSRCTSPGGSYGHLSIGTMSPSLGFPAQMNHQKGPSPSFG
VQPCGPHDSARGGMIPHPQSRGPFPTCQLKSELDMLVGKCREEPLEGDMSSPNSTGIQDPLLGM LDGREDLEREE
KREPESVYETDCRWDGCSQEFDSQEQLVHHINSEHIHGERKEFVCHWGGCSREL RPFKAQYMLVVHMR RHTGEKP
HKCTFEGCRKSYSRLENL KTHLR SHTGEKPYMCEHEGCSKAFSNASDRAKHQNRTHSNEKPYVCKLPGCTKRYTD
PSSLRKHVKT VHGPD AHVTKRHRGDG PLPRAPSISTVEPKREREGGP IREESRLTVPEGAMK PQSPGAQSSCSS
DHSPAGSAANTDSGVEMTGNAGGSTEDLSSLDEGP CIAGTGLSTLRRLENLR LDQLHQLRP IGT RGLKLP SLSHT
GTTVSRRVGP PVS LERRSSSSSSSISSAYTVSRRSSLASFPFP GSPPENGASSLPGLMPAQHYLLRARYASARGGG
TSPTAASSLDRIGGLPMP PWSRAEYPGYNPNAGVTRRASDPAQAADRPAPARVQRFKSLGCVHTPPTVAGGGQN
FDPYLP TSVYSPQPPSITENAAMDARGLQEEPEVGTSMVGSGLN PYMDFPPTDTLGYGGPEGAAAEPYGARGPGS
LPLGPGPPTNYGPNPCPQQASYPDPTQETWGEF PSHSGLYPGPKALGGTYSQCPRL EHYQVQVKPEQGCPVGS
STGLAPCLNAHPSEGPPHPQPLFSHY PQSP PQYLQSGPYTQPPPDYLPSEPRPCLDFD SP THSTGQLKAQLVCN
YVQSQQEELLWEGGGREDAPAQEPSYQSPKFLGGSQVSP SRAKAPVNTYGP GFGNLPNHKSGSYPTSPCHENFV
VGANRASHRAAAPRLLPPLPTCYG PLKVGGTNP SCGHPEVGR LGG GPALYPPPEGQVCNPLDSL DLDNTQLDFV
AILDEPQGLSPPPSHDQRGSSGHTPPPSGPPNMAVGNM SVLLRSLPGETEFLNSSA

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FIGURE 3669

ATCAGCGAGGGATTACAGGCGAAATGAGACTGTTTCGTGAGTGATGGCGTCCCGGGTTGCTTGCCGGTGCTGGCCG
CCGCCGGGAGAGCCCCGGGGCAGAGCAGAGGTGCTCATCAGCACTGTAGGCCCGGAAGATTGTGTGGTCCCGTTCC
TGACCCGGCCTAAGGTCCCTGTCTTGAGCTGGATAGCGGCAACTACCTCTTCTCCACTAGTGCAATCTGCCGAT
ATTTTTTTTTTGTATCTGGCTGGGAGCAAGATGACCTCACTAACCAGTGGCTGGAATGGGAAGCGACAGAGCTGC
AGCCAGCTTTGTCTGCTGCCCTGTACTATTTAGTGGTCCAAGGCAAGAAGGGGGAAGATGTTCTTGTTTCAGTGC
GGAGAGCCCTGACTCACATTGACCACAGCTTGAGTCGTCAGAACTGTCCTTTCTGGCTGGGGAGACAGAATCTC
TAGCCGACATTGTTTTGTGGGGAGCCCTATACCCATTACTGCAAGATCCCGCTACCTCCCTGAGGAGCTGAGTG
CCCTGCACAGCTGGTTCAGACACTGAGTACCCAGGAACCATGTCAGCGAGCTGCAGAGACTGTACTGAAACAGC
AAGGTGTCCTGGCTCTCCGGCCTTACCTCCAAAAGCAGCCCCAGCCCAGCCCCGCTGAGGGAAGGGCTGTCACCA
ATGAGCCTGAGGAGGAGGAGCTGGCTACCCTATCTGAGGAGGAGATTGCTATGGCTGTTACTGCTTGGGAGAAGG
GCCTAGAAAAGTTTGCCCCGCTGCGGCCCCAGCAGAATCCAGTGTTGCTGTGGCTGGAGAAAGGAATGTGCTCA
TCACCAGTGCCCTCCCTTACGTCAACAATGTCCCCACCTTGGGAACATCATTGGTTGTGTGCTCAGTGCCGATG
TCTTTGCCAGTACTCTCGCCTCCGCCAGTGGAACACCCTCTATCTGTGTGGGACAGATGAGTATGGTACAGCAA
CAGAGACCAAGGCTCTGGAGGAGGGACTAACCCCCAGGAGATCTGCGACAAGTACCACATCATCCATGCTGACA
TCTACCGCTGGTTTAACATTTTCGTTTGATATTTTTGGTTCGCACCACCACTCCACAGCAGACCAAAATCACCCAGG
ACATTTTCCAGCAGTTGCTGAAACGAGGTTTTGTGCTGCAAGATACTGTGGAGCAACTGCGATGTGAGCACTGTG
CTCGCTTCCTGGCTGACCGCTTCGTGGAGGGCGTGTGTCCCTTCTGTGGCTATGAGGAGGCTCGGGGTGACCAGT
GTGACAAAGTGTGGCAAGCTCATCAATGCTGTGAGCTTAAGAAGCCTCAGTGTAAGTCTGCCGATCATGCCCTG
TGGTGCAGTCGAGCCAGCACCTGTTTCTGGACCTGCCTAAGCTGGAGAAGCGACTGGAGGAGTGGTTGGGGAGGA
CATTGCCTGGCAGTGACTGGACACCCAATGCCAGTTTATCACCCGTTCTTGGCTTCGGGATGGCCTCAAGCCAC
GCTGCATAACCCGAGACCTCAAATGGGGAACCCCTGTACCCTTAGAAGGTTTTGAAGACAAGGTATTCTATGTCT
GGTTTGATGCCACTATTGGCTATCTGTCCATCACAGCCAACTACACAGACCAGTGGGAGAGATGGTGAAGAACC
CAGAGCAAGTGGACCTGTATCAGTTTCATGGCCAAAGACAATGTTCCCTTTCCATAGCTTAGTCTTTCTTGCTCAG
CCCTAGGAGCTGAGGATAACTATACCTTGGTTCAGCCACCTCATTGCTACAGAGTACCTGAACTATGAGGATGGGA
AATTCTCTAAGAGCCGCGGTGTGGGAGTGTGTTGGGGACATGGCCCAGGACACGGGGATCCCTGCTGACATCTGGC
GCTTCTATCTGCTGTACATTTCGGCCTGAGGGCCAGGACAGTGCTTTCTCCTGGACGGACCTGCTGCTGAAGAATA
ATTCTGAGCTGCTTAACAACCTGGGCAACTTCATCAACAGAGCTGGGATGTTTGTGTCTAAGTTCTTTGGGGCT
ATGTGCCTGAGATGGTGCTCACCCCTGATGATCAGCGCCTGCTGGCCCATGTACCCCTGGAGCTCCAGCACTATC
ACCAGCTACTTGAGAAGGTTTCGGATCCGGGATGCCTTGCGCAGTATCCTCACCATATCTCGACATGGCAACCAAT
ATATTAGGTGAATGAGCCCTGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTG
GCTTGGCAGTGAATATAGCTGCCTTGCTCTCTGTATGCTTCAGCCTTACATGCCACGGTTAGTGCCACAATCC
AGGCCAGCTGCAGCTCCACCTCCAGCCTGCAGTATCCTGCTGACAAACTTCCTGTGTACCTTACCAGCAGGAC
ACCAGATTGGCACAGTCAGTCCCTTGTTCAAAAATTGGAATGACCAGATTGAAAGTTTAAGGCAGCGCTTTG
GAGGGGGCCAGGCAAAACGTCCCCGAAGCCAGCAGTTGTAGAGACTGTTACAACAGCCAAGCCACAGCAGATAC
AAGCGCTGATGGATGAAGTGACAAAACAAGGAAACATTGTCCGAGAAGTGAAGCACAAAAGGCAGACAAGAACG
AGGTTGCTGCGGAGGTGGCGAACTCTTGATCTAAAGAAACAGTTGGCTGTAGCTGAGGGGAAACCCCTGAAG
CCCCTAAAGGCAAGAAGAAAAAGTAAAGACCTTGGCTCATAGAAAGTCACTTTAATAGATAGGGACAGTAATAA
ATAAATGTACAATCTCTATA

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FIGURE 3670

MRLFVSDGVPGLPVLAAAGRARGRAEVLISTVGPEDCVVPFLTRPKVPVLQLDSGNYLFSTSAICRYFFLLSGW
EQDDL TNQWLEWEATELQPALSAALYYLVVQGKKGEDVLGSVRRALTHIDHSLSRQNC PFLAGETESLADIVLWG
ALYPLLQDPAYLPPEELSALHSWFQTLSTQEPQRAAETVLKQQGV LALRPYLQKQPQSPAEGRAVTNEPEEEEL
ATLSEEEIAMAVTAWEEKGLESPLPLRPQQNPVLPVAGERNVLITSALPYVNNVPHLGNIIGCVLSADVFARYSRL
RQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHAD IYRWFNISFDIFGRTTTTPQQTKITQDIFQQLLK
RGFVLQDTVEQLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDKCGKLINAVELKKPQCKVCRSCPVVQSSQHL
FLDLPKLEKRLEEWLGRTLPGSDWTPNAQFITRSWLRDGLKPRCITRDLKWGTPVPLEGFEDKV FYVWF DATIGY
LSITANYTDQWERWWKNPEQVDLYQFMAKDNVPPFHSLVFPC SALGAEDNYTLVSHLIATEYLN YEDGKF SKSRGV
GVFGDMAQDTGIPADIWRFYLLYIRPEGQDSAFSWTDLLLKNNSELLNNLGNFINRAGMFVSKFFGGYVPEMVL T
PDDQRLLAHV TLELQHYHQLLEKVRIRDALRSILTISR HGNQYIQVNEPWKRIGSEADRQRAGTVTGLAVNIAA
LLSVMLQPYMPTVSATIQAQLQLPPPAC SILLTNFLCTLPAGHQIGTVSPLFQKLENDQIESLRQRF GGGQAKTS
PKPAVVETVTTAKPQQIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPEAPKGKKKK

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FIGURE 3671

AGAGACTTAAGTCTAAGGCACTGAGCGTATCATGTTAAAGATGAGCGGGTGGCAGCGACAGAGCCAAAATCAGAG
CTGGAACCTGAGGAGAGAGTGTTCAAGAAGGAAGTGTATCTTCATACATCACCACACCTGAAAGCAGGCATCAGA
CCAGCTTGCCAACTTGTGGCATAGACTGTTTGCTACATGGAGCTTGTTCAGCCACTCCCCATTATCCTGCAGAT
GTGCTTTTCCAGACTGATCCAACCTGCAGAGATGGCAGCTGAGTCATTGCCTTTCTCCTTCGGGACACTGTCCAGC
TGGGAGCTGGAAGCCTGGTATGAGGACCTGCAAGAGGTCCTGTCTTCAGATGAAAATGGGGGTACCTATGTTTCA
CCTCCTGGAATGAAGAGGAAGAATCAAAAATCTTCACCACTCTTGACCCTGCTTCTCTGGCTTGGCTGACTGAG
GAGGAGCCAGAACCAGCAGAGGTCACAAGCACCTCCCAGAGCCCTCACTCTCCAGATTCCAGTCAGAGCTCCCTG
GCTCAGGAGGAAGAGGAGGAAGACCAAGGGAGAACCAGGAAAACGGAAAACAGAGTGGTCATTCCCCAGCCCGGGCT
GGAAAGCAGCGCATGAAGGAGAAAGAACAGGAGAATGAAAGGAAAAGTGGCACAGCTAGCTGAAGAGAATGAACGG
CTCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGGTGAAT
CTGCACCAAGCATGAACAATTGGGAGCAICAGTCCCCCACTTGGGCCACACTACCCACCTTTCCAGAAGTGGCT
ACTGACTACCCTCTCACTAGTGCCAATGATGTGACCCTCAATCCCACATACGCAGGGGGAAGGCTTGGAGTAGAC
AAAAGGAAAGGTCTCAGCTTGTATATAGAGATTGTACATTTATTTATTACTGTCCCTATCTATTAAAGTGACTTT
CTATGA

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FIGURE 3672

ATGCGCGGGAGGCCGCTCGGTGATCCGCGGCGGCGGCAGCGGCGCTTCCTGCTAGGACCGGCCGGGGCCGTACCG
GAGGCTCGGGCTCCACCGACCTCCTCCCACCCCTCCCACTCACCCTCTGGGCCGCGACTGCGCAGGGCGGGGC
CGGCCGAACCATGGGCCGCGGTGTGGGCTAAGCTGGTGGCCCCGGCTTTAGACTGGACCCCACAATGTTTGCAGA
GATGTTTCAGGCACGCGGGAGCTGATTACACACAATGAATGGGGGCAATGAGAGCAGTGAGACAGACAGAGCTGGG
GGCCCTGTGGCCACATCTGTCCCCATCGGCTGGCAGCGCTGTGTGCGAGAGGGTGCTGTGCTCTACATCAGTCCA
AGTGGCACAGAGCTGTCTTCCTTGGAGCAAACCCGGAGCTACCTCCTCAGCGATGGGACCTGCAAGTGCGGTCTG
GAGTGTCCACTTAATGTCCCCAAGGTTTTCAACTTTGACCCCTTGGCCCCGGTGACCCCGGGTGGGGCTGGGGTG
GGGCCAGCATCAGAGGAGGACATGACCAAGCTGTGCAACCACCGGCGGAAAGCTGTTGCTATGGCAACTCTGTAC
CGCAGCATGGAGACCACCTGCTCACACTCTTCTCCTGGAGAGGGAGCGAGCCCCCAATGTTCCACACTGTGTCC
CCAGGGCCCCCTCTGCCCGCCCTCCCTGTGAGTTTCTCCTACAACCTCACTTAATGGGGGTCTTGCTCCCTT
CCCCCAGAACCACCTCAGTTTCCCAGGCCTTTCCCACTCTAGCAGGCCCTGGGGGGCTTTTCCCCCAAGGCTT
GCTGACCCAGTCCCTTCTGGGGGCAGTAGCAGCCCCCGTTTCTCCCAAGGGGCAATGCCCCCTCTCCAGCCCCA
CCTCCTCCACCTGCTATCAGCCTCAATGCTCCCTCATACAACCTGGGGAGCTGCCCTCAGATCCAGCCTGGTGCCC
TCTGACCTGGGCTCTCCTCCGGCCCCCTCATGCCTCCTCCTCACCACCTTCAGACCCTCCTCTCTTCCACTGTAGT
GATGCCTTAACACCCCTCCCTGCCCCGAGCAATAATCTCCCCGCCACCCTGGTCTCTGCCTCTCAGCCACCA
GIGTCTTCAGCCACTATGCACCTGCCCTGGTCTGGGGCCCCCTGGGAGGGGGCCCCACGGTGAGGGGCCTGGG
GCACCCCTTCTCTGCTAGCAGCCTACTCTCTGCAGCGGCCAAGGCACAGCATCCCCACTACCCCTCCCAGC
ACTTTACAGGGCCGAAGGCCCGTGCCAGGCACCTCAGCTTCCCACTCCTCATCACTTCGTCCCTCTCAGCGT
CGTCCCCGAGACCCCTACTGTATTTGATTGCTAGAAGGGAGAGGCCCTCAAACCCCTAGACGGAGCCGTCCT
CGGGCCCCCTGCTCCTGTCCCCAACCCTTTTCTCTCCCGAGCCATCCCAACCAATTCTCCCTTCTGTGCTGTCC
CTGCTGGGACTCCCCACCCCTGGCCCTTCCCACTCTGATGGAAGCTTTAACCTTTTGGGGTCAGATGCACACCTT
CCTCCTCCCCCAACCCTCTCCTCAGGGAGCCCTCCCCAGCCAGGCACCCCATCCAGCCCTCCCTGCCTGGGACC
ACCAGTGGCAGCCTCAGCAGTGTGCCAGGTGCCCTGCCCAACCAGCTGCCTCCAAAGCCCCAGTAGTCCCCAGC
CCTGTGCTTCAAAGCCCATCCGAAGGACTGGGGATGGGGGCAGGCCCGGCCTGCCCTCTGCCTCCCCTGGCTGGT
GGAGAGGCTTTCCCTTTCCCAGCCCTGAGCAGGGCCTGGCACTGAGTGGAGCTGGCTTCCCTGGGATGCTTGGG
GCCTTGCTCTCCCTCTGAGTCTGGGGCAGCCTCCACCTTCTCCATTGCTCAACCACAGTTTTATTTGGTGTGCTG
ACTGGGGGAGGAGGACAACCTCCCCCTGAGCCCTGCTACCCCCACCAGGAGGACCTGGTCTCCCTAGCCCCA
GGAGAGCCTGAAGGGCCTTCGCTTTTGGTGGCTTCTTGCTTCCCTCCACCACCTCAGACCTTCTTCCACCTCCT
TCAGCACCTCCCAGCAACCTCCTTGCTCTTTTCTGCCCCTGTTGGCTCTGGGCCCCACAGCTGGGGATGGGGAG
GGATCTGCAGAGGGAGCCGGGGGTCCAAGTGGGGAGCCATTTTTCAGGCTTGGGAGACCTGTCCCCCTACTTTTC
CCCCACTTTTCAGCCCCCTTACCCTCATAGCTTTAAATTCTGCGCTGCTGGCTGCCACCTGGATCCCCCTCG
GGGACACCCCCCAGCCCTGTGTCTGAGTGCCCCCAACCTGGACCACCTACCTCCAGTGTACCACGGCAACT
ACTGACCCGGGGCCTCCTCTCTGGGCAAGGCCCTCCAACTCAGGGAGACCCCCCAACTCCTTAGCCCTCTG
CTGGGTGCCAGCCTGCTGGGTGACCTGTCTTCACTGACCAGCAGCCCTGGAGCCCTCCCCAGCCTGTTGCAGCCT
CCTGGCCCTCTTCTCTCTGCCCAGTTGGGGCTGCAGCTCCTCCCTGGGGGGGAGCTCCTCCACCCCTCTCAGAG
GCTTCTAGTCCCCTAGCCTGCCTGCTACAGAGTCTCCAGATCCCTCCAGAGCAGCCAGAAGCCCCCTGTCTACCC
CCGAGAGCCCTGCCTCAGCCCTCGAACCAGAGCCTGCCAGGCCTCCCTCAGTGCCTTAGCCCCACCCATGGT
TCTCCCGACCCCCCAGTCCCTGAGCTGCTCACTGGGAGGGGGTCAGGGAAACGGGGCCGGAGGGGAGGAGGGGA
CTTAGGGGCATTAATGGTGAGGCCAGGCCAGCCGGGGCCGAAAGCCTGGCAGCCGGCGGGAGCCTGGCCGACTG
GCCCTCAAATGGGGGACACGTGGTGGCTTCAATGGACAAATGGAAAGGTCCCCAAGAAGAACCACCATTTGGCAG
CATAATGGGGAGCTGGCTGAAGGGGTGCTGAGCCCAAGGATCCACCCCTCCCGGGCCCCATTCTGAGGACCTT
AAGGTGCCCCCGGAGTAGTCAGAAAGTCTCGTCGTGGCCGTAGGAGAAAATACAACCCTACCCGGAACAGCAAT
AGCTCCCGCCAGGACATTACCTTGGAACCCAGCCCTACAGCCCGAGCAGCTGTCCCTCTGCCTCCCCGGGCCCGC
CCTGGCCGTCTTGCCAAAAACAAGAGGAGGAACTGGCCCCATAGCAGCCATACCTGGAGCTGGATCTGACCCTG
ATTGGGGAGAGCTGAGTGTGAGCCTTGGGAGCCCCCTGCCAGCCACCTGCACCTGCTGCCCTCCTTCCCAGTGAA
AGAGACGTTGTGATGATGCGACTGAGGATTATGCAACGTGGTCCAACCGGAGCGGCCAGCATGACCAGCTGTCCA
GGGGCTGCCTCCTGCCTTTTCTTTTGTAAAGACAAGACCCTTGGGAGTTTTTAATTCTGTTTTGTACTTGCCCTGT
GGGGCCTCCACTGCTTTTCTATGGGAGACACTCTTAATTTAACAGATGAGAATATTTTGAAACTCTG

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FIGURE 3673

MEALTFWQMHTFLLPQPSPQGALPSPGTPSSPPCLGPPVAASAVCQVPLPHQLPPKPHVVPSPVLQSPSEGLGM
GAGPACPLPPLAGGEAFPPPSPEQGLALSGAGFPGMLGALPLPLSLGQPPPSPLLNHSLFGVLTGGGGQPPPEPL
LPPPGGPGPPLAPGEPEGPSLLVASLLPPPSDLLPPPSAPPSNLLASFLLALGPTAGDGECSAEGAGGPSGE
PFSGLDLSPLLFPPLSAPPTLIALNSALLAATLDPPSGTTPQPCVLSAPQPGPPTSSVTTATDPGASSLGKAP
SNSGRPPQLLSPLLGAALLGDLSSLTSSPGALPSSLQPPGPLLSGQLGLQLLPGGGAPPPLSEASSPLACLLQSL
QIPPEQPEAPCLPPESPASALEPEPARPPLSALAPPHGSPDPPVPELLTGRGSGKRGRRGGGGLRGINGEARPAR
GRKPGSRREPGRALALKWGTRGGFNGQMERSPRRTHHWQHNGELAEGGAEPKDPPPPGPHSEDLKVPPGVVRKSRR
GRRRKYNPTRNSNSSRQDITLEPSPTARGAVPPTTRARPGRPAKNKRRKLT

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FIGURE 3674

GAGACTTCCTGCTCATCTGCCGCTCCCTTTGCCGCGCCTTAGCCCCGGGACCCGAACCCAGCCTCTCCCCCTACCC
GAACACCGGCCCCGGCTCCACCGAGGCCCGGGTCCCCCAGCCCGTCTCGCCGCGCCCATGGCGGACCCCTAAATAC
GCCGACCTTCCCGGCATTGCCAGGAATGAGCCAGATGTTTATGAAACTAGCGACCTACCTGAGGATGATCAAGCG
GAGTTCGATGCGXXXXXXXXXXXXXGAGGAGCTGACAAGCACAAGTGTGGAACACATCATTGTCAATCCTAAT
GCTGCCTATGACAAGTTCAAGGACAAGAGAGTGGGGACAAAGGGACTTGATTTCTCAGATCGTATTGGAAAAACC
AAGAGGACAGGATATGAATCTGGAGAATATGAGATGCTTGGAGAGGGTCTGGGAGTGAAGGAGACACCCCAGCAA
AAGTACCAGCGCCTACTGCATGAGGTCCAAGAGCTGACAACTGAAGTTGAAAAAATCAAGACGACAGTGAAGGAG
TCAGCCACAGAGGAGAAGCTGACCCCTGTGTTGCTGGCTAAACAGCTGGCAGCCCTGAAGCAGCAGCTGGTTGCT
TCCCACCTGGAGAAGCTGCTGGGACCAGATGCTGCAATCAACCTTACCGACCCCGATGGCGCCCTGGCTAAGCGC
CTACTACTGCAGCTGGAAGCAACAAAGAACAGCAAAGGGGGATCAGGGGGAAAAACCCTGGGACCCCCCAGAT
AGCAGCCTTGTCACCTTATGAACTACATTCTCGGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTCGCAGAA
CTTGAAAAGCGCCTGACAGAGCTGGAGACAGCTGTACGTTGTGATCAGGATGCTCAGAATCCCCCTTTCTGCAGGT
CTACAGGGAGCCTGTCTCATGGAGACTGTAGAGCTGTTGCAAGCAAAGGTGAGCGCCCTAGACCTTGCAGTTTTG
GATCAAGTGGAGGCTCGGCTACAGAGTGTCTGGGAAAGGTGAACGAGATTGCCAAGCATAAAGCCTCTGTAGAA
GATGCAGATACACAAAGCAAGGTGCACCAGCTATATGAAACTATACAGCGCTGGAGCCCCATTGCCTCCACCCTC
CCTGAGCTGGTGCAGAGACTTGTACCATCAAGCAGCTGCACGAGCAAGCCATGCAGTTTGGTCAGCTCCTGACA
CACTTGGATACCACCCAGCAGATGATTGCTAATTCCTTGAAGGACAATACCACCCTCTTGACCCAGGTGCAGACA
ACCATGCGTGAAAACCTGGCCACAGTTGAGGGGAACCTTTGCCAGCATTGATGAACGGATGAAGAAGCTGGGAAAG
TGAGCACATTTGGGAGCTGGAGAACAGGGGTATCCCTACCCCTGTGAACTCTGTTAACAGCTTACATAGGGTTT
CCCCCTTTACTATAACTCTAGCATCCCCATCCATTTGACACTGGGGGCAAGGGTTCTTCTTGCATGTGGGGTTTA
TACCCCTCCCCTGATGAATACAGAGTGGTAGCTAGGGGTTGGTTATCATCAGAAGGTGGTCTCCCCTCAGGCCTG
GGGATAAGGACGTGGGCCCAGCCACATGCCAACTCATGTCCAATACTGCTTGCCTGGTGTGGGAAGGATTGG
GTCTTGTCCCCCAACACAGCTTCTGTGGCTGACTGTAATACTGTACAACCTGTTTCTGACCATTAAATGCTGTTGT
ACTCTG

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FIGURE 3675

MLGEG LGVKETPQQKYQRLLEHVQELTTEVEKIKTTVKESATEEKLPVLLAKQLAALKQQLVASHLEKLLGPDA
AINLTDPDGALAKRLLQLLEATKNSKGGSGGKTTGTPDSSLVTYELHSRPEQDKFSQAQKVAELEKRLTELETA
VRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQVEARLQSVLGKVNEIAKHKASVEDADTQSKVHQL
YETIQRWSPPIASTLPPELVQRLVTIKQLHEQAMQFGQLLTHLDTTQOMIANSIKDNTTLLTQVQTTMRENLATVEG
NFASIDERMKKLGK

[illegible]

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FIGURE 3677

MLEPALATGEELPELTLLTTLLEGPDKTQPPEEETLSQAPESEEEEQKKKALERSMYVLSELVETEKMYVDDLQQ
IVEGYMATMAAQGVPESLRGRDRIVFGNIQQIYEWHRDYFLQELQRCLKDPDWLAQLFIKHERRLHMYVVYCQNK
PKSEHVVSSEFGDSYFEELRQQLGHRQLNDLLIKPVQRIMKYQLLLKDFLKYYNRAGMDTADLEQAVEVMCFVPK
RCNDMMTLGRLRGFEGKLTAAQGKLLGQDTFWVTEPEAGGLSSRGRERRVFLFEQIIIFSEALGGGVGGTQPGY
VYKNSIKVSCLGLEGNLQGDPCRFAITSRGPEGGIQRYVLQAADPAISQAWIKHVAQILESQRDFLNALQSPIEY
QRRESQTNSLGRPRGPGVGSPGRIRLGDQAQGSTHTPINGSLSLSSPKGEVARALLPLDKQALGDIPQAPHDS
PPVSPTPKTPPCQARLAKLDEDEL

FIGURE 3678

TTGCACTCTCCCAACACCCCTTTTCTTTTCGTCGCGCTCTTCGCTTATTTCTCCCGCGCTCTCCTCTGCATAAAGAAGG
GGAACGAAAG**ATGG**CGCGCGGAAACGCTGCTGTCCAGTTTGTTAGGACTGCTGCTTCTGGGACTCCTGTTACCCGC
AAGTCTGACCGGCGGTGTCTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
GTTGCCTGTATGGGAGGGCAGAGCCAATCTTCGGACGTGGTGATTGTCTCCTCTAAGTACAAACAGCGCTATGA
GTGTCGCCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGGAAACACCTGCTTACCAAGGGCCTGG
GATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGCTGAAGACAAAGGACTGGTGGACATATGAATT
CTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGTGAAGTCTCTATCTCGGCTA
CTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCCTCCAAGCAGCATCGTCTTAAACGCTACCACAG
CCAGACCTATGGCAATGGGTCCAAGTGCACCTTAATGGGAGGCCCGGGAGGCCGAGGTTCCGTTCTCTGTGA
CGAGGGTGCAGGTATCTCTGGGGACTACATCGATCGCGTGGACGAGCCCTTGCTCCTGCTCTTATGTGCTGACCAT
TCGCACTCCTCGGCTCTGCCCCACCCCTCTCCTCCGGCCCCCACCCAGTGCTGCACCACAGGCCATCCTCTGTCA
CCCTTCCCTACAGCCTGAGGAGTACATGGCCTACGTTTCAAGGCAAGCCGACTCAAAGCAGTATGGAGATAAAAT
CATAGAGGAGCTGCAAGATCTAGGCCCCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCCCAAAAGATGGC
AGGTGCGAGCCCCGACCAAGGATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGC
CCCAGGAGGGGAGGAGGTGCCGGCTGAGGAGCAGGACCCAAGCCCTGAGGCAGCAGATTACGCTTCTGGTGCTCC
CAATGATTTTCAGAACAACTGTCAGGTCAAAGTCATTCTGAAGCCCTGCGGATTTGATTTCGATTTCATAGAGGAGCT
GAAAGGTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCA
GAGGGAACCAGAGAAGGAAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGATGAGGA
TGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAAGTGGAAAGGGATCCTGCTTCCGTC
AGACCGAGACCGGCTCCGTTTCGGAGGTGAAGGCTGGCATGGAGCGGGAAGTGGAGAACATCATCCAGGAGACAGA
GAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTCAGAGCGGGATCGGGCAATGCTGGCTCTCACATCCACTCT
CAACAAACTCATCAAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAAAGAGGGTTGT
CCCCAAAAAGCCTCCCCCATCACCCCAACCTACAGAGGAGGATCCTGAGCACAGAGTCCGGGTCCGGGTACACCA
GCTCCGCTCTCGGAGGCCCTAATCAGGATCTGACTGTCTTCGAGATGAAACGGGAAAACCCACAGCTGAAACAAAT
CGAGGGGCTGGTGAAGGAGCTGCTGGAGAGGGAGGGACTCACAGCTGCAGGGAAAATTGAGATCAAATTGTCCG
CCCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACGAGAAACCTCAAGGAGATCTT
CTTCAATATCTTGGTGCCGGGAGCTGAAGAGGGCCAGAAGGAACGCCAGCGGCAGAAAGAGCTGGAGAGCAATTA
CCGCCGGGTGTGGGGCTCTCCAGGTGGGGAGGGCACAGGGGACCTGGACGAATTTGACTTCT**TGAG**ACCAACACTA
CACTTGACCCCTTCACGGAATCCAGACTCTTCCTGGACTGGCTTGCCTCCTCCCCACCTCCCCACCCTGGAACCCC
TGAGGGCCAAACAGCAGAGTGGAGCTGAGCTGTGGACCTCTCGGGCAACTCTGTGGGTGTGGGGGCCCTGGGTGA
ATGCTGCTGCCCTGCTGGCAGCCACCTTGAGACCTCACCGGGCCTGTGATATTTGCTCTCCTGAACTCTCACTC
AATCCTCTTCTCTCTCTGTGGCTTTTCTGTTATTGTCCCCTAATGATAGGATATTCCCTGCTGCCTACCTGG
AGATTAGTAGGATCTTTTGGTGGAGGTGGGTAGAGAGAGCAAGGAGGGCAGGACACTTAGCAGGCACTGAGCA
AGCAGGCCCCCACCTGCCCTTAGTGATGTTTGGAGTCGTTTTACCCTCTTCTATTGAATTGCCTTGGGATTTCCT
TCTCCCTTTCCCTGCCACCCTGTCCCTACAATTTGTGCTTCTGAGTTGAGGAGCCTTCACCTCTGTTGCTGAG
GAAATGGTAGAATGCTGCCTATCACCTCCAGCACAAATCCCAGCGAAAAAGGTGTGAAGCACCCACCATGTTCTTG
AACATCAGGTTTCTAAATAAACAAGTGGACCATCA

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FIGURE 3679

MAAETLLSSLLGLLLLGLLLLPASLTGGVGSNLNLEELSEMRYGIEILPLPVMGGQSQSSDVVIVSSKYKQRYECRL
PAGAIHFQREEREETPAYQGPGIPELLSPMRDAPCLLKTCDWWTYEFCYGRHIQQYHMEDSEIKGEVLYLGYYQS
AFDWDEETAKASKQHRLKRYHSQTYGNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRVDEPLSCSYVLTIRTP
RLCPHPLLRRPPPSAAPQAILCHPSLQPEEYMAVQRQADSKQYGDKIIIEELQDLGPQVWSETKSGVAPQKMAGAS
PTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDFQNNVQVKVIRSPADLIRFIEELKGG
TKKGKPNIGQEQPVDDAAEVPOREPEKERGDPERQREMEEEDEDEDEDEDEDERQLLGEFEKELEGILLPSDRD
RLRSEVKAGMERELENIIQETEKELDPDGLKKESEDRAMLALTSTLNKLIKRLLEEKQSPELVKKHKKRVPKK
PPSPQPTTEEDPEHRVRVRVTKLRLGGPNQDLTVLEMKRENPKLQIEGLVKELLEREGTLAAGKIEIKIVRPWA
EGTEEGARWLTDEDTRNLKEIFFNILVPGAEEAQKERQRQKELESNYRRVWGSPGGEGTGDLDEFDF

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FIGURE 3680

GATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAAGTGGGAAGGGATCCTGCTTCCGTCAGACCGAGACCTGCTG
CCTACCTGGAGATTCAGTAGGATCTTTTGAGTGGAGGTGGGTAGAGAGAGCAAGGAGGGCAGGACACTTAGCAGG
CACTGAGCAAGCAGGCCCCCACCTGCCCTTAGTGATGTTTGGAGTCGTTTTACCCTCTTCTATTGAATTGCCTTG
GGATTCCTTCTCCCTTTCCTGCCCCACCTGTCCCCTACAATTTGTGCTTCTGAGTTGAGGAGCCTTCACCTCT
GTTGCTGAGGAAATGGTAGAATGCTGCCTATCACCTCCAGCACAAATCCCAGTGAAAAAGGTGTGAAGCACCCACC
ATGT

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FIGURE 3681

AATCCAGAGGCAGGGGAGGGACGGTGCAGGCGCAGAGTATTGGGTTTGGCTGGCCTCGATTTAAAGAGACAGAAG
CTGTCGGGGTCCTGGAAGACGGTCCCCAATACCCTCCCCCAAGTCCTTGGGACCACTTGGGTCCCCAGAGCTGG
GGAGATGGTTTGTGGCGGCTTTGCCTGCTCCAAGAATGCGCTTTGCGCTCTCAACGTGGTCTACATGCTGGTGAG
CTTGTTGCTCATTGGAGTGGCTGCTTGGGGCAAGGGCCTGGGTCTGGTGTCCAGCATCCACATCATCGGCGGAGT
CATTGCTGTGGGAGTCTTCCTTCTCCTTATTGCAGTGGCTGGACTGGTGGGTGCTGTCAACCACCACCAAGTCCT
GCTGTTCTTTTACATGATCATCCTTGGTTTGGTCTTCATCTTCCAATTTGTAATCTCTTGCTCATGTCTGGCTAT
TAACCGAAGCAAACAGACAGATGTCATCAATGCTTCTTGGTGGGTCTAGAGCAACAAGACTCGGGATGAACTGGA
AAGAAGTTTTGATTGTTGTGGCTTATTCAACCTCACAACCTGTATCAACAAGATTATGATTTCTGCACTGCAAT
CTGCAAGAGCCAGAGCCCCACATGCCAGATGTGTGGAGAAAAGTTTCTTAAGCATTTCAGACGAAGCCCTGAAAAAT
CCTAGGGGGGTGTTGGACTCTTCTTTAGCTTTACAGAGATCCTTGGTGTTTGGCTAGCAATGAGATTTCCGAATCA
GAAGGATCCTAGAGCCAACCCAGTGCCTTTCTATGAGACTTTGGATCCTTCTGACTTTTCTTCTGCTCTCTCTA
AGCTTTCTCTTCCCTCCCTTAGGGAATATCTAGGGTCTGTAACCGTTTGGTTTGAGAAAAGGAAAGGCCCTTG
TCACATCCTCTAAAATTGATGGAATAGCAAGACTTTATGCCTTGACATATTTTAGTGGGAGCCAGACTATAAGGA
ATAAAGGAAAAACTTTCTTCCTCTCTCTCCAAGAGGATATGGGAAGCTTCTGTGAGTGCATAGGATGGGGGCTG
GAGTCATTCTTAGCTGTTTCCCTTCCTCTGTCCATATACTGGATCACCTCAACATACCCTGGTGTGGCTCTAAGG
GTAAATCAGGGATAGGGCCAAGGAGAAAACAACCAAGAAGTCTTTCTGTAAATAAGCAGGATCCAGTTTGAGAAA
GTTTAGCGAATATAAAAGTAAAAGCCATTTAAAAATCTATATTCTTTTTTTTTTTTGACACAGAGTCTTGCTCTGT
TGCCAGGCTGGAGTGCAATGGCATGATCTCGGCTCACCGCAACCTCTGCCTCCCGGGTTCAAGCGATCCTCCTG
CCTCAGTCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCACGCCTGACTAATTTTGTATTTTGTAGTAGAGAC
AGGGTTTCACCATGTTAGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGCGTTGGCCTCCCAACG
TGCTGGGATTATAGGCGTGAGCCACCACGCCCCGCCTAAAATCCATATTCAAAGAAGCAATTTAGTTCTTTCT
AAGCTTTGTGAGTCAAGGGGCTCCACTGACTTCTTAGGCCCTGTAATTTAACCAGTCTTTAAGGTTTTGCAGGAA
AGTCCCTTCTTCCAAGTGGTTTTTCCAATCGCACAATGGCAAAGCCAAACAGAGGAAGAAACATTAAAAAAA
AAAAAGACCATTAAAAAAA
AAAAAAA

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FIGURE 3682

MVCGGFACSKNALCALNVVYMLVSLLLI GVAAWGKGLGLVSSIHIIGGVIAVGVFLLLI AVAGLVGAVNHHQVLL
FFYMIILGLVFIFQFVISC SCLAINRSKQTDVINASWWVMSNKTRDELE RSFDCCGLFNLT TLYQQDYDFCTAIC
KSQSPTCQMCGEKFLKHSDEALKILGGVGLFFSFTEILGVWLAMRFRNQKDPRANPSAFL

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FIGURE 3683

AGCCCTCCCAGTTTCCGCGCGCCTCTTTGGCAGCTGGTCACATGGTGAGGGTGGGGGTGAGGGGGCCTCTCTAGC
TTGCGGCCTGTGTCTATGGTCGGGCCCTCTGCGTCCAGCTGCTCCGGACCGAGCTCGGGTGTAATGGGGCCGTAGG
AACCGGCTCCGGGGGCCCCGATAACGGGCGCCCCCACAGCACCCCGGGCTGGCGTGAGGGTCTCCCTTGATCTGA
GA**ATGG**CTACCTCTCGATATGAGCCAGTGGCTGAAATTGGTGTCGGTGCCTATGGGACAGTGTACAAGGCCCGTG
ATCCCCACAGTGGCCACTTTGTGGCCCTCAAGAGTGTGAGAGTCCCCAATGGAGGAGGAGGTGGAGGAGGCCTTC
CCATCAGCACAGTTCGTGAGGTGGCTTTACTGAGGCGACTGGAGGCTTTTGAGCATCCCAATGTTGTCCGGCTGA
TGGACGTCTGTGCCACATCCCGAACTGACCGGGGAGATCAAGGTAACCCTGGTGTTTGAGCATGTAGACCAGGACC
TAAGGACATATCTGGACAAGGCACCCCCACCAGGCTTGCCAGCCGAAACGATCAAGGATCTGATGCGCCAGTTTC
TAAGAGGCCTAGATTTCTTTCATGCCAATTGCATCGTTCACCGAGATCTGAAGCCAGAGAACATTCTGGTGACAA
GTGGTGGAACAGTCAAGCTGGCTGACTTTGGCCTGGCCAGAATCTACAGCTACCAGATGGCACTTACACCCGTGG
TTGTTACACTCTGGTACCGAGCTCCCGAAGTTCTTCTGCAGTCCACATATGCAACACCTGTGGACATGTGGAGTG
TTGGCTGTATCTTTGCAGAGATGTTTCGTCTGAAAGCCTCTCTTCTGTGGAACTCTGAAGCCGACCAGTTGGGCA
AAATCTTTGACCTGATTGGGCTGCCTCCAGAGGATGACTGGCCTCGAGATGTATCCCTGCCCCGTGGAGCCTTTC
CCCCCAGAGGGCCCCGCCAGTGCAGTCGGTGGTACCTGAGATGGAGGAGTCGGGAGCACAGCTGCTGCTGGAAA
TGCTGACTTTTAAACCCACACAAGCGAATCTCTGCCTTTCGAGCTCTGCAGCACTCTTATCTACATAAGGATGAAG
GTAATCCGGAG**TGAG**CAATGGAGTGGCTGCCATGGAAGGAAGAAAAGCTGCCATTTCCCTTCTGGACACTGAGAG
GGCAATCTTTGCCTTTATCTCTGAGGCTATGGAGGGTCCTCCTCCATCTTTCTACAGAGATTACTTTGCTGCCTT
AATGACATTCCCCTCCCACCTCTCCTTTTGAGGCTTCTCCTTCTCCTTCCCATTCTCTACACTAAGGGGTATGT
TCCCTCTTGCTCCCTTTCCCTACCTTTATATTTGGGGTCCTTTTTTATACAGGAAAAACAAAACAAAGAAATAATG
GTCCTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3684

MATSRYPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGLPISTVREVALLRLEAFEHPNVVRLM
DVCATSRDREIKVTLVFEHVDQDLRTYLDKAPPPGLPAETIKDLMRQFLRGLDFLHANCIVHRDLKPENILVTS
GGTVKLADFGGLARIYSYQMALTPVVVTLWYRAPEVLLQSTYATPVDMWSVGCIFAEMFRRKPLFCGNSEADQLGK
IFDLIGLPPEDDWPRDVS LPRGAFFPRGPRPVQSVPEMEESGAQLLLEMLTFNPHKRISAFRALQHSYLHKDEG
NPE

3996/6881

FIGURE 3685

AGCCCTCCCAAGTTTCCGCGCGCCTCTTTGGCAGCTGGTCACATGGTGAGGGTGGGGGTGAGGGGGCCTCTCTAGC
TTGCGGCCTGTGTCTATGGTCGGGCCCTCTGCGTCCAGCTGCTCCGGACCGAGCTCGGGTGTATGGGGCCGTAGG
AACCGGCTCCGGGGCCCCGATAACGGGGCCGCCCCACAGCACCCCGGGCTGGCGTGAGGGTCTCCCTTGATCTGA
GAATGGCTACCTCTCGATATGAGCCAGTGGCTGAAATTGGTGTGGTGCCTATGGGACAGTGTACAAGGCCCGTG
ATCCCCACAGTGGCCACTTTGTGGCCCTCAAGAGTGTGAGAGTCCCCAATGGAGGAGGAGGTGGAGGAGGCCTTC
CCATCAGCACAGTTCGTGAGGTGGCTTTACTGAGGCGACTGGAGGCTTTTGAGCATCCCAATGTTGTCCGGCTGA
TGGACGTCTGTGCCACATCCCGAACTGACCGGGAGATCAAGAGATGTTTCGTGAAAGCCTCTCTTCTGTGAAA
CTCTGAAGCCGACCAGTTGGGCAAAATCTTTGACCTGGATTGGGCTGCCTCCAGAGGATGACTGGCCTCGAGATGT
ATCCCTGCCCCGTGGAGCCTTTCCCCCAGAGGGCCCCGCCAGTGCAGTCGGTGGTACCTGAGATGGAGGAGTC
GGGAGCACAGCTGCTGCTGGAATGCTGACTTTTAACCCACACAAGCGAATCTCTGCCTTTGAGCTCTGCAGCA
CTCTTATCTACATAAGGATGAAGGTAATCCGGAGTGAGCAATGGAGTGGCTGCCATGGAAGGAAGAAAAGCTGCC
ATTTCCCTTCTGGACACTGAGAGGGCAATCTTTGCCTTTATCTCTGAGGCTATGGAGGGTCCTCCTCCATCTTTC
TACAGAGATTACTTTGCTGCCTTAATGACATTCCCCTCCACCTCTCCTTTTGAGGCTTCTCCTTCTCCTTCCCA
TTTCTCTACACTAAGGGGTATGTTCCCTCTTGTCCCTTTCCCTACCTTTATATTGGGGTCCTTTTTTATACAGG
AAAAACAAACAAAGAAATAATGGTCTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3686

MATSRYPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGLPISTVREVALRRLEAFEHPNVVRLM
DVCATSRDREIKRCFVESLSSVETLKPTSWAKSLT

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FIGURE 3687

GGGGTTGAGATATGATGCTCAGGAGAAGCGCTTTCTTTTCGCGAGCACCCCTGAACCAGACC**ATG**ACCCAGACCCTC
AAGTACGCCTCCAGAGTGTTCCATCGCGTCCGCTGGGCGCCCGAGTTGGGCGCCTCCCTAGGCTACCGAGAGTAC
CACTCAGCACGCCGGAGCTTGGCAGACATCCCAGGCCCTCTACGCCAGCTTTCTGGCCGAACTTTTCTGCAAG
GGGGGGCTGTGAGGCTACACGAGCTGCAGGTGCAGGGCGCCGCGCACTTCGGGCCGGTGTGGCTAGCCAGCTTT
GGGACAGTGCGCACCGTGTACGTGGCTGCCCTGCACTCGTCGAGGAGCTGCTGCGACAGGAGGGACCCCGGCC
GAGCGCTGCAGCTTCTCGCCCTGGACGGAGCACCGCCGCTGCCGCCAGCGGGCTTGCGGACTGCTCACTGCGGAA
GGCGAAGAATGGCAAAGGCTCCGCAGTCTCCTGGCCCCGCTCCTCCTCCGGCCTCAAGCGGCCGCCCGCTACGCC
GGAACCCTGAACAACGTAGTCTGCGACCTTGTGCGGCGTCTGAGGCGCCAGCGGGGACGTGGCACGGGGCCGCC
GCCCTGGTTCCGGACGTGGCGGGGGAATTTTACAAGTTCGGACTGGAAGGCATCGCCGCGGTTCTGCTCGGCTCG
CGCTTGGGCTGCCTGGAGGCTCAAGTGCCACCCGACACGGAGACCTTCATCCGCGCTGTGGGCTCGGTGTTTGTG
TCCACGCTGTTGACCATGGCGATGCCCCACTGGCTGCGCCACCTTGTGCCTGGGCCCTGGGGCCGCCTCTGCCGA
GACTGGGACCAGATGTTTGCATTTGCTCAGAGGCACGTGGAGCGGCGAGAGGCAGAGGCAGCCATGAGGAACGGA
GGACAGCCCGAGAAGGACCTGGAGTCTGGGGCGCACCTGACCCACTTCCTGTTCCGGGAAGAGTTGCCTGCCAG
TCCATCCTGGGAAATGTGACAGAGTTGCTATTGGCGGGAGTGGACACGGTGTCCAACACGCTCTCTTGGGCTCTG
TATGAGCTCTCCCGGCACCCGAAGTCCAGACAGCACTCCACTCAGAGATCACAGCTGCCCTGAGCCCTGGCTCC
AGTGCCTACCCCTCAGCCACTGTTCTGTCCCAGCTGCCCTGCTGAAGGCGGTGGTCAAGGAAGTGCTAAGACTG
TACCCTGTGGTACCTGGAAATTCGTGTCCCAGACAAAGACATTTCATGTGGGTGACTATATTATCCCCAAAAAT
ACGCTGGTCACTCTGTGTCACTATGCCACTTCAAGGGACCCTGCCAGTTCCCAGAGCCAAATTCTTTTCGTCCA
GCTCGCTGGCTGGGGGAGGGTCCCACCCCCACCCATTTGCATCTCTTCCCTTTGGCTTTGGCAAGCGCAGCTGT
ATGGGGAGACGCCTGGCAGAGCTTGAATTGCAAATGGCTTTGGCCAGATCCTAACACATTTTGAGGTGCAGCCT
GAGCCAGGTGCGGCCCCAGTTAGACCCAAGACCCGGACTGTCTGGTACCTGAAAGGAGCATCAACCTACAGTTT
TTGGACAGAT**TAG**TCCCATGGAAAGAGACTGTCATCATCACCTTTTCATTCATCATAGGGATAAGATTTTTTGTAG
GCACAAGACCAAGGTATACATCTTCCCCTAATGCCTATCTGACCAAACCTGGATAGAACCACCATAGTGAAGTGTG
AGGCGGCCCTGACCAATGTGTGAAGTATGCACTTGGCCTGACTCAGGAAGCCAGGTGAGAAAACCATGGTCTCTC
TGCTTGCTTGGCCCTTCTGATCATGTATGCATCCCCCAAGGATGAAATCAGATTTTAACTAATAATGCTGGATGG
CCTGAGGAAAGATTCAACTGCCTCTCTTTTTTGGGCTTTCATAGTGTTCAATTGATGCTGCTGGCTAAGCATTTATC
AAAGCATAAGCTCAGTAACTGTGCATCTGGTCTGTACCTGGTTGGTCCTTCGTCTTTGCATGTAAGCTCTTTGAG
AGGAAGGGTGAAGCCTTATTTGTTTTTTATGTCCCCTGCCAGGGCCTGTCTCTGACTAGGTGTCACCATAACAT
TCTTAGATTGAATCTGAACCATGTGGCAGAAGGGATAAGCAGCTTACTTAGTAGGCTCTGTCTACCCCTTCCTT
CTTTGTCTTGGCCCTAGGAAGGTGAATCTGCCCTAGCCTGGTTTACGGTTTCTTATAACTCTCCTTTGCTCTCTG
GCCACTATTAAGTGGGTTTGGCCCATCACTTAGTTCTCAGGCAGAGACATCTTTGGGCCTGTCCCTGCCAGGCC
TCTGGCTTTTTTATATTGAAAATTTTTAAATATTCACAAATTTTAGAATAAATCAAATATTCCATTCTT

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FIGURE 3688

MTQTLKYASRVFHRVRWAPELGASLGYREYHSARRSLADIPGPSTPSFLAELFCKGGLSRLHELQVQGAAHFGPV
WLASFGTVRTVYVAAPALVEELLRQEGPRPERCSFSPWTEHRRRCRQRACGLLTAEGEWQRLRSLLAPLLLRPQA
AARYAGTLNNVCDLVRRLRRQRGRGTGPPALVRDVAGEFYKFGLEGIAAVLLGSRLGCLEAQVPPDTETEFIRAV
GSV FVSTLLTMAMPHWLRHLVPGPWGRLCRDWDQMF AFAQRHVERREAEAAAMRN GGQPEKDLES GAHLTHFLFRE
ELPAQSILGNVTELLLAGVDTVSNTLSWALYELSRHPEVQTALHSEITAALSPGSSAYPSATVLSQLPLLKAVVK
EVLRLYPVVP GNSRVPDKDIHVGDIIPKNTLVTLCHYATSRDPAQFPEPNSFRPARWLGE GTPHPFASLPFGF
GKRSCMGRRLAELELQMALAQILTHFEVQPEPGAAPVRPKTRTVLVPERSINLQFLDR

FIGURE 3689

[illegible]

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FIGURE 3690

MAAETRNVAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDWSELYPEFFAPLTQNQSHDDPKDKKEKRAQ
AQVEFADIGCGYGGLLEVELSPLFPDTLILGLEIRVKVSDYVQDRIRALRAAPAGGFQNIACLRSNAMKHLPNFFY
KGQLTKMFFLFDPDPHFKRTKHKWRIISPTLLAEYAYVLRVGGLVYITITDVLELHDWMCTHFEEHPLFERVPLEDL
SEDPVVGH LGTSTEEGKKVLRNGGKNFPAIFRRIQDPVLQAVTSQTS LPGH

FIGURE 3691

[illegible]

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FIGURE 3692

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLR

FIGURE 3693

GGCCTGCGCCTCCACGTGGATTTGGTAGAGAAACCCCGGACTGGGATCATGGCAGCCGAGACTCGGAACGTGGCC
GGAGCAGAGGCCCCACC GCCCCAGAAAGCGCTACTACCGGCAACGTGCTCACTCCAACCCCATGGCGGACCACACG
CTGCGCTACCCTGTGAAGCCAGAGGAGATGGACTGGTCTGAGCTATACCCAGAGTTCTTCGCTCCACTCACTCAA
AATCAGAGCCACGATGACCCAAAGGATAAGAAAAGAAAAGAGAGCTCAGGCCCAAGTGGAGTTTGCAGACATAGGC
TGTGGCTATGGTGGCCTGTTAGCTGACAAAGATGTTCTTCTCTTCCCCGACCCACATTTCAAGCGGACAAAGCA
CAAGTGGCGAATCATCAGTCCACCCTGCTAGCAGAATATGCCTACGTGCTAAGAGTTGGGGGGCTGGTGTATAC
CATAACCGATGTGCTGGAGCTACACGACTGGATGTGCACTCATTTTGAAGAGCACCCACTGTTTGAAGCGTGTGCC
TCTGGAGGACCTGAGTGAAGACCCCGTTGTGGGACATCTAGGCACCTCAACTGAGGAGGGGAAGAAAGTTCTACG
TAATGGAGGGAAGAATTTCCAGCCATCTTCCGAAGAATACAAGATCCCGTCTCTCCAGGCAGTGACCTCCCAAAC
CAGCCTGCCTGGTCACTGACTGCTTACTCTACCTTAGCTGGACCTCGTCTCCCAGGGATTAGAGAAAAGAGCAGG
AGTCTTGGGTCTTCCAGTTGAGACTGCTGGAGCTGAGACACAGTACTCTCTTAAAGAAGGTGGGGAGCTGCCCCA
GGGCAGAACCCACTGGTGTTCATGACTACCCCTGGCTCCTCTCACCTTGTCCTTCCACTGCCAACAGAAAACAAA
GCAGCTGACTGAGATGGTCAAAGGACTTTGGACCATAGGGGATCTTTGAAGGCTGTGGGGTCTTGCTCTTCCTT
AGCACTCCTTTCTCCTTGTGAGATCTCTCCTCAGCTGGAATGAGGAATGTAGTCCATCTAAACTGCTTGCTAGGC
TCAATTACCACTTCTGTTTGTCTTTGTGGATCCTGGGATAACATGTATATGTGTACACATGCCTATTCTGCCATTT
CTCAGGAAAGGGTGGAGTATGTATCATATGCCTTCTACCATCCTCCTGTCTCTCCTGCGTAAGACTTGACCTG
GGGAATCTGTGTTCCCTAAAAA
AAAAA

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FIGURE 3694

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDWSELYPEFFAPLTQNQSHDDPKDKKEKRAQ
AQVEFADIGCGYGGLLADKVDLPLPRPTFQADKAQVANHQSHPASRICLRAKSWGAGVYHNRCAGATRLDVHSFR
RAPTV

4006/6881
FIGURE 3695

GGGGGAGGGTGTATTATCGCGGCTAGAGAGATGTCGCTGCTGCGGTCGCTGCGCGTGTTCCTGGTCGCGCGGACC
GGGAGCTACCCGGCTGGGTCTCTTCTGCGTCAGTCGCCCCAGCCAAGGCACACATTTTATGCTGGGCCCCGTCTG
TCTGCCTCGGCCTCCAGCAAGGAGCTCCTCATGAAGCTGCGGCGGAAAACAGGCTACTCCTTTGTAAATTGCAAG
AAAGCTCTGGAGACTTGTGGCGGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCCAGAAGGAGGGC
TGGAGCAAAGCTGCCAAGCTCCAAGGGAGGAAGACCAAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACA
ACTGTATTAGTAGAGGTAACTGTGAGACAGATTTTGTTCCTAGAAATTTAAAATTTCAACTGTTGGTCCAGCAA
GTAGCCCTTGGAACCATGATGCATTGTCAGACCCTAAAGGATCAACCCTCTGCATACAGTAAAGTGCAGTGGCTC
ACGCCTGTAAACCTAGCACTTTGGGAGGCTGAAGCAGGTGGATCACTTGAGGGTTTCTTGAATTCCTCTGAGCTT
TCTGGACTTCCAGCTGGGCCTGACAGAGAAGGCTCACTCAAGGATCAGTTGGCTTTAGCAATTGGAAAACCTGGGA
GAAAACATGATTCTTAAACGAGCTGCATGGGTGAAGGTGCCATCTGGGTCTACGTTGGCTCTTATGTCCACGGA
GCAATGCAGAGTCCCTCACTTCACAAGCTGGTGCTGGGGAAAGTATGGGGCCCTGGTCATCTGTGAGACGTCCTGAA
CAGAAAACAAACCTTGAAGACGTTGGCCGCCGCTTGGGCAGCATGTGGTGGGCATGGCCCCCCTCTCTGTTGGC
TCCCTGGACGATGAGCCTGGGGGAGAGGCAGAGACTAAGATGCTGTCCCAGCCGTATTTGCTGGATCCCTCCATT
ACCTTGGGGCAGTATGTGCAGCCTCAGGGGGTGTGCGGTAGTAGACTTTGTGCGGTTTGAATGTGGAGAAGGTGAA
GAGGCAGCAGAAAACCTGAATAGGTTCCAGAGACTTTTGGCCCAGGAGGAATATTTACTTTTAGCTCTGGACATCAT
TACAAAAAGGAATATTTCCCAAACCTCTTCAGACCGAGAATGCATGGGTAAAATTATTAAATAGTTGTATAATAA
AAATAATTTTTTCCTTGTTTGCACAAAAA

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FIGURE 3696

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRKTGYSFVNCKKALET CGGDL
KQAEIWLHKEAQKEGWSKAAKLQGRKTKEGLIGLLQEGNTTVLVEVNCETDFVSRNLKFQLLVQQVALGTMHCQ
TLKDQPSAYS SKVQWLTPVNLALWEAEAGGSLEGFLNSSELSGLPAGPDREGSLKDQLALAI GK LGENMILKRAAW
VKVPSGFYVGSYVHGAMQSPSLHKLVLGKYGALVICETSEQKTNLEDVGRRLGQHVVGMAPLSVGSLLDDEPGGEA
ETKMLSQPYLLDPSITLGQYVQPQGVSVVDFVRFECGE GEEAAETE

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FIGURE 3697

GATGTTTCAGTCTCTGGAAAGACAAGCATCATGCCTCTGACCAGTGCCTTCAGGGCTGTGGACAACGACCCTGGGA
TCATTGTCTGGAGAATAGAGAAAATGGAGCTGGCGCTGGTGCCTGTGAGCGCCACGGCAACTTCTATGAGGGG
ACTGCTACGTATCTCTCGACCCGGAGAGTGGCCAGTCTCTATCCCAGGACATCCACTTCTGGATCGGGAAG
ACTCCTCCCAGGATGAGCAAAGCTGCGCAGCCATATATACCACACAGCTGGACGACTACCTGGGAGGCAGCCCTG
TGCAGCACCGAGAGGTCCAGTACCATGAGTCAGACACTTTCCGTGGCTACTTCAAGCAGGGCATCATCTACAAGC
AGGGGGGTGTGCCTCTGGGATGAAGCACGTGGAGACCAATACCTACGACGTGAAGCGGCTGCTACATGTGAAAG
GGAAAAGAAACATCAGGGCTACCGAGGTGGAAATGAGCTGGGACAGTTTCAACCGAGGTGATGTCTTCTTGCTGG
ACCTTGGGAAAGTCATCATCCAATGGAATGGCCCAGAGAGCAACAGTGGGGAGCGCCTGAAGGCTATGCTTCTGG
CAAAGGATATTTCGAGACAGGGAGCGAGGGGGCCGTGCTGAAATAGGAGTGATCGAGGGAGACAAGGAGGCAGCCA
GCCCAGAGCTGATGAAGGTCCTTCAGGACACCCCTTGCCGACGCTCCATTATCAAGCCTACAGTCCCTGATGAGA
TCATAGATCAGAAAGCAGAAATCAACTATCATGTTGTATCATATCTCAGATTTCAGCTGGGCAGCTGGCAGTCACAG
AGGTAGCAACAAGGCCTCTGGTCCAGGACTTACTGAACCATGATGACTGCTACATCCTGGACCAAAGTGGAAACCA
AAATCTACGTGTGAAAGGAAAAGGAGCCACAAAGGCTGAAAAACAGGCAGCCATGTCTAAAGCGCTGGGCTTCA
TCAAGATGAAGAGCTACCCCAGCAGCACCAATGTGGAGACCGTCAACGATGGTGCTGAGTCGGCCATGTTCAAGC
AGCTGTTCCAGAAGTGGTCAGTAAAGGACCAGACCATGGGCCTGGGGAACGTTTCAGCATTGGTAAAAATTGCTA
AAGTTTTCCAGGATAAATTTGATGTGACTCTGCTACACACCAAGCCAGAGGTAGCTGCCCAGGAAAGAATGGTCG
ATGATGGCAACGGAAGTTGAGGTCTGGAGAATTGAGAACCTGGAGCTGGTCCCTGTGGAGTATCAATGGTATG
GCTTCTTTTATGGGGGAGACTGTTATCTGGTCCTCTACACATACGAGGTAAATGGGAAGCCACATCACATCTTGT
ACATCTGGCAGGGCCGCCACGCCTCACAGGATGAGCTGGCAGCCTCAGCATAACCAGGCAGTGGAGGTGGATCGGC
AGTTTGATGGGGCTGCTGTGCAGGTTTCAGTCAGGATGGGAACGGAGCCACGCCACTTCATGGCCATCTTCAAAG
GGAAGCTAGTTATCTTTGAGGGTGGGACTTCCAGGAAGGGAATGCCGAGCCTGACCCTCCAGTAAGACTCTTCC
AAATTCATGGAAATGACAAATCTAACACCAAAGCAGTGGAAGTTCCAGCCTTTGCCTCCTCCCTAAACTCCAATG
ATGTCTTTCTGCTGCGAACTCAGGCAGAGCACTACCTGTGGTATGGCAAGGGGTCTAGTGGGGATGAGCGGGCAA
TGGCTAAGGAGCTGGCCAGCCTTCTCTGTGATGGCAGCGAGAACACTGTGGCCGAGGGCCAGGAGCCAGCCGAGT
TCTGGGACCTACTGGGAGGGGAAACTCCCTATGCCAATGATAAAAGACTTCAGCAGGAAATCCTAGATGTCCAGT
CTCGTCTCTTTGAATGTTCCAATAAGACCGGCCAATTCGTTGTCACTGAGATCACAGACTTCACCCAGGATGACC
TGAACCTACTGACGTGATGCTCCTAGATACCTGGGACCAGGTGTTCTTGTGGATTGGGGCTGAGGCCAATGCCA
CGGAGAAGGAGAGTGCCCTTGCCACAGCACAGCAGTACCTGCACACTCACCCAGCGGCCGAGATCCCGACACAC
CAATCCTGATCATTAAAGCAGGGGTTTGAGCCTCCCATCTTCACAGGCTGGTTCCCTAGCCTGGGACCCTAACATTT
GGAGTGCAGGAAAAACATATGAACAATTAAGAAGAGCTGGGAGATGCTGCTGCTATCATGCGAATCACTGCTG
ACATGAAGAATGCAACCCTCTCCCTGAATTCTAATGACAGTGAGCCAAAATATTACCCTATAGCAGTTCTGTTGA
AAAACCAGAATCAGGAGCTGCCTGAGGATGTAAACCCTGCCAAAAGGAGAATTACCTCTCTGAACAGGACTTTG
TGTCTGTGTTTGGCATCACAAGAGGGCAATTTGCAGCTCTGCCTGGCTGGAAACAGCTCCAAATGAAGAAAGAAA
AGGGGCTTTTCTAAAGCAAGAAGGCCTATACCTATTGCAAGGCCACAGAAAAGAGCAGATAGTGCCAATATCAGG
AAATAATTTATCCACCAATTTCTGCCTGACATTTCAGCTACTTAATTTAGATATAATAGAGTCTGCAATCACGGC
ATGTTCTCCATTTTTTCTCATCCTTGCAATCCTTGCTTGTATATACCTAAAATGTAAACCATATAGTTTTTGGG
TTTTGTGGCCC

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FIGURE 3698

MPLTSAFRAVDNDPGIIVWRIEKMELALVPVSAHGNFYEGDCYVILSTRRVASLLSQDIHFWIGKDSSQDEQSCA
AIYTTQLDDYLGGSPVQHREVQYHESDTFRGYFKQGIYKQGGVASGMKHVETNTYDVKRLLHVKGKRNIRATEV
EMSWDSFNRGDVFLDLGKVIIQWNGPESNSGERLKAMLLAKDIRDRERGGRAEIGVIEGDKEAASPELMKVLQD
TLGRRSIIKPTVPDEIIDQKQKSTIMLYHISDSAGQLAVTEVATRPLVQDLLNHDDCYILDQSGTKIYVWKGKGA
TKAEKQAAMSKALGFIKMSYPSSSTNVETVNDGAESAMFKQLFQKWSVKDQTMGLGKTFSIGKIAKVFQDKFDVT
LLHTKPEVAAQERMVDDGNGKVEVWRIENLELVPVEYQWYGGFYGGDCYLVLYTYEVNGKPHHILYIWQGRHASQ
DELAASAYQAVEVDRQFDGAAVQVRVRMGTEPRHFMAIFKGLVIFEGGTSRKGNAPDPPVRLFQIHGNDKSNT
KAVEVPAFASSLNSNDVFLLRTPAEHYLWYKGSSGDERAMAKELASLLCDGSENTVAEGQEPAEFWDLLGGKTP
YANDKRLQQEILDVQSRLFEC SNKTGQFVVTEITDFTQDDLNP TDVMLLDTWDQVFLWIGAEANATEKESALATA
QQYLHTHPSGRDPDTPILIIKQGFEPPIFTGWFLAWDPNIWSAGKTYEQLKEELGDAAAIMRITADMKNATLSLN
SNDSEPKYYP IAVLLKNQNQELPEDVNP AKKENYLSEQDFVSVFGITRGQFAALPGWKQLQMKKEKGLF

[illegible]

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FIGURE 3699B

ATAAAATGGAAGCAATTGCTCATGTTGGCCAAACATGGTGCACCGAGTGATTTCCATCTCTGGTAAAGTTACACT
TTTATTTCTGTATGTTGTACAATCAAAACACACTACTACCTCTTAAGTCCCAGTATACCTCATTTTTTCATACTG
AAAAAAAAAGCTTGTGGCCAATGGAACAGTAAGAACATCATAAAATTTTATATATATAGTTTATTTTTGTGGGA
GATAAATTTATAGGACTGTTCTTTGCTGTTGTTGGTCGCAGCTACATAAGACTGGACATTTAACTTTTCTACCA
TTTCTGCAAGTTAGGTATGTTTGCAGGAGAAAAGTATCAAGACGTTTAACTGCAGTTGACTTTCTCCCTGTTTCCT
TTGAGTGTCTTCTAACTTTATTCTTTGTTCTTTATGTAGAATTGCTGTCTATGATTGTACTTTGAATCGCTTGCT
TGTTGAAAATATTTCTCTAGTGTATTATCACTGTCTGTTCTGCACAATAAACATAACAGCCTCTGTGA

FIGURE 3700

[illegible]

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FIGURE 3701

MVFRRFVEVGRVAYVSFGPHAGKLVAIVDVIDQNRALVDGPCTQVRRQAMPFKCMLTDFILKFPHSARQKYVQQ
AWQKADINTKWAATRWAKKIEARERKAKMTDFDRFKVMKAKKTRNRI IKNEVKKLQKAALLKASPKKAPGTKGTA
AAAAAAAAAKVPAKKMTAASKKASAQKVPAQKATGQKAAPAPKAQKGQKAPAQKAPAPKASGKKA

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FIGURE 3702

GAACGCCTCTGTGTTTGAACAAACATTTCGAGTGGTAGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGC
TGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGGGCCTCTCCTGAGAAATGGGCTGAGGAGGCGGCCCGAAAAC
CTCCCAGCCTTTCAGACCCCCACTGGCATGCCATATGGAACAGTGAACCTTACTTCATGGCGTGAACCCAGGAGA
GACCCCTGTACCTGTACGGCAGGGATTGGGACCTTCATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGA
CCCGGTGTTTGAAGATGTGGCCAGAGTGGCTTTGATGCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGAGTAT
AACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCTGTGGGTTTCAGATGTACAAGGGGACTGTGTCC
ATGCCAGTCTTCCAGTCCTTGGAGGCCTACTGGCCTGGTCTTCAGAGCCTCATTTGGAGACATTGACAATGCCATG
AGGACCTTCCTCAACTACTACACTGTATGGAAGCAGTTTGGGGGGCTCCCGGAATTCTACAACATTCCTCAGGGA
TACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAAGTTATTGAAAGCGCAATGTACCTCTACCGTGCC
ACGGGGGATCCCACCCTCCTAGAACTCGGAAGAGATGCTGTGGAATCCATTGAAAAGCTGGACAACCGCATGGAG
TCGTTCTTCCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCACAACAATGGG
TCCACCTTCGACGCGGTGATCACCCCCTATGGGGAGTGCATCCTGGG

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FIGURE 3703

MAEEAARKLLPAFQTPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRLWE
SRSDIGLSITKPSGTTASMTGTCGFRCTRGLCPCQSSSPWRPTGLVFRASLETLTMP

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FIGURE 3704

CAAATTTTATCAAAGTTAATGGATCAGTTAGAAGCTCTAAAGAAGCAGTTGGGTGATAATGAAGCTATTACTCA
AGAAATAGTGGGCTGTGCCCATTGGGAGAAATTATGCTTTGAAAATGTTTTGTATGCAGACAATGAAGATCGTGC
TGGACGATTTACAAAAACATGATCAAGTCCTTCTATACTGCAAGTCTTTTGATAGATGTCATAACAGTATTTGG
AGAACTCACTGATGAAAATGTGAAACACAGGAAGTATGCCAGATGGAAGGCAACATACATCCATAATTGTTTAAA
GAATGGGGAGACTCCTCAAGCAGGCCCTGTTGGAATTGAAGAAGATAATGATATTGAAGAAAATGAAGATGCTGG
AGCAGCCTCTCTGCCCCTCAGCCAACTCAGCCATCATCATCTTCAACTTATGACCCAAGCAACATGCCATCAGG
CAACTATACTGGAATACAGATTCTCCGGGTGCACACGCTCCAGCTAATACACCAGCAGAAGTGCCTCACAGCAC
AGGTGTAGCAAGTAATACTATCCAACCTACTCCACAGACTATACCTGCCATTGATCCCGCACTTTTCAATACAAT
TTCCCAGGGGGATGTTCTGCTAACCCCAGAAGACTTTTGCTAGAGCTCAGAAGTACTGCAAATATGCTGGCAGTGC
TTTGCAGTATGAAGATGTAAGCACTGCTGTCCAGAATCTACAAAAGGCTCTCAAGTTACTGACGACAGGCAGAGA
ATGAAGCCTTTGTATGACAGACCCATGTATTTTTGGCATGAGGAACCTAACAGTCCATTACTCTATCTTCAGCCTA
TCAGGATCACATTTTCATTGTCCATTTACTAGATTCAATCGTCTCTGAGTATATAGGGCTGATGTTAGCAAGACC
CTAAAAATGTCCATTGAACCCCTGCTTCAAAAAATGAAAACACACCTCTATAAAATGTGTACTGGGAATAAGCTTT
GTATTTACATACATTAGGGGAATTTTTTAAAATCTGTAATGTTTGGACAAACAGATGATATTACTTTGCTATAAA
ATTATAAATGTAACTTTTAAATAAAGATAGCCAGAATATTCTAAATTAGAAATTACGTTTTTGTTCCTCAAGAC
ATAAAACAAATATAAACATTCTAAACTGCTGGATGAATCTGAAAAGACATTAAGTTCAAATTTTAAATTTATTCTC
ATATTAAATATAACTCCATTAAAAGTTTAAAATTTTCATGGGAGAAAATATAATAAGGTAAAGAGGTAGAATCACT
TTCAGACTTAAGAATAATGTTGATTTCCCAAGTGCTTTACCTTATCTGTTAAAGCGTAAGATGAATTGGTATTTG
CTTCATAGGCAGTTTGACTGCATGTATTAGAGAATGAAAAGAAGATATTTGTAGTAATGCCTGGAACTTGGTGC
TTTAAATTAAGGTACTCCTCTGCTGCTGTAGAATGGATTCCACACAGTGGATAGCTATGGGTGATTCAGAATATT
ATGTTTAGATTCCCATTGTGTTAAGTTTATAAGTTTTGTGGGGAATTATGAACCTTACTGTGTACTACCTGCATTTG
TGCTGTGTGAAAAATAAATAACAAGGATTCGTTTAGCTAA

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FIGURE 3705

GTGAGCGCCGGGCTCGGGGCCCCCGGCCGCCAGCCCCTTCCCTTCCCTCCATCCCATCCCCCTCCCCCTCCCCC
CGGGCCCCGCGCCCCCCCCGCCCCGCCCCCCCCCATGGACATGCTGGACCCGGGTCTGGATCCCGCTGCCTCGGC
CACCGCTGCTGCCGCCGCCAGCCACGACAAGGGACCCGAGGCGGAGGAGGGCGTCGAGCTGCAGGAAGGCGGGGA
CGGCCCAGGAGCGGAGGAGCAGACAGCGGTGGCCATCACCAGCGTCCAGCAGGCGGCGTTCCGGCGACCACAACAT
CCAGTACCAGTTCCGCACAGAGACAAATGGAGGACAGGCTGTGATCCAAAATCCCTTCAGCAATGGTGGCAGTCC
GGCGGCCGAGGCTGTCAGCGGGGAGGCACGATTTGCCTATTTCCCAGCGTCCAGTGTGGGAGATACTACGGCTGT
GTCCGTACAGACCACAGACCAGAGCTTGCAGGCTGGAGGCCAGTTCTACGTTCATGATGACGCCCCAGGATGTGCT
TCAGACAGGAACACAGAGGACGATCGCCCCCGGACACACCCTTACTCTCCAAAAATTGATGGAACCAGAACACC
CCGAGATGAGAGGAGAAGAGCCCAGCACAAACGAAGTGGAGCGGAGGCGGAGGGACAAGATCAACAACCTGGATCGT
CCAGCTTTCGAAAATCATTCCAGACTGTAACGCAGACAACAGCAAGACGGGAGCGAGTAAAGGAGGGATCCTGTC
CAAGGCCTGCGATTACATCCGGGAGTTGCGCCAGACCAACCAGCGCATGCAGGAGACCTTCAAAGAGGCCGAGCG
GCTGCAGATGGACAACGAGCTCCTGAGGCAGCAGATCGAGGAGCTGAAGAATGAGAACGCCCTGCTTCGAGCCCA
GCTGCAGCAGCACAACCTGGAGATGGTGGGCGAGGGCACCCGGCAGTGACGCCCCGCCACCACGCAGCCGCCG
CCGCCCACGCCGGCCTCTGCTGCCCCCTTCCCCAGCCCTTAGCACAGAGAGGGACACATGCCCCCTCCCCCAGCTG
CGTTTTTTTTATAGTAGATTTTTTAACAAAAACGGGGAGAAATAATGCATTTCTGTGGATACAGTGCCCACCGCCC
TCCTCCACTTGGAACGGTATCCTCCCTGCCCATCCGTCTGTCTGTCTGCGCCCTTCTCCCGGCCCTCACTAAGCCCC
GGCACTTCTAGTGGTCTCACCTGGAGGCAAGAGGGAGGGGACAGAGGCCCTGCCACGTCCCGCTGCCTCCTGCTC
TCTGGAGGTACTGAGACAGGGTGCTGATGGGAAGGAGGGGAGCCTTTGGGGGGCCACCCGGGGCCTGGACCTATG
CAGGGAGGCCACGTCCACCCCCACCTCTTGTTTCTGGGTCCCTGCTCCCCTTTGGGGGTGTGTGTGTGTGTTTA
ATTTTCTTTATGAAAAATTGAC

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FIGURE 3706

MDMLDPGLDPAASATAAAAASHDKGPEAEEGVELQEGGDGPGAEETAVAITSVQQAAGDHNIQYQFRTETNGG
QAVIQNPFSNGGSPAAEAVSGEARFAYFPASSVGDTTAVSVQTTDQSLQAGGQFYVMMTPQDVLQTGTQRTIAPR
THPYSPKIDGTRTPRDERRRAQHNEVERRRRDKINNWIVQLSKIIPDCNADNSKTGASKGGILSKACDYIRELRQ
TNQRMQETFKEAERLQMDNELLRQQIEELKNENALLRAQLQHNLEMVGEGRQ

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FIGURE 3707

CGATTGTTGGTGACAGCGAAAGAACGATAACAAAATGCCGGAGCGAGATAGTGAGCCGTTCTCCAACCCTTTGGC
CCCCGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAACTCACCAATGAAGACTTCAGGAACT
TCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGCCAAGGGAGTA
CAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCCAAGCTACGCCAACAAGAAAT
TGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGATCGTGCCAAGGAACGGAGAGATGGAGTGAACAAAGATTA
TGAAGAAACCGAGCTTATCAGCACCACAGCTAACTATAGGGCTGTTGGCCCCACTGCTGAGGCGGACAAATCAGC
TGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCCATTTGGTGAA
AGGCTTGGATTTTGCTCTGCTTCAAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAGAGGAACCTGAT
GGAAGGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAACACGTCTGGGCCG
CAATGTTTACCGAATGCTTTTTAAGAGCAAAGCATATGAGCGGAATGAGTTGTTCTGCCGGGCCGATGGCTAG
TGTGGTAGACCTGGATGATGAGTATGCTGACACAGATATCCCCACCACTCTTATCCGCAGCAAGGCTGATTGCC
CACCATGGAGGCCCAGACCACACTGACCACAAATGACATTGTCATTAGCAAGCTGACCCAGATCCTTTCATACCT
GAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACCTCCTGAGGC
TGACATGAATATTTTTGAAGACATTGGGGATTACGTACCCTCCACAACCAAGACACCTCGGGACAAGGAGCGGGA
GAGATATCGGGAACGGGAGCGTGATCGGGAAAGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGAGATCG
GGAACGAGAGCGAGAGCGGGACCGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCAAAAGT
AGATGATGAGCCCATGGACGTTGACAAAGGACCTGGGTCTACCAAGGAGTTGATCAAGTCCATCAATGAAAAGTT
TGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAGAAGCCAGAAGACAAAAAGCAGCTGGGAGATTTCTT
TGGCATGTCCAACAGTTATGCAGAGTGCTACCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAGGAGGT
GGATTATAGCAAAATGGACCAGGGTAACAAGAAGGGGCCCTTAGGCCGTTGGGACTTTGATACCCAGGAAGAATA
CAGCGAGTATATGAACAACAAAGAAGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAAGGGCG
GAAAACCAGGCGCTTCAAGGAAACCAATGACAAAGCAGAGCTTGATCGCCAGTGGAAGAAGATTAGTGCAATCAT
TGAGAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAAGTCAAAGACCAAAATACTAATCACTAGTTACAACCAG
AGATGCTCCACAAGGATATGCTCCCCACTGTTTTCTTTCTACAATTTCAAAGGTTGCAAGATGTTTTTTTGTGG
ATGAATATAAAATTTTATTGTGTAATTACTTGGTTCCATTAAAATTGGTTAACTTGC

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FIGURE 3708

GCTGGATGGGGAGAGCTGTATGGACGCTCAGGCTACAACATATTTTTTCTCAGGGGGTGCAGATGATGCCTGGGCA
GATGTGGAGGACGTCACGGAGGAGGACTGTGCTCTTCGAAGTGGTGACACGCATCTTTTTGATAAGGTCAGAGGC
TATGACATCAAGCTGCTTCGATACCTGTCAGTCAAATACATCTGTGACCTGATGGTGGAGAACAAGAAGGTGAAG
TTTGGCATGAATGTAACCTCCTCTGAGAAGGTGGACAAAGCCCAGCGCTATGCCGACTTCACTCTCCTCTCCATC
CCGTATCCAGGCTGTGAATTTTTCAAGGAATATAAAGATCGGGATTACATGGCAGAAGGGCTCATATTTAACTGG
AAGCAGGACTACGTTGATGCCCCATTGAGCATCCCCGACTTCCTGACTCACTCTCTGAACATTGACTGGAGCCAG
TATCAGTGTGGGATCTGGTGCAACAAACACAAAACCTACCTGAAGCTGCTGCTTTCCCTTAGTTAACAGTGATGAT
GACAGCGGGCTGCTGGTACACTGTATCTCAGGCTGGGATCGGACCCCCCTCTTCATCTCCCTCCTGCGCCTTTCC
TTGTGGGCTGATGGGCTCATCCACACGTCCTGAAGCCCCTGAGATCCTCTACCTCACTGTGGCCTATGACTGG
TTCTCTTCGGGCACATGTTGGTAGATCGGCTCAGCAAAGGGGAGGAGATTTTCTTCTTCTGCTTCAATTTTTTG
AAGCATATTACCTCCGAGGAGTTCTCTGCTCTGAAGACCCAGAGGAGGAAGAGTTTGCCAGCCCCGGGATGGAGGC
TTCACCTGGAAGACATCTGCATGCTGAGACGAAAGGACCGTGGCAGCACCAACAGCCTTGGCAGCGACTTCTCC
CTGGTCATGGAGAGTTCCCCAGGAGCCACTGGGAGCTTACCTATGAGGCCGTGGAGCTGGTCCCAGCAGGAGCG
CCAACTCAGGCAGCTTGGCTTGAGCCCTGAGTGATCGAGAGACTCGCTGCAGGAGGTGCGCTCAGCCTTCTTGG
CTGCGTACAGCAGCACAGTGGGGCTTCGGGCAGTAGCCCCCAGTCCTTCCGGTGCCATCGGGGGCCTGCTGGAGC
AATTTGCCCGTGGTGTGGACTCCGGAGCATCAGCAGCAATGCCTTGTGAAGAAGCCAGCCCATGACATTTTCTT
GCTCCTCTCTCAGCTGAGCCCTTAGCAGAGAATCAAAGCCATGCCTGGCCGAAGGGGTACTTCCAGGTCAGGGGA
AATTTAGTCCCCATCTCCATCATGAACATGGCAGCCCCAAAGCTGAGCAAGGCCAAAGACAGGGTTTTTCCAAC
CCCCAGCCTCTTGAAGTGGTGACCACCACCCTTCTTGTCACTGTCTCCCACCCACCCCATCTTTGCTGGGATTCC
CATCAACTCTCAGAACTGTGTGGGGTTTTCCCTGGGGCCTTGTGGAAGCCATGACTTCACAAAGACCCTACCTGTC
AGTTCTTGTCTTCTGGGGAGGAGGGATCACCTGCACTGAGAATGAGGCAGTTTGACACAGATCACAAAATAAAATC
AAAGTCTTTTTTG

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FIGURE 3709

MVENKKVKFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFNWKQDYVDAPLSIPDFLTH
SLNIDWSQYQCWDLVQQQTQNYLKLLLSLVNSDDDSGLLVHCISGWDRTPLFISLLRLSLWADGLIHTSLKPTAIL
YLTVAIDWFLFGHMLVDRLSKGEEIFFFCFNFLKHITSEEFSAKLTQRRKSLPARDGGFTLEDICMLRRKDRGST
TSLGSDFSLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRCRRCAQPSWLRTAAQWGFQ

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FIGURE 3710

ACGAGAAGTAGTCGTTTATGCTCCACTTTCAAAGAAGCAGGAGATCTTTTATACAGCCATTGTGAACCGTACAAT
TGCAAACATGTTTGGATCCAGTGAGAAAGAAACAATTGAGTTAAGTCCTACTGGTCGACCAAAACGACGAAGTAG
AAAATCAATAAAATTACAGCAAAATAGATGATTTCCCTAATGAATTGGAAAACTGATCAGTCAAATACAGCCAGA
GGTGGACCGAGAAAGAGCTGTTGTGGAAGTGAATATCCCTGTAGAATCTGAAGTTAATCTGAAGCTGCAGAATAT
AATGATGCTACTTCGTAAATGTTGTAATCATCCATATTTGATTGAATATCCTATAGACCCTGTTACACAAGAATT
TAAGATCGATGAAGAATTGGTAACAAATCTGGGAAGTTCTTGATTTTGGATCGAATGCTGCCAGAACTAAAAAA
AAGAGGTCACAAGGTGCTGCTTTTTTCACAAATGACAAGCATGTTGGACATTTTGATGGATTACTGCCATCTCAG
AGATTTCAACTTCAGCAGGCTTGATGGGTCCATGTCTTACTCAGAGAGAGAAAAAACATGCACAGCTTCAACAC
GGATCCAGAGGTGTTTATCTTCTTAGTGAGTACACGAGCTGGTGGCCTGGGCATTAATCTGACTGCAGCAGATAC
AGTTATCATTTATGATAGTGATTGGAACCCCCAGTCGGATCTTCAGGCCCAGGATAGATGTCATAGAATTGGTCA
GACAAAGCCAGTTGTTGTTTATCGCCTTGTTACAGCAAAATACTATCGATCAGAAAATTGTGGAAAGAGCAGCTGC
TAAAGGAAAAGTGGAAAAGTTGATCATCCATAAAAAATCATTTCAAAGGTGGTCAGTCTGGATTAAATCTGTCTAA
GAATTTCTTAGATCCTAAGGAATTAATGGAATTATTAATACTAGAGATTATGAAAGGGAAATAAAAGGATCAAG
AGAGAAGGTCATTAGTGATAAAGATCTAGAGTTGTTGTTAGATCGAAGTGATCTTATTGATCAAAATGAATGCTTC
AGGACCAATTAAAGAGAAGATGGGGATATTCAAGATATTAGAAAATTCTGAAGATTCCAGTCCTGAATGTTTGTT
TAAAGTGAGCTCAAGAATAGCTTTTAAAAGTTCTTATTTACATCTAGTGATTTCCCTGTATTGGGTTTGAAAT
ACTGATTGTCCACTTCACCTTTTTTATTATATCAGTTGACATGTAAGTAGTACCATGCGTACTTAAATAGATGGT
AATTTTCTGAGCCTTACCAAGAACAAGAAGTATCCATATTAAGTTTAGATTTTCAGTTAATTTTTGAGACTGAG
TAGTATTCTTGGATACAGGCTGATGTGTACTTAACCACTTCAGATTTATACAGTCCTTCCTGTGGAAGTTTAGTA
AATGTCTTTTTCCCTCCTTTCTCTAGTAATGCAGTTCATGGGCTTTAGGTACTTCAGTTATGAAGTAGGCTTTT
CATGGGGAGAGATTGGGATTATGCTCTCTGTTGTTTAAGAACTGTTTGATTTTAGAGTCTATTTCTATGAGATA
GTTTACCAAATAAATGTTCCCTTATAAG

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FIGURE 3711

MFGSSEKETIELSPTGRPKRRTRKSINYSKIDDFPNELEKLISQIQPEVDRERAVVEVNIPVESEVNLKLQNIMM
LLRKCCNHPYLIIEYPIDPVTQEFKIDEELVTNSGKFLILDRMLPELKKRGHKVLLFSQMTSMLDILMDYCHLRDF
NFSRLDGSMYSEREKNMHSFNTDPEVFIFLVSTRAGGLGINLTAADTVIIYSDWNPQSDLQAQDRCHRIGQTK
PVVVYRLVTANTIDQKIVERAAAKRKLEKLIHKNHFKGGQSGLNLSKNFLDPKELMELLKSRDYEREIKGSREK
VISDKDLELLLDLDRSDLIDQMNASGPIKEKMGIFKILENSEDSSPECLF

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FIGURE 3712

ACTTCCGGTCGGCGTGAGCGTGAGGTGTGGGTGTTTCGTTTCTCAGGTAAAACATGGCTAAAAGCTTACGGAGTAA
GTGAAAAGAAAGATGCGTGCTGAAAAGAGAAAAAGAATGCCCAAAGGAGGCCAGCAGGCTTAAAAGTATTCT
CAAAC TAGACGGTGATGTTTTAATGAAAGATGTTCAAGAGATAGCAACTGTGGTGGTACCCAAACCCAAACATTG
CCAAGAGAAAAATGCAATGTGAGGTAAAAGATGAAAAAGATGACATGAAAATGGAGACTGATATTAAGAGAAACAA
AAAGACTCTTCTAGACCAGCATGGACAGTACCCAATATGGATGAACCAAAGGCAAAGAAAAAGGCTGAAGGC AAA
GCGAGAGAAAAGAAAGGGGAAAAGCAAAGCAAAGCAGTGAAAGTGGCAAAGGGTTTGGCCTGGTAGACTCTTAA
AACCTTGGAAAATGCCACATGGGATAGATGACGGATTAGAATGTATACACATGTATACTTTGATTCAACTGCCA
CCAAATGAAAACCATTTGTTTTCTATTTTAACTTGGCCTTTTTTCTTCAATTCAAACCCAGCATAACTCCTCAA
GTTTGTTTTGGGAACTTGAATAAAATATTTTCTTTGATACATCCAAGCTCTACTGATACTTTAACTGGATGCTAC
CCAATATCCAGTTATAATCAGGCCTCAACGTTCTGTCAGGTATTAATATGGTTAGAATTGTTCTTACAACCTGGTA
ATTATAGTCAATAGAGATAAAACAGATGATGTACTGACAAATTTTGTGAACTTAGATTTTAAAGAAAGTTGTTG
TATAATCATATCATTAAAAATACTACATTAGGGCTGGGCATGGTGGCTCACACCTGTAATCCCAGCACTTTGGG
AGGCCGAGGCAGGTGGATCACGAGGTCAGTTCGAGACTAGCCTGGCTAATACAGTGAAACCCCATCTCTACTAAA
AATACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3713

MAKSLRSKWKRKMRAEKRKKKNAPKEASRLKSILKLDGDVLMKDVQEIATVVVPKPKHCQEKMQCEVKDEKDDMKM
ETDIKRNNKTLLDQHGQYPIWMNQRQRKRLKAKREKRKGKSKAKAVKVAKGLAW

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FIGURE 3714A

GGGAGCGAGTGCGGAGCGAGTGGGAGCGAGACGGCCCTGAGTGGAAAGTGTCTGGCTCCCCGTAGAGGCCCTTCTG
TACGCCCCGCCGCCCATGAGCTCGTTCTCACGCGAACAGCGCCGTCGTTAGGCTGGCTCTGTAGCCTCGGCTTAC
CCCCGGACAGGCCACGCCTCGCCAGGGAGGGGGCAGCCCGTCGAGGCGCCTCCCTAGTCAGCGTCGGCGTCGCG
CTGCGACCCCTGGAAGCGGGAGCCGCCGCGAGCGAGAGGAGGAGCTCCAGTGGCGGGCGGCGGGCGGCGAGCGGCA
GCGGGCAGCAGCTCCAGCAGCGCCAGCAGGCGGGATCGAGGCCGTCAACATGGCGAGCGCCTCGTACCACATTTT
CAATTTGCTGGAAAAAATGACATCCAGCGACAAGGACTTTAGGTTTATGGCTACAAATGATTTGATGACGGAAC
GCAGAAAGATTCCATCAAGTTGGATGATGATAGTGAAAGGAAAGTAGTGAAAATGATTTTGAAGTTATTGGAAGA
TAAAAATGGAGAGGTACAGAATTTAGCTGTCAAATGTCTTGGTCCTTTAGTGAGTAAAGTGAAAGAATACCAAGT
AGAGACAATTTAGATACCCCTCTGCACTAACATGCTTTCTGATAAAGAACAACCTTCGAGACATTTCAAGTATTGG
TCTTAAACAGTAATTGGAGAACTTCCTCCAGCTTCCAGTGGCTCTGCATTAGCTGCTAATGTATGTAAAAAGAT
TACTGGACGTCTTACAAGTGCAATAGCAAAACAGGAAGATGTCTCTGTTTCAGCTAGAAGCCTTGGATATTATGGC
TGATATGTTGAGCAGGCAAGGAGGACTTCTTGTTAATTTCCATCCTTCAATTCTGACCTGTCTACTTCCCCAGTT
GACCAGCCCTAGACTTGCAGTGAGGAAAAGAACCATTATCGCTCTTGGCCATCTGGTTATGAGCTGTGGAAATAT
AGTTTTTGTAGATCTTATTGAACATCTGTTGTGAGAGTTGTCCAAAAATGATTCTATGTCAACAACAAGAACCTA
CATACAATGTATTGCTGCTATTAGTAGGCAAGCTGGTCATAGAATAGGTGAATACCTTGAGAAGATAATTCCTTT
GGTGGTAAAAATTTTGCAATGTAGATGATGATGAATTAAGAGAGTACTGTATTCAAGCCTTTGAATCATTGTAAAG
AAGATGTCCTAAGGAAGTATATCCTCATGTTTCTACCATTTATAAATATTTGTCTTAAATATCTTACCTATGATCC
AAATTATAATTACGATGATGAAGATGAAGATGAAAATGCAATGGATGCTGATGGTGGTGATGATGATGATCAAGG
GAGTGATGATGAATACAGTGATGATGATGACATGAGTTGGAAAGTGAGACGTGCAGCTGCGAAGTGCTTGGATGC
TGTAGTTAGCACAAGGCATGAAATGCTTCCAGAATTCTACAAGACCGTCTCTCCTGCACTAATATCCAGATTTAA
AGAGCGTGAAGAGAATGTAAAGGCAGATGTTTTTTCACGCATACCTTTCTCTTTTGAAGCAAACCTCGTCCTGTACA
AAGTTGGCTATGTGACCCTGATGCAATGGAGCAGGGAGAAACACCTTTAACAATGCTTCAGAGTCAGGTTCCCAA
CATTGTTAAAGCTCTTCACAAACAGATGAAAGAAAAAAGTGTGAAGACCCGACAGTGTTGTTTTAACATGTTAAC
TGAGCTGGTAAATGTATTACCTGGGGCCCTAACTCAACACATTCTGTACTTGTACCAGGAATCATTTTCTCACT
GAATGATAAATCAAGCTCATCGAATTTGAAGATCGATGCTTTGTGATGTCTATACGTAATCCTCTGTAACCATTCT
TCCTCAAGTCTTCCATCCTCACGTTACAGGCTTTGGTTCCTCCAGTGGTGGCTTGTGTTGGAGACCCATTTTACAA
AATTACATCTGAAGCACTTCTTGTTACTCAACAGCTTGTCAAAGTAATTCGTCCTTTAGATCAGCCTTCTCTCGTT
TGATGCAACTCCTTATATCAAAGATCTATTTACCTGTACCATTAAGAGATTAAAAGCAGCTGACATTGATCAGGA
AGTCAAGGAAAGGGCTATTTCTGTATGGGACAAATTATTTGCAACCTTGGAGACAATTTGGGTTCTGACTTGCC
TAATACACTTCAGATTTTCTTGAGAGACTAAAGAATGAAATTACCAGGTAACTACAGTAAAGGCATTGACACT
GATTGCTGGGTCACCTTTGAAGATAGATTTGAGGCCTGTTCTGGGAGAAGGGGTTCTATCCTTGCTTCATTTCT
TAGAAAAAACAGAGAGCTTTGAAACTGGGTACTCTTTCTGCCCTTGATATTCTAATAAAAAACTATAGTGACAG
CTTGACAGCTGCCATGATTGATGCAGTTCTAGATGAGCTCCACCTCTTATCAGCGAAAGTGATATGCATGTTTC
ACAAATGGCCATCAGTTTTCTTACCCTTTGGCAAAAGTATATCCCTCCTCCTTTCAAAGATAAGTGGATCCAT
TCTCAATGAACTTATTGGACTTGTGAGATCACCTTATTGCAGGGGGGAGCTCTTAGTGCCATGCTAGACTTTTT
CCAAGCTCTGGTTGTCACTGGAACAAATAATTTAGGATACATGGATTTGTTGCGCATGCTGACTGGTCCAGTTTA
CTCTCAGAGCACAGCTCTTACTCATAAGCAGTCTTATTATTCCATTGCCAAATGTGTAGCTGCCCTTACTCGAGC
ATGCCCTAAAGAGGGACCAGCTGTAGTAGGTCAGTTTATTCAAGATGTCAAGAACTCAAGGTCTACAGATTCCAT
TCGTCTCTTAGCTCTACTTTCTCTTGAGAGAAGTTGGGCATCATATTGACTTAAGTGGACAGTTGGAACATAAATC
TGTAATACTAGAAGCTTTCTCATCTCCTAGTGAAGAAGTCAAATCAGCTGCATCCTATGCATTAGGCAGCATTAG
TGTGGGCAACCTTCTGAATATCTGCCGTTTGTCTGCAAGAAATAACTAGTCAACCCAAAAGGCAGTATCTTTT
ACTTCATTCTTGAAGGAAATTATTAGCTCTGCATCAGTGGTGGGCCTTAAACCATATGTTGAAAACATCTGGGC
CTTATTACTAAAGCACTGTGAGTGTGCAGAGGAAGGAACCAGAAATGTTGTTGCTGAATGTCTAGGAAAACCTCAC
TCTAATTGATCCAGAACTCTCCTTCCACGGCTTAAGGGGTACTTGATATCAGGCTCATCATATGCCCGAAGCTC
AGTGGTTACGGCTGTGAAATTTACAATTTCTGACCATCCACAACCTATTGATCCACTGTTAAAGAACTGCATAGG
TGATTTCTTAAAACTTTGGAAGACCCAGATTTGAATGTGAGAAGAGTAGCCTTGGTCACATTTAATTCAGCAGC
ACATAACAAGCCATCATTAAATAAGGGATCTATTGGATACTGTTCTTCCACATCTTTACAATGAAACAAAAGTTAG
AAAGGAGCTTATAAGAGAGGTAGAAATGGGTCCATTTAAACATACGGTTGATGATGGTCTGGATATTAGAAAGGC

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FIGURE 3714B

AGCATTTGAGTGTATGTACACACTTCTAGACAGTTGTCTTGATAGACTTGATATCTTTGAATTTCTAAATCATGT
TGAAGATGGTTTTGAAGGACCATTATGATATTAAGATGCTGACATTTTTTAATGTTGGTGAGACTGTCTACCCTTTG
TCCAAGTGCAGTACTGCAGAGGTTGGACCGACTTGTTGAGCCATTACGTGCAACATGTACAACATAAGGTAAAGGC
AAACTCAGTAAAGCAGGAGTTTGAAAAACAAGATGAATTAAAGCGATCTGCCATGAGAGCAGTAGCAGCACTGCT
AACCATTCCAGAAGCAGAGAAGAGTCCACTGATGAGTGAATTCCAGTCACAGATCAGTTCTAACCCCTGAGCTGGC
GGCTATCTTTGAAAGTATCCAGAAAGATTATCATCTACTAACTTGGAATCAATGGACACTAGTTAGATGTTTGT
TCACCATGGGGACCATTACATATGACCATACAATGCACTGAATTGACAGGTTAATCATAAGACATGGAAAGAGAA
GTGTCTAAAAGCTTCAAATGTTCCACTTTTTTTTCCCTTCATGGAGACTGTTTGTGGCTTTCTTCCATTGTTG
TTTTTGTTAGCATTTATTTTCAGAAATGTGTATTTCCATAATCCAGAGGTTGTAAAACCACTAGTGTTTTAGTGTT
ACAGCAACATTTGAAATGGAAACTAAAAGTTAGGATTTTATGGAGTATGGAGATAGGGTCCAGTATCTATTTACC
CTGTAATGTTTAGGATTAAAATGTTAAAATTTGTGACCATGAATTTCTTTCTTTTATAAATTTTCTCATTTAAA
AATCAAAAATCTTGCAAAACAAAACCATGTTTCTTTTCTTGTATAACTTTTTGTTTTTCAGCAACATAAATTGA
TTTTTAGCTGGCAGACAAGAATATCCATATAAGATTTGTTAACCATTTTCAGAGAGTTTGCCAATTTTTAAAGAT
AATAAGGTATCATTTTTTAAGTATGAAAATTAACAATATCCCTGTTGCGCACACTAATTTTGCATGAGTAAGTTTA
CAAATATGTATCGTCTGTAAAGCAGCATGTGCAGATTATTCATAATATAGAAGTTAAAAATAAGTATTAGTGCAAT
TTTCAGATATTTATTTTTGCACAGAAAACACATTATCTGGAGAGAAAGAAAGGAGAATTTTTGAGACTTGGGTTT
TCTTAATGCCAGTGTGAATTTGCAGATGTTTTTCAGAAAATCAAGTCACAGTAACAATTTGCCACTTTTTTCTATT
ATAAATCTTCTTACTTAAATTTTGAATATTTAGTTTTTCTCAGTTACCCATTTGTGTGTGTGTGATTCCACTTAG
AAATTCTTAAACCAGATTTTTCTTTTCAATCCGTTTGGATGTCTACATTCCTTATCAAAGGATATAAATACTGTG
TATGCTTTTGAATTTTATTTTTAGGAAAATCTGAAGCCAGCTATCACAGGTTTGTTAGCTAATAATAGTATTTT
CTTTTAGTTGAGTTAGGTTTTTCCCCATCTCCTGTAGAGCGAATTTACATATTGTATTGGGTAAAGTGTTCACTAC
TTTTCTGATTAAGGGATCTGTGCTGGGGAACAAAGCTTTTGCAGTACCTTATATTGTAGTTAAAATTTTTATTTA
ACATATCCTTCAGTGAGCTCATTTACACTGTAGCCTCTTCCTTAAAATTTGTGGTGCTCCTGTAACAGTAAGAA
CTAATTCTGAAATAAAAGACATCTCCTAATGCTGTGCAAACATAGTTTACATGTATTGAAGGAGGCAGTTGTAA
ATTGAGTGACCAATTTAAGCAATCAGATATTTGAAAACCTGCACCCTTTAGTTTTGAAACTGTGAATTAGAAACAC
TTTTCTGCTGTATTACTACCTGCTTTAACATCCAAATATACAGTGATTTTAAATGATAACATACTGTGGTTATT
AGATTAAACAGCTTGATTTTGAATGTTTCAGATGATAATGCAGAAGACATCACTTCTAGTAAGGATTTTGACTAGTG
CATTGATGTTGAAGTTGGTGCCATTTCAAATGTGGCAGGTGATAATCTTTTACCATAAATTTGCATAAAACTGTA
ATAGAAGTTTATTTTGAGATGTTAGTATATTATGTACTATGCATTTCTGTGGTATAGATGTTGTGGATATATTTA
AGTATTTGGTTACATGGTTTTTACAATAAATTACAATACTGCAGGC

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FIGURE 3715

CTGGCTTACAGGGCGGCGGGGGTGTGTGTCTCTGTTAAGAGTGCTACTCGCCCGGGGTTGATCTGTGCATGC
CACTCCTGGGTCAGACGGTGAGGTCGGCGTCTGCGAGGACGCGGCGGTGGAGTAGAAGGGCAGCCGGAGACAGGC
CCGGCGCCCCCTTCCGAGGCTAGACGGCCCCAGCTTCGCGGGGATCATGGCATTGCTGGTGGACCGAGTGCGGGGC
CACTGGCGAATCGCCGCGGGGCTCCTGTTCAACCTGCTGGTGTCCATCTGCATTGTGTTCCCTCAACAAATGGATT
TATGTGTACCACGGCTTCCCCAACATGAGCCTGACCCTGGTGCACCTTCGTGGTCACCTGGCTGGGCTTGTATATC
TGCCAGAAGCTGGACATCTTTGCCCCAAAAGTCTGCCGCCCTCCAGGCTCCTCCTCCTGGCCCTCAGCTTCTGT
GGCTTTGTGGTCTTCACTAACCTTTCTCTGCAGAACAAACACCATAGGCACCTATCAGCTGGCCAAGGCCATGACC
ACGCCGGTGATCATAGCCATCCAGACCTTCTGCTACCAGAAAACCTTCTCCACCAGAATCCAGCTCACGCTGATT
CCTATAACTTTAGGTGTAATCCTAAATTCTTATTACGATGTGAAGTTTAATTTTCCTTGGAATGGTGTGTTGCTGCT
CTTGGTGTGTTTAGTTACATCCCTTTATCAAGTGTGGGTAGGAGCCAAACAGCATGAATTACAAGTGAACCTCAATG
CAGCTGCTGTACTACCAGGCTCCGATGTCATCTGCCATGTTGCTGGTTGCTGTGCCCTTCTTTGAGCCAGTGTTT
GGAGAAGGAGGAATATTTGGTCCCTGXX
XXCTATAACATGTTGCGACACTTCAAG
TTCTGCATTACTTTATTTCGGAGGATATGTTTTATTTAAGGATCCACTGTCCATTAATCAGGCCCTTGGCATTTTA
TGTACATTATTTGGCATTCTCGCCTATACCCACTTTAAGCTCAGTGAACAGGAAGGAAGTAGGAGTAAACTGGCA
CAACGTCCTTAATTGGGTTTTTGTGGAGAAAAGAATGTTGTCCAAGAAGATAAAAAATATTGTTAAGTGTGCAA
GTTATTAATAAAAAAAAAAATTGGGCCAGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCC
AGCGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGACCAACATGGAGAAAACCTGTCTCAACTAATAATACA
AAATTAGCCAGGCGTGGTGGCGCATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAAC
CCGGGAGGCGGCGGTTGCAGTGAGCCGAGATCGTACCATTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCCAT
TTCAAAAAAAAAAAAATTGGTGACAGACTCAATGATGGAATGATTTGTGGAATTAACACAAAGCAGATTTTATTC
ATATAATGACTTTTTTTTTAAGAGTCTCTTTTTTAAAAAACTTAATTCTCTAAAACCGAAATGGTTCATGCTTCT
TTTTAAAAATGATTGTATAAAATGTATGGAATGGTTAGCCTGGTGTGGTGGTGCACACCTGTAATCCCAGCTACT
TGGGAGACTGAGACATGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCAATGAGCCAAGATCGTACCCTGCAC
TCCAGCCTGGGCGACAGAGCAAGACACTGCTCTCTCTCTCTCTCCATATATATATGTGTGTGTGTGTATATATA
TATATATGTGTGTGTGTGTGTGTATACATATATACACATATATACACACACACATACATATACATGTGTATAT
ATATACCATCCCATATATATGTGGGAT
GGGTTGGTCCCAGCTGAGTATAGACAATTAAATTACGTGATAA

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FIGURE 3716

MQLLYYQAPMSSAMLLVAVPFFEPVFGEGGIFGPWSVSALLMVLLSGVIAFMVNLSIYWIIGNTSPVTYNMFGHF
KFCITLFGGYVLFKDPLSINQALGILCTLFGILAYTHFKLSEQEGSRSKLAQRP

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FIGURE 3717

GTTTTAGGGACAGACTGCTTCCGGGTCTGAAGGGCTTGCTTCCGGAGAGCGGGAAGGCTAAAACGCGGTAGCTAAA
CTGCAGCCAACTTTGGTTGTGTGTGGAAAAGGCTTTAGCCATGACAGGAGTGGCTTTGGAGAGATATCATCCCC
TGTAATCCGGGAGGCAGAGGTGACACGGACTGCACGGAAACAGAGTGTCTCAGAAAAGAGTTTACTTCAGGCATC
TCAAGATGAAAAATTTGGTAATACTACACCAAGAAACCAGGTTATCCCTCGAACTCCTAGCTCATTTTCGACAGCC
TTTTACCCCAACAAGCCGAAGCTTACTAAGGCAGCCAGATATTTCTGCAATTCCTTGGAACAGGAGGGAAGTCGCC
CCGACTTACGCAGTCTTCAGGGTTCTTTGGAAATCTCTCCATGGTTACTAATCTGGATGACAGTAACTGGGCAGC
TGCAATTTTCATCACAGCGTTCCGGGCTGTTTCAAAAACAGAGCCCCACAGTATAACAGAAGATGTAACATATCAG
TGCTGTTATGTTACGTGAGGATGATCCTGGAGAAAGCTGCATCCATGAGTATGTTTTCTGATTTCTGCACTCTTT
TCTGAAGCACTCTTCGAGTACAGTTTTTGTATCTTGTGGAAAGAGTATGAAAACATCTGTGGTAGTCAGGTGAATAT
ACTGAGTAAAAATAGTGAGTCGAGCAACACCTGGACTTCAAAAATTTTCAAAAACAGCCAGTATGCTCTGGCTTCT
TCAACAGGAGATGGTCACATGGAGGCTGCTGGCTTCTTTGTATAGAGACAGAATACAGTCTGCATTAGAAGAGGA
AAGTGTATTCGCAGTTACTGCTGTTAATGCCAGTGAAAAACAGTTGTGGAAGCGTTATTTTCAGAGGGATTCACT
TGTTTCGACAAAAGTCAGCTGGTGGTAGATTGGTTAGAGAGTATTGCCAAAGATGAAATTGGAGAATTTTCTGATAA
TATTGAGTTTTATGCAAAATCAGTATATTGGGAAAATACTCTGCATACCTTAAACAACGGCAGCTGACTTCTTA
CGTTGGAAGTGTTTCGTCCGCTTGTCACTGAATTGGACCCTGATGCTCCCATAGACAGAAAAATGCCCTTGATGA
TCTGGATAGAGAAGATGAAGTTAGATTACTCAAAATATCTCTTTACTCTAATCCGTGCTGGAATGACAGAAGAGGC
ACAACGACTCTGTAAACGCTGTGGTCAAGCATGGAGAGCTGCAACACTTGAAGGCTGGAACTGTACCATGACCC
TAATGTTAATGGAGGAACAGAATTAGAACCTGTTGAAGGGAATCCATATAGACGCATTTGGAAAATAAGTTGCTG
GAGAATGGCAGAAGATGAGCTTTTTAATAGATACGAGAGAGCAATTTATGCAGCTTTAAGTGGGAATCTTAAGCA
GCTGCTTCCTGTCTGTGACACCTGGGAAGACACAGTTTGGGCCTACTTCCGGGTGATGGTGGACAGTCTGGTAGA
ACAGGAGATCCAGACATCAGTAGCAACTCTGGATGAACTGAAGAACTCCCTAGAGAATATCTGGGAGCAAACTG
GACGTTAGAAAAGGTTTTTGGAGAACTTCAAGCTACTGACAAAAGAGAGTTCTGGAAGAGAATCAAGAACATTA
TCATATAGTTTCAAAAGTTTCTTATCCTGGGAGACATTGATGGTTTGTATGGATGAGTTTAGCAAATGGCTTTCCAA
AAGCAGAAACAATCTACCTGGACACCTGCTTCGCTTTATGACTCACCTTATTTTGTTTTTCCGTACTCTGGGACT
ACAGACCAAGGAGGAAGTTTCTATTGAAGTTTTAAAGACATACATACAGCTTTTAATAAGAGAGAAACATACAAA
TCTTATAGCATTTTATACCTGTCAATTTGCCTCAAGACCTAGCTGTTGCCAGTATGCATTATTTTTGGAAAGTGT
TACAGAATTTGAACAGCGCCACCATTGCCTGGAGTTGGCTAAAGAAGCAGATTTGGATGTTGCAACAATAACAAA
AACTGTAGTTGAGAATATTCGAAAGAAAAGATAATGGTGAATTTAGTCATCATGACCTGGCCCCAGCCCTAGATAC
TGGCACTACTGAGGAGGATCGTTTTAAAAATTGATGTAATTGACTGGTTGGTATTTGACCCAGCGCAGAGGGCAGA
AGCACTGAAACAAGGCAATGCAATTATGAGAAAATTCTTGGCATCAAAAAAGCACGAAGCTGCAAAAGAAGTATT
TGTGAAAATTCCTCAGGATTCTATAGCAGAAATCTATAATCAGTGCAGGAACAAGGAATGGAAAGTCCACTTCC
TGCTGAAGATGATAATGCTATCCGAGAACATTTGTGCATCAGAGCTTATTTGGAAGCCCATGAAACCTTTAATGA
GTGGTTTAAGCATATGAATTCAGTTCCACAAAAACCTGCTTTGATACCTCAACCAACTTTTACTGAGAAAGTGGC
TCATGAACACAAAGAAAAGAAATATGAAATGGATTTTGGTATTTGGAAAGGGCATTGGATGCCCTAACTGCTGA
TGTGAAGGAGAAAATGTATAACGTCTTGTGTTTGTGATGGAGGGTGGATGGTGGATGTTAGAGAGGATGCCAA
AGAAGACCATGAAAGAACACATCAAATGGTCTTACTGAGAAAGCTTTGTCTGCCAATGTTGTGTTTTCTGCTTCA
TACGATATTGCACAGTACTGGTCAGTATCAGGAATGCCTACAGTTAGCAGATATGGTATCCTCTGAGCGCCACAA
ACTGTACCTGGTATTTTCTAAGGAAGAGCTAAGGAAGTTGCTGCAGAAGCTCAGAGAGTCCTCTCTAATGCTCCT
AGACCAGGGACTTGACCCATTAGGGTATGAAATTCAGTTATAGTTTTAATCTTTGTAATCTCACTAATTTTCATGA
TAAATGAAGTTTTTAATAAAATATACTTGTATTAGTAATTTTTCTTTTGCATTACCATGTAAAATTTAGACAT
TTGAATTTTGTACTTTTCAGAAATATTATCGTGACACTTCAACATGTAGGGATATCAGCGTTTCTCTGTGTGCTT
GTTAATAAACTATATAAAAATTAATAATTTCTGTTTTTACAAAAA

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FIGURE 3718

MDRSGFGEISSPVIREAEVTRTARKQSAQKRVLLQASQDENFGNTTPRNQVIPRTFSSFRQPFPTPTSRSLLRQPD
ISCILGTGGKSPRLTQSSGFFGNLSMVTNLDDSNWAAAFSSQSRGLFTNTEPHSITEDVTISAVMLREDDPGEAA
SMSMFSDFLQSFLLKSSSTVFDLVEEYENICGSQVNILSKIVSRATPGLQKFSKTASMLWLLQQEMVTWRLLASL
YRDRIQSALEEEESVFAVTAVNASEKTVVEALFQRDSLVRQSQLVVDWLESIAKDEIGFSDNIEFYAKSVYWENT
LHTLKQRQLTSYVGSVRPLVTELDPDAPIRQKMPLDDLDREDEVRLKYLFTLIRAGMTEEAQRLCKRCGQAWRA
ATLEGWKLYHDPNVNGGTELEPVEGNPYRRIWKISCWRMAEDELFNRYERAIIYAALSGNLKQLLPVCDTWEDTVW
AYFRVMVDSLVEQEIQTSVATLDETEELPREYLGANWTLEKVFEELQATDKKRVLEENQEHYHIVQKFLILGDID
GLMDEFSKWLSKSRNNLPGHLLRFMTHLILFFRTLGLQTKKEVSIEVLKTYIQLLIREKHTNLIAFYTCHLPQDL
AVAQYALFLESVTEFEQRHHCLELAKEADLDVATITKTVVENIRKKDNGEFSHHDLAPALDTGTTEEDRLKIDVI
DWLVFDPAQRAEALKQGNAIMRKFLASKKHEAAKEVFVKIPQDSIAEIYNQCEEQGMESPLPAEDDNAIREHLCI
RAYLEAHETFNEWFKHMNSVPQKPALIPQPTTFTEKVAHEHKEKKYEMDFGIWKGHLDALTADVKEKMYNVLLFVD
GGWMVDVREDAKEDHERTHQMVLLRKLCLPMLCFLHHTILHSTGQYQECQLADLMVSSERHKLYLVFSKEELRKL
LQKLRESSLMLLDQGLDPLGYEIQI

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FIGURE 3719

CCTTCCAAGTAACTGGGATTACAGGCATGTACCACCATAACCAGCTGATTTTTTTGTATTTTTAGTAAAGACAGGG
TTTCACCATGTTAGCCAGGCTGATCTTGAACCTCTAACTCAAGTGATCTACTCACCTCAGCCTCCCAAAATGCT
GGGATTACAGATGTGAGGCACCTGGCCTCAGATTTTTGATACTCTTAAACCTTCTGATCCTTAGTTTTCTCTCTCC
AAAATACTCTTTCTAGGTTAAAAAAGGCTCTTATATTTGGTGCTATGTAAATGAAAATGTTTTTAGGTT
TTCTTGATTTAACAATAGAGACAGGTCTCCCTGTGTTGCCCAGGCTGGTCTCGAACTCCTGGGCTCAAGAGATC
CTCCTGTCTTGGCCTCGCAAAGTGCTAAGTAGGATTACAGGCGTTAGCCACCACACCCGGCTGTAAAAATGTACT
TATTCTCCAGCCTCTTTTGTATAAACCATAGTAAGGGATGGGAGTAATGATGTTATCTGTGAAAATAGCCACCAT
TTACCCGTAAAGACAAAACCTTGTTAAAGCCTCCTGAGTCTAACCTAGATTACATCAGGCCCTTTTTTCACACACAAA
AAAATCCTTTATGGGATTTAATGGAATCTGTTGTTTCCCCCTAAGTTGAAAAACAACCTCTAAGACACTTTAAAGT
ACCTTCTTGGCCTGGGTTACATGGTTCCCAGCCTAGGTTTCAGACTTTTGCTTAAGGCCAGTTTTAGAAACCCGT
GAATTCAGAAAAGTTAATTCAGAAATTTGATAAACAGAATTGTTATTTAAAACTAAGTGGAAAAGATTGTTAAGT
TCTTTCTGAATTATTCAGAAATTTATGCATCATTTTTCTTCAAGAATGACAGGGTCAGCATGTGGAATTCGAAGT
ACCTCTTGACTTCCTCTCAAGCTCCGTGTTTGGTCAGTGGAGGCCATCCGAGCTCAGCACTGAGAAGTGTAGT
TTCTTTGGGACCCATCTACCCTGACCACATCATGATGTTTCATCTGCAGCTGTTGCAAGGTGTTGAGATTGTATAA
ACATAAATGTCACAAAAACTTTAAAGAAGTGCAATTCTCAAAGGTTAGGTGGACTAAAGCATTCTGTAAAGCA
ACTGCTAATAATGAGCTTACAGTGGATTTGAATTTGAAAAATATAGTAACAAGCCTGTCAAATATCTGCAAGAAC
TATGGAATAAACTACTGATGCAGTGAAGACAGTTGAAAAGATCAAACAAATGCCAAGCTATATTTATAATGAAC
AAATTCAAGAAAAAGGACTACGGAAAGTTCAGGACATCAAAGAAGTCAGGCAAACTCATCTTGACCCCTGTTGC
AGGCAAAGGAACGCAGCTGGAAGAAAAGATGATATAACAGTTAACAGGATGCAGACATGGCAGAGGTTTCCTAAA
AATCTCATTATCTATAACCATTTCTATATTTACATTTGAAAATCTCCTTTGGAGACTTAGAACCTCTAAATTATT
GACTTATTTTTTATATAAGGTCACTCCGATGAAAGGTGATTACAAAATCATCTACATTGCTGTCTACAAAACAGA
TAATATGGATGTTTGATCGCATCTCATTGTAACTCTTTACTGATATGTTTGTAATAACAGAAAGTGAATGTGG

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FIGURE 3720

GTAAACCAGCCGGAGCGGCGCGGCAGCGGCAGGACCGCCGTGGCGCCTAGAGTAGCGACCCGGGGGGAGCGCGGG
GCGACGCTGGCTGCAGGGACCCGGTGACAGCGTGAGAGGTTTCGCAGAGTACTAGGTTTTGACAAGCTTGCATC**AT**
GCGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAGGCGTTGGAAAGTCTGCTTTGACTGTACAATTTGTTCAAGG
AATTTTTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAAGTTGAAGTAGATGCACAACAGTG
TATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGAGGGATTTATACATGAAAAATGGACA
AGGATTTGCATTAGTTTATTCCATCACAGCACAGTCCACATTTAACGATTTACAAGACCTGAGAGAACAGATTCT
TCGAGTTAAAGACACTGATGATGTTCCAATGATTCTTGTGGTAATAAGTGTGACTTGGAAGATGAAAGAGTTGT
AGGGAAGGAACAAGGTCAAAATCTAGCAAGACAATGGAACAACGTGTCATTCTTAGAATCTTCTGCAAAATCAAA
AATAAATGTTAATGAGATCTTTTATGACCTAGTGCGGCAAATTAACAGAAAACTCCAGTGCCCTGGGAAGGCTCG
CAAAAAGTCATCATGTGTCAGCTGCTTT**TAA**TATACTAAATGCATTGTAGCTCTGAGCCAGGTCTGAAGAACTGTTGC
CCAATTCAACAGTGCCAGCATTCCAACCTTTGTTAAACCTACCAACATCTTAAATGGACTTTCCGTGGTGTTGACC
CTTTAAGAGGCGGATGAAAGCTACTATATCAGTTTGCACATTTCTAATCACTTTCCAGTATCACAAAGAGAGATTTT
TACTTATATAATAGTCCTAGAGTTTGCAGCTGGTAAAACCAGAGGCTACATCCAGTATTACTGCTAAGAGACATT
CTTCATCCACCAATGTTGTACATGTATGAAAAATGGTGTACTGTATACTTTAACATGCCCCATACTTTGTATTGGA
GAGTACAATAATGTAAATCCTAAAAGCACCCTATTTTAGCATAATAAAAGAAAGTCCAAAAGAGCTCCTATATAG
ACTACTCCAGATAACTTCGCTTCTTTGATACTTGTAGCTTATTGTAATTTTTTTTTAAGAAATTCAGGTCATTAT
TATTGTACAAAATAAGCGCTTTGATTAACACAGCTATATAGTTTTTTTAAATTTTTTAAAAAACCTGTGGAGACGGT
GATCTTGTCTTTAAACATGATAGTCCTTTCAGTATAATGTCTTAGATTAAAGACGTTGCCTTTAATATCTGTTG
GGAAGGAAATGTCCAGACTTTTCAAATCTCTTATTATATGTTTCCTTTTTTTGTTTACATAGGGAACAATGTTTA
TAGTCGTGTGTACAGTGGGGTCTACAACAAGAAGTGTATATTTTCAAACAATTTTTTAATGATTTAACAATTTT
TGTAATCATTTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGCTTGCTCATGCATAAGTGTATT
TGCAATACCAAATATACAGGTTTAGTATTTTTGCCTGTTAGTGATTGTTTCACATGTGTAACGTTTTGGTTGAGA
TGTTAAATGGTGGACGAGTACTGTGGATGTGAATGTGGGAAGTAATTTAATCATATGTAATTGGTCACAAGGCC
TAATTTGCAGTAACTATTGCTGTTTTATTTAACAATGCCTTGTTGCTTTGTATGCATTAATGTTTGGATGTAAAG
ATTGTGTGTCTATCCAACAGGGAGCCACAGTATTTAAATTGACCAACCTAATGTTACAACCTACTTTGAGGTGGCC
AAATGTAAACTAAAAGCCTTAATTAAAGTGGTGCAATTTTGTAACCAAAAAA

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FIGURE 3721

MREYKLVVLGSGGVGKSALTQFVQGIFVEKYDPTIEDSYRKQVEVDAQQCMLEILD
TAGTEQFTAMRDLYMKNG
QGFALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVGNKCDLEDERVVGKEQGQNLARQWNNCAFLESSAKS
KINVNEIFYDLVRQINRKTVPVPGKARKKSSCQLL

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FIGURE 3722

TTTCCGCGCTACCTGCAGAGGGGTCCATACGGCGCTGTTCTGGATTCCCGTTGTAACCTAAAGGGAAACTTTTCAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAGGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATGAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCATGCTATTGTTGCCATTGAAAACCCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGACGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGGCGCTTCACTCCTGGAACCTTCACTAACAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTAC
TGACCCCAGGGCTGACCACCAGCCTCTACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTTACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGTGCATGCTTGGCACCATTTCCTGTGAACACCCATGGGAGGTCATGCCTGA
TCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGA
GGAATTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCAGTCTATTGAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTGAGCAATTCCTACTGAAGACTGGAGCTCTCAGCCTGCCATGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCT**TAA**GCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGTTGATGGAAAATAAGCATCAGTTTCT

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FIGURE 3723

MSGALDVLQMRREEDVLKFLAAGTHLGGTNLDFQMEQYIYERKSDGIYIINLKRTWEKLLLAHAIVAIENPADVS
VISSRNTGQTAVLKFAAATGATPIAGRFTPGTFTNQIAAFREPRLLVVTDPRAHQPLTEASYVNLPTIALCNT
DSPLRYVDIAIPCNNKGAYSVGLMWWMLAREVLCMLGTISCEHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTAIQPEVADWSEGVQVPSVPIQQFPTEDWSSQPAMEDWSAAPTQAQATEWVGATTDWS

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FIGURE 3724

GGCACGAGAAAATTTCATGCGAGGGAGACGTGGTGGGCGGTCCTTCCTGTGACACGACCCCTTGAGTGACAGTTCTA
TTTGATTGCCTCCGGTACTGTGAGGAAAGGACACGACTCTATGGTGAGGACTGATGGACATACATTATCTGAGAA
AAGAACTACCAGGTGACAAACAGCATGTTTGGTGCTTCAAGAAAGAAGTTTGTAGAGGGGGTCGACAGTGACTA
CCATGACGAAAACATGTACTACAGCCAGTCTTCTATGTTTCCACATCGGTCAGAAAAAGATATGCTGGCATCACC
ATCTACATCAGGTCAGCTGTCTCAGTTTGGGGCAAGTTTATACGGGCAACAAAGTGCACTAGGCCTTCCAATGAG
GGGGATGAGCAACAATACCCCTCAGTTAAATCGCAGCTTATCACAAGGCACTCAGTTACCGAGCCACGTCACGCC
AACAACAGGGGTACCAACAATGTCACTTCACACGCCCTCCATCTCCAAGCAGGGGTATTTTGCCATGAAATCCTAG
GAATATGATGAACCACTCCCAGGTTGGTCAGGGCATTGGAATTCCTAGCAGGACAAATAGCATGAGCAGTTCAGG
GTTAGGTAGCCCCAACAGAAGCTCGCCAAGCATAATATGTATGCCAAAGCAGCAGCCTTCTCGACAGCCTTTTAC
TGTGAACAGTATGTCTGGATTTGGAATGAACAGGAATCAGGCATTTGGAATGAATAACTCCTTATCAAGTAACAT
TTTTAATGGAACAGACGGAAGTGAAAATGTGACAGGATTGGACCTTTCAGATTTCCCAGCATTAGCAGACCGAAA
CAGGAGGGAAGGAAGTGGAACCCAACTCCATTAATAAACCCCTTGGCTGGAAGAGCTCCTTATGTTGGAATGGT
AACAAAACCAGCAAATGAACAATCCCAGGACTTCTCAATACACAATGAAGATTTTCCAGCATTACCAGGCTCCAG
CTATAAAGATCCAACATCAAGTAATGATGACAGTAAATCTAATTTGAATACATCTGGCAAGACAACCTTCAAGTAC
AGATGGACCCAAATTCCCTGGAGATAAAAGTTCAACAACACAAAATAATAACCAGCAGAAAAAAGGGATCCAGGT
GTTACCTGATGGTCGGGTTACTAACATTCCCTCAAGGGATGGTGACGGACCAATTTGGAATGATTGGCCTGTTAAC
ATTTATCAGGGCAGCAGAGACAGACCCAGGAATGGTACATCTTGCATTAGGAAGTGACTTAACAACATTAGGCCT
CAATCTGAACCTCTCCTGAAAATCTCTACCCCAAATTTGCGTCACCCTGGGCATCTTCACCTTGTCGACCTCAAGA
CATAGACTTCCATGTTCCATCTGAGTACTTAACGAACATTACATTAGGGATAAGCTGGCTGCAATAAAACTTGG
CCGATATGGTGAAGACCTTCTCTTCTATCTCTATTACATGAATGGAGGAGACGTATTACAACCTTTTAGCTGCAGT
GGAGCTTTTTTAACCGTGATTGGAGATACCACAAAGAAGAACGAGTATGGATTACCAGGGCACCAGGCATGGAGCC
AACAATGAAAACCAATACCTATGAGAGGGGAACATATTACTTCTTTGACTGTCTTAAGTGGAGGAAAGTAGCTAA
GGAGTTCATCTGGAATATGACAAATTAGAAGAACGGCCTCACCTGCCATCCACCTTCAACTACAACCCTGCTCA
GCAAGCCTTCTTAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3725

MVRTDGHTLSEKRNYQVTNSMFGASRKKFVEGVDS DYHDENMYYSQSSMFPHRSEKDMLASPSTSGQLSQFGASL
YGQQSALGLPMRGMSNNTPQLNRSLSQGTQLPSHVTP TTGVPTMSLHTPPSPSRGILPMNPRNMMNHSQVGQGIG
IPSRTNSMSSSSGLGSPNRSSPSIICMPKQQPSRQPF TVNSMSGFGMNRNQAFGMNNSLSSNIFNGTDGSENV TGL
DLSDFPALADRNRREGSGNPTPLINPLAGRAPYVGMVTKPANEQSQDFSIHNEDFPALPGSSYKDP TSSNDDSKS
NLNTSGKTTSSSTDGPKFPGDKSSTTQNNNQKKGIQVLPDGRVTNIPQGMVTDQFGMIGLLTFIRAAETDPGMVH
LALGSDLTTLGLNLNSPENLYPKFASPWASSPCR PQDIDFHPSEYLTNIHIRDKLAAIKLGRYGEDLLFYLYYM
NGGDVLQLLAAVELFN RDWRYHKEERVWITRAPGMEPTMKTNTYERGTYFFDCLNWRKVAK EFHLEYDKLEERP
HLPSTFNYNPAQQAF

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FIGURE 3726

CTGGTCCCGAGCACGAGCTGTGAGGGGATTCACTTGTGTGCGGAACTCCTCGGAACCATGGCGTCCCTTTCCCTT
GCACCTGTAAACATCTTTAAGGCAGGAGCTGATGAAGAGAGAGACAGAGACAGCTCGTCTGACTTCTTTTATTGGT
GCCATCGCCATTGGAGACTTGGTAAAGAGCACCTTGGGACCCAAAAGGCATGGACAAAATTCTTCTAAGCAGTGG
CGAGATGCCTCTCTTATGGTAACCAATGATGGTGCCACTATTCTAAAAAACATTGGTGTGACAATCCAGCAGCT
AAAGTTTTAGTTGATATGTCAAGGGTTCAAGATGATGAAGTTGGTGATGGCACTACCTCTGTTACCGTTTTAGCA
GCAGAATTATTAAGGGAAGCAGAATCTTTAATTGCAAAAAAGATTTCATCCACAGACCATCATAGCGGGTTGGAGA
GAAGCCACGAAGGCTGCAAGAGAGGCGCTGTTGAGTTCTGCAGTTGATCATGGTTCCGATGAAGTTAAATTCCGT
CAAGATTTAATGAATATTGCGGGCACAACATTATCCTCAAAACTTCTTACTCATCACAAGACCACCTTTACAAAG
TTAGCTGTAGAAGCAGTTCTCAGACTGAAAGGCTCTGGCAACCTGGAGGCAATTCATATTATCAAGAAGCTAGGA
GGAAGTTTGGCAGATTCCATTTAGATGAAGGCTTCTGTGGATAAAAAAATTGGAGTAAATCAACCAAAACGA
ATTGAAAATGCTAAAATTCTTATTGCAAATACTGGTATGGATACAGACAAAATAAGATATTTGGTTCCCGGGTA
AGAGTTGACTCTACAGCAAAGGTTGCAGAAATAGAACATGCGGAAAAGGAAAAAATGAAGGAGAAAGTTGAACGT
ATTCTTAAGCATGGAATAAATTGCTTTATTAACAGGCAATTAATTTATAATTATCCTGAACAGCTCTTTGGTGCT
GCTGGTGTGTCATGGCTATTGAGCATGCAGATTTTGCAGGTGTGGAACGCCTAGCTCTTGTACAGGTGGTGAAATT
GCCTCTACCTTTGATCACCCAGAACTGGTGAAGCTTGGAAGTTGCAAACTTATCGAGGAAGTCATGATTGGAGAA
GACAAACTCATTCACTTTTCTGGGGTTGCCCTTGGTGAGGCTTGTACCATTGTTTTGCGTGGTGCCACTCAACAA
ATTTTAGATGAAGCAGAAAGATCATTGCATGATGCTCTTTGTGTTCTTGCGCAAAGTAAAGGACTCTAGAACA
GTTTATGGAGGAGGCTGTTCTGAGATGTTGATGGCTCATGCTGTGACACAGCTTGCCAATAGAACACCAGGCAAA
GAAGCTGTTGCAATGGAGTCTTATGCTAAAGCACTGAGAATGTTGCCAACCATCATAGCTGACAATGCAGGCTAT
GACAGTGCAGACCTGGTGGCACAGCTCAGGGCTGCTCACAGTGAAGGCAATACCACTGCTGGATTGGATATGAGG
GAAGGCACCATTTGGAGATATGGCTATCCTGGGTATAACAGAAAGTTTTCAAGTGAAGCGACAGGTTCTTCTGAGT
GCAGCTGAAGCAGCAGAGGTGATTCTGCGTGTGGACAACATCATCAAAGCGGCACCCAGGAAACGTGTCCCTGAT
CACCACCCCTGTTAAGCATTCCCACGTGCTGTGATCTTTGGACCAGTTTCTAGCAAAGTTGTGTTTGAAAGATA
CTCTATTAAAGAAGACTGTGGAATCTGTTTATCGGTGCCATTATATCCTTAAGTTTGGATATTTAGCTGACCTT
CGCTTTAACATAGGTCTAATTTATTTGCCGTGTCATTTTCCATACAAATCAGTTGATTAAAAAAGTTCATTTCT
CATACTGTGCATTAAAATAAAAAATTTGAACAAT

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FIGURE 3727

CGGCGTTCTCCACCTGCGCGGGCCTGAATGGCCTTCAGGAGCACAGTCGGCCTGAGGAGTTGACGGTTACTCACC
GCCGTGAGCCCAAGTAACTCGCCCTCCTTCGGCTAAAAACCTCCGCCTGGGCCC GCGCGACAGGAGCGCGGTCT
CTGAGGGGAGCGGCGACCCCGCCAGCCCCGGTCTCTTTCCCTGGCGGCGGGCTTCTTCCGTGGGACAATATGT
TCAAGAGAATGGCCGAATTTGGGCCTGACTCCGGCGGGAGAGTAAAGGGTGTTACTATCGTTAAACCAATAGTTT
ACGGTAATGTTGCTCGGTATTTTGAAAGAAAAGAGAAGAAGATGGGCACACTCATCAGTGGACAGTATATGTGA
AACCATATAGAAATGAGGATATGTCAGCATATGTGAAGAAAATCCAGTTTAAATTACATGAAAGCTATGGCAATC
CTTTAAGAGTTGTTACTTAAACCTCCATATGAAATTACTGAAACAGGATGGGGTGAATTCGAAATAATCATCAAAA
TATTTTTTCATTGACCCTAATGAAAGACCTGTAAACCTGTATCATTTGCTAAAGCTGTTTCAATCAGACACCAATG
CAATGCTGGGGAAAAAGACAGTGGTTTCAGAGTTCTATGATGAAATGATATTTCAAGACCCAACAGCAATGATGC
AACAATTATTGACAACATCTCGTCAGCTAACATTAGGAGCCTATAAGCATGAAACAGAATTTGCAGAGCTTGAAG
TGAAAACCAGAGAAAAATTAGAAGCTGCTAAGAAAAAAAACAAGCTTTGAGATTGCAGAGCTTAAGGAGAGATTAA
AAGCAAGTCGTGAACTATAAATTGTTTTAAAAAATGAAATCAGAAAACCTGAAGAAGATGACCAAGCAAAAGACA
TATTAAACAGTTCTCATGAGAACTTGGTAGTAAGCTAAACTGAAAATAAGGTGGGCTTCACTGGAGAAATGGACTT
ACTGCAAATGCTGTGATGTTTCTTAGAGGAACCTTCATATACAGCTGTTGACCATGAATTTCTTAGCAATAGGAAT
TTGTACTATTTAAGCAATCTTTAATGGAAAATATGTGTGTAAGAATGGATGCTATATAGGTATTTTACCAACCCA
TTTTAAGAAAATTCTATGATATTAAGCACAGTTTTTTAAAAATGTTTATTGTAGTATATGTATAGCTTATTACCCT
TTTGACAGGCATCAAAATTTCAATTATAAAGTATTACTTGTACAAATTTTGTACTTCTTTAGTGGCTAGAATTAGT
GAAGAACTTAATGTGTATATTTAATTTCTTCAAGTTCTTACCTGCCCCATCCTTTTTTGTATATGATGTGTCC
AGTAAGTATTCAATAAATGTAGTTTACAGATCCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3728

MFKRMAEFGPDSGGRVKGVTIVKPIVYGNVARYFGKKREEDGHTHQWTVYVKPYRNEDMSAYVKKIQFKLHESYG
NPLRVVTKPPYEITETGWGEFEIIIIKIFFIDPNERPVTLYHLLKLFQSDTNAMLGKKTIVVSEFYDEMIFQDPTAM
MQQLTTSRQLTLGAYKHETEFAELEVKTREKLEAAKKKTSFEIAELKERLKASRETINCLKNEIRKLEEDDQAK
DI

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FIGURE 3729

CTAGCACTCTGACCTAGCAGTCAACATGAAGGCTCTCATTGTTCTGGGGCTTGTCTCCTTTCTGTTACGGTCCA
GGGCAAGGTCTTTGAAAGGTGTGAGTTGGCCAGAACTCTGAAAAGATTGGGAATGGATGGCTACAGGGGAATCAG
CCTAGCAAACCTGGATGTGTTTGGCCAAATGGGAGAGTGGTTACAACACACGAGCTACAAACTACAATGCTGGAGA
CAGAAGCACTGATTATGGGATATTTTCAGATCAATAGCCGCTACTGGTGTAATGATGGCAAAACCCAGGAGCAGT
TAATGCCTGTCATTTATCCTGCAGTGCTTTGCTGCAAGATAACATCGCTGATGCTGTAGCTTGTGCAAAGAGGGT
TGTCCGTGATCCACAAGGCATTAGAGCATGGGTGGCATGGAGAAATCGTTGTCAAAACAGAGATGTCCGTCAGTA
TGTTCAAGGTTGTGGAGTGTAACTCCAGAATTTTCCTTCTTCAGCTCATTTTGTCTCTCTCACATTAAGGGAGTA
GGAATTAAGTGAAAGGTCACACTACCATTATTTCCCTTCAAACAAATAATATTTTACAGAAGCAGGAGCAAAA
TATGGCCTTTCTTCTAAGAGATATAATGTTCACTAATGTGGTTATTTTACATTAAGCCTACAACATTTTTCAGTT
TGCAAAATAGAACTAATACTGGTGAAAATTTACCTAAAACCTTGTTATCAAATACATCTCCAGTACATTCCGTTT
TTTTTTTTTTTTGAGACAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCAACC
TCCACCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACGGGCGCCCGCCACCACG
CCCGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACC
TTGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCACATTCAGT
TCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAAAAAATATAAGAA
AAGGTTATCTTAAATAGATCTTAGGCCAAAATACCAGCTGATGAAGGCATCTGATGCCTTCATCTGTTTCAGTCATC
TCCAAAACAGTAAAAATAACCACTTTTTGTTGGGCAATATGAAATTTTTAAAGGAGTAGAATACCAAATGATAG
AAACAGACTGCCTGAATTGAGAATTTGATTTCTTAAAGTGTGTTTCTTTCTAAATTGCTGTTTCTTAATTTGAT
TAATTTAATTCATGTATTATGATTAAATCTGAGGCAGATGAGCTTACAAGTATTGAAATAATTACTAATTAATCA
CAAATGTGAAGTTATGCATGATGTAAAAAATACAAACATTCTAATTAAAGGCTTTGCAACAC

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FIGURE 3730

MKALIVLGLVLLSVTVQGKVFERCELARTLKRLGMDGYRGISLANWMCLAKWESGYNTRATNYNAGDRSTDYGIF
QINSRYWCNDGKTPGAVNACHLSCSALLQDNIADAVACAKRVVRDPQGIRAWVAWRNRCQNRDVRQYVQGCGV

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FIGURE 3731

CCCTGAGTCACTGCCTGCGCAGCTCCGGCCGCCTGGCTCCCCATACTAGTCGCCGATATTTGGAGTTCTTACAAC
ATGGCAGACATTGACAACAAAGAACAGTCTGAACTTGATCAAGATTTGGATGATGTTGAAGAAGTAGAAGAAGAG
GAAACTGGTGAAGAAACAAAACCTCAAAGCACGTCAGCTAACTGTTTCAGATGATGCAAAATCCTCAGATTCTTGCA
GCCCTTCAAGAAAGACTTGATGGTCTGGTAGAAACACCAACAGGATACATTGAAAGCCTGCCTAGGGTAGTTAAA
AGACGAGTGAATGCTCTCAAAAACCTGCAAGTTAAATGTGCACAGATAGAAGCCAAATTCTATGAGGAAGTTCAC
GATCTTGAAAGGAAGTATGCTGTTCTCTATCAGCCTCTATTTGATAAGCGATTTGAAATTATTAATGCAATTTAT
GAACCTACGGAAAGAAGTGTGAATGGAAACCAGATGAAGAAGATGAGATTTCCGAGGAATTGAAAGAAAAGGCC
AAGATTGAAGATGAGAAAAAAGATGAAGAAAAAGAAGACCCCAAAGGAATTCCTGAATTTTGGTTAACTGTTTTT
AAGAATGTTGACTTGCTCAGTGATATGGTTCAGGAACACGATGAACCTATTCTGAAGCACTTGAAAGATATTAAA
GTGAAGTTCTCAGATGCTGGCCAGCCTATGAGTTTTGTCTTAGAATTTCACTTTGAACCCAATGAATATTTTACA
AATGAAGTGCTGACAAAGACATACAGGATGAGGTCAGAACCAGATGATTCTGATCCCTTTTCTTTTGATGGACCA
GAAATTATGGGTTGTACAGGGTGCCAGATAGATTGGAAAAAAGGAAAGAATGTCACCTTTGAAAACCTATTAAGAAG
AAGCAGAAACACAAGGGACGTGGGACAGTTCGTACTGTGACTAAAACAGTTTCCAATGACTCTTTCTTTAACTTT
TTTGCCCTCCTGAAGTTCCTGAGAGTGAGATCTGGATGATGATGCTGAAGCTATCCTTGCTGCAGACTTCGAA
ATTGGTCACTTTTTACGTGAGCGTATAATCCCAAGATCAGTGTTATATTTTACTGGAGAAGCTATTGAAGATGAT
GATGATGATTATGATGAAGAAGGTGAAGAAGCGGATGAGGAAGGGGAAGAAGAAGGAGATGAGGAAAAATGATCCA
GACTATGACCCAAAGAAGGATCAAACCCAGCAGAGTGCAAGCAGCAGTGAAGCAGGATGTATGTGGCCTTGAGG
ATAACCTGCACTGGTCTACCTTCTGCTTCCCTGGAAAGGATGAATTTACATCATTTGACAAGCCTATTTTCAAGT
TATTTGTTGTTTGTGTTGCTTGTTTTGTTTTGTTTTGCAAGCTAAAATAAAAATTTCAAATACAATTTTAGTTCTTACAA
GATAATGTCTTAATTTTGTACCAATTCAGGTAGAAGTAGAGGCCTACCTTGAATTAAGGGTTATACTCAGTTTTT
AACACATTGTTGAAGAAAAGGTACCAGCTTTGGAACGAGATGCTATACTAATAAGCAAGT

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FIGURE 3732A

AGAGGCCCAGGAGGCTGGGTGAGGCGCTGAGACGGTTTGGCGGTGAGTCCTGGGCCAGGCGCAGCTGAAAAGGCCCG
GCAACCCGGGAAACGTCAAAACAAACAGAAGGACTTGGGATTCCGGAGCAGTCGCCCCCTATCGCTGCTCCTGCAG
TTGCGGACGCCACCGACCCGCCGCGGAGGACTGGGCACTGAAAGGCCTCTAGGCCTAGGCGCGGCCCGCGGAG
CCAGACGTGTTGCTGCCGTGAGTAAAACGAGCGCCCTCTCCGCACTCGTTTACAAATTAAAATGGAGGAAATTTT
GTTGGCCAACCTGGATACTAACAGCTAGAGGCCATCGCTCAGGAGATTTACGTAGACCTGATAGAGGATTCTTG
TTTGGGATTCTGCTTTGAGGTGCACCGGGCAGTCAAGTGTGGCTACTTCTACCTGGAGTTTCGCAGAGACTGGTAG
CGTGAAGGATTTTGGCATTTCAGCCAGTGAAGACAAAGGAGCGTGCCGCCTCCCGCTTTGCTCCCTTCCCGGAGA
ACCTGGGAATGGGCCTGATCAGCAGCTGCAGCGCTCACCTCCGGAATTCCAGTAGCTGCAAAATGAGAGTCTGAA
AGTGGCCAGGACAATAACATAGACTGGTCCTGTGGCTTCGAGGAGTAAGCTAAGTAGAAAAAGTAGAAAAATCA
GACAAAAGTTTTAATTCCTCCCTTGAAGATCCTAGCATTTAAAAACCCAAAGTGGATAATTTAGGAATCCTTTTTT
TAAAGTGTATTACCTGGAGCAAGCTCTGAAGCCCTGGGCAGGAGGAGCTGCACAGCCTGCGGGCCATGCAGTGCC
TGTTGATCTCTAAACACACCAGGATGTGCGCAAGATCCTGTAGTGCCCCCAGTGACAGGTGAGCAGTTGTGTGC
CCAGCATATAAAATTTTTGGTTCTCAGCCTTTCTGTCTGCCTGATGTCAAGGGCTTCTTGGACAGTTTGGACGT
TACAGTTCGTACAGGCCGTGATCAGTGGCCTGCAGTGGGACTGCTCCTTTGATATCTGAACCTCTGTTATGGGCTT
CTCTGAGACAAGTAAATGTACAGGTGCAAGATCTGGATACTAACAGTTTCAGTTTGGGAAATCCAAGAAAAAGAAT
TATCAAGTTTGATAGGGAAGCTCTGTAGCCTTGACTCCAGCAAGAAGAAAAGGTCAAAACACAGTGTTTCCCAAA
AGTCCAGACTACAATGATTACAGCTGACTTGAGGACAAGGCCTAGCATTTGGCTGAGCAGAGCCCTCTTCCTTGCC
CTCCAACCTGGTGGCATAGGCTTGCCAAATGGACAACCTTGGTTGTCCAGACAGGTTGAGGATTTCGGTTATGATCC
CCTGGGGAGGTAGCAGGGACCTCTGCAACTATGCATGATTTCTCAAACCTCAAGATTTCATGTCTGGATGTATTAT
GCTGTGGATATAAGTTTGTAGGGCGGTCAATTCCTACTCTGAGTTACTGGTTACCTAGCCAGTCCATGGGTGTG
ACTTGGTCTTAAGTCAGGTCACTATCTGCCTCCACCCCTGGGGGCAGGACTGAAGTATGGAAGAGCATCATGGC
TGTGCAGGAGGCTGTGGTTTGAAAACCTGAGCCAGAGGGCACTTTCAGCTGCCCTCAATAATGTGAATGGATTAG
TGCTAGGAGCCAAGGAGCAGGACTGGATTATCTCATCTGACTGTGTGCAGAATCCTGTTGAATGTCCCTGTTTTT
TTTGGTTGGGCAGTCAGAGCTCTGCTATGGTGAACATCCAGACTGTCACCACTTCTGTCTGCCGCTCGAAAGGG
ATAGTCCTTTCCACTCGGTCCCCTTTGGATCTTCTTGACAACAGGAGCAGTCCTTTTATTGTTAGAAGTCAGAGA
AAGACCTCCAGAATCTCCTGACTTTAGGGAATGGTATAGGGGAAGATGGGAAGTAAGAGTCACATATCAAACTA
CCCTCCACTTTATTCCTGAGCGAGGGTTTATGAAGTATAAAGGGGTGGGAGCCCCGAGGTGAGCGGGAACGGTG
CTGCTTTATTTGAATGTTTTTCTTACCTCATTCTGTGCCCCAGTAGGGGGTCCAGCCTCATCTGTCTGGCTTGGC
CCTGTGTTCTCCTGTCCCTGTCCCTGCTCCACTGCCTATCTGGTGCCCCAGGTGCTGCTTGCCACTCCAGCTGTCACAT
TGAACAGTTTCAATTCAGCTCTTAATGCTCCTGCTTCCGAAGCCTGCCCAATTTCTTTTTCTTGGCCTCTGTTT
TTTTTTTTCTTTCTTTTTTCCCTTGTTTTTGTAGAAGACTCAGAGGAGAATCTTTCTTATGGCTCCCTCTGTTGA
GATTGGAATTGGAAGAGAATTAATTTTTTGTATTTAATGCAGTGTGCATGCCTATAAGCATTTCTCCTATATA
GGACTGCTTTGCTAGTGTGCCCTCTTGCTGTGTCTTACTTCATAAGGAGTTGTATCTTCCCACCTCCATTTCAAT
ACTGCCGGTTAGGACCTAAGTAGAAGAGCAGTAAAGGCTGATTGACACACAGGGGGATGGAGTTGGTCCTTGTC
ATTCTCTCACCCCTTGCTGTGCATGTATCAATCCTTATCCAGAAGGTACTATTTAGACTGTATAGACTGATTTAG
ATTACATACTTTAGAGGATTAAGGAAACCATAGAGTTTGGGCCTTGGAAGTGTACTGCCTTGTCCTAGAGTTGT
CCTGATCAGGCTTGGGGCCTAGTTACAGATTAGTCTTAAAGAATTGCATTAACCTAAAAAAATCAAACCTTGGC
AAGAGCTAAAAATAATTTGGAGATATCTTTGCCCTTGACTTGTAGACGACATCTAAGAGGATGAAGAAAGGAGAGT
CTAAGTGAGACTCTGGCCTACTTCCTAACAATGTCTTGGAAGTGGGATGATGGTAAAGGAGAAAGGCCACAGTCC
AATCCCTCTGCCTTCAGATAGGGAACCTCAAATCCTGAAATTACTGTTTTCTTTCTGGCCTTTTCTCCTGGTTAGA
GGAGGAAGCGGAAAGTAGTTTTGAGTAGTATTTTGTTCATATTACCCCCCTTTTGTTTTTTGTCTGGCCCCCTC
TACCAATAGGGCAGTAGCCTCCTGCCCTGGATGGGTATAAGGTGGGCTTGGTCCAACAGGTGCCAGAGGGTACA
TACTCCTTTCTGGGGAGAGAATGCTCCCTACCATATAGTTGACAGTGGTTAGGAACCTCTCCCTTTCCCTACCTAC
CTTCCTTTTAATAGCAGAATTCCTATTTTCCCTTGATTATGTGTATTGATCACCTGCAATCCTATTATGTATC
TGAGTGTGTGTGTGTGTGTATGTGTGTGTATGGGGGAAGGGGGGGGTTCTTTAAATTTCTGTGGTTTGTGGCT
TTTTCTTCCATACATTAGTTCCCAACATCGCATGCCAGGGACCACTGCCTGGCATTATCGCATGCTGGGATCAT
CGGGGGAGGGTAGTGAAGCTCACCACTGTCCCTTGTTTTGGAGATTTTATTTTGCATAAGTAGTCCATCCTAT
ACAGATAGCTGATTAACCTGTATTCCCCTTTCCCCTATGGCTGCTGGTGTAAATAAACTGCATCTCCCCATTGGTA

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FIGURE 3732B

AACAGTAATAAAATTTTAAAAAATG

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FIGURE 3733

MFSYLILCPSRGSSLICLAWPCVPPVPCSTAYLVPQVLLATPAVTLNSFNSALNAPASEACPISSFFLASVFFFSE
FFPCFCRRLRGESFLWLPLLRLLEENLIFCI

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FIGURE 3734

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCCATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCTGAGATAGCTTCCTGAAACGCGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTGTGAATTCATGGCATAATAGGTGTTAAAAA
AAAAAATAAATAAAGGACCTCTGGGCTAT

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FIGURE 3735

MTNTKGKRRGTPYMF SRPFRKHGVVCLATYMRIYKKGDIVDIKGMGTVQKGM PHKCYHGKTGRVYNVTQHTVGIV
V NKQVKGKILAKRINVR IEHIKHSKSEDSFLKRVKENDQKKKEAKEKGTWVQLKRQPAPPREAHFVRTNGKEPEL
LEPIPCFEMA

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FIGURE 3736A

ATGAAGATGGCGGACGCGAAGCAGAAGCGGAACGAGCAGCTGAAACGCTGGATCGGCTCCGAGACGGACCTCGAG
CCTCCGGTGGTGAAGCGCCAGAAGACCAAGGTGAAGTTCGACGATGGCGCCGTCTTCCTGGCTGCTTGCTCCAGC
GGCGACACGGACGAGGTCTCAAGCTGCTGCACCGCGGCGCCGACATCAATTACGCCAATGTGGACGGACTCACT
GCCCTGCACCAGGCTTGCATTGATGACAATGTTGATATGGTGAAGTTTCTGGTAGAAAATGGAGCAAATATTAAT
CAACCTGATAATGAAGGCTGGATACCACTACATGCAGCAGCTTCCTGTGGATATCTTGATATTGCAGAGTTTTTG
ATTGGTCAAGGAGCACATGTAGGGGCTGTCAACAGTGAAGGAGATACACCTTTAGATATTGCGGAGGAGGAGGCA
ATGGAAGAGCTACTTCAAATGAAGTTAATCGGCAAGGGGTTGATATAGAAGCAGCTCGAAAGGAAGAAGAACGG
ATCATGCTTAGAGATGCCAGGCAGTGGCTAAATAGTGGTCATATAAATGATGTCCGGCATGCAAAATCTGGAGGT
ACAGCACTTCACGTTGCAGCTGCTAAAGGCTATACGGAAAGTTTTAAACTTTTAATACAGGCAGGCTATGATGTT
AATATTAAAGACTATGATGGCTGGACACCTCTTCATGCTGCAGCTCATTGGGGTAAAGAAGAAGCATGTGCAATT
TTAGTGGACAATCTGTGTGATATGGAGATGGTCAACAAAGTGGGCCAAACAGCCTTTGATGTAGCAGATGAAGAC
ATTTTAGGATATTTAGAAGAGTTGCAAAGAAACAAAATCTGCTCCATAGTGAAAAACGGGACAAGAAATCTCCA
CTAATTGAATCAACAGCAAATATGGACAATAATCAGTCACAGAAGACCTTTAAAAACAAAGAGACGTTGATTATT
GAACCAGAGAAAAATGCATCCCGTATTGAATCTCTGGAACAAGAAAAGGTTGATGAAGAAGAAGAAGGAAAGAAG
GATGAGTCTAGCTGCTCTAGTGAAGAAGATGAGGAAGATGACTCGGAATCAGAAGCTGAAACAGATAAGACAAAA
CCCCTGGCTTCTGTAACATAATGCCAACACTTCTAGTACACAAGCAGCTCCTGTAGCTGTTACAACACCTACTGTG
TCATCAGGTCAAGCAACACCTACATCACCTATTAAGAAAGTTTCCAACCACAGCTACAAAAATTTCTCCCAAAGAA
GAAGAGAGAAAAAGATGAGTCTCCTGCAACTTGGAGGTTAGGACTTAGAAAGACGGGCAGCTATGGTGCCTTGCT
GAAATCACAGCATCTAAAGAGGGTCAGAAAGAAAAAGATACTGCAGGTGTTACACGTTACAGCTTCAAGTCCCAGA
CTTTCCTCTCTTTGGATAATAAAGAAAAAGGAGAAAGATAGTAAAGGAACTAGGCTTGCATATGTTGCACCTACA
ATACCAAGACGACTAGCCAGTACATCTGACATTGAAGAGAAAGAAAACAGAGATTCTTCAAGTTTGCGAACAAAGT
AGTTCATATACAAGGAGAAAAATGGGAAGATGATCTTAAGAAAAATAGCTCAGTTAATGAAGGATCAACGTATCAT
AAAAGTTGCTCCTTTGGTAGAAGACAAGATGATTTGATTAGTTCTAGTGTTCGAAGCACCACATCAACACCAACA
GTTACCTCTGCAGCTGGGCTTCAGAAAAGCCTGCTTCCAGCACAAGCACTACTACAAAGATTACAACGGGTTCT
TCCTCAGCAGGCACACAAAGCAGTACCTCAAATCGTTTGTGGGCTGAGGATAGTACTGAGAAAGAAAAGGACAGT
GTTCTACGGCAGTGACCATTCCTGTTGCTCCAAGTGTGTAATGCTGCAGCTTCTACCACAACCCTGACTACA
ACTACTGCTGGCACTGTCTCCTCCACAACAGAGGTCAGGGAGAGACGCAGATCATACCTCACTCCTGTTAGGGAT
GAAGAGTCTGAATCCCAAAGAAAAGCAAGATCTAGACAAGCAAGACAATCTAGAAGATCAACACAGGGAGTGACA
TTAACTGATCTTCAAGAAGCTGAGAAAACAATAGGAAGAAGTCGTTCTACCCGAACCAGAGAACAAGAAAATGAA
GAAAAAGAAAAAGAGGAAAAAGAGAAAACAAGATAAAGAGAAAACAAGAAGAAAAGAAGGAGTCAGAAACATCTAGA
GAAGATGAATATAAACAAAAGTACTCCAGAACGTATGATGAGACTTACCAGCGTTATAGGCCAGTATCAACTTCA
AGTTCAACCACTCCATCCTCTTCACTTTCTACTATGAGCAGTTCACTGTATGCTTCAAGTCAACTAAACAGGCCA
AATAGTCTTGTAGGCATAACTTCTGCTTACTCCAGAGGAATAACAAAAGAAAATGAAAGAGAGGGAGAAAAAAGA
GAAGAGGAGAAAGAAGGAGAAGATAAATCACAACCTAAATCAATCAGAGAACGACGACGACCAAGAGAGAAAAGA
AGATCTACAGGAGTTTTCATTTTGGACACAAGATAGTGATGAAAATGAACAAGAACAACAATCAGACACAGAAGAG
GGATCCAATAAGAAAGAACTCAGACGGATTCCATTTCTAGATATGAAACCAGTTCTACATCAGCTGGTGATCGA
TATGATTCTTGTGGGTCGCTCTGGATCATACAGTTACTTAGAAGAAAGAAAACCTTACAGCAGCAGGCTAGAA
AAGGATGACTCAACTGACTTTAAAAAGCTTTATGAACAAATTCTAGCTGAAAATGAAAAGCTGAAGGCACAGCTA
CATGATACAAATATGGAACATAACAGATCTTAAATTACAGTTGGAAAAGGCCACCCAGAGACAAGAAAGATTGCT
GATAGATCACTGTTGGAATGGAAGAAAGGGAACGAAGAGCTCTAGAAAGAAGAATATCTGAAATGGAAGAAGAG
CTCAAAATGTTACCAGACCTAAAAGCAGACAACCAGAGGCTAAAGGATGAAAATGGGGCCTTGATCAGAGTTATA
AGCAAACTTTCCAAATAAAAAAAAAAAAAAGCAGCAAGTAATGGAATTGCACATATTAGTAACCCAGTGGACCATA
ATTGGCAGTCACTGGAAGTCTGGGAAGAATCCTTGGAGACTGTCATTTTCGGATATCCTGCCAAATGCCCTCTTA
TCTAGAATTTTTGTTTCATTTTGTTTAATTTTCTGGGGTGTTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTT
TTTTAATCAAGACCATTGTTTCATGTTAATGCAGCTGCTGAGAAGATTTTTTTTTAATGACTGAGAAAACCTTGTT
TACAGCTCCAGCATATAAGGAAAGTGTTCAGGCCAGATATGCCTCAGATATTTAACCAGTAAGCCTTAGTTGTA
CATAAATACTTTTGTGTCAACAAAAACTTTTCAGCTCTCACAGAAGACAGTTACTCAACATTTTTTGTATGTGCCAC
AGTTTTCGAGTTTTTCGATATTTAAATTTTTTGGCTTTTCATCTAAGTTTGGGTTTGTATTTTTTCTTCTAAACT

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FIGURE 3736B

CTTCATGTGGCAGAGTCTTCTATGTTTTACAGCTTTTTTCATTACAGAAAAGAACACTTGCTCTTCTGTGATTAT
TGTCATGTATTAGGCTAATGCTGTGTTGTCTCCACCTGGAAGTGAATTGCTTGGTGGAACATATGCTTTCAGT
TTTGTGCAATATGCATTTATTTCTTATATGAATGCTTTAAAGTCATTTGAGGTTAGATCTTTTAATTCCTATTTT
CTGCTTCATTGGTCACTTTTTTTTTTTATTGTAGTATAAGATGTTAGATTCTGTAATCTTCACATTCATTTAGCAG
GTAAGTGTATGCTGTATATACAAATAAGTGTATTGTTTTGATTTTTAGACCACCACATGGCATGCTTGACTAT
TTCTTATTTCAAATGCTGCTAATGCAGAGTAGGCTACTCCATGATAGTGTTAAAAAACAAAATTTGCTAACAAT
GTGATATAAAGACTTTAAAAGTTACACATTATGTGGAGCCCTATCTTTACAAAAGTTTCTACTGTAAAGTGCTT
TTATTTTTCAGTTTTCAGTTGATAGTACTCAACCATAATTAAAGTTGCATAAGATAATTGCTTTACATTTACATA
CCTATATTTATCTGAGTGCTGTCTAAACTGTTGTGCTAGCCAAAGTAATGCTATGAAATCATTTCAGAAATTAA
CCCGTGAGTTAATGTTAAATGCACTGTTATTGCCATGTGAAGAGGCATCGACTTTGATACCACCATCATGTTTCAG
ACCATTTTATACATTTTCAGTGGCCTTTTTTTTTTTTTTAAAGGAAAAAAAAGCGCAAAACCAAGTACATAGTGACGA
TGGCTTTTATTTGGACAAATAGCTTTTATATTTTCATTAAACCATGCAAAAAATACTACATCTTCTGGCACATA
ACTGTCTCCTTAACCACTGAACAGTTCAGCCATTTGAATAAATTGTACATTGTAAAGCTTATAGTAGCTGATTGT
ATTATTGATTGTATTGTATACTATATTAAATGTGAATTTGT

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FIGURE 3737

CAGCCTTGGAGGGAGGGATTAGAAGCCGCTAGACTTTTTTTCCTCCCCTCTCAGTAGCACGGAGTCCGAATTAAT
TGGATTTTCATTCACTGGGGAGGAACAAAACTATCTGGGCAGCTTCATTGAGAGAGATTTCATTGACACTAAGAGC
CAGCGGCTGCAGCTGGGTGCAGAGAGAACCTCCGGCTTTACTTCTGTCTCGTCTGCCCCAACCGCTAGCCTCGGC
TTGGGTAAGGCGAGGCGGAATTAAACCCCGCTCCGAGAGCGGCAGCTTCGCGCGCGGTGCGCTCGGCCTATGCCT
GCCCCGAGGGGCGTCTGGTAGGCACCCCGCCCTCTCCCGCAGCTCGACCCCCATGATAGATACGCTCAGACCCGT
GCCCTTCGCGTCGGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCAACGAGCAGCTGGAGCTGGGCAACGAGCG
GCTGCTGCTGATGGACTGCCGGCCGCAGGAGCTATACGAGTCGTGCGCACATCGAGTCGGCCATCAACGTGGCCAT
CCCGGGCATCATGCTGCGGCGCCTGCAGAAGGGTAACCTGCCGGTGC GCGCGCTCTTCACGCGCGGCGAGGACCG
GGACCGCTTCAACCGGCGCTGTGGCACCGACACAGTGGTGCTCTACGACGAGAGCAGCAGCGACTGGAACGAGAA
TACGGGCGGCGAGTCGGTGCTCGGGCTGCTGCTCAAGAAAGCTCAAGGACGAGGGCTGCCGGGCGTTCTACCTGGA
AGGTGGCTTCAGTAAGTTCCAAGCCGAGTTCTCCCTGCATTGCGAGACCAATCTAGACGGCTCGTG TAGCAGCAG
CTCGCCGCGCTTGCCAGTGCTGGGGCTCGGGGGCCTGCCGATCAGCTCTGACTCTTCCCTCGGACATCGAGTCTGA
CCTTGACCGAGACCCCAATAGTGCAACAGACTCGGATGGTAGTCCGCTGTCCAACAGCCAGCCTTCCCTTCCCAGT
GGAGATCTTGCCCTTCCCTCTACTTGGGCTGTGCCAAAGACTCCACCAACTTGGACGTGTTGGAGGAATTCGGCAT
CAAGTACATCTTGAACGTCACCCCCAATTTGCCGAATCTCTTTGAGAACGCAGGAGAGTTTTAAATACAAGCAAAT
CCCCATCTCGGATCACTGGAGCCAAAACCTGTCCAGTTTTTCCCTGAGGCCATTTCTTTTCATAGATGAAGCCCG
GGGCAAGAACTGTGGTGTCTTGGTACATTGCTTGGCTGGCATTAGCCGCTCAGTCACTGTGACTGTGGCTTACCT
TATGCAGAAGCTCAATCTGTGATGAACGACGCCTATGACATTGTCAAATGAAAAAATCCAACATATCCCCTAA
CTTCAACTTCATGGGTGAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGCAGCCCATGTGACAACAGGGTTCC
AGCACAGCAGCTGTATTTTACCACCCCTTCCAACCAGAATGTATACCAGGTGGACTCTCTGCAATCTACGTGAAA
GACCCACACCCCTCCTTGTGGAATGTGTCTGGCCCTTCAGCAGTTTCTCTTGGCAGCATCAGCTGGGCTGCTT
TCTTTGTGTGTGGCCCCAGGTGTCAAATGACACCAGCTGTCTGTACTAGACAAGGTTACCAAGTGCGGAATTGG
TTAATACTAACAGAGAGATTTGCTCCATTCTCTTTGGAATAACAGGACATGCTGTATAGATACAGGCAGTAGGTT
TGCTCTGTACCCATGTGTACAGCCTACCCATGCAGGGACTGGGATTCGAGGACTTCCAGGCGCATAGGGTAGAAC
CAAATGATAGGGTAGGAGCATGTGTTCTTTAGGGCCTTGTAAGGCTGTTTCTTTTGCATCTGGAAC TGACTATA
TAATTGTCTTCAATGAAGACTAATTCAATTTTGCATATAGAGGAGCCAAAGAGAGATTTAGCTCTGTATTTGTG
GTATCAGTTTGGAAAAAAAATCTGATACTCCATTTGATTATTGTAAATATTTGATCTTGAATCACTTGACAGTG
TTTGTGTTGAATTGTGTTTGTGTTTTTCTTTTGATGGGCTTAAAAGAAATTATCCAAAGGGAGAAAGAGCAGTATGC
CACTTCTTAAAAACAGAACAAAACAAAAAAGAAAATTGTGCTCTTTTCTAATCCAAAGGGTATATTTGCAGCATG
CTTGACTTTACCAATTCTGATGACATCTTTACGGACACTATTATCACTAAGACCTTGTTATGGCGAAGTCTTTAG
TCTTTTTTCATGTATTTTCTCATGATTTTTTCTCTTTATGTAGTTTGACTATGCCTTACCTTTGTAAATATTTTT
GCTTGTGTTGTGCGAAAGGGGATAATCTGGGAAAGACACCAAATCATGGGCTCACTTTAAAA

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FIGURE 3738

MIDTLRPVFFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQKGNLPVRA
LFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESVLGLLLKKLKDEGCRAFYLEGGFSKFQAEFSLHCETN
LDGSCSSSSPPLPVLGLGGLRISSDSSSDIESDLDRDPNSATDSDGSPLSNSQPSFPVEILPFLYLGCARDSTNL
DVLEEFGIKYILNVTPNLPNLFENAGEFKYKQIPISDHWSQNLSQFFPEAISFIDEARGKNCGVLVHCLAGISRS
VTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMGQLLDFERTLGLSSPCDNRVPAQQLYFTTPSNQNVYQV
DSLQST

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FIGURE 3739

GTCTCTCTTCTCCCTTCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATT
GGAGGGTTGAGCTTTAAAACAACCGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGT
GTGGTAATGAGAGATCCAAACACAGAGCACTCCAGGGGCTTTGGGTTTCATCACACATGCCACTGTGGAGGAGGTG
GATGCAGCCATGAATGCAAGGCCACATAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCAAGAGAA
GATTCTCAAAGACCAGGTGCCCACTTAACTATGAAAAAGATATTTGTTGGTGGCATTAAACAATGAAGAACAACA
CCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGACTCAAATCATGACTCACTGAGGCAGTGCCAAGAA
AAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGACTGTCATTGAGAAATACCATACTGT
GAATGGCCACAACCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCTAGGGCTTTATCCAGCCAAAGAGG
CTGAAGTGGTTCTAGAACTTTGGCGGTGGTTCGTGGAGGTGGTTTTTGGCAGGAATGACAACACTGGTAGTGGAGG
AACTTTCAGTGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTT
TGGAGGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGG
AACTTTTGGAGGCAGAAGCCCTGGCCCTATGGTGGTGGAGGCCAATACTTTGCCAAACCATGAAACCAAGGTGG
CTATGGTGGTTCCAGTAGCAGCAGTAGCTATGGCAATGGCAGAAAGATTTTAATTAGGAAACAAAGCTTAGCAGGA
GAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTGTGAACTCAGCCAAGCACAGTGGTGGCA
GGGCCTAGCTGCTACAAAGAAGACCTGTTTTAGACAAATACTCATGGGTATGGGCAAAAACTCGAGGACTGTAT
TTGTGACTAATTGTATAACAAGTCATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTC
AATGTAGATTTTTTTTTTTTTTTTGGCAACATGCTGTTGATTGCTAAATGTAAGTCTGATCATGATGCAGAATAAA
TGTCTTTTTTTT

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FIGURE 3740

TTTAACTGTGCTATGGAGTAGAAGCAGGAGGTTTTCAACCTAGTCACAGAGCAGCACCTACCCCTCCTCCTTTC
CACACCTGCAAACTCTTTTACTTGGGCTGAATATTTAGTGTAATTACATCTCAGCTTTGAGGGCTCCTGTGGCAA
ATTCCCGGATTAAAAGGTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCT
GCTTGACAAAGTTTCCCTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTC
TGGGATAGGCCCAGAAGTTCCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCAGTGTGCCCCCTCCGCTGTCA
ATGCCATCTTCGAGTGGTCCAGTGTTCCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCCTGACACAAC
TCTGCTAGACCTGCAAAACAACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGC
ATTGATTCTTGTCAACAATAAAATTAGCAAAGTTAGTCCTGGAGCATTTACACCTTTGGTGAAGTTGGAACGACT
TTATCTGTCCAAGAATCAGCTGAAGGAATTGCCAGAAAAAATGCCAAAACTCTTCAGGAGCTGCGTGCCCATGA
GAATGAGATCACCAAAGTGCGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTCATAGAACTGGGCACCAA
TCCGCTGAAGAGCTCAGGAATTGAAAATGGGGCTTTCCAGGGAATGAAGAAGCTCTCCTACATCCGCATTGCTGA
TACCAATATCACCCAGCATTCCTCAAGGTCTTCCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAG
CAGAGTTGATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGC
TGTTGACAATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAGCTTACCAGAGT
ACCTGGTGGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTCATAACAACAATATCTCTGTAGTTGGATC
AAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGT
CCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAACTATAA
GTAATTCTCAAGAAAGCCCTCATTTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAATAAAA
GCTAGATACTGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCA
GTTTAAGTAATTGCCTACAATAAAAAGAAATTTGCCTGCCATTTTCAGAATCATCTTTGAAGCTTCTGTGTA
TGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTA
GTAAAGCTTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAG
CTCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTTG
AATGTGTGAATTCATACAGGCTATG

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FIGURE 3741

MKATIILLLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRQCCHLRVVQCSDLGLDKV
PKDLPPDITLLDLQNNKITEIKDGDFKNLKNLHALILVNNKISKVSPGAFTPLVKLERLYLSKNQLKELPEKMPK
TLQELRAHENEITKVRKVTFNGLNQMIIVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTE
LHLDGNKISRVDAAASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVYLH
NNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRVCVYVRSAILGNYK

4057/6881
FIGURE 3742

AAAGCAGCATCTTGCCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCATTTAATCTTTACAACCTCT
CTTGCAAGGGTTCCCTGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCA
CAAGTTTTCCTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATA
GGCCCAGAAGTTCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCCACTGTGCCCCCTCCGCTGTCAATGCCAT
CTTCGAGTGGTCCAGTGTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCCTGACACAACCTCTGCTA
GACCTGCAAAACAACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGCATTGATT
CTTGTCAACAATAAAATTAGCAAAGTTAGTCCTGGAGCATTTACACCTTTGGTGAAGTTGGAACGACTTTATCTG
TCCAAGAATCAGCTGAAGGAATTGCCAGAAAAATGCCAAAACCTCTTCAGGAGCTGCGTGCCCATGAGAATGAG
ATCACCAAAGTGCGAAAAGTTACTTTCAATGGACTGAACCAGATGATTGTGATAGAACTGGGCACCAATCCGCTG
AAGAGCTCAGGAATTGAAAATGGGGCTTTCCAGGAATGAAGAAGCTCTCCTACATCCGCATTGCTGATACCAAT
ATCACCAGCATTCTCAAGGTCTTCCCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTT
GATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTTGAC
AATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACTTGGACAACAACAAGCTTACCAGAGTACCTGGT
GGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTCATAACAACAATATCTCTGTAGTTGGATCAAGTGAC
TTCTGCCACCTGGACACAACACCAAAAAGGCTTCTTATTGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTAC
TGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAACTATAAGTAATTT
TCAAGAAAGCCCTCATTTTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAATAAAGCTAGAT
ACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAG
TAATTGCCTACAATAAAAAGAAATTTTGCCTGCCATTTTTCAGAATCATCTTTTGAAGCTTCTGTTGATGTTAAC
TGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGC
TTTTCTTTTTTAAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATTT
GAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTTGAATGTGT
GAATTCAATACAGGCTATG

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FIGURE 3743

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLDKV
PKDLPPDTLLDLQNNKITEIKDGD FKNLKNLHALILVNNKISKVSPGAFTPLVKLERLYLSKNQLKELPEKMPK
TLQELRAHENEITKVRKVTFNGLNQMIVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTE
LHLDGNKISRVDAA SLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVYLH
NNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRVCVYVRSAILQLGNYK

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FIGURE 3744

GTTCCCTGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAA
GTTCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCAGTGTGCCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCTGATTTGGAAGTGGGCACCAATCCGCTGAAGAGCTCAGGAATTGAAAATGGGGCTTTCAGGGA
ATGAAGAAGCTCTCCTACATCCGCATTGCTGATACCAATATCACCAGCATTCTCAAGGTCTTCCTCCTTCCCTT
ACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTTGATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCT
AAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTTGACAATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAG
CTTCACTTGGACAACAACAAGCTTACCAGAGTACCTGGTGGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTAC
CTTCATAACAACAATATCTCTGTAGTTGGATCAAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCT
TATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTAC
GTGCGCTCTGCCATTCAACTCGGAAACTATAAGTAATTCTCAAGAAAGCCCTCATTTTTATAACCTGGCAAAATC
TTGTTAATGTCATTGCTAAAAAATAAAATAAAGCTAGATACTGGAAACCTAACTGCAATGTGGATGTTTTACCCA
CATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAAGTAATTGCCTACAATAAAAAGAAATTTTGCCTGCCAT
TTTCAGAATCATCTTTTGAAGCTTTCTGTTGATGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAAATGTA
AAATTTGGAGTAAATATATATATGTCAATATTTAGTAAAGCTTTTCTTTTTTAATTTCCAGGAAAAAATAAAAGAG
TATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATT
AATCCCCATCATTACTGGTAAAGCCTCATTTGAATGTGTGAATTCAATACAGGCTATG

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FIGURE 3745

MKATIILLLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLELGTN
PLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLPPSLTELHLDGNKISRVDAAASKGLNNLAKLGLSFNSISA
VDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVVYLHNNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPV
QYWEIQPSTFRVCVYVRSAILQLGNYK

4061/6881
FIGURE 3746

GTTCCCTGGTTGTGAAAATACATGAGATAAATC**ATGA**AGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAA
GTTCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCTGATTTGGGTCTTCCTCCTTCCCTTACGGAATTACATCTTGATGGCAACAAAATCAGCAGAGTT
GATGCAGCTAGCCTGAAAGGACTGAATAATTTGGCTAAGTTGGGATTGAGTTTCAACAGCATCTCTGCTGTTGAC
AATGGCTCTCTGGCCAACACGCCTCATCTGAGGGAGCTTCACCTGGACAACAACAAGCTTACCAGAGTACCTGGT
GGGCTGGCAGAGCATAAGTACATCCAGGTTGTCTACCTTCATAACAACAATATCTCTGTAGTTGGATCAAGTGAC
TTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTAC
TGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAAACTATAAG**TAA**TTT
TCAAGAAAGCCCTCATTITTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAAATAAAATAAGCTAGAT
ACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAA
TAATTGCCTACAATAAAAAGAAATTTTGCCCTGCCATTTTCAGAATCATCTTTTGAAGCTTTCTGTTGATGTTAAC
TGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGC
TTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATT
GAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTGAAATGTGT
GAATTCAATACAGGCTATG

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FIGURE 3747

MKATIILLLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLPPS
LTELHLDGNKISRVDAAASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNNKLTRVPGGLAEHKYIQVV
YLHNNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYWEIQPSTFRCVYVRSAILQLGNYK

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FIGURE 3748

GTTCCCTGGTTGTGAAAAATACATGAGATAAAATCATGGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAA
GTTCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCGATTTGGGTTGTCTACCTTCA~~TAA~~CAACAATATCTCTGTAGTTGGATCAAGTGACTTCTGCCC
ACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGTGTGAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGAT
ACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCTGCCATTCAACTCGGAACTATAAGTAATTCTCAAGAAA
GCCCTCATTTTATAACCTGGCAAAATCTTGTTAATGTCATTGCTAAAAATAAATAAAAGCTAGATACTGGAAA
CCTAACTGCAATGTGGATGTTTTACCCACATGACTTATTATGCATAAAGCCAAATTTCCAGTTTAAGTAATTGCC
TACAATAAAAAAGAAATTTGCCTGCCATTTTCAGAATCATCTTTTGAAGCTTTCTGTTGATGTTAACTGAGCTAC
TAGAGATATTCTTATTTCACTAAATGTAAAATTTGGAGTAAATATATATGTCAATATTTAGTAAAGCTTTTCTTT
TTTAATTTCCAGGAAAAATAAAAAGAGTATGAGTCTTCTGTAATTCATTGAGCAGTTAGCTCATTTGAGATAAA
GTCAAATGCCAAACACTAGCTCTGTATTAATCCCCATCATTACTGGTAAAGCCTCATTGGAATGTGTGAATTCAA
TACAGGCTATG

4064/6881
FIGURE 3749

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGCLPS

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FIGURE 3750

GTTCCCTGGTTGTGAAAATACATGAGATAAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCC
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGATGAGGCTTCTGGGATAGGCCAGAA
GTTCTGATGACCGCGACTTCGAGCCCTCCCTAGGCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTCGAGTG
GTCCAGTGTTCTGATTTGGGTCTGGACAAAGTGCCAAAGGATCTTCCCCCTGACACAACCTCTGCTAGACCTGCAA
AACACAAAATAACCGAAATCAAAGATGGAGACTTTAAGAACCTGAAGAACCTTCACGTTGTCTACCTTCATAAC
AACAAATATCTCTGTAGTTGGATCAAGTGACTTCTGCCCACCTGGACACAACACCAAAAAGGCTTCTTATTCGGGT
GTGAGTCTTTTCAGCAACCCGGTCCAGTACTGGGAGATACAGCCATCCACCTTCAGATGTGTCTACGTGCGCTCT
GCCATTCAACTCGGAACTATAAGTAAATTCTCAAGAAAGCCCTCATTTTTATAACCTGGCAAAATCTTGTTAATG
TCATTGCTAAAAAATAAATAAAAGCTAGATACTGGAAACCTAACTGCAATGTGGATGTTTTACCCACATGACTTA
TTATGCATAAAGCCAAATTTCCAGTTTAAAGTAATTGCCTACAATAAAAGAAATTTTGCCCTGCCATTTTCAGAAT
CATCTTTTGAAGCTTCTCTGTTGATGTTAACTGAGCTACTAGAGATATTCTTATTTCACTAAATGTAAAAATTGGA
GTAAATATATATGTCAATATTTAGTAAAGCTTTTCTTTTTTAATTTCCAGGAAAAAATAAAAAGAGTATGAGTCT
TCTGTAATTCATTGAGCAGTTAGCTCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAAATCCCCAT
CATTACTGGTAAAGCCTCATTTGAATGTGTGAATTCAATACAGGCTATG

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FIGURE 3751

MKATIILLLLAQVSWAGPFQQRGLFDFMLEDEASGIGPEVPDDRDFEPSLGPVCPFRCQCHLRVVQCSDLGLDKV
PKDLPPDTLLDLQNNKITEIKDGDFKNLKNLHVVYLHNNNISVVGSSDFCPPGHNTKKASYSGVSLFSNPVQYW
EIQPSTFRCVYVRSAILQLGNYK

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FIGURE 3752

GTATCACTCAGAATCTGGCAGCCAGTTCCGTCCTGACAGAGTTCACAGCATATATTGGTGGATTCTTGTCCATAG
TGCATCTGCTTTAAGAATTAACGAAAGCAGTGTCAAGACAGTAAGGATTCAAACCATTTGCCAAAAATGAGTCTA
AGTGCAATTTACTCTCTTCCTGGCATTGATTGGTGGTACCAGTGGCCAGTACTATGATTATGATTTTCCCCTATCA
ATTTATGGGCAATCATCACCAAAGTGTGCACCAGAATGTAAGTGGCCTGAAAGCTACCCAAGTGCCATGTACTGT
GATGAGCTGAAATTGAAAAGTGTACCAATGGTGCCTCCTGGAATCAAGTATCTTTACCTTAGGAATAACCAGATT
GACCATATTGATGAAAAGGCCTTTGAGAATGTAAGTGTGATCTGCAGTGGCTCATTCTAGATCACAACTTCTAGAA
AACTCCAAGATAAAAGGGAGAGTTTTCTCTAAATTGAAACAACTGAAGAAGCTGCATATAAACCAACAACCTG
ACAGAGTCTGTGGGCCCACTTCCCAAATCTCTGGAGGATCTGCAGCTTACTCATAACAAGATCACAAAGCTGGGC
TCTTTTGAAGGATTGGTAAACCTGACCTTCATCCATCTCCAGCACAAATCGGCTGAAAGAGGATGCTGTTTCAGCT
GCTTTTAAAGGTCTTAAATCACTCGAATACCTTGACTTGAGCTTCAATCAGATAGCCAGACTGCCTTCTGGTCTC
CCTGTCTCTCTTCTAACTCTCTACTTAGACAACAATAAGATCAGCAACATCCCTGATGAGTATTTCAAGCGTTTT
AATGCATTGCAGTATCTGCGTTTATCTCACAACTGGCTGATAGTGAATACCTGGAAATTTCTTTCAATGTG
TCATCCCTGGTTGAGCTGGATCTGTCTTATAACAAGCTTAAAAACATACCAACTGTCAATGAAAACCTTGAAAC
TATTACCTGGAGGTCAATCAACTTGAGAAGTTTGACATAAAGAGCTTCTGCAAGATCCTGGGGCCATTATCCTAC
TCCAAGATCAAGCATTTGCGTTTGGATGGCAATCGCATCTCAGAAACCAGTCTTCCACCGGATATGTATGAATGT
CTACGTGTTGCTAACGAAGTCACTCTTAATTAATATCTGTATCCTGGAACAATATTTTATGTTTATGTTTTCTG
TGTGTCAGTTTTTCATAGTATCCATATTTTATTACTGTTTATTACTTCCATGAATTTTAAATCTGAGGGAAATGT
TTTGTAACATTTATTTTTTTTTAAAGAAAAGATGAAAGGCAGGCCTATTTTCATCACAAGAACACACATATACA
CGAATAGACATCAAACCTCAATGCTTTATTTGTAAATTTAGTGTTTTTTTTATTTCTACTGTCAAATGATGTGCAAA
ACCTTTTACTGGTTGCATGGAAATCAGCCAAGTTTTATAATCCTTAAATCTTAATGTTTCTCAAAGCTTGGATTA
AATACATATGGATGTTACTCTCTTGACCCAAATTATCTTGATACATTCAAATTTGTCTGGTTAAAAAATAGGTGG
TAGATATTGAGGCCAAGAATATTGCAAAATACATGAAGCTTCATGCACCTAAAGAAGTATTTTGTAGATAAGAAT
TTGCATACTTACCTAGTGAACTTTTCTAGAATTATTTTTCACTCTAAGTCATGTATGTTTCTCTTTGATTATTT
GCATGTTATGTTTAATAAGCTACTAGCAAAATAAACATAGCAAAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 3753

MSLSAFTLFLALIGGTSGQYYDYDFPLSIYGQSSPNCAPCNCPEYPSAMYCDELKLKSVPMPVPPGIKYLYLRN
NQIDHIDEKAFENVTDLQWLILDHNLENSKIKGRVFSKLKQLKKLHINHNNLTESVGPLPKSLEDLQLTHNKIT
KLGSFEGLVNLTFIHLQHNRLKEDAVSAAFGLKSLEYLDLSFNQIARLPVSLTLYLDNNKISNIPDEYF
KRFNALQYLRLSHNELADSGIPGNSFNVSSLVELDLSYNKLKNIPTVNENLENYYLEVNQLEKFDIKSFCKILGP
LSYSKIKHLRLDGNRISETSLPPDMECLRVANEVTLN

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FIGURE 3754

GCAGAACAAAGAATACTCCACTTTTGATAGATGGGGTTACCAGGATTCAGGCTACATGGCCTGAGGCAAGGTCAC
AACATGAGTGACAGAATGTGTCCTGGAAGCCAGGCATCCTCTGGGGTGTATTTGGGGCGCTCAACAAGGCTTGAT
CGAGCTTTGGGGGTAGATCTAGCTATTCCATGGGGATTCTTTTCAGAAATTGCTGTTTTCGGTAACTAATTCCATG
ACCAGGTCCATGGCATTGGATGACATTGCGCTACACTGTTGCTCACCCGGGTCACCCGTCTCACAGGTTGGATG
GCAAGCATGTTGTGTTTCGGTCACGTCAAAGAGGGCATGGACGTCGTGAAGAAAAATAGAATCTTTCGGCTCTAAG
AGTGGGAGGACATCCAAGAAGATTGTCATCACAGACTGTGGCCAGTTGAGCTAATCTGTGGCCCAGGGTGCTGGC
ATGGTGGCAGCTGCAAAATGCCATGCACCCAGGTGGCCCGGCTTGGGCTGTCAGCCAAGGTGCCTGAAACGATAC
GTGTGCCCCACTCCACTGTCACAGTGTGCCTGAGGAAGGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCAC
ATTGCTTCCTAATAACCCACCCCTTCCTCACGACCTCATTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCT
TGTC AAGCATTGCCTGTGATTGCCCAGCCCAGATT CATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCAT
CCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAGTCAGTTTGC AAAAGGACTCTAATACCTGTTTAATATTG
TCTTCCTAATTGGGATAATTTAATTAACAAGATTGACTAG AAGTGAACTGCAACACTAACTTCCCCGTGCTGTG
GTGTGACCTGAGTTGGTGACACAGGCCACAGACCCCAGAGCTTGGCTTTTGAAACACA ACTCAGGGCTTTTGTGA
AGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTGTGAAGCCTGTTGGTTTGCTGCTGTCGTTTTTGAGGAGGG
CCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAACCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTG
TTGCTAACAG AAGTGGCCTGTAAGCTCCTGTGCTCCGGAGGGAAGCATTTCTG GTAGGCTTTGATTTTTCTGTG
TGTTAAAGAAATTCAATCTACTCATGATGTGTTATGCATAAAACATTTCTGGAACATGGATTTGTGTTACCTTA
AATGTGAAAATAAATCCTATTTTCTATGG

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FIGURE 3755

GGATTGAAACAAGATGGCGGGTTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAGATTCT
TAAAAGCAGTTTCTCTTCAGAACATCTTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATGGCTGTAGCTG
CAGTAAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATATTGTG
TTTGTGCATAAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCTGATG
GCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCAGATC
CTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTTGAGG
AAGGACCTATGATAGAACAACCTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGGTA¹C
ACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATTGATGCGGAGGTTCTGGGGGAATCAAAGAGAAATGT
GCCTCATTGTCATTTGAGAAAATGCAGTCTGGTGTATTTCAGTAATATATAGTAAAGTAATAATGATAAAATATC
TTTTCATATATTAGAATGTGTACTTTTATATAAAAGTAATTCTGGATTGACATTCTCATTGAGAAAACCTATTT
TCTTTTTTCTTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTTCCATAGTGCCAAAGC
CATACATATTTCAGTAGAACATCAATAAATTACATCAGAAATTCAACACTTTATTATAAAAACGGGCTTCGTGTTAG
ATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGACAGGCTAGCATTTTCAATTTACAA
TATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCTATGATAAGTTGAGAAACATCTCTTTTTGTGTGTCTA
CTGTGATTTAAGTATTTTTAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAAAATGTGCATGG
CTTTCCT

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FIGURE 3756

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYNCNVELALTS DGR TIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNPPKDR

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FIGURE 3757

AGCCGCGGCCTCAACTAAAAGTGGCCATTGACCTTTCAAGCTTTTCGAGCAGTGATGCAATAGAATAGTATTTCAA
AGAAAAATGCTTATCGAAATTTTGGATCCGGTTTTCCCGTGATTGTTAAGGGTTTCTTTTAAAAAGTAGGTCACA
TTTCAAGTAGGTCATATTTTCGGGGGCGGGTGCGCAGACAAGGAGATGAGTTTCCACTAAGGCCAGGGGGCCTCCA
ACGGGGTTGGAGGTGAGAATCCCAGGTAGGGTAGAGGTGCCGAGATCCTTCCGAATCCCAGCCCTGGGGCGTCAG
CCCTGCAGGGAATGGCAGAGACACTCTCCGGACTGAGGGAACCGAGGCCAGTCACCAAGCCCTTCCGGGCGCGC
AGGCGATCAGTGGGTGACCGCGGCTGCGAGGGACTTTGTCATCCGTCCTCCAGGATCTGGGGAGAAAAGAGCCCCA
TCCCTTCTCTCTGCCACCATTTCGGACACCCCGCAGGGACTCGTTTTGGGATTGCGACTGACTTCAAGGAAGG
ACGCGAACCCCTTCTCTGACCCCAGCTCGGGCGGCCACCTGTCTTGCCGCGGTGACCCTTCTCTCATGACCCTGC
GGTGCCCTTGAGCCCTCCGGGAATGGCGGGGAAGGGACGCGGAGCCAGTGGGGGACCGCGGGGTGCGCGGAGGAGC
CATCCCCGCGAGGCGGCGCGTCTGGCGAAGGCCCTGCGGGAGCTCGGTGAGACAGGATGGTACTGGGGAAGTATGA
CTGTTAATGAAGCCAAAGAGAAATTAAAAGAGGCACCAGAAGGAACCTTTCTTGATTAGAGATAGCTCGCATTGAG
ACTACCTACTAACAATATCTGTTAAAACATCAGCTGGACCAACTAATCTTGAATCGAATACCAAGACGGAAAAAT
TCAGATTGGACTCTATCATATGTGTCAAATCCAAGCTTAAACAATTGACAGTGTGGTTCATCTGATCGACTACT
ATGTTTCAGATGTGCAAGGATAAGCGGACAGGTCCAGAAGCCCCCGGAACGGCACTGTTACCTTTATCTGACCA
AACCCTCTACACGTCAGCACCATCTCTGTCAGCATCTCTGTAGGCTCACCATTAAACAAATGTACCGGTGCCATCT
GGGGACTGCCTTTACCAACAAGACTAAAAGATTACTTGGAAGAATATAAATTCCAGGTATATAATGTTTCTCTTTT
TTTAAACATGTCTCACATAGAGTATCTCCGAATGCAGCTATGTAAGAGAGAACCACAACTTGAGTGTCTCTGGATA
ACTATATGGAATGCTTTCTAAGAACAGCTGAAGCTAATCTAATTTAAATTTAACAGCTTGAAGAGGTAGCTAGGT
GTTTAAAGTTCCCTCCAGATACTTTTACCTGAGTGATGCTTCCCTTCCTAAGGCTGACCAAGACCTGTTGATCCTT
TTAGATTAAAAATAAAATGTCGCATGTAAAGGCTGAAGTCGCGTTTTATCAGAATGCCTTGCCTTCTTAGGTTCT
TTTCCATTATGTCAAAGGTCCAGGCTCCAGTAGGAGAGAAAGAACTCCTCATAGGAATACTGAAGAAGTGGGAAG
GAACCAAGCTGACACAGGCCTCACTGCAATTTGATATGCCTGCTGATCAGAGTCTCTTGGGCATTTTATATTTTG
CATTCTGATGTACCTAGGAGTTTTGTTAAACAGATGATGTATGTGAGTATTTATCCCATTTTATGCAATTAACCA
AATCAACCAAAAAAAGTGACCATGAAGTCCTGTATTTGTCTTTTTACTACATGTAGGAACTCTCATGTGAATGAG
TACTGTAGTAATCCATTCTATGGGAGCCTTATTTTCAGAAATATTTCAAACCTGGTGCAAATGGAAAAGACTTTCTC
TTTTCTTTTAAAGCTAAAGACAAGAATATCATGCTATACAGGTGCAACTCAATCCCCGTTAATAAAAACCAATGT
AGGTATAGGCATTCTACCCCTTTGAAATAGCTGTGTCCCAACCTGTTGCCATTGATTTTTTGGAAATGGCTTTAGA
AATATCCAAGTTGTCTTGAATTGTCTAACCATGGACATAAACAGTTGTCTCCCTTCTACTGTGTAGAATACTTT
GACTTAATTTTCTTCCAGATACAGGGGGATACCTGCCTGTTTTTCAAAGTGTTTATTTACTGCTGTTACTATTTG
ATTAGAATGTATTAAATAAAAAAACCTGATTCT

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FIGURE 3758

MTLRCLPESGNGGEGTRSQWGTAGSAEESPQAARLAKALRELGQTGWYWGSMTVNEAKEKLKEAPEGTFLIRDS
SHSDYLLTISVKTSAGPTNLRIEYQDGKFRLDSIICVKSKLKQFDSVVHLIDYYVQMCKDKRTGPEAPRNGTVHL
YLTkPLYTSAPSLQHLCLRTINKCTGAIWGLPLPTRLKDYLEEYKFQV

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FIGURE 3759

GGTGCCGCATCCCCAGCCCGCCGCC**ATGG**CCGCCTACAAACTGGTGCTGATCCGGCACGGCGAGAGCGCATGGAA
CCTGGAGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCGGCGGGCCACGAGGAGGCGAAGCGCGGCGG
GCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACCTCAGTGCAGAAGAGAGCGATCCGGACCCT
CTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTGAGGACTTGGCGCCTCAATGAGCGGCACTA
TGGGGGTCTAACCGGTCTCAATAAAGCAGAACTGCTGCAAAGCATGGTGAGGCCCAGGTGAAGATCTGGAGGCG
CTCCTATGATGTCCCACCACCTCCGATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGTAGGTA
TGCAGACCTCACAGAAGATCAGCTACCCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTG
GAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGG
CATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTTGT
CTATGAATTGGACAAGAAGCTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCGCAAAGC
CATGGAAGCTGTGGCTGCCCAGGGCAAGGCCAAGAAG**TCAA**AGGCCGGCGGGGAGGATACTGTCCCCAGGAGCACC
CTCCCTGCCCGTCTTGTCCCTCTGCCCCTCCCACCTGCACATGTCACACTGACCACATCTGTAGACATCTTGAGT
TGTAGCTGCAGATGGGGACCAGTGGCTCCCATTTTCATTTTAGCCATTTTGTGCTCTGCACCCACTCCCTTCATA
CAATCTAGTCAGAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAAGCTATGGAAGCTCCCCTTATCCAACAG
AGTTTAAAGTAGTGACTTGGGTTTTTTCGAGTGCTTTGTTTACTAAGGACTTTGGGGAGGAACCATGCTAAGCC
ATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCGGAGTCTGTCTCTGCTCTTCTGCAGTCAG
GCCACTGCCTACTGCCTGGGGGCTCTAGTCATTCCAGTGGAAGACGAATGTAACCTGCGTGGTGATGTGACAACT
GTTTCCTCCCTGACCCCAGAGGATCTGGCTCTAGGTTGGGATCAATCCTGAATTTTCGTTATGTGTTAATTTACTT
TTATTAAAAAAGTATAGTATATATAAATAATACAAAACAATAACCCTTCTGGGGTTTTCTTGTGGCGGTTGAAATA
GTCCACATGTGGTCATCAGAAAATAAGCCATTCCCTCATACCAATATAGGATCAGCTCCTTGACCTCTGAGGGGC
AGGAGTGCTTCCTGGTGTGTGTATTAGAATCCCTTCCTGCCTTGTTTCATGGCAGTGAAATGCCTCTTGGTCTG
TCCAAGTGATCTTTCACTGATTTCTGAATCATGTTCTAGTTGCTTGACCCTGCCACATGGGTCCAGTGTTTCATC
TGAGCATAACTGTACTAAATCCTTTTTCCATATCAGTATAATAAAGGAGTGATGTGCAA

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FIGURE 3760

MAAYKLVLIRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTVLDAID
QMWLPVVRTWRLNERHYGGLTGLNKAETAAKHGAEQVKIWRRSYDVPPPPMEPDHFPYSNISKDRRYADLTEDQL
PSCESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNLPTGIPIVYELDKNLK
PIKPMQFLGDEETVRKAMEAVAAQGKAKK

4076/6881
FIGURE 3761

GGCCATTTCTCTTGAAACTGCGGCTCGGGACCTGCGGTACCTGCTGTAGTCACGAGGGACGGGCGGCGGCCTGGT
CGGCAGAGAGTAGCCTGCAACATTCGGCCGTGXXXXXXXXXAGTTTACCCCTCAATCCCAAACCTTTCCTCAATG
GACTAACAGGAAAGCCAGTGATGGTGAAACTTAAGTGGGGAATGGAGTACAAGGGCTATCTGGTATCTGTAGATG
GCTACATGAACATGCAGCTTGCAAATACAGAAGAATACATAGATGGAGCTTTGTCTGGACATCTGGGTGAAGTTT
TAATAAGGTGTAATAATGTCCTTTATATCAGAGGTGTGGAAGAAGAGGAAGAAGATGGGGAAATGAGAGAATAGC
ATCTTTTGTGGGGGATTTTTTTTATATATATTTCTAGACAATAAAGATTGTTTGTTCCTCAACTTG

4077/6881
FIGURE 3762

XSLPLNPKPFNLNGLTGKPMVKLKWGMEYKGYLVSDGYMNMQLANTEEYIDGALSGHLGEVLIRCNNVLYIRGV
EEEEEDGEEMRE

4078/6881
FIGURE 3763

CTCTATCGACGAGTCTGGTAGCTGAGCGTTGGGCTGTAGGTCGCTGTGCTGTGTGATCCCCCAGAGCC**ATG**CCCCG
AGATAGTGGATACCTGTTTCGTTGGCCTCTCCGGCTTCCGTCTGCCGGACCAAGCACCTGCACCTGCGCTGCAGCG
TCGACTTTTACTCGCCGGACGCTGACCGGGACTGCTGCTCTCACGGTCCAGTCTCAGGAGGACAATCTGCGCAGCC
TGGTTTTTGGATACAAAGGACCTTACAATAGAAAAAGTAGTGATCAATGGACAAGAAGTCAAATATGCTCTTGGAG
AAAGACAAAGTTACAAGGGATCGCCAATGGAAATCTCTCTTCCCTATCGCTTTGAGCAAAAATCAAGAAATTGTTA
TAGAAATTTCTTTTGGAGACCTCTCCAAAATCTTCTGCTCTCCAGTGGCTCACTCCTGAACAGACTTCTGGGAAGG
AACACCCATATCTCTTTAGTCAGTGCCAGGCCATCCACTGCAGAGCAATCCTTCCTTGTGAGGACACTCCTTCTG
TGAAATTAACCTATACTGCAGAGGTGTCTGTCCCTAAAGAACTGGTGGCACTTATGAGTGCTATTTCGTGATGGAG
AAACACCTGACCCAGAAGACCCAAGCAGGAAAATATACAAATTCATCCAAAAGTTCCAATACCCTGCTACCTGA
TTGCTTTTAGTTGTTGGAGCTTTAGAAAGCAGGCAAATTTGGCCCAAGAACTTTGGTGTGGTCTGAGAAAGAGCAGG
TGGAAAAGTCTGCTTATGAGTTTTCTGAGACTGAATCTATGCTTAAAATAGCAGAAGATCTGGGAGGACCGTATG
TATGGGGACAGTATGACCTATTGGTCCTGCCACCATCCTTCCCTTATGGTGGCATGGAGAATCCTTGCCTTACTT
TTGTAACCTCTACTCTACTGGCAGGCGACAAGTCACTCTCCAATGTCATTGCACATGAAATATCTCATAGCTGGA
CAGGGAATCTAGTGACCAACAAAACCTTGGGATCACTTTTGGTTAAATGAGGGACATACTGTGTACTTGGAAACGCC
ACATTTGCGGACGATTGTTTTGGTGAAAAGTTTCAGACATTTTAATGCTCTGGGAGGATGGGGAGAACTACAGAATT
CGGTAAAGACATTTGGGGAGACACATCCTTTCACCAAACCTTGTGGTTGATCTGACAGATATAGACCTGATGTAG
CTTATTCTTCAGTTCCTTATGAGAAGGGCTTTGCTTTACTTTTTTACCTTGAACAACCTGCTTGGAGGACCAGAGA
TTTTCTTAGGATTCTTAAAGCTTATGTTGAGAAGTTTTCTTATAAGAGCATAACTACTGATGACTGGAAGGATT
TCCTGTATTCTTATTTTTAAAGATAAGGTTGATGTTCTCAATCAAGTTGATTGGAATGCCTGGCTCTACTCTCCTG
GACTGCCTCCCATAAAGCCCAATTATGATATGACTCTGACAAATGCTTGTATTGCCTTAAGTCAAAGATGGATTA
CTGCCAAAGAAGATGATTTAAATTCATTCAATGCCACAGACCTGAAGGATCTCTCTTCTCATCAATTGAATGAGT
TTTTAGCACAGACGCTCCAGAGGGCACCTCTTCCATTGGGGCACATAAAGCGAATGCAAGAGGTGTACAACTTCA
ATGCCATTAACAATTCTGAAATACGATTCAGATGGCTGCGGCTCTGCATTCAATCCAAGTGGGAGGACGCAATTC
CTTTGGCGCTAAAGATGGCAACTGAACAAGGAAGAATGAAGTTTACCCGGCCCTTATTCAAGGATCTTGCTGCCT
TTGACAAATCCCATGATCAAGCTGTCCGAACCTACCAAGAGCACAAAGCAAGCATGCATCCCGTGACTGCAATGC
TGGTGGGGAAAAGACTTAAAGTGGATT**TAA**AGACCTGCGTATTGATGATTTTAGAGATTTCTCTTTTTTAAATGGA
ATTCGTAAAGAAATATAAACTTCAGCTCACAAATAAAACCTGTCTTTTAGTTTTGGCTTTTTATTGTTTTGTG
GTGATTTTACTGAAATAAAGATGAGCTACTTCTTC

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FIGURE 3764

MPEIVDTCSLASPASVCRTKHLHLRCSVDFTRRTLGTAAALTVQSQEDNLRSLVLDTKDLTIEKV VINGQEVKYA
LGERQSYKGS PMEISLPIALSKNQEIVIEISFETSPKSSALQWLTPEQTSGKEHPYLF SQCQAIHCRAILPCQDT
PSVKLTYYTAEVSVPKELVALMSAIRDGETPD PEDPSRKIYKFIQKVPIPCYLIALVVGALSRQIGPRTLWSEK
EQVEKSAYEFSETESMLKIAEDLGGPYVWGQYDLLVLPPSFPYGGMENPCLTFVTPTLLAGDKSLSNVIAHEISH
SWTGNLVTNKTWDHFWLNEGHTVYLERHICGR LFGEKFRHFNALGGWGELQNSVKTFGETHPFTKL VVDLTDIDP
DVAYSSVPYEKGFALLFYLEQLLGGPEIFLGFLKAYVEKFSYKSITDDWKDFLYSYFKDKVDVLNQVDWNAWLY
SPGLPP IKPNYDMTLTNACIALSQRWITAKEDDLNSFNATDLKDLSSHQLNEFLAQT LQRAPLPLGHIKRMQEVY
NFNAINNSEIRFRWLRLCIQSKWEDAIP LALKMATEQGRMKFTRPLFKDLAAFDKSHDQAVRTYQEHKASMPVT
AMLVGKDLKVD

4080/6881
FIGURE 3765

GCAACCTTTCCAAGGGAGTGGTTGTGTGATCGCCATCTTAGGGAAAAGATGTTCTCGTCCGTGGCGCACCTGGCG
CGGGCGAACCCCTTCAACACGCCACATCTGCAGCTGGTGCACGATGGTCTCGGGGACCTCCGCAGCAGCTCCCCA
GGGCCCACGGGCCAGCCCCGCCGCCCTCGCAACCTGGCAGCCGCCGCCGTGGAAGAGTACAGTTGTGAATTTGGC
TCCGCGAAGTATTATGCACTGTGTGGCTTTGGTGGGGTCTTAAGTTGTGGTCTGACACACACTGCTGTGGTTCCC
CTGGATTTAGTGAAATGCCGTATGCAGGTGGACCCCCAAAAGTACAAGGGCATATTTAACGGATTCTCAGTTACA
CTTAAAGAGGATGGTGTTCGTGGTTTGGCTAAAGGATGGGCTCCGACTTTCCTTGGCTACTCCATGCAGGGACTC
TGCAAGTTTGGCTTTTATGAAGTCTTTAAAGTCTTGTATAGCAATATGCTTGGAGAGGAGAATACTTATCTCTGG
CGCACATCACTATATTTGGCTGCCTCTGCCAGTGCTGAATTCCTTGCTGACATTGCCCTGGCTCCTATGGAAGCT
GCTAAGGTTTGAATTCAAACCCAGCCAGGTTATGCCAACACTTTGAGGGATGCAGCTCCCAAAATGTATAAGGAA
GAAGGCCTAAAAGCATTCTACAAGGGGGTTGCTCCTCTCTGGATGAGACAGATACCATACCATGATGAAGTTC
GCCTGCTTTGAACGTACTGTTGAAGCACTGTACAAGTTTGTGGTTTCTAAGCCCCGCAGTGAATGTTCAAAGCCA
GAGCAGCTGGTTGTAACATTTGTAGCAGGTTACATAGCTGGAGTCTTTTGTGCAATTGTTTCTCACCTGCTGAT
TCTGTGGTATCTGTGTTGAATAAAAGAAAAAGGTAGCAGTGCTTCTCTGGTCCCTCAAGAGACTTGGATTTAAAGGT
GTATGGAAGGGACTGTTTGGCCGTATCATCATGATTGGTACCCTGACTGCACTACAGTGGTTTATCTATGACTCC
GTGAAGGTCTACTTCAGACTTCCTCGCCCTCCTCCACCCGAGATGCCAGAGTCTCTGAAGAAGAAGCTTGGGGTTA
ACTCAGTAGTTAGATCAAAGCAAATGTGGACTGAATCTGCTTGTGATCAGTGTGTAAGAAAGTGCAAAGGAAC
TTTTATATATTTGACAGTGTAGGAAATTGTCTATTCTGATATAATTACTGTAGTACTCTTGCTTAAGGCAAGAG
TTTCAGATTTACTGTTGAAATAAACCCAACCTCTTCATG

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FIGURE 3766

GCACACTGAAGAGTACGTCTTCGGGTCTACCCCTAATCACATAATGGCTGTGTTTAAATCAGAAGTCTGTCTCGGA
TATGATTAAAGAGTTTCGAAAAAATTGGCGTGCTCTTTGTAACTCTGAGAGAACCACTCTATGTGGTGCAGACTC
CATGCTCTTGGCATTGCAGCTTTCTATGGCGGAGAACAAACAGTGGAGAATTTACAGTCTCTCTCAGTGATG
TTTTATTGACATGGAAATACTTGCTCCATGAGAAATTGAACTTACCAGTTGAAAACATGGACGTGACTGACCATT
ATGAGGACGTTAGGAAGATTTATGATGATTTCTTGAAGAACAGTAATATGTTAGATCTGATTGATGTTTATCAAA
AATGTAGGGCTTTGACTTCTAATTGTGAAAATTATAACACAGTATCTCCTAGTCAACTACTGGATTTTCTGTCTG
GCAAACAGTATGCAGTAGGTGATGAACTGATCTTTCTATACCAACATCACCAACAAGTAAATACAACCGTGATA
ATGAAAAGGTGCAGCTGCTAGCAAGGAAAATTATCTTTTCATATTTAAATCTGCTAGTGAATTCAAAGAATGACC
TGGCTGTGGCTTATATTCTCAATATTCCTGATAGAGGACTAGGAAGAGAAGCCTTCACTGATTTGAAACATGCTG
CTCGAGAGAAAACAAATGTCTATCTTTTTTGGTGGCCACGTCCTTTATTAGAACAATAGAGCTTGGAGGGAAAGGAT
ATGCACCACCACCATCAGATCCTTTAAGGACACATGTAAAGGGATTGTCTAATTTTATTAATTTTCATTGACAAAT
TAGATGAGATTCTTGGAGAAATACCAAACCCAAGCATTCAGGGGGTCAAATACTGTCTAGTGATAAAGATGCAAC
TGATTAAAGGCCAAAACAGCAGGGATCCTTTTTTGCAAAAGCAATAGAGGAAGTTGCTCAGGATTTGGATTTGAGGA
TTAAAAATATTATCAATTCTCAAGAAGGTGTTGTAGCTCTTAGCACCCTGACATCAGTCTGCTCGGCCAAAAT
CTCATGCCATAAACCATGGTACTGCATACTGTGGCAGAGATACTGTGAAAGCCTTATTAGTTCTTTTTGGACGAAG
AAGCAGCTAATGCTCCTACCAAAAACAAAGCAGAGCTTTTATATGATGAGGAAAACACAATCCATCATCATGGAA
CGTCTATTCTTACACTTTTTTAGGTCTCCACACAGGTGAATAATTCGATAAAACCCCTAAGAGAACGCATCTGTG
TGTCAATGCAAGAGAAAAAAATTAAGATGAAGCAAACCTTTAATTAGATCCCAATTTGCTTGTACTTATAAAGATG
ACTACATGATAAGCAAGGATAATTGGAATAATGTTAATTTAGCATCAAAGCCTTTGTGTGTTCTTTACATGGAAA
ATGACCTTTCTGAGGGTGTAATCCATCTGTTGGAAGATCAACAATTGGAACGAGTTTGGAAATGTTTCATCTGG
ACAGAAGTAAAAATGAAAAAGTATCAAGAAAATCAACCAGTCAGACAGGAAATAAAAGCTCAAAAAGGAAACAGG
TGGATTTGGATGGTGAAAATATTCTCTGTGATAATAGAAATGAACCACCTCAACATAAAAATGCTAAAATACCTA
AGAAATCAAATGATTCACAGAATAGATTGTACGGCAAACCTAGCTAAAGTAGCAAAAAGTAATAAATGTACTGCCA
AGGACAAGTTGATTTCTGGCCAGGCAAAGTTAACTCAGTTTTTTAGACTATAAATTTGTGTCTTATATGCTTTAG
GTTTATGTATCTATAAACCATTACCAAAGACATGCTTAATTTTTAAGAGATCAAGGTGTAAATTATGATGATTT
ATTATTTTGGTCTACAGTGTATGTAAGGTTAGTATGTTAAGCACTGTTTTTGACTTTTTAAAAATACCTTAGATG
CAAATTTATAGGAGAAAAAACACTTTTCAGATAAGAGGTGTTTGCTGGGATGGAAGAATACTGCGCATGTAAGAA
ATATCGTCAGTCGTCCTAATGCATATTGTGACTGTTTGCATATACTTCTGTTTATAAAAGTATCAGTTTTACTTT
TCAGAGGATTTGTAAGAATCATTTAAATTTTCATTGAAATAAACGACAAGTCACATTG

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FIGURE 3767

ATGGCAAGCCAAGCGTTTAGAAAGTTTCTTCCACTCCTTGACCGAGTTTTGGTTGAAAGGCGTGCTGCTGAAACT
GTAACCAAAGGAGGCATTATGCTTCCAGAAAAATCTCAAGGAAAATTATTGCAAGCAAGAGGTAGAGAGATTCAA
CCAGTTAGCGTGAAAGTTGGAGATAAAGTTCTTCTCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAG
GATTATTTCTTATTAGAGATGGTGACATTCTTAGAAAGTACGTAGACTGA

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FIGURE 3768

MASQAFRKFLPLLDRLVERRAAETVTKGGIMLPEKSQGKLLQARGREIQPVSVKVGDKVLLPEYGGTKVVLDDK
DYFLFRDGDILRKYVD

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FIGURE 3769

CCGAGACCCGGCGCAAGAGAGCGCAGCCTTAGTAGGAGAGGAACGCGAGACGCGGCAGAGCGCGTTTCAGCACTGA
CTTTTGCTGCTGCTTCTGCTTTTTTTTTTTCTTAGAAACAAGAAGGCGCCAGCGGCAGCCTCACACGCGAGCGCCA
CGCGAGGCTCCCGAAGCCAACCCGCGAAGGGAGGAGGGGAGGGAGGAGGCGGCGTGCAGGGAGGAGAAAAAG
CATTTTCACTTTTTTTGCTCCCACTCTAAGAAGTCTCCCGGGGATTTTGTATATATTTTTTAACCTCCGTCAGGG
CTCCCGCTTCATATTTCTTTTTCTTTCCCTCTCTGTTCTGTCACCCAAGTTCTCTCTGTGTCCCCCTCGCGGGCC
CCGCACCTCGCGTCCCGGATCGCTCTGATTCCGCGACTCCTTGGCCGCGCTGCGC**ATG**GAAAGCTCTGCCAAGA
TGGAGAGCGGCGGCGCGGCCAGCAGCCCCAGCCGAGCCCCAGCAGCCCTTCTGCGCCCGCAGCCTGTTTCT
TTGCCACGGCCGAGCCGCGGGCCGAGCCGCCGAGCGGCAGCGCAGAGCGCGCAGCAGCAGCAGCAGCAGC
AGCAGCAGCAGCAGCAGGCGCCGAGCTGAGACCGGCGGCGGACGCGCCAGCCCTCAGGGGGCGGTCAACAAGTCAG
CGCCCAAGCAAGTCAAGCGACAGCGCTCGTCTTCGCCCCAAGTATGCGCTGCAAACGCGGCTCAACTTCAGCG
GCTTTGGCTACAGCCTGCCGCGAGCAGCAGCCGGCCGCCGTGGCGCGCCGCAACGAGCGCGAGCGCAACCGCGTCA
AGTTGGTCAACCTGGGCTTTGCCACCCTTCGGGAGCACGTCCCCAACGGCGCGGCCAACAAGAAGATGAGTAAGG
TGGAGACACTGCGCTCGGCGGTTCGAGTACATCCGCGCGCTGCAGCAGCTGCTGGACGAGCATGACGCGGTGAGCG
CCGCCCTCCAGGCAGGCGTCTGTCGCCCCACCATCTCCCCAACTACTCCAACGACTTGAACTCCATGGCCGGCT
CGCCGGTCTCATCTACTCGTCGGACGAGGGTCTTTACGACCCGCTCAGCCCCGAGGAGCAGGAGCTTCTCGACT
TCACCAACTGGTTCT**TGAG**GGGCTCGGCCTGGTCAGGCTCTGGTGCGAATGGACTTTGGAAGCAGGGTGATCGCAC
AACCTGCATCTTTAGTGCTTTCTTGTCAGTGCGCTTGGGAGGGGGAGAAAAGGAAAAGAAAAAAAAAAGAAGAAG
AAGAAGAAAAGAGAAGAAGAAAAAACGAAAACAGTCAACCAACCCCATCGCCAACTAAGCGAGGCATGCCTGAG
AGACATGGCTTTAGAAAACGGGAAGCGCTCAGAACAGTATCTTTGCACTCCAATCATTCACGGAGATATGAAGA
GCAACTGGGACCTGAGTCAATGCGCAAAATGCAGCTTGTGTGCAAAAGCAGTGGGCTCCTGGCAGAAGGGAGCAG
CACACGCGTTATAGTAACTCCCATCACCTCTAACACGCACAGCTGAAAGTTCTTGCTCGGGTCCCTTCACCTCCT
CGCCCTTTCTTAAAGTGCAGTTCTTAGCCCTCTAGAAACGAGTTGGTGTCTTTC

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FIGURE 3770

MESSAKMESGGAGQQPQPQPQQPFLPPAACFFATAAAAAAAAAAAAAAQAQQQQQQQQQQQAPQLRPAADGQPS
GGGHKSAPKQVKRQRSSSPELMRCKRRLNFSGFGYSLPQQQPAAVARRNERERNRVKLVNLGFATLREHVPNGAA
NKKMSKVETLRSAVEYIRALQQLLDEHDAVSAAFQAGVLSPTISPNYNDLNSMAGSPVSSYSSEGSYDPLSPE
EQELLDFTNWF

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FIGURE 3771A

GGTCGAGTCCTGAAGGAGGGCCTGATGTCTTCATCATTCTCAAATTCTTGTAAGCTCTGCGTCGGGTGAAACCAG
ACAAAAGCCGCGAGCCCAGGGATGGGAGCACGCGGGGACGGCCTGCCGGCGGGGACGACAGCATTGCGCCTGGGT
GCAGCAGTGTGCGTCTCGGGGAAGGGAAGATATTTTAAGGCGTGTCTGAGCAGACGGGGAGGCTTTTCCAAACCC
AGGCAGCTTCGTGGCGTGTGCGGTTTCGACCCGGTCACACAAAGCTTCAGCATGTGAGGACGGTCGGGCC
CTGGAAGGAACGCTCTCGGAATTGGCCGCGGAAACCGATCTGCCCGTTGTGTTTGTGAAACAGAGAAAGATAGGC
GGCCATGGTCCAACCTTGAAGGCTTATCAGGAGGGCAGACTTCAAAAGCTACTAAAAATGAACGGCCCTGAAGAT
CTTCCCAAGTCCTATGACTATGACCTTATCATCATTGGAGGTGGCTCAGGAGGTCTGGCAGCTGCTAAGGAGGCA
GCCCAATATGGCAAGAAGGTGATGGTCCTGGACTTTGTCACTCCCACCCCTCTTGGAACCTAGATGGGGTCTCGGA
GGAACATGTGTGAATGTGGGTTCATACCTAAAAAACTGATGCATCAAGCAGCTTTGTTAGGACAAGCCCTGCAA
GACTCTCGAAATTATGGATGGAAAGTCGAGGAGACAGTTAAGCATGATTGGGACAGAATGATAGAAGCTGTACAG
AATCACATTGGCTCTTTGAATTGGGGCTACCGAGTAGCTCTGCGGGAGAAAAAAGTCGTCTATGAGAATGCTTAT
GGGCAATTTATTGGTCCTCACAGGATTAAGGCAACAAATAATAAAGGCAAAGAAAAAATTTATTTCAGCAGAGAGA
TTTCTCATTGCCACTGGTGAAAGACCACGTTACTTGGGCATCCCTGGTGACAAAGAATACTGCATCAGCAGTGAT
GATCTTTTCTCCTTGCCCTTACTGCCCCGGTAAGACCCCTGGTTGTTGGAGCATCCTATGTCGCTTTGGAGTGCGCT
GGATTTCTTGCTGGTATTGGTTTAGACGTCAGTGTATGGTTAGGTCCATTCTTCTTAGAGGATTTGACCAGGAC
ATGGCCAACAAAATTGGTGAACACATGGAAGAACATGGCATCAAGTTTATAAGACAGTTCGTACCAATTAAAGTT
GAACAAAATTGAAGCAGGGACACCAGGCCGACTCAGAGTAGTAGCTCAGTCCACCAATAGTGAGGAAATCATTGAA
GGAGAATATAATACGGTGATGCTGGCAATAGGAAGAGATGCTTGACACAAGAAAAATTGGCTTAGAAACCGTAGGG
GTGAAGATAAATGAAAAGACTGGAAAAATACCTGTACAGATGAAGAACAGACCAATGTGCCTTACATCTATGCC
ATTGGCGATATATTGGAGGATAAGGTGGAGCTCACCCAGTTGCAATCCAGGCAGGAAGATTGCTGGCTCAGAGG
CTCTATGCAGGTTCCACTGTCAAGGTGACTATGAAAATGTTCCAACCACTGTATTTACTCCTTTGGAATATGGTG
CTTGTTGGCCTTTCTGAGGAGAAAGCTGTGGAGAAGTTTGGGGAAGAAAATATTGAGGTTTACCATAGTTACTTTT
GGCCATTGGAATGGACGATTCCGTCAAGAGATAACAACAAATGTTATGCAAAAATAATCTGTAATACTAAAGACA
ATGAACGTGTTGTGGGCTTTACGTACTGGGTCCAAATGCTGGAGAAGTTACACAAGGCTTTGCAGCTGCGCTCA
AATGTGGACTGACCAAAAAGCAGCTGGACAGCACAATTGGAATCCACCCTGTCTGTGCAGAGGTATTACACAACAT
TGTCTGTGACCAAGCGCTCTGGGGCAAGCATCCTCCAGGCTGGCTGCTGAGGTTAAGCCCCAGTGTGGATGCTGT
TGCCAAGACTGCAAACCACTGGCTCGTTTCCGTGCCCAAATCCAAGGCGAAGTTTTCTAGAGGGTTCTTGGGCTC
TTGGCACCTGCGTGTCTGTGCTTACCACCGCCCAAGGCCCTTGGATCTCTTGGATAGGAGTTGGTGAATAGA
AGGCAGGCAGCATCACACTGGGGTCACTGACAGACTTGAAGCTGACATTTGGCAGGGCATCGAAGGGATGCATCC
ATGAAGTCACCAGTCTCAAGCCCATGTGGTAGGCGGTGATGGAACAACCTGTCAAATCAGTTTTAGCATGACCTTT
CCTTGTGGATTTTCTTATTCTCGTTGTCAAGTTTTCTAGGGTTGAATTTTTTTCTTTTTCTCCATGGTGTTAAT
GATATTAGAGATGAAAACGTTAGCAGTTGATTTTTGTCCAAAAGCAAGTCATGGCTAGAGTATCCATGCAAGGT
GTCTTGTGTCATGGAAGGGATAGTTTGGCTCCCTTGGAGGCTATGTAGGCTTGTCCCGGGAAAGAGAAGTGTCT
GCAGCTGAAATGGACTGTTCTTTACTGACCTGCTCAGCAGTTTCTTCTCTCATATAATCCCAAAACAAGTACATC
TGCGATCAACTCTAGCCAAATTTGCCCTGTGTGCTACATGATGGATGATTATTATTTTAAAGTCTGTTTAGGAA
GGGAAATGGCTACTTGGCCAGCCATTGCCTGGCATTGGTAGTATAGTATGATTCTCACCATTATTTGTCATGGA
GGCAGACATACACCAGAAATGGGGGAGAAAACAGTACATATCTTCTGTCTTTAGTTTATTGTGTGCTGGTCTAAG
CAAGCTGAGATCATTGCAATGGAAAACACGTAACCTGTTTTAAAGTTTTTCTGGTAGCTTTAGCTTTATGCTAA
AAAAAATAATGACATTGGGTATCTATTTCTTTCTAAGACTACATTAGTAGGAAAATAAGTCTTTTCATGCTTATG
ATTTAGCTGTTTTGTGGTAATTGCTTTTTTAAAGGAAGTTATTAATATCATAAGTTATTATTAATATTTTGAACAC
AGGTGGATGTGAAGGATTTTCATTTAAAAACCAAGTGTTTTGACTTTTTCTGTTGAATGAACAACCTGTGCCTTG
TGGAATTTTTCGAGAAGTGTTTATGCTTTGTAGCATTTCAACTTGCAATTATTATAAAGAGGTATTAATGCCTCA
GTTATGTGTTTGTCAATGTACTGGCTGAGGATTCTATCTCAGCTGTCTTTTCTAACTGTGTAGGTTGAGTTTTGA
ACACGTGCTTGTGGACATCAGGCCTCCTGCCAGCAGTTCTTGAAGCTTCTTTTTCACTGCTACTCTACCTGT
ATTTCTCAGTTGCAGCACTGAGTGGTCAAAATACATTTCTGGGCCACCTCAGGGAACCCATGCATCTGCCTGGCA
TTTAGGCAGCAGAGCCCTGACCGTCCCCACAGGGCTCTGCCTCACGTCTCATCTCATTGGCTGTGTAAAGA
AATGGGAAAAGGGAAAAGGAGAGCAATTGAGGCAGTTGACCATATTCAGTTTTATTTATTTATTTTAAATTTG
TTTTTTTTCTCCAAGTCCACCAGTCTCTGAAATTAGAACAGTAGGCGGTATGAGATAATCAGGCCTAATCATGTTG

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FIGURE 3771B

TGATTCTCTTTTCTTAGTGGAGTGGAATGTTCTATCCCCACAAGAAGGATTATATCTTATAGACTTGTCTTGTTCTC
AGATTCTGTATTTACCCATTTTATTGAAACATATACTAAGTTCCATGTATTTTGTGTTACAAATCTTCTGAAAAAA
AACAAAACAATGTGAAACATTAAAATTAAAAGGCATTAATAATA

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FIGURE 3772

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCCACCCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCAGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGGCACCGCGCCCGAGCCCACTCCATTTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

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FIGURE 3773

CGCATCCCCAGCCCGCCGCCATGGCCGCCTACAAACTGGTGCTGATCCGGCACGGCGAGAGCGCATGGAACCTGG
AGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCGCGGGCCACGAGGAGGCGAAGCGCGCGGGCAGG
CGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTCACCTCAGTGCAGAAGATCTGGAGGCGCTCCTATGATG
TCCCACCACCTCCGATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCGCAGGTATGCAGACCTCA
CAGAAGATCAGCTACCCCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCCCTTCTGGAATGAAGAAA
TAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCTCCGGGGCATTGTCAAGC
ATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCCCATTGTCTATGAATTGG
ACAAGAACTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAGGAGACGGTGCGCAAAGCCATGGAAGCTG
TGGCTGCCCAGGGCAAGGCCAAGAAGTGAAGGCCGCGGGGAAGATACTGTCCCCAGGAGCACCTCCCTGCCCA
TCTTGTCCCTCTGCCCCCTCCACCTGCACATGTACACTGACCACATCTGTAGACATCTTGAGTTGTAGCTGCAG
ATGGGGACCAGTGGCTCCCATTTTTCATTTTAGCCATTTTGTGCGCTGCACCCACTCCCTTCATACAATCTAGTCA
GAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAAGCTATGGAAAAGCTCCCTTATCCAACAGAGTTTAAAACC
ATGCTAAGCCATGACCAGTGAGAAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCGGAGTCTGTCTCTGCTCTT
CTGCAGTCAGGTCACCTGCCTACTGCCTGGGGGCTCTAGTCATTCCAGTGGAAGACGAATGTAACCTGCGTGGTGA
TGTGACAACTGTTT

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FIGURE 3774

GTGGGCGGACCGCGCGGCTGGAGGTGTGAGGATCCGAACCCAGGGGTGGAGGCGGCTCCTGCGATCGAAGGGGAC
TTGAGACTCACCGGCCGCACGCCATGAGGGCCCTGTGGGTGCTGGGCCTCTGCTGCGTCCTGCTGACCTTCGGGT
CGGTGACAGCTGACGATGAAGTTGATGTGGATGGTACAGTAGAAGAGGATCTGGGTAAAAGTAGAGAAGGATCAA
GGACGGATGATGAAGTAGTACAGAGAGAGGAAGAAGCTATTTCAGTTGGATGGATTAAATGCATCACAAATAAGAG
AACTTAGAGAGAAGTCGGAAAAGTTTGCCTTCCAAGCCGAAGTTAACAGAATGATGAAACTTATCATCAATTCAT
TGTATAAAAATAAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAGGCTAA
TATCACTGACTGATGAAAATGCTCTTTCTGGAAATGAGGAACTAACAGTCAAAATTAAGTGTGATAAGGAGAAGA
ACCTGCTGCATGTCACAGACACCGGTGTAGGAATGACCAGAGAAGAGTTGGTTAAAAACCTTGGTACCATAGCCA
AATCTGGGACAAGCGAGTTTTTAAACAAAATGACTGAAGCACAGGAAGATGGCCAGTCAACTTCTGAATTGATTG
GCCAGTTTGGTGTGCGGTTTCTATTCCGCCTTCTTGTAGCAGATAAGGTTATTGTCACTTCAAAACACAACAACG
ATACCCAGCACATCTGGGAGTCTGACTCCAATGAATTTTCTGTAATTGCTGACCCAAGAGGAAACACTCTAGGAC
GGGGAACGACAATTACCCTTGTCTTAAAAGAAGAAGCATCTGATTACCTTGAATTGGATACAATTAAAAATCTCG
TCAAAAAATATTACAGTTTCATAAACTTTCTTATTTATGTATGGAGCAGCAAGACTGAAACTGTTGAGGAGCCCA
TGGAGGAAGAAGAAGCAGCCAAAGAAGAGAAAGAAGAATCTGATGATGAAGCTGCAGTAGAGGAAGAAGAAGAAG
AAAAGAAACCAAAGACTAAAAAAGTTGAAAAAAGTGTCTGGGACTGGGAACTTATGAATGATATCAAACCAATAT
GGCAGAGACCATCAAAGAAGTAGAAGAAGATGAATACAAAGCTTTCTACAAATCATTTTCAAAGGAAAGTGATG
ACCCCATGGCTTATATTTCACTTTACTGCTGAAGGGGAAGTTACCTTCAAATCAATTTTATTTGTACCCACATCTG
CTCCACGTGGTCTGTTTGACGAATATGGATCTAAAAAGAGCGATTACATTAAGCTCTATGTGCGCCGTGTATTCA
TCACAGACGACTTCCATGATATGATGCCTAAATACCTCAATTTTGTCAAGGGTGTGGTGGACTCAGATGATCTCC
CCTTGAATGTTTCCCGCGAGACTCTTCAGCAACATAAACTGCTTAAGGTGATTAGGAAGAAGCTTGTTCGTAAAA
CGCTGGACATGATCAAGAAGATTGCTGATGATAAATACAATGATACTTTTGGAAAGAATTTGGTACCAACATCA
AGCTTGGTGTGATTGAAGACCACTCGAATCGAACACGTCTTGCTAAACTTCTTAGGTTCCAGTCTTCTCATCATC
CAACTGACATTACTAGCCTAGACCAGTATGTGGAAAGAATGAAGGAAAAACAAGACAAAATCTACTTCATGGCTG
GGTCCAGCAGAAAAGAGGCTGAATCTTCTCCATTTGTTGAGCGACTTCTGAAAAAGGGCTATGAAGTTATTTACC
TCACAGAACCTGTGGATGAATACTGTATTTCAGGCCCTTCCCGAATTTGATGGGAAGAGGTTCCAGAATGTTGCCA
AGGAAGGAGTGAAGTTGATGAAAGTGAGAAACTAAGGAGAGTTCGTGAAGCAGTTGAGAAAGAATTTGAGCCTC
TGCTGAATTGGATGAAAGATAAAGCCCTTAAGGACAAGATTGAAAAGGCTGTGGTGTCTCAGCGCCTGACAGAAT
CTCCGTGTGCTTTGGTGGCCAGCCAGTACGGATGGTCTGGCAACATGGAGAGAATCATGAAAGCACAAAGCGTACC
AAACGGGCAAGGACATCTCTACAAATTACTATGCGAGTCAGAAGAAAACATTTGAAATTAATCCAGACACCCGC
TGATCAGAGACATGCTTCGACGAATTAAGGAAGATGAAGATGATAAAACAGTTTTGGATCTTGCTGTGGTTTTGT
TTGAAACAGCAACGCTTCGGTCAGGGTATCTTTTACCAGACACTAAAGCATATGGAGATAGAATAGAAAGAATGC
TTCGCCTCAGTTTGAACATTGACCCTGAIGCAAAGGTGGAAGAAGAGCCTGAAGAAGAACCTGAAGAGACAGCAG
AAGACACAACAGAAGACACAGAGCAAGACGAAGATGAAGAAATGGATGTGGGAACAGATGAAGAAGAAGAAACAG
CAAAGGAATCTACAGCTGAAAAAGATGAATTGTAAATTATACTCTCACCATTTGGATCCTGTGTGGAGAGGGAAT
GTGAAATTTACATCATTTCTTTTGGGAGAGACTTGTTTTGGATGCCCCCTAATCCCCTTCTCCCCTGCACTGTA
AAATGTGGGATTATGGGTCACAGGAAAAAGTGGGTTTTTTAGTTGAATTTTTTTTAAACATTCTCATGAATGTAA
ATTTGTACTATTTAACTATTCTTGATGTAAAATCTTGTGATGTGTATAAAAAATAAAAAAGATCCCAAAT

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FIGURE 3775

ATGAGCTTCACCACTCGCTCCACCTTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGACGCCCAGCTATGGC
GCCTGGCCAGTCAGCAGTGTGGCCAGCGTCTATGCAGGCAGCAGGGGCTCTCATTCCCGGATCTCTGTGTGCTGC
TTCACCAGCTTCCGGGTTGCATGGGGAATAGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAACGAC
TGCCTGGCCTCCTACCTGGACAGAGTGAGGAGCCTGGTGACCAAGAACCAGAAGCTGGAGAGCAAAATCCGGGAG
CACGTGGAGAAGAAGGGACCCCATGTCAGAGACTGGAGCCATTACTTCAAGATCATCGATGACCTGAGGGCTCAG
ATCTTTGCAAACACTGTGGACAATGCCTGCATCGTTCTGCAGATCGACAATGTCTGTCTTGCTGCTGATGACTTT
AGGGTCAAGTATGAGACAGAGCTGGCCATGGCCCATGACATCCATGGGCTCCGCAAGGTCATTGTTGACACCAAT
GTCACTCGGCTGCAGCTGGAGACAGAGATTGAGGCTCTCAAGGAGGAGCTGCTCTTCATAAAGAAGAACCACAAA
GAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCATGGAGGTAGATGCCCTTAAATCTCAG
TGCTTCGCCAAGATCATGGCAGACATCTGGGCCCCAATATGACGAGCTGGCTCGGAAGAACCAAGAGGAGCTGGAC
AAATACTGGTCTCAGAAGAATGAGGAAATCGCCAAAGTGGTCACCACGCAGTCCGCCGAGGTTGGAGCTGCTGAG
ATGACGCTCACAGAGCTGAGATGTACAGTCCAGTCCTTGGAGGTTGACCTGGACTCCATGAGAAAGTCTGAAGGCC
AGCTTGGAGGACCGCCTGAGGGAGGTGGAGGCCCGCCACACCCTGCAGATGGAGCAGCTCAATGGGATCCTGTTG
CACCTGGAGTCAGAGCTGGCACAGACCCTGGCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCCCTGCTGAAC
ATCAAGGTCAAGTTGGAGGCTGAGATCGCCACCTACCGCCGCCTGCTGGAAGATGGCGAGGAGTTCAATCTTGGT
GATGCCCTGGACAGCAGCAACTCCATGCAAACCATCCAAAAGACCACCACTGCCGGATAG

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FIGURE 3776

MSGGGLAAGMAGGLAGIGGIQNEKETMQSLNDCLASYLDRVRSVTKNQKLESKIREHVEKKGPHVRDWSHYFKI
IDDLRAQIFANTVDNACIVLQIDNVCLAADDFRVKYETELAMAHDIHGLRKVIVDTNVTRLQLETEIEALKEELL
FIKKNHKEEVKGLQAQIASSGLTMEVDALKSQCLAKIMADIWAQYDELARKNQEELDKYWSQKNEEIAKVVTTS
AEVGAAEMTLTELRCVQSLEVDLDSMRSLKASLEDRLREVEARHTLQMEQLNGILLHLESELAQTLAEGQCQAO
EYEALLNIKVKLEAEIATYRRLLEDGEEFNLGDA LDSSNSMQTIQKTTTAG

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FIGURE 3777

CAGTGCCAGGCTGGAGGCGGCAGCGGTTGGAGGCTTCGCCCGGCTTTGCAGCGGGGACTTCGGCGGCGGCGCCTC
AGGCACCTCGGCCCCGACACG**ATG**AGGCGAGTGGTACGACAGAGCAAGTTTCGGCATGTATTTGGGCAAGCGGTG
AAAAATGACCAGTGTATGATGACATCCGGGTTTCTCGTGTGACCTGGGATAGTTCCCTTTTGTGCTGTCAATCCC
AGATTTGTTGCCATAATCATAGAGGCAAGTGGGGGAGGAGCGTTCCTTGTCTCCCTCTGCACAAGACTGGTCTGA
ATTGACAAATCTTACCCTACAGTATGTGGCCACACAGGACCAGTGTGGACATAGACTGGTGGCCACATAACGAT
CAGGTCAATTGCCAGCGGTTTCAGAGGACTGCACGGTTCATGGTATGGCAGATCCCAGAAAATGGACTCACCCCTTCC
CTGACTGAACCTGTGGTGATTTTGGAAAGGCCACTCAAAGAGAGTCGGCATCGTGGCTTGGCATCCAACGGCCCCGC
AATGTGCTTCTTAGTGCAGGCTGTGATAATGCCATTATCATCTGGAATGTGGGAACAGGGGAAGCCCTTATAAAC
TTGGACGATATGCATTAGACATGATTTACAATGTGAGCTGGAACCGGAATGGCAGTCTGATCTGCACAGCTTCC
AAAGACAAGAAAGTGAGAGTCATTGATCCCAGGAAACAAGAGATTGTTGCTGAGAAGGAGAAAGCACATGAAGGA
GCAAGACCCATGAGAGCCATCTTCCTGGCCGATGGCAATGTCTTACCCTGGGTTTCAGCCGCATGAGCGAGCGG
CAGCTGGCTCTCTGGAATCCGAAAAATATGCAGGAACCAATTGCTCTTCATGAGATGGACACTAGCAATGGGGTG
TTGCTGCCCCCTTCTATGACCCTGACACCAGCATCATTTACTTATGTGGAAAGGGTGACAGCAGTATTCGCTATTTT
GAGATCACGGATGAATCCCCGTACGTCCACTACCTCAACACATTACAGCAGCAAGGAGCCTCAGAGAGGGATGGGT
TACATGCCCCAAGAGGGGACTTGATGTTAACAATGTGAGATTGCCAGATTCTTCAAACCTTCATGAGAGAAAGTGT
GAACCTATTATTATGACTGTTCCCAGGAAGTCTGACCTTTTCCAAGATGACCTGTATCCTGACACAGCGGGGCCA
GAGGCCGCGCTGGAGGCAGAAGAGTGGTTTGAAGGCAAGAATGCAGACCCAATCCTCATCTCCTTGAAGCACGGG
TACATTCCAGGCAAAAACAGGGATCTCAAGGTGGTCAAGAAGAACATTCTGGATAGCAAGCCCCACTGCAAACAAG
AAGTGCACCTGATCAGCATCCCCAAGAAAACACAGACACGGCCAGTGTGCAAAATGAAGCCAAGTTGGATGAG
ATTTTAAAAGAGATCAAATCTATAAAAGACACAATCTGCAATCAAGATGAGCGTATTTCCAAGTTAGAACAGCAG
ATGGCAAAGATAGCAGCC**TGA**AGGTCCCACCCCCACCCCTACAGAAAAAATGGGAGCAAGAAGTGTGCTTGGGA
GCTGGTTATTGGTGTGGTCTTAGGGAGGGCGGAAAGGGAGGCACTGCCATTTGGAGACATTCCATTTAGATTG
TCAACCAGCGATAGGCCACATTCCAGTAAGAACTCAATTTGTCTCCCAAATTTGCAGAAACAAAACGTGATTTAA
AAGCTGAGCTTTTTTATCAGAAAGCTTTTTTGTATGTTTTAAGTGTATGTGACTTGTTGAAGTTTTTAAAAGTGC
TACTTTTTAAATCCCAGATACTCTGAATTTTAGAAAACAACTAATTCTGATTGTGTCGTGCCAAGTACCCTTT
TTTTTTTAAATGAATAGGGACCAATGCCACATTGCTTTTTATATTTCTTTCTTTTTTAAATGTTGCCAAAACCAAAA
GTAGCTTTGTTTTCTTTTGTATTTTGCTACTTTGCAGTATTTGTGTGTGTGGTTTTTTTTCTTAAATTTGAAAGG
GACAGCACTGTGTATGTTTATAAACTAAATGAAGATAAGATATTATTTTGTATAAACATTATCTGAGAACAATC
AAAGCAGTAGCCACATGGTGCTGGCTCCTTTGCAGCACAAACCTGGTCATTTTGTATGACTGTACAACAGGAAGAC
TTGAAAAATCACGTGGATTATATTACCACCGCTCTCATTTTCATGGAGTCTTCTGATCAAAAAAGCTCACGTCGT
ATTTCTTCTTTTCTTTCTTTTCTAGAAAATTGGGTGTTTGTACCAGAATGGAATTTTGCTTCTCGGTTATCCT
GTGCTTCAGATGATTATAATCTAACCC

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FIGURE 3778

MRRVVRQSKFRHVFGQAVKNDQCYDDIRVSRVTWDSSFCAVNPRFVAIIIEASGGGAFLVLPLHKTGRIDKSYPT
VCGHTGFPVLDIDWCPHNDQVIASGSEDCTVMVWQIPENGLTSLTEPVVILEGHSKRVGIVAWHPTARNVLLSAG
CDNAII IWNVGTGEALINLDDMHSDMIYNVSWNRNGSLICTASKDKKVRVIDPRKQEIVAEKEKAHEGARPMRAI
FLADGNVFTTGFSRMSEQLALWNPKNMQEP IALHEMDTSNGVLLPFYDPDTSIIYLCGKGDSSIRYFEITDESP
YVHYLNTFSSKEPQRGMGYMPKRGLDVNVKCEIARFFKLHERKCEPIIMTVPRKSDLFQDDLYPD TAGPEAALEAE
EWFEGKNADPILISLKHGYIPGKNRDLKVVKKNILDSKPTANKKCDLISIPKKTDTASVQNEAKLDEILKEIKS
IKDTICNQDERISKLEQQMAKIAA

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FIGURE 3779

ATGGCTGTAAAGCATCTTCAGAAGCATCGCCTCTGTTTCCTTCTCCTGCTGGCCAGCTACAAGTGAGCGGCACAGC
CTGCTCCATGCCACAGGCCTGCCTGCGCCCCTGGGAACCATAGTAGTGCAGTCCACAAGGAGCATCCCGGCTGGG
CCCCACAACAGGCCCCCGAACTAGAGAACGTGGAACATGAGTCTCTTAGGATGAACGAGGAGCCGCTGGAGCGG
ACTCTCAGAGCGCTACCTGGCCACCAGTCTCTGGGTGGGGGTCCTGGGGGCACCATGGTTTTGGCGGCAGCCCCC
AGCCTCCTCATCCTTCTGTTGCTGCTCCTGGGGTCTGTGCCTGCTACCGACGCCCGCTCTGTGCCCTGAAGGCC
ACGTTCTGAGGATGTGGCGGGTAGTGGGGAGGCCGAGGGCTCGTCGGCCTCCTCCCCGAGCCTCCCGCCACCC
TGGACCCCGGCCCTCAGCCCCACATCGATGGGGCCCCAGCCCATAACCCTGGGGGGCCCATCACCCCCACCAAC
TTCCTGGATGGGATAGTGGACTTCTTCCGCCAGTACGTGATGCTGATTGCTGTGGTGGGCTCCCTGGCCTTTCTG
CTGATGTTTCATCGTCTGTGCCGCGGTCATCACCCGGCAGAAGCAGAAGGCCTCGGCCTATTACCCATCGTCCTTC
CCCAAGAAGAAGTACGTGGACCAGAGTGACCGGGCCGGGGGCCCCCGGGCCTTCAGTGAGGTCCCCGACAGAGCC
CCCGACAGCAGGCCCCGAGGAAGCCCTGGATTCTCCCGGCAGCTCCAGGCCGACATCTTGGCCGCCACCCAGAAC
CTCAAGTCCCCCACCAGGGCTGCACTGGGCGGTGGGGACGGAGCCAGGATGGTGGAGGGCAGGGGCGCAGAGGAA
GAGGAGAAGGGCAGCCAGGAGGGGGACCAGGAAGTCCAGGGACATGGGGTCCCAGTGGAGACACCAGAGGCGCAG
GAGGAGCCGTGCTCAGGGGTCTTGAGGGGGCTGTGGTGGCCGGTGAGGGCCAAGGGGAGCTGGAAGGGTCTCTC
TTGTTAGCCCAAGGAAGCCAGGGACCAGTGGGTCCCCCGAAAGCCCCTGTGCTTGCAGCAGTGTCCACCCCAGT
GTCTAA

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FIGURE 3780

MVSAAAPSLILLILLLLGSPATDARSVPLKATFLEDVAGSGEAEAGSSASSPSLPPPWTPALSPTSMGPQPITLG
GPSPTNFIDGIVDFFRQYVMLIAVVGSLAFLLMFIVCAAVITRQKQKASAYYPSSFPKKKYVDQSDRAGGPRAF
SEVPDRAPDSRPEEALDSSRQLQADILAATQNLKSPTRAALGGGDGARMVEGRGAEEEEKGSQEGDQEVQGHGVP
VETPEAQEEPCSGVLEGAVVAGEGQGELEGSLLLAQEAQGPVGPPEPSPCACSSVHPSV

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FIGURE 3781

GGGACCTTAATTCTCTTTCCCATCTTGCAAG~~ATC~~GCGGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAA
ACCCGAAGCCAAGAAGGTTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAAGCTAAAAAGCCCAAGAAGGG
GAAGCCCCATTGCAGCCGCAACCCTGTCCTTGTCAGAGGAATTGGCAGGTATTCCCGATCTGCCATGTATTCCAG
AAAGGCCATGTACAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTCGC
AACTGTTACAAAACCAAGTTGGTGGTGACAAGAACGGCGGTACCCGGGTGGTTAACTTCGCAAAATGCCTAGATA
TTATCCTACTGAAGATGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAACCCTTCAGTCAGCACGTGAGAAAAC
GCGAGCCAGCATTACCCCCGGGACCATCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCT
GAAGCAGCTGGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTACGAAGAACACA
CCAGAAATTTGTCATTGCCACTTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGC
TTACTTCAAGAAGAAGAAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGAGAAATA
TGAGATTACGGAGCAGCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTTACCAAAAATCAAAGCTATTCC
TCAGCTCCAGGGCTACCTGCGATCTGTGTTTGCTCTGACGAATGGAATTTATCCTCACAAATTGGTGTTCT~~TAAAT~~
GTCTTAAGAACCTAATTAAATAGCTGACTACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3782

MAGEKVEKPD TKEKKPEAKKVDAGGKVKKGNLKAKKPKKGKPHCSRNPVLVRGIGRYSRSAMYSRKAMYKRKYSA
AKSKVEKKKKEKVLATVTKPVGGDKNGGTRVVKLKRMFRIYPTEDVPRKLLSHGKKPFSQHVRKLRASITPGTIL
IILTGRHRGKR VVFLKQLASGLLLVTGPLVLNRVPLRRTHQKFVIATSTKIDISNVKIPKHLTDAYFKKKKLRKP
RHQEGEIFDTEKEKYEITEQRKIDQKAVDSQILPKIKAIPQLQGYLRSVFALTNGIYPHKLVF

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FIGURE 3783

AGTTCACCCAGGCCCTGAACTGCCAAACAGTTACTCAACTGCTTAAGCTGGCCCACAAATACAGACAAGAGACCA
CCTGCCCTTCGAGCAGGAGTTAACACCATCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTGCA
CACGATGTGGATTCCATCGAGCTGGTTGTCTTCTTGCCTGCCCTGTGTTGTAAAATGGGAGTCCCTTACTGCATT
ATCAAGGGGAAGGCAAGACTGGGCCGTCTAGTCCACAGGAAGACCTGCACCACTGTGCGCTTCACACAGGTGAAC
TTGGAAGACAAAGGCGCTTTGGCTAAGCTGGTGGGAAGGTATCAGGACCAATGACAATGACAGATACGATGAGATC
TGCTGTCACTGGGGAGGCAATATCTTGGGTCCCAAGTCTGTGGCTTGCAATTGCCAAGCTCGAAAAGGCAAAGGCT
AAAGAACTTGCCACTAACTGGGTTAAATGTATACTGTTGAGTTTTCTGTACATAAAAAATAATGAAAATAATACA
AATTTTCCTT

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FIGURE 3784

MGVPYCIIGKARLGRLVHRKTCTTVAFTQVNLEDKGALAKLVEGIRTNDNDRYDEICCHWGGNILGPKSVACIA
KLEKAKAKELATKLG

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FIGURE 3785

CGGCCGGCGATATGGCTGCCGCTGTGCCCCGCGCCGCATTTCTCTCCCCGCTGCTTCCCCTTCTCCTGGGCTTCC
TGCTCCTCTCCGCTCCGCATGGCGGCAGCGGCCTGCACACCAAGGGCGCCCTTCCCCTGGATACGGTCACTTTCT
ACAAGGTCATTCCCAAAAGCAAGTTCGTCTTGGTGAAGTTCGACACCCAGTACCCCTACGGTGAGAAGCAGGATG
AGTTCAAGCGTCTTGCTGAAAACTCGGCTTCCAGCGATGATCTCTTGGTGGCAGAGGTGGGGATCTCAGATTATG
GTGACAAGCTGAACATGGAGCTGAGTGAGAAATACAAGCTGGACAAAGAGAGCTACCCAGTCTTCTACCTCTTCC
GGGATGGGGACTTTGAGAACCCAGTCCCATACACTGGGGCAGTTAAGGTTGGAGCCATCCAGCGCTGGCTGAAGG
GGCAAGGGGTCTACCTAGGTATGCCTGGTTGCCTGCCTGTATACGACGCCCTGGCCGGGGAGTTCATCAGGGCCT
CTGGTGTGGAGGCCCGCCAGGCCCTCTTGAAGCAGGGGCAAGATAACCTCTCAAGTGTGAAGGAGACTCAGAAGA
AGTGGGCCGAGCAATACCTGAAGATCATGGGGAAGATCTTAGACCAAGGGGAGGACTTCCCAGCATCAGAGATGA
CACGGATCGCCAGGCTGATTGAGAAGAACAAGATGAGTGACGGCAAGAAGGAGGAGCTCCAGAAGAGCTTAAACA
TCCTGACTGCCTTCCAGAAGAAGGGGGCCGAGAAAGAGGAGCTGTAAAAAGGCTGTCTGTGATTTTCCAGGGTTT
GGTGGGGGTAGGGAGGGGAGAGTTAACCTGCTGGCTGTGAGTCCCTTGTGGAATATAAGGGGGTAGTGGGAACAG
TGGTACTAACCACGATTCTGAGCCCTGAGTATGCCTGGACATTGATGCTAACATGACATGCT

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FIGURE 3786

MAAAVPRAAFLSPLLPLLLGFLLLSAPHGGSGLHTKGALPLDVTTFYKVIPKSKFVLVKFDTQYPYGEKQDEFKR
LAENSASSDDLLVAEVGISDYGDKLNMESEKYKLDKESYPVFYLF RDGDFENPVPTGAVKVGAIQRWLKGQGV
YLGMPGCLPVYDALAGEFIRASGVEARQALLKQGQDNLSV KETQKKWAEQYLKIMGKILDQGEDFPASEMTRIA
RLIEKNKMSDGKKEELQKSLNILTAFQKKGAKEEL

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FIGURE 3787A

ATGGTCTTGCTTCTTTGTCTATCTTGTCTGATTTTCTCCTGTCTGACCTTTTCTGTTAAAAATCTGGGGGAAA
ATGACGGACTCCAAGCCGATCACCAGAGTAAATCAGAAGCAAACCTCATCCCGAGCCAGGAGCCCTTTCCAGCC
TCTGATAACTCAGGGGAGACACCGCAGAGAAATGGGGAGGGCCACACTCTGCCCAAGACACCCAGCCAGGCCGAG
CCAGCCTCCCAAAAGGCCCAAAGATGCCGGTGGCGGAGAAACTCCCTACCACCCTCCCACCAGAAGCCCCCA
AGAAACCCCCCTTTCTTCCAGTGACGCAGCACCTCCCCAGAGCTTCAAGCCAACGGGACTGGGACACAAGGTCTG
GAGGCCACAGATACCAATGGCCTGTCTCTCAGCCAGGCCCCAGGGCCAGCAAGCTGGCTCCCCCTCCAAAGAA
GACAAGAAGCAGGCAAACATCAAGAGGCAGCTGATGACCAACTTCATCCTGGGCTCTTTTGATGACTACTCCTCC
GACGAGGACTCTGTTGCTGGCTCATCTCGTGAGTCTACCCGGAAGGGCAGCCGGGCCAGCTTGGGGGCCCTGTCC
CTGGAGGCTTATCTGACCACAGGTGAAGCTGAGACCCGCGTCCCCACTATGAGGCCGAGCATGTGCGGACTCCAC
CTGGTGAAGAGGGGACGGGAACACAAGAAGCTGGACCTGCACAGAGACTTTACCGTGGCTTCTCCCGCTGAGTTT
GTCACACGCTTTGGGGGGGATCGGGTCATCGAGAAGGTGCTTATTGCCAACAACGGGATTGCCGCCGTGAAGTGC
ATGCGCTCCATCCGCAGGTGGGCCTATGAGATGTTCCGCAACGAGCGGGCCATCCGGTTTGTGTGATGGTGACC
CCCAGGACCTTAAGGCCAACGCAGAGTACATCAAGATGGCGGATCATTACGTCCCCGTCCCAGGAGGGCCCAAT
AACAACAATATGCCAACGTGGAGCTGATTGTGGACATTGCCAAGAGAATCCCCGTGCAGGCGGTGTGGGCTGGC
TGGGGCCATGCTTCAGAAAACCCCTAAACTTCCGGAGCTGCTGTGCAAGAATGGAGTTGCTTTCTTAGXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXGAGATAAGATCGCCTCCACCGTTGTGCGCCAGACGCTACAGGTCCCAACC
CTGCCCTGGAGTGGAAGCGGCCTGACAGTGGAGTGGACAGAAGATGATCTGCAGCAGGGAAAAAGAATCAGTGTC
CCAGAAGATGTTTATGACAAGGGTTGCGTGAAAGACGTAGATGAGGGCTTGGAGGCAGCAGAAAGAATTGGTTTT
CCATTGATGATCAAAGCTTCTGAAGGTGGCGGAGGGAAGGGAATCCGGAAGGCTGAGAGTGCGGAGGACTTCCCG
ATCCTTTTCAGACAAGTACAGAGTGAGATCCAGGCTCGCCCATCTTTCTCATGAAGCTGGCCCAGCACGCCCGT
CACCTGGAAGTTTCAATCCTCGCTGACCAGTATGGGAATGCTGTGTCTCTGTTTGGTTCGCGACTGCTCCATCCAG
CGGCGGCATCAGAAGATCGTTGAGGAAGCACCGGCCACCATCGCCCCGCTGGCCATATTCGAGTTCATGGAGCAG
TGTGCCATCCGCTGGCCAAGACCGTGGGCTATGTGAGTGCAGGGACAGTGGAATACCTCTATAGTCAGGATGGC
AGCTTCCACTTCTTGGAGCTGAATCCTCGCTTGCAAGTGAACATCCCTGCACAGAAATGATTGCTGATGTTAAT
CTGCCGGCCGCCAGCTACAGXXX
XX
XX
CGGAGCAGCAAGAACGTGTGGGGTTACTTCAGCGTGGCCGCTACTGGAGGCCTGCACGAGTTTGGCGATTCCCAA
TTTGGGCACTGCTTCTCCTGGGGAGAGAACCGGGAAGAGGCCATTTCGAACATGGTGGTGGCTTTGAAGGAAGT
TCCATCCGAGGCGACTTTAGGACTACCGTGGAAATACCTCATTAACTCCTGGAGACCGAGAGCTTCCAGAACAAC
GACATCGACACCGGTGGTTGGACTACCTCATTGCTGAGAAAGTGCAGGAGAAACCGGATATCATGCTTGGGGTG
GTATGCGGGGCTTGAACGTGGCCGATGCGATGTTTCAAGAGTGCATGACAGATTTCTTACACTCCCTGGAAAGG
GGCCAGGTCTCCAGCGGATTCACTACTGAACCTCGTAGATGTGGAATTAATTTACGGAGGTGTTAAGTACATT
CTCAAGGTGGCCCGGCAGTCTCTGACCATGTTTCTCATCATGAATGGCTGCCACATCGAGATTGATGCCAC
CGGCTGAATGATGGGGGGCTCCTGCTCTCCTACAATGGGAACAGCTACACCACCTACATGAAGGAAGAGGTTGAC
AGXXXXXXXXXXXXCGGCAATAAGACGTGTGTGTTTGAAGGAGAACGATCCTACAGTCTGAGATCCCCCTCG
GCTGGGAAGCTGACACAGTACACAGTGGAGGATGGGGGCCAGTTGAGGCTGGGAGCAGCTACGCTGAGATGGAG
GTGATGAAGATGATCATGACCCTGAACGTTTCAAGAAAGAGGCCGGGTGAAGTACATCAAGCGTCCAGGTGCCGTG
CTGGAAGCAGGCTGCGTGGTGGCCAGGCTGGAGCTCGATGACCCTTCTAAAGTCCACCCGGCTGAACCGTTTACA
GGAGAATCCCTGCCCAGCAGACACTGCCCATCCTCGGAGAGAACTGCACCAGGTCTTCCACAGCGTCTTGAA
AACCTCACCAACGTGATGAGTGGCTTTTGTCTGCCAGAGCCCGTTTTTAGCATAAAGCTGAAGGAGTGGGTGCAG
AAGCTCATGATGACCTCCGGCACCCGTCAGTCCGCTGCTGGAGCTGCAGGAGATCATGACCAGCGTGGCAGGC
CGCATCCCCGCCCCGTGTGGAGAAGTCTGTCCGAGGGTGTGGCCAGTATGCCAGCAACATCACCTCGGTGCTG
TGCCAGTTCCCCAGCCAGCAGATAGCCACCATCCTGGACTGCCATGCAGCCACCCTGCAGCGGAAGGCTGATCGA
GAGGTCTTCTTATCAACACCCAGAGCATCGTGAGTTGGTCCAGAGGTACCGCAGCGGGATCCGCGGCTATATG
AAAACAGTGGTGTGGATCTCCTGAGAAGATACTTGCGTGTGAGCACCATTTTCAGCAAGGCAAGAGATGCTGA
TGCCAACACAGTGGGATGGTGGGGGGCGTGAGGAGCCTGAGCTTTACCTCTGTGTGGTGTGTTTGTCTCCCCAG
CCCCTACGACAAGTGTGTGATAAACCTCAGGGAGCAGTTCAAGCCAGACATGTCCAGGTGCTGGACTGCATCT

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FIGURE 3787B

TCTCCACGCACAGGTGGCCAAGAAGAACCAGCTGGTGATCATGTTGATCGATGAGCTGTGTGGCCCAGACCCCTT
CCCTGTGCGACGAGCTGATCTCCATCCTCAACGAGCTCACTCAGCTGAGCAAAAGCGAGCACTGCAAAGTGGCCC
TCAGAGCCCCGGCAGATCCTGATTGCCTCCCACCTCCCCTCCTACGAGCTGCGGCATAACCAGGTGGAGTCCATTT
TCCTGTCTGCCATTGACATGTACGGCCACCAGTTCTGCCCCGAGAACCCTCAAGGTGAAGAAATTAATACTTTTCGG
AAACAACCATCTTCGACGTCTGCCTACTTTCTTCTATCACGCAAAACAAAGTCGTGTGCATGGCGTCCCTTGGAGG
TTTACGTGCGGAGGGGTACATCGCCTATGAGTTAAACAGCCTGCAGCACCGGCAGCTCCCGGACGGCACCTGCG
TGGTAGAATTCCAGTTTCATGCTGCCGTCTCCACCCAAACCGGATGACCGTGCCCATCAGCATCACCAACCCCTG
ACCTGCTGAGGCACAGCACAGAGCTCTTCATGGACAGCGGCTTCTCCCCACTGTGCCAGCGCATGGGAGCCATGG
TAGCCTTCAGGAGATTTCGAGGACTTCACCAGAAATTTTGATGAAGTCATCTCTTGCTTCGCCAACGTGCCCAAAG
ACACCCCCCTCTTCAGCGAGGCCCCGCACCTCCCTATACTCCGAGGATGACTGCAAGAGCCTCAGAGAAGAGCCCA
TCCACATTCTGAATGTGTCCATCCAGTGTGCAGACCACCTGGAGGATGAGGCACTGGTGCCGATTTTACGGACAT
TCGTACAGTCCAAGAAAAATATCCTTGTGGATTATGGACTCCGACGAATCACATTCTTGATTGCCCAAGAGAAAG
AATTTCCCAAGTTTTTTCACATTTCAGAGCAAGAGATGAGTTTGCAGAAGATCGCATTACCGTCACTTGGAACCTG
CCCTGGCCTTCCAGCTGGAACCTTAACCGGATGCGTAACCTTCGATCTGACCGCCGTGCCCTGTGCCAACCAAGA
TGCACCTTTACCTGGGTGCTGCCAAGGTGAAGGAAGGTGTGGAAGTGACGGACCATAGGTTCTTCATCCGCGCCA
TCATCAGGCACTCTGACCTGATCACAAAGGAAGCCTCCTTCGAATACCTGCAGAACGAGGGTGAGCGGTGCTCC
TGGAGGCCATGGACGAGCTGGAGGTGGCGTTCAATAACACCAGCGTGCGCACCGACTGCAACCACATCTTCCTCA
ACTTCGTGCCCACTGTTCATCATGACCCCTTCAAGATCGAGGAGTCCGTGCGCTACATGGTTATGCGCTACGGCA
GCCGGCTGTGGAACCTCCGTGTGCTACAGGCTGAGGTCAAGATCAACATCCGCCAGACCACCACCGGCAGTGCCG
TTCCCATCCGCCTGTTTCATCACCAATGAGTCGGGCTACTACCTGGACATCAGCCTCTACAAAGAAGTGACTGACT
CCAGATCTGGAAATATCATGTTTCACTCCTTCGGCAACAAGCAAGGGCCCCAGCACGGGATGCTGATCAATACTC
CCTACGTACCAAGGATCTGCTCCAGGCCAAGCGATTCCAGGCCCAGACCCTGGGAACCACCTACATCTATGACT
TCCCGGAAATGTTTCAGGCAGGCTCTCTTTAAACTGTGGGGCTCCCCAGACAAGTATCCCAAAGACATCCTGACAT
ACACTGAATTAGTGTTGGACTCTCAGGGCCAGCTGGTGGAGATGAACCGACTTCCTGGTGGAATGAGGTGGGCA
TGGTGGCCTTCAAAATGAGGTTTAAAGACCCAGGAGTACCCGGAAGGACGGGATGTGATCGTCATCGGCAATGACA
TCACCTTTCGCATTGGATCCTTTGGCCCTGGAGAGGACCTTCTGTACCTGCGGGCATCCGAGATGGCCCCGGGCAG
AGGGCATTTCCCAAAATTTACGTGGCAGCCAACAGTGGCGCCCGTATTGGCATGGCAGAGGAGATCAAACACATGT
TCCACGTGGCTTGGGTGGACCCAGAAGACCCCCACAAAGGATTTAAATACCTGTACCTGACTCCCCAAGACTACA
CCAGAATCAGCTCCCTGAACTCCGTCCACTGTAAACACATCGAGGAAGGAGGAGAGTCCAGATACATGATCACGG
ATATCATCGGGAAGGATGATGGCTTGGGCGTGGAGAATCTGAGGGGCTCAGGCATGATTGCTGGGGAGTCTCTC
TGGCTTACGAAGAGATCGTCAACCATTAGCTTGGTGACCTGCCGAGCCATTGGGATTGGGGCTACTTGGTGAGGC
TGGGCCAGCGAGTGATCCAGGTGGAGAATTCCCACATCATCTCACAGGAGCAAGTGCTCTCAACAAGGTCCTGG
GAAGAGAGGTCTACACATCCAACAACCAGCTGGGTGGCGTTCAGATCATGCATTACAATGGTGTCTCCACATCA
CCGTGCCAGATGACTTTGAGGGGGTTTATACCATCCTGGAGTGGCTGTCTATATGCCAAAGGATAATCACAGCC
CTGTCCCTATCATCACACCCACTGACCCCATTGACAGAGAAATTGAATTCTCTCCATCCAGAGCTCCCTACGACC
CCCGGTGGATGCTTGAGGAAGGCCTCACCCAACCTCTGAAGGGAACGTGGCAGAGCGGATTCTTTGACCACGGCA
GTTTCAAGGAAATCATGGCACCCCTGGGCGCAGACCGTGGTGACAGGACGAGCAAGGCTTGGGGGGATTCCCGTGG
GAGTGATTGCTGTGGAGACACGACTGTGGAGGTGGCAGTCCCTGCAGACCCTGCCAACCTGGATTCTGAGGCCA
AGATAATTACGACGGCAGGACAGGTGTGGTTCCAGACTCAGCCTACAAAACCGCCAGGCCGTCAAGGACTTCA
ACCGGGAGAAGTTGCCCTGATGATCTTTGCCAACTGGAGGGGTTCTCCGGTGGCATGAAAGACATGTATGACC
AGGTGCTGAAGTTTGGAGCCTACATCGTGACGGCCTTAGACAATACAAACAGCCCATCCTGATCTATATCCCGC
CCTATGCGGAGCTCCGGGGAGGCTCCTGGGTGGTCATAGATGCCACCATCAACCCGCTGTGCATAGAAATGTATG
CAGACAAAGAGAGCAGGGGTGGTGTCTGGAACCAGAGGGGACAGTGGAGATTAAGTTCCGAAAGAAAGATCTGA
TAAAGTCCATGAGAAGGATCGATCCAGCTTACAAGAACTCATGGAACAGCTAGGGGAACCTGATCTCTCCGACA
AGGACCGAAAGGACCTGGAGGGCCGGCTAAAGGCTCGCGAGGACCTGCTGCTCCCATCTACACCAGGTGGCGG
TGCAGTTTCGCCGACTTCCATGACACACCCGCCGGATGCTGGAGAAGGGCGTCATATCTGACATCCTGGAGTGGA
AGACCGCACGCACCTTCCTGTATTGGCGTCTGCGCCGCCCTCCTCCTGGAGGACCAGGTCAAGCAGGAGATCCTGC
AGGCCAGCGGGGAGCTGAGTCACGTGCATATCCAGTCCATGCTGCGTCTGTTTCGTGGAGACGGAGGGGGCTG

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FIGURE 3787C

TCAAGGCCTACTTGTGGGACAACAACCAGGTGGTTGTGCAGTGGCTGGAACAGCACTGGCAGGCAGGGGATGGCC
CGCGCTCCACCATCCGTGAGAACATCACGTACCTGAAGCACGACTCTGTCCTCAAGACCATCCGAGGCCTGGTTG
AAGAAAACCCCGAGGTGGCCGTGGACTGTGTGATATACCTGAGCCAGCACATCAGCCCAGCTGAGCGGGCGCAGG
TCGTTACCTGCTGTCTACCATGGACAGCCCGGCCTCCACCTGA

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FIGURE 3788A

GGCGGTAGTGCCTCGGCTGCTGCCCCGGGTCTGGCAGAACTCGGGTGTTTTGGGCTGAGACAGTGGCAGCTGCGG
CCCCGACCCCCAAGTGCAGGGACCTCCGGCGAATAAAGGTCGGCCTGCGGGTAGGCCGCTAGGGCCTGCGGTCCGG
CCTGCGGGGAGAACTGGGTGCTCAGTCCTCCGAGTGGTGGGGCTGGGGACTTTGAGGGAGTTGGCTCTAGGGCACA
GTCCCTGCCTGGCCAGGTGCGAGGAACAAGTGCTGGGATCTGGCGTGTGTGCTCCAGGGGCTCTTTCCGCGGCC
TTTCCACCTCTTTTCACTTTGGGGACGGTAGGCCTTTATAAACGGACTAATGCTGGGTGATTTGTTCTGTGGTT
GTTGATGCCGAGGAAAGACTCTGGGCCCCAGGACTCACCTAACTGGAGTTCGAATACTGTTGCTCGCTGTGTG
ACCTTGGAATAAACAAGCTTTTCTGAAGTGAGAAGCTGTTCTCAGCCACGAGTCCTGTGCAAGATCACTAAT
GATTACCTGGCATTCTGCGACACAGGCAGGTCTCAGGGTTTGTGCAAGTTTGCAAAC**ATG**TTACCCCTGTCTC
AGACCTCGAGAGCATGGTTCATCGATAGAGCCCGTCAGGCACGAGAAGAAAGGCTTGTGCAGAAGGAACGGGAGC
GGGCAGCTGTTGTGATCCAGGCCCATGTCCGGAGTTTTCTCTGTGCGAGTCGACTGCAGAGAGATATCAGGAGAG
AGATTGATGACTTTTTTAAAGCAGATGACCCTGAGTCCACTAAAAGAAGTGCACTTTGTATTTTCAAGATTGCCA
GGAACTGCTGTTTCTATTCAAGATCAAAGAGGATAATGAGAGATTTGAGAAGTTGTGTGCGCAGCATCCTGAGCA
GCATGGATGCTGAGAATGAGCCTAAGGTGTGGTATGTGTCCCTGGCTTGTCTAAGGACCTCACCCCTCCTTTGGA
TTCAACAGATCAAGAACATTTTGTGGTACTGCTGTGATTTTCTCAAGCAGCTCAAGCCTGAAATCCTGCAGGACT
CCCGACTCATCACCCCTGTACCTCACGATGCTTGTACCTTCACAGACACTTCAACGTGGAAAATTCTTCGGGGAA
AAGGTGAAAGTCTTCGACCAGCGATGAACCACATTTGTGCAATATAATGGGACATCTCAACCAGCATGGATTTT
ATTCTGTGCTGCAGATATTGTTAACCCGTGGCCTGGCAAGACCCCGTCTTGTCTATCCAAAGGCACCTTAACAG
CAGCTTTTTTCTCTAGCGTTACGCCCTGTGATTGCTGCACAGTTCTCAGACAATCTGATTGGCCCGTTCTCATCC
ACATCATGTCTGTGCTGCTCTGGTGACTCATCTCAGCACAGTGACCCCTGAGCGCCTCACTGTTTTAGAATCCC
ATGACATGCTTCGTAAATTCATCATATTTTTAAGAGACCAAGATCGATGCCGTGATGTATGTGAAAGTTTAGAAG
GATGCCATACGCTTTGTCTAATGGGCAACCTCCTACACTTGGGCTCCCTCAGCCCCAGAGTGTTAGAGGAGGAGA
CAGATGGGTTTCGTGAGTTTGCTCACCCAGACGCTGTGCTACTGTGCGAAGTATGTGTCTCAGAAGAAGTCCAACC
TGACCCACTGGCATCCTGTCTTGGCTGGTTCTCCCAATCTGTGGATTATGGCCTTAACGAGTCAATGCACCTGA
TCACCAAACAGCTGCAGTTCTTGTGGGGGGTGCTCTGATCCGGATCTTCTTCTGTGACATCCTGAGCAAGAAGC
TACTGGAGAGCCAGGAGCCAGCCACGCACAGCCAGCATCCCTCAGAATGTGCTCCAGTGAAGAGTCTCCTAA
AGCGTGCTTTTCAAAGTTCGGCATCAGTCCGGAATATTCTCAGGCCTGTGCGGGGTAAACGGGTCGACTCTGCAG
AAGTCCAGAAGGTTTGCAACATCTGTGTCTCTACCAGACCTCGCTGACAACTCTCACACAGATTGGGCTGCAGA
TACTCACAGGTCTCACTTACCTTGATGACCTGCTTCCCAAATGTGGGCATTTATCTGTGAGCTCGGGCCCCACG
GAGGGTTAAAGCTCTTCTTGGAATGCCTGAACAATGACACTGAAGAGTCCAAGCAACTCTTGCCCATGCTGATGC
TGTTCTGTGACTGTTTCGCGGCACCTCATCACAATCCTTGATGACATTGAAGTTTATGAAGAACAGATTTTATTCA
AACTGGAAGAGCTGGTCACTATCTCTCTTTCTTCTGAATTCTTTTGTGTTTAAAGATGATCTGGGATGGAATTGTAG
AGAACGCCAAGGGTGAGACCTTGGAGCTGTTCCAGTCTGTCCACGGGTGGCTTATGGTGCTGTACGAGCGGGACT
GCCGGCGGCGCTTACCCCCGAGGACCACTGGCTGCGAAAGGATCTCAAACCTAGCGTGCTCTTCCAAGAAGCTCG
ACAGGGACAGAAAACGGGCACAGTTGATCCTGCAGTACATCCACATGTATCCCTCACAAAAACAGAGTTCTAC
TGTTTCGAACCATGGTTACCAAGGAGAAAGGAGAACTGGGGCTGGTGGAACCAGCTCTGCCTCCCCGCATGTCA
CTCACATCACCATCCGCCGGTCCAGGATGCTGGAGAGCTTGTTTGAGTGCCCTGGCCACTGGTGATCAATGCCG
AGAGCTGCTAGGAAGGCAGTGTGTGCTGAACAGTGATGTTTCTGACATTCTTCAAGGACGGCTACGAGCAGCTT
AGGCAGCTCTCCAGCACGCCATGAAGGGGGTCATCCGTGTGAAGTTTGTCAATGACCTCGGGGTGGACGAAGCA
GGGATTGATCAAGACGGTGTTTTTAAAGAGTTCTTGGAAGAGATCATCAAGAGAGTTTTTGACCCAGCACTCAAT
CTGTTCAAGACAACAGTGGGGATGAGAGGCTGTACCCCTCACCCACATCCTACATCCATGAGAATTACCTGCAG
CTCTTCGAGTTTGTGGGAAGATGCTGGGGAAGGCTGTGTATGAGGGAATTGTGGTGACGTGCCATTTGCATCC
TTCTTCTGAGCCAACCTGCTTGGGCACCAACACAGCGTCTTCTATAGCTCGGTGGATGAACTGCCTTCTCTGGAC
TCCGAGTTCTATAAAAACCTCACCTCCATCAAGCGCTATGATGGGGACATCACTGACCTGGGCCTGACGCTGTCT
TACGACGAGGACGTGATGGGTGAGCTTGTGTTGCCATGAACTGATTCTGGAGGGAAGACCATTCCTGTTACAAAT
GAAAATAAGCAACAGAATTAGCTACATCCATCTGATGGCACATTTTGAATGCACACTCAAATAAAAAACCAAAC
AGCTGCCCTCATTAGCGGATTCCGTTCCATTATCAAACCCGAGTGGATCCGAATGTTCTCAACTCCTGAACTGCA
GCGTCTCATCTCTGGCGACAATGCTGAGATTGATCTGGAAGATTTAAAGAAGCACACAGTCTACTACGGTGGTTT
CCATGGAAGTCACAGAGTCATCATCTGGCTCTGGGATATTCTGGCCTCCGACTTCACACCGGATGAGAGAGCTAT

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FIGURE 3788B

GTTTCTGAAGTTCGTGACCAGCTGCTCCAGACCCCCGCTCCTGGGATTTCGCCTACCTCAAGCCTCCATTCTCCAT
CCGCTGCGTGGAGGTGTCGGACGATCAGGACACCGGGGACACTCTGGGCAGCGTCCTCCGGGGCTTCTTCACCAT
CCGCAAGCGGGAGCCAG

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FIGURE 3789

MFTLSQTSRAWFIDRARQAREERLVQKERERAAVVIQAHVRSFLCRSRLQORDIRREIDDDFFKADDPESTKRSALC
IFKIARKLLFLFRIKEDNERFEKLCRSILSSMDAENEPKVWYVSLACSKDLTLLWIQQIKNILWYCCDFLKQLKP
EILQDSRLITLYLTMLVTFTDTSTWKILRGKGESLRPAMNHICANIMGHLNQHGIFYSVLQIILLTRGLARPRPCLS
KGTLTAAFSALALRPVIAAQFSDNLIRPFLIHIMSVPALVTHLSTVTPERLTVLESHDMLRKFIIFLRDQDRCDV
CESLEGCHTLCLMGNLLHLGSLSPRVLEEETDGFVSLLTQTLCYCRKYVSQKKSNIHWHHPVLGWFSQSVDYGLN
ESMHLITKQLQFLWGVPLIRIFFCDILSKKLLESQEPAAHAQPASPQNVLPVKSLKRAFQKSASVRNLRPVGGK
RVDSAEVQKVCNICVLYQTSLTTLTQIRLQILTGLTYLDDLLPKLWAFICELGPHGGLKLFLECLNNDTEESKQL
LAMLMLFCDCSRHLITILDDIEVYEEQISFKLEELVTISSFLNSFVFKMIWDGIVENAKGETLELFQSVHGWLMLV
LYERDCRRRFTPEDHWLRKDLKPSVLFQELDRDRKRAQLILQYIPHVIPHKNRVLLFRTMVTKEKEKLGVLVETSS
ASPHVTHITIRRSRMLEDGYEQLRQLSQHAMKGVIRVKFVNDLGVDEAGIDQDGVFKEFLEEIIKRVFDPALNLF
KTTSGDERLYPSPTSIIHENYLQLFEFVGKMLGKAVYEGIVVDVPFASFFLSOLLGHHHSVFYSSVDELPSLDSE
FYKNLTSIKRYDGDITDLGLTSLSYDEDVMGQLVCHELIPGGKTIPVTNENKISYIHLMAHFRMHTQIKNQTAALI
SGFRSIIKPEWIRMFSTPELQRLISGDNAEIDLEDLKKHTVYYGGFHGSHRVI IWLWDILASDFTPDERAMFLKF
VTSCSRPPLLGFAYLKPPFSIRCVEVSDDQDTGDTLGSVLRGFFTIRKREPGGRLPTSSTCFNLLKLPNYSKKS
LVREKLRYAISMNTGFELS

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FIGURE 3790A

GAAGCGCCGCCGCCACCGCCGCCTTTGCTGTCCCCCGGCCTCTAGTTCCCCGCAGGTGGGAGGTGGGAGCCATGT
CGAAACGGCTCCGGAGCAGCGAGGTGTGCGCTGACTGCAGCGGGCCGGATCCTTCCTGGGCATCAGTAAATAGGG
GAACGTTTTTATGTGATGAGTGTGTCAGTGTCCATCGGAGTCTAGGGCGCCATATCTCCCAAGTGAGGCATCTGA
AACACACACCGTGGCCTCCAACACTGCTTCAGATGGTTGAGACCTTGTATAATAACGGTGCTAACTCTATATGGG
AGCATTCTTTGCTGGACCTTGCCTCTATTATGAGTGGAAAGACGTAAAGCTAATCCACAGGATAAAGTACATCCCA
ATAAAGCGGAATTCATCAGAGCCAAGTATCAGATGTTAGCGTTCGTCCATCGCTTGCCCTGCCGGGATGACGATA
GTGTGACTGCCAAAAGATCTTAGCAAGCAACTCCATTTCGAGCGTGAGAACAGGGAATCTTGAAACCTGTTTGAGAC
TGTTATCTTTAGGAGCACAAGCCAATTCTTTTCATCCTGAAAAAGGAAACACCCCACTCCATGTTGCCCTCCAAAG
CAGGGCAGATTTTACAGGCTGAATTATTGGCAGTATATGGAGCAGACCCAGGCACACAGGATTCTAGTGGGAAAA
CTCCCGTTGATTATGCAAGGCAAGGAGGGCACCATGAGCTGGCAGAGCGCCTCGTGAAATACAGTATGAGCTAA
CGGACAGACTAGCCTTCTATCTCTGTGGCAGGAAACCAGATCACAAAAATGGACAGCACTTTATAATACCTCAAA
TGGCAGACAGCAGCCTGGATTTGTCTGAATTGGCAAAAGCTGCTAAGAAGAACTTCAATCTCTAAGTAATCATT
TGTTTGAAGAACTTGCCATGGATGTGTACGATGAAGTTGACAGGCGAGAGACGGATGCAGTCTGGCTTGCCACGC
AAAACCACAGCGCCCTGGTAACCGAGACAACGGTCGTCCCTTTCTTCCGGTCAATCCTGAGTACTCATCAACAC
GAAATCAGGGCAGACAGAAGTTAGCTCGGTTCAACGCCCATGAGTTTGCCACGCTGGTCATTGACATTCTCAGTG
ACGCCAAGAGGAGACAGCAGGGCAGTTCTCTCTCGGGTTCAAAAGACAATGTGGAGCTCATACTGAAAACCATCA
ATAACCAGCACAGCGTTGAGAGTCAAGACAACGATCAGCCCGACTATGACAGCGTGGCATCAGACGAAGACACAG
ATTTGGAAACCACTGCAAGCAAAACAACCGGCAGAAGAGCCTAGATTTCAGATTTATCAGATGGACCAGTCACTG
TACAGGAATTTATGGAGGTCAAAAACGCTCTAGTGGCTTCTGAGGCCAAGATACAGCAGCTAATGAAGGTGAATA
ACAATTGAGTGACGAGCTGAGAATTATGCAGAAAAAGCTTCAAACTCCAGAGTGAAAATTCGAACCTCAGGA
AACAGGCCACAACCAATGTATATCAGGTGCAAACTGGTTCTGAGTACACAGACACTTCCAACCACTCTTCCTTAA
AGAGACGTCCGTCTGCCCGGGGAGTAGGCCCATGTCCATGTACGAGACCGGATCAGGTGAGAAACCATATCTCC
CAATGGGAGAAGCGAGCCGCCCGAAGAGAGCAGGATGAGACTCCAGCCCTTCCCCGCGCACATCGGGAGGAGTG
CACTTGTTGACCTCTCTTCATCTCTGCCTTCCTTCCCCTCCACACTTTCCTGGTTCGAGGGACGAAAGCGCCCCGAA
GGGCATCCAGGCTGGAGAAGCAGAACAGCACACCTGAGAGTGACTACGACAACACTCCCAACGACATGGAGCCAG
ATGGCATGGGGTCAAGCCGAAAGGGACGGCAAGAAGTATGGTGTGGCCAGGGGATGGCTTGGTACCAGACACAG
CAGAACCCCATGTGGCCCCAAGCCCCACTCTCCCTAGCACCGAAGATGTCATCAGGAAGACTGAACAGATCACCA
AAAACATACAGGAGCTCTTAAGAGCAGCCCAAGAAAATAAACATGACAGTTATATTCCCTGCTCAGAGAGGATAC
ACGTAGCTGTTACAGAAAATGGCAGCATTATTCCCCAAAAAACCCAAAGTCTGATATGGTGAGGACTTCCCTTCGTT
TACTGACGTCCAGTGCCTACCGACTGCAGTCAGAGTGCAAGAAGACCCCTCCCAGGGGACCCCGGCTCACCCACAG
ACGTTTCAGCTGGTCACGCAGCAGGTCTCCAGTGTGCGTACGACATCGCCAAGGCTGCCAAGCAGCTGGTTACCA
TCACCACCAAAGAGAACAACAACTGACAAAGGGCAGGGCACCGCCTCCTCTGTTTTCTAGGCTTTATAAAGTCCAA
TTTCAAATTCAGACGCAGAACTCTTCAGATTTCTACAAAAAGAAACATTTAATGACGGTTTAAACTTTTTAAAA
GAAAACTCAGTATTATTTTGCATGTTTTCTAACCAATTTTCAACTATTTAACCACCTTGCCTTATTTTGTGCCT
ATTTGCTGGTTTAGTTTCTGATGTTTCGGTTGTGTTGTCAACAACCTGTTGAGTTGATCACATACATCCAAAAGTAT
AGTTTCATTGTCTAAAGTTTGTGAAAACTTTTCCATCCCTTAAAACTCCCTGCCTATGGCTGAAACTATAAATGA
AATTTTTCATAAAACATTTTCTTGAGAGAGTTCAGTTAAAAAAGAAAAAATCAGCGTCATTGTTCCCTGCCAAG
CATCGTGCAATAAGTGAATTTCTTGCCCTACTTCATAATCTCTAAGTTTGGGGTATCTCCAAGCATGTATGTAGA
GAAAGGACTTTGCCGCTTTTTTAAACTAGTGTACAGTCTCTCTTGGGAGGAAACAATGAATTGGTTCAATTTCTT
CTCAGTGTTTTACCCTGTTACATGTTCTGTTATTTAATGTTGTTATCTCAAGCTCCTATCTCTTGATGTTTTCTT
GTCATCTTGAAGGCTCCATGGAATGAGATAAAGCATTGACCCACCACAGGACATCTCATGAAGCCATGTTTCAGGG
TAGGAGCTCCACGCACATCACCAACCATTTGTCAGGTGCTCTCCCTCACCCCTGTAAGCCAGACAGTTTGTTCAAA
ACCTGCAGCAAAGAGAAGCATCAGTCTAACAAGCCAGAACTCATTTTGTGCCACCCATTTAGGTATCACTACCAT
GAACTATAGGGAAAAGAAATCACCTACTCCCTGACACTGTGTTGTACCCCTTCATCCAAAAGTCAGCTTGCTTCTC
TGACCACTTACAGCTTTCTCACATGAGTTGCTTCACATTTTTTCATCATCTTTAAGGACTTCTTATAAGGAAAGAT
GTATCGTATCGCAGTCATCTGAGTTAGTTTCTCCTCCATCACCTCATGAGTACTTAAAAATTAGACATCAACTTT
CAAGAGTTCCTTAGAGAGTGTGCTCTAGCTGGCTGCCTGCTACCCCAAAGCTCTGAAAGAGTAAGGTTGAAGTGC
TGGAACATGCTCAGATTGTTTTTTAGTTACTCAAAGCCCTTCTTGTCTGAATGTGAAAGCTCTTCCCGTTCC

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FIGURE 3790B

TGCTTACTGCAGCCATTCTGTGTGTGTGGTTCAGACCCCTGGCCTAGGGCCGGTGATGTGGATGAGTGAAGGGAGC
CAGGTACACGGCAGCAGGGCAGAGGAGACTATGGGGAGCCCACCGCCTACACAGTAGGGGCAGTAGCCCCCAGCT
CCACGCCTGTTGCCATGTGGAAGAGTGGGCCTAGGGTGGCCACAGCTTTGATTTTTCAAGAGACAAGAAACCTAG
ATGTTTTTTGGTGCCATCTCTCCATTTATAAATGTTGGCAACCAATTTGAACACTTTCAGAGACCATGTGCAGGT
GAGCTGTGTCTCTAGGCTGCCAGCTCACAGCCCCACCCAGGGCCCTGTAAGCTGTGCAGTGTGAGGGCCTGG
CTTCCCCGGACACACCTGGAGCAGCCTCTGAGTCTTACCCGTAATGGAGCCGGCCAACCCTGTGTGTTATGTTGC
TGTCGCTCCTGTTTTTAACCATATGTTCTGTCCCATAGCAGTCATTACACATGTGAAGAAGACACAAGAATCAA
AGTACAAGTTGCCTCAATACATGCTAATAACTAAGCTTCTATTTTCACAGGACTGATCGATGCACACCTTTATAG
CTTGACCATATGCTGTGCATGAAAGTAGCACCCCGACGGTGCTTGCTTTACTAAGTCACCGTGTGTGGATGCTTTT
GTCGCATTTTGCTTCACTGTGAGTAGCATGGGAAAAGGGTCCACGTCTCCAAAAGACTCTTCCACTTGTTTGTCC
CACAGCCCTAAGTGCCACATTGCTGTTGGATGCTCCCGGGATGCCTTCTAGAAGGGGGCCTCCACCTTAAGTTC
AGGCGCCATCTGATAGCCTTTTCTGCAGGCTTCATGTCTTAGCTGACCCTCCTTTATCTTGCAAACCCCTGCCC
CTGCTGTCCCAGGGAGGACGGGCTTCTGTAGAGGCTTCTGGGAAATGAGCTGTCTGCAGGAGGTGAAGCAGTGTT
TTCCTTGGAATGTTTGAGGACCTGCAATAGAAGATGTTGCCTTTATGGCCCTAGAGAAAGTCAAGGAACATGGGG
ACCAACAAAGCATTTCAGTTGTAAGAATATGTCAGAAAGAGTGCTCGGTTAGCCCACGGTGCCAAAACCTCAAAC
AAGTTCCCCGGTGGAATGACGTGGCCATTGGAGGGCTGCAGGTCGTCCTCTCTGTATGTGCCCCGCGCATTTCCT
TGGCCTCATCTGAGATCTGGTGTGAGAGTTCTCTGCTCCTGTTGGCAAATCGCACCTTATCTGAACATTTGTTCC
AGCCACCTTTTGCACATGGATTCCGTACCTTGCACTAGCAATGTCTACCTTCAGTAACGTCGTTCTTTTACCCC
TGTAATTCTCAATGATCCCTTCCCTCCCCATATGCCACCCCTTCCCCCAAAGCTGATAGGGCAGAGGTGCACTTTATG
AAACTGGCACTTGACTGAACAGAAGGAAACAGCTGTACCTCTAAGCTCCTTTTCACAGAAATCGTCATCTGCCTTG
GAATGCAAAATAGTTCTTATTTGCCAAAGAACAGTGAATTGGGCCCAAAGATCAAACACAGCATTTCATGTAATCA
GAATTCTAAACGCACAACCTCGGGAGCTGTGCACGGCTTCTCAAGTGATTTCAGTTGCAGAACCAAGAGCAAAACTC
GCCTGTTTTTGTCTCAATGGCACCCATGAGCTTTCCAATAGTATAGTTTTCTTTCTTTCTTTGTCCTGGTTGAA
GGTAACGTGTTCTAGAAAAGAAAATGCTGCATAGGAAAACCTGAGATGCCTTTTATTCCAACGTGTTTGATCCCT
GTCACCTATTATTCTGTACTTTTTATTGTACATTCTATTCCTGTAATTATTGTGCCCTTTAAGTGTTGTAAAATC
GTTTTGGAATTTGTGCCTGCTAGTTATGCAATAAACAGGCTCTACAAGTG

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FIGURE 3791

MSKRLRSSEVCADCSGPDPSWASVNRGTFLCDECCSVHRSLGRHISQVRHLKHTPWPPPTLLQM VETLYNNGANSI
WEHSLLDPASIMSGRRKANPQDKVHPNKAFFIRAKYQMLAFVHRLPCRDDDSVTAKDLSKQLHSSVRTGNLETCL
RLLSLGAQANFFHPEKGNTPLHVASKAGQILQAELLAVYGADPGTQDSSGKTPVDYARQGGHHELAERLVEIQYE
LTDRLAFYLCGRKPDHKNQHFIIIPQADSSLDLSELAKAAKKKLQSLSNHLFEELAMDVYDEVDRRETDVWLA
TQNHSAVLTETTVVPFLPVNPEYSSTRNQGRQKLARFNAHEFATLVIDILSDAKRRQQGSSLSGSKDNVELILKT
INNQHSVESQDNDQPDYDSVASDEDTDLETTASKTNRQKSLSDSLSDGPVTVQEFMEVKNALVASEAKIQQLMKV
NNNLSDEL RIMQKKLQTLQSENSNLRKQATTNVYQVQTGSEYTDTSNHSSLKRRPSARGSRPMSMYETGSGQKPY
LPMGEASRPEESRMRLQPFPAHIGRSALVTSSSSLP SFPSTLSWSRDESARRASRLEKQNSTPESDYDNTPNDE
PDGMGSSRKGRQRSMVWPGDGLVPDTAEPHVAPSPTLPSTEDVIRKTEQITKNIQELLRAAQENKHDSYIPCSE
IHVAVTEMAALFPKKPKSDMVRTSLRLLTSSAYRLQSECKKTLPGDPGSPTDVQLVTQQVIQCAYDIAKAAKQLV
TITTKENNN

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FIGURE 3792A

GAAGCGCCGCCGCCACCGCCGCCTTTGCTGTCCCCCGGCCTCTAGTTCCCCGCAGGTGGGAGGTGGGAGCC**ATGT**
CGAAACGGCTCCGGAGCAGCGAGGTGTGCGCTGACTGCAGCGGGCCGGATCCTTCCTGGGCATCAGTAAATAGGG
GAACGTTTTTATGTGATGAGTGTCTGCAGTGTCCATCGGAGTCTAGGGCGCCATATCTCCCAAGTGAGGCATCTGA
AACACACACCGTGGCCTCCAACACTGCTTCAGATGGTTGAGACCTTGTATAATAACGGTGCTAACTCTATATGGG
AGCATTCTTTGCTGGACCCTGCGTCTATTATGAGTGGAAAGACGTAAAGCTAATCCACAGGATAAAGTACATCCCA
ATAAAGCGGAATTCATCAGAGCCAAGTATCAGATGTTAGCGTTCGTCCATCGCTTGCCCTGCCGGATGACGATA
GTGTGACTGCCAAAGATCTTAGCAAGCAACTCCATTTCGAGCGTGAGAACAGGGAATCTTGAAACCTGTTTGAGAC
TGTTATCTTTAGGAGCACAAAGCCAACCTCTTTTCATCCTGAAAAAGGAAACACCCCACTCCATGTTGCCCTCCAAAG
CAGGGCAGATTTTACAGGCTGAATTATTGGCAGTATATGGAGCAGACCCAGGCACACAGGATTCTAGTGGGAAAA
CTCCCGTTGATTATGCAAGGCAAGGAGGGCACCATGAGCTGGCAGAGCGCCTCGTGGAATAACAGTATGAGCTAA
CGGACAGACTAGCCTTCTATCTCTGTGGCAGGAAACCAGATCACAAAATGGACAGCACTTTATAATACCTCAAA
TGGCAGACAGCAGCCTGGATTTGTCTGAATTGGCAAAAGCTGCTAAGAAGAAACTTCAATCTCTAAGTAATCATT
TGTTTGAAAGAACTTGCCATGGATGTGTACGATGAAGTTGACAGGCGAGAGACGGATGCAGTCTGGCTTGCCACGC
AAAACCACAGCGCCCTGGTAACCGAGACAACGGTCGTCCCTTTCTTCCGGTCAATCCTGAGTACTCATCAACAC
GAAATCAGGGCAGACAGAAGTTAGCTCGGTTCAACGCCCATGAGTTTGCCACGCTGGTCATTGACATTCTCAGTG
ACGCCAAGAGGAGACAGCAGGGCAGTTCTCTCTCGGGTTCAAAAGACAATGTGGAGCTCATACTGAAAACCATCA
ATAACCAGCACAGCGTTGAGAGTCAAGACAACGATCAGCCCGACTATGACAGCGTGGCATCAGACGAAGACACAG
ATTTGGAACCACTGCAAGCAAAACAAACCGGCAGAAGCTTCAAACTCCAGAGTGAAAATTGCAACCTCAGGA
AACAGGCCACAACCAATGTATATCAGGTGCAAACTGGTTCTGAGTACACAGACACTTCCAACCACTCTTCCTTAA
AGAGACGTCCGTCTGCCCCGGGGCAGTAGGCCCATGTCCATGTACGAGACCGGATCAGGTGAGAAACCATATCTCC
CAATGGGAGAAGCGAGCCGCCCGAAGAGAGCAGGATGAGACTCCAGCCCTTCCCCGCGCACGCATCCAGGCTGG
AGAAGCAGAACAGCACACCTGAGAGTGAAGTACGACAACACTCCCAACGACATGGAGCCAGATGGCATGGGGTCAA
GCCGAAAGGGACGGCAAGAAGTATGGTGTGGCCAGGGGATGGCTTGGTACCAGACACAGCAGAACCCCATGTGG
CCCCAAGCCCCACTCTCCCTAGCACCGAAGATGTCATCAGGAAGACTGAACAGATCACCAAAAACATACAGGAGC
TCTTAAGAGCAGCCCAAGAAAATAAACATGACAGTTATATTCCCTGCTCAGAGAGGATACACGTAGCTGTTACAG
AAATGGCAGCATTATTCCCCAAAAAACCAGTCTGATATGGTGAGGACTTCCCTTCGTTTACTGACGTCCAGTG
CCTACCGACTGCAGTCAGAGTGCAAGAAGACCCTCCAGGGGACCCCGGCTCACCCACAGACGTTTACGTGGTCA
CGCAGCAGGTTCAGTGTGCGTACGACATCGCCAAGGCTGCCAAGCAGCTGGTTACCATCACCAACAAAGAGA
ACAACA**CTGACA**AGGGCAGGGCACCGCCTCCTCTGTTTTCTAGGCTTTATAAAGTCCAATTTCAAATTCAGACG
CAGA**ACTCTT**CAGATTTCTACAAAAAGAAACATTTAATGACGGTTTAA**AACTTTTT**AAAAGAAA**ACTCAGTATTA**
TTTTTGATGTTTTCTAACCAATTTTCACTATTTAACCCACTTGCC**TATTTT**TGTCCTATTTGCTGGTTTAGT
TTCTGATGTTTCGGTTGTGTTGTCAACA**ACTGTTGAGTTGATC**ACATACATCCAAAAGTATAGTTT**CATTGTCTAA**
AGTTTGTGAA**ACTTTTT**CCATCCCTTAA**AACTCCCTG**CCTATGGCTGAA**ACTATA**AAATGAAATTTTT**CATAAAAC**
ATTTTCTTGAGAGAGTT**CAGTTAAAAA**AGAAAAATCAGCGTCATTTGTTCCCTGCCAAGCATCGTGCAATAAGT
GAATTTCCCTGGCCTACTTCATAATCTCTAAGTTTGGGGTATCTCCAAGCATGTATGTAGAGAAAGGACTTTGCCG
CTTTTAA**AACTAGTGT**CACAGTCTCTCTTGGGAGGAAACAATGAATTGGTT**CATTTCTT**CTCAGTGTTTTACCC
TGTTACATGTTCTGTTATTTAATGTTGTTATCTCAAGCTCCTATCTCTTGATGTTTTCTTGTCATCTTGAAAGGCT
CCATGGAATGAGATAAAGCATTGACCCACCACAGGACATCTCATGAAGCCATGTT**CAGGGTAGGAGCTCC**ACGCA
CATCACCA**CCATTGT**CAGGTGCTCTCCCTCACCCCTGTAAGCCAGACAGTTTGTTCAAA**ACCTGCAGCA**AAAGAG
AAGCATCAGTCTAA**CAAGCCAGA**ACTCATT**TTGTGCC**ACCCATTTAGGTATCACTACCATGA**ACTATAGG**AAAAA
GAAATCACCTACTCCCTGACACTGTGTTGTACCC**TT**CATCCAAAAGTCAGCTTGCTTCTCTGACCACTTACAGCT
TTCTCAGATGAGTTGCTTCACATTTTTCATCATCTTTAAGGACTTCTTATAAGGAAAGATGTATCGTATCGCAGT
CATCTGAGTTAGTTCTCCTCCATCACCTCATGAGTACTTAA**AAAT**TAGACATCA**ACTTTCA**AGAGTTCCCTTAGA
GAGTGTGCTCTAGCTGGCTGCCTGCTACCCCAAAGCTCTGAAAGAGTAAGGTTGAAGTGCTGGAACATGCTCAGA
TTGTTTTTTTAGTTACTCAAAGCC**CTTCTT**GTCTGAATGTGAAAGCTCTTCCCGTTCCCTGCTTACTGCAGCCA
TTCTGTGTGTGTGGTT**CAGACC**CTGGCCTAGGGCCGGTGATGTGGATGAGTGAAGGGAGCCAGGTACACGGCAGC
AGGGCAGAGGAGACTATGGGGAGCCACCGCCTACACAGTAGGGGCAGTAGCCCCAGCTCCACGCCTGTTGCCA
TGTGAAAAGTGGGCCTAGGGTGGCCACAGCTTTGATTTTTCAAGAGACAAGAAACCTAGATGTTTTTTGGTGCC

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FIGURE 3792B

ATCTCTCCATTTATAAATGTTGGCAACCAATTTGAACACTTTCAGAGACCATGTGCAGGTGAGCTGTGTCCTCTA
GGCTGCCAGCTCACAGCCCCACCCAGGGCCCTGTAAGCTGTGCAGTGTGAGGGCCTGGCTTCCCCGGACACAC
CTGGAGCAGCCTCTGAGTCTTACCCGTAATGGAGCCGGCCAACCTGTGTGTTATGTTGCTGTGCTCCTGTTTT
TAACCATATGTTCTGTCCCATAGCAGTCATTACACATGTGAAGAAGACACAAGAATCAAAGTACAAGTTGCCTC
AATACATGCTAATAACTAAGCTTCTATTTTACAGGACTGATCGATGCACACCTTTATAGCTTGACCATATGCTG
TCATGAAAGTAGCACCCCGACGGTGCTTGCTTTACTAAGTCACCGTGTGTGGATGCTTTTGTGCGATTTTGTCTT
ACTGTGAGTAGCATGGGAAAAGGGTCCACGTCTCCAAAAGACTCTTCCACTTGTTTGTCCACAGCCCTAAGTGC
CACATTGCTGTTGGATGCTCCCGGATGCCTTCTAGAAGGGGGCCTCCACCTTAAGTTCAGGCGCCATCTGATA
GCCTTTTCTGCAGGCTTCATGTCCTTAGCTGACCCTCCTTTATCTTGCAAACCCCTGCCCTGCTGTCCCAGGGA
GGACGGGCTTCTGTAGAGGCTTCTGGGAAATGAGCTGTCTGCAGGAGGTGAAGCAGTGTTTTCTTGGAATGTTT
GAGGACCTGCAATAGAAGATGTTGCCTTATGGCCCTAGAGAAAGTCAAGGAACATGGGGACCAACAAAGCATT
CCAGTTGTAAGAATATGTCAGAAGAGTGCTCGGTTAGCCACGGTGCCAAAACCTCCAAACAAGTTCCCCGGTGGA
ATGACGTGGCCATTGGAGGGCTGCAGGTCGTCTCTGTATGTGCCCCGCGCATTTCTTGCCCTCATCTGAGA
TCTGGTGTGAGAGTTCTCTGCTCCTGTTGGCAAATCGCACCTTATCTGAACATTTGTTCCAGCCACCTTTGCAC
ATGGATTCCGTACCTTGCACCTAGCAATGCTACCTTACGTAACGTCGTTCTTTTCCACCTGTATTCTCAATGAT
CCCTTCCTCCCATATGCCACCTTCCCCCAAAGCTGATAGGGCAGAGGTGCACCTTATGAACTGGCACTTGAC
TGAACAGAAGGAAACAGCTGTACCTCTAAGCTCCTTTACAGAAATCGTCATCTGCCTTGAATGCAAATAGTTC
TTATTTGCCAAAGAACAGTGAATTGGGCCCAAAGATCAAACACAGCATTTCATGTAATCAGAATTCTAAACGCAC
AACTCGGGAGCTGTGCACGGCTTCTCAAGTGATTAGTTGCAGAACCAAGAGCAAACTCGCCTGTTTTTGTCTT
CAATGGCACCCATGAGCTTTCCAATAGTATAGTTTTCTTTCTTTCTTCTGCTGCTGGTTGAAGGTAACGTGTTCTA
GAAAAGAAAATGCTGCATAGGAAAACAGATGCCTTTTATTCCAACGTGTTGATCCCTGTCACTCATTATTCT
GTACTTTTTATTGTACATTCTATTCCGTGAATTATTGTGCCCTTTAAGTGTTGTAAAATCGTTTTGGAATTTGTG
CCTGCTAGTTATGCAATAAACAGGCTCTACAAGTG

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FIGURE 3793

MSKRLRSSEVCADCSGPDPSWASVNRGTFLCDECCSVHRSLGRHISQVRHLKHTPWPTLLQMVETLYNNGANSI
WEHSLLDPASIMSGRRKANPQDKVHPNKAEFIRAKYQMLAFVHRLPCRDDDSVTAKDLSKQLHSSVRTGNLETCL
RLLSLGAQANFFHPEKGNTPLVHASKAGQILQAELLAVYGADPGTQDSSGKTPVDYARQGGHHELAERLVEIQYE
LTDRLAFYLCGRKPDHKNQHFIIIPQMADSSLDLSELAKAAKKKLQSLSNHLFEELAMDVYDEVDRRETDVWLA
TONHSALVTETTVPFLPVNPEYSSTRNQGRQKLARFNAHEFATLVIDILSDAKRRQQGSSLSGSKDNVELILKT
INNQHSVESQDNDQPDYDSVASDEDTDLETTASKTNRQKLQTLQSENSNLRKQATTNVYQVQTGSEYTDTSNHSS
LKRRPSARGSRPMSMYETGSGQKPYLPMGEASRPEESRMRLQPFPAHASRLEKQNSTPESDYDNTPNDEPDGMG
SSRKGRQSRMVWPGDGLVPDTAEPHVAPSPTLPSTEDVIRKTEQITKNIQELLRAAQENKHDSYIPCSERIHVAV
TEMAALFPKKPKSDMVRTSLRLLTSSAYRLQSECKKTLPGDPGSPTDVQLVTQQVIQCAVDIAKAAKQLVTITTK
ENNN

FIGURE 3794

GGCACGAGGGTTGCTTTTATACTCAGAATGGAATAACCTGATCTTGGCTAGTTTGTGTTATAAGATATTGATTCTTA
TTTAGATTTCCTCCACGAGGTCAGCAAACATATCATGTTCTTATGTAACTTAGGCCAAGGCCAGAGTTATCATA
GTCCCTAGGTTGCTACGGCTTATCATGCTGCTTGGTAAAAGGTGATCGCAGGTTCTCAGACGAGTTTACTTTACAT
GAGATGGAATCAGGCAGAGAGGCTGGGATGATGGAGAAAAGCTCGAGGTGAAGTTTTAAAAAAAAGTTGTGGAAA
GGAAAGTTCCAAAGAGGTGGTTTTCTGAGGAAGTCAGAGCGCCCAAGGCCAGAGCAGTCAGTAATGGGTGAATGAG
GTTGTTTGGAAAGTCGGTGTGACAGACACATGGATGCCATCTACTTCTAGGTTGCTGGTGGGTATTAAATATGCA
CAATATTCCATAGCTCACTGAGGATTTTAAAAATTATAAGCATAGGATTTTATATTTTGGGGTGAAAGAATTATCT
GGCACATTAGGTATTGGAGTTTAAAAAAAAGCCAAATTTACACAGTCTTAATAACTTTTTTTAAAAAAAACATAA
AGGCGCTTCATGTCCAGTGTGTGGCCCTTCTGAAACTTATGGTCATCTCTCCCACTGAAACCAAGGTCTTTTCAA
ATGTGGCTAAATGGGGATGAGGAGACACGGGTAGGACTTTCTTGGTGTGTGTGCATTCTTTAAAGAGCCAAGTTG
CTTCGGGGGAAACAGCCAGGAAAAATGGTCAAGATTATTTTTAGAGGTTATTTTTATTGGGGATTTTAAGAACTAATA
ACATCTTGAGTTATTTTTTAATTCAGGGGGATGTGGAAAAGGTTTGCAATTGTCAAGTGTTTTGTGTAGCTTAGTA
TCCATAAGGGGAAACTTAGACTATAGACATAACTACAAAGCCAGTGCAGCTTTTGTTTTCTGTATGTTGTTGGGGG
ATCAACTTTACACATAGCAAGCACATGGCCTCCCTGATGTCAGGATGCCTTTGTTAGGATCTGTATTTGCCCTT
AATTTTGTGAAATCTTTTTTCTTCTTCTTCTTGAAGTTCCAAAATATAGTTTATTGTATCTTTCATCACTA
AAAATTTGTTCTTTTTTCACTATGGGCAGTTCACACAAGGCCAAAACATTTGAACAGTTGGTTTTAGTGTGTTGT
ATAACTTTGCTGTATATCAAACATAATTTTGACAAGTTTTTCATCCTAAGCCTCAAATCATGTAATTAATAATTTGC
CTGTTTATTTATGACCTAATTGTGATTCTTTTATTAATAAAAGCTAATGGGAAAAGGATCCCTGATTAAGCTGAT
GACTAGACCTACAATTAATTTTCTTGCAGTATATGAAGTATTGTACCAGAGTATTAAAAGATATGTAATATTTTA
TTGATAAATCTATCCTTTAAAAGGAATACGTTTTAGGATGTCATCATTTTGATGTGAATCATGTAAATGTTGATA
ATATGCTGTTTATTATACATTTAGTGTTCGAAGAGATTCACCTAATTGCCTTTTTTGCCACGTATATTATGTAGT
CTATTTGCAACTGTTCTTAAAAAAATGACATTAAAAAGAATAGTTTATGTAGAGAAACATTAGTGGATGTTAATTG
TCTCCCCACCTATATTTATGGGTGTTAGCGCAACTGCTTTGCTAGTTGCAAAGCTGTATTATCAGAGTAAAAGTG
TATTTGTAAACTGTATGGGAACTAAAAATTAGGAATAAAACCATTTTCTTATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3795

MCLVKGDRRFSDEFTLHEMESGREAGMMEKARGEVLKKKLWKGKFQGGF

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FIGURE 3796A

GCCCTGCTTCCCCTTGACCTGCGCCGGGCGGCCATGGACTTGTACAGCACCCCGGCCGCTGCGCTGGACAGGTT
CGTGCCAGAAGGCTGCAGCCGCGGAAGGAGTTTCGTAGAGAAGGCGCGCGCTCTGGGCGCCCTGGCCGCTGC
CCTGAGGGAGCGCGGGGGCCGCTCGGTGCTGCTGCCCCGCGGGTGTGAAAACTGTCAAGGGAGGCTCCTCGGG
CCGGGGCACAGCTCTCAAGGGTGGCTGTGATTCTGAACTTGTTCATCTTCTCGACTGCTTCAAGAGCTATGTGGA
CCAGAGGGCCCCGCGTGCAGAGATCCTCAGTGAGATGCGGGCATCGCTGGAATCCTGGTGGCAGAACCCAGTCCC
TGGTCTGAGACTCACGTTTCTGAGCAGAGCGTGCCTGGGGCCCTGCAGTTCCGCCTGACATCCGTAGATCTTGA
GGACTGGATGGATGTTAGCCTGGTGCCTGCCTTCAATGTCTGGGTGAGGCCGGCTCCGGCGTCAAACCCAAAGCC
ACAAGTCTACTCTACCCTCCTCAACAGTGGCTGCCAAGGGGGCGAGCATGCGGCCTGCTTCACAGAGCTGCGGAG
GAACTTTGTGAACATTCGCCCAGCCAAGTTGAAGAACCTAATCTTGCTGGTGAAGCACTGGTACCACCAGGTGTG
CCTACAGGGGTTGTGGAAGGAGACGCTGCCCCCGGTCTATGCCCTGGAATTGCTGACCATCTTCGCCTGGGAGCA
GGGCTGTAAGAAGGATGCTTTCAGCCTAGCCGAAGGCCTCCGAACCTGCTGCGCCTGATCCAACAGCATCAGCA
CCTGTGTGTTTTCTGGACTGTCAACTATGGCTTCGAGGACCCTGCAGTTGGGCAGTTCTTGACGCGGCAGCTTAA
GAGACCCAGGCCTGTGATCCTGGACCCAGCTGACCCACATGGGACCTGGGGAATGGGGCAGCCTGGCACTGGGA
TTTGCTAGCCCAGGAGGCAGCATCCTGCTATGACCACCCATGCTTTCTGAGGGGGATGGGGGACCCAGTGCAGTC
TTGGAAGGGGCGGGCCTTCCACGTGCTGGATGCTCAGGTTTGGGCCACCCATCCAGCTAGACCCTAACAGAA
GACCCCTGAAACAGCAAGAGCCTCAATGCTGTGTACCCAAGAGCAGGGAGCAAACCTCCCTCATGCCCAGCTCC
TGGCCCCACTGGGGCAGCCAGCATCGTCCCCCTCTGTGCCGGAATGGCCTTGACCTGTCTCAGATCCCCACAA
GGAGCTGGACCGCTTCATCCAGGACCACCTGAAGCCGAGCCCCAGTTCCAGGAGCAGGTGAAAAAGGCCATTGA
CATCATCTTGCGCTGCCTCCATGAGAACTGTGTTTACAAGGCCTCAAGAGTCAGTAAAGGGGGCTCATTGTGGCCG
GGGCACAGACCTAAGGGATGGCTGTGATGTTGAACCTCATCATCTTCTCAACTGCTTCACGGACTACAAGGACCA
GGGGCCCCGCGCGCAGAGATCCTTGATGAGATGCGAGCGCAGCTAGAATCCTGGTGGCAGGACCAGGTGCCAG
CCTGAGCCTTCAGTTTCTGAGCAGAATGTGCCTGAGGCTCTGCAGTTCCAGCTGGTGTCCACAGCCCTGAAGAG
CTGGACGGATGTTAGCCTGCTGCCTGCCTTCGATGCTGTGGGGCAGCTCAGTTCTGGCACCAAACCAAATCCCCA
GGTCTACTCGAGGCTCCTCACCAGTGGCTGCCAGGAGGGCGAGCATAAGGCCTGCTTCGCAGAGCTGCGGAGGAA
CTTCATGAACATTGCCCCGTGCAAGCTGAAGAACCTGATTCTGCTGGTGAAGCACTGGTACCGCCAGGTTGCGGC
TCAGAACAAAGGAAAAGGACCAGCCCCCTGCCTCTCTGCCCCAGCCTATGCCCTGGAGCTCCTCACCATCTTTGC
CTGGGAGCAGGGCTGCAGGCAGGATTGTTTCAACATGGCCCAAGGCTTCCGGACGGTGTGGGGCTCGTGCAACA
GCATCAGCAGCTCTGTGTCTACTGGACGGTCAACTATAGCACTGAGGACCCAGCCATGAGAATGCACCTTCTTGG
CCAGCTTCGAAAACCCAGACCCCTGGTCTTGACCCCGCTGATCCACCTGGAACGTGGGCCACGGTAGCTGGGA
GCTGTTGGCCCAGGAAGCAGCAGCGCTGGGGATGCAGGCCTGCTTTCTGAGTAGAGACGGGACATCTGTGCAGCC
CTGGGATGTGATGCCAGCCCTCCTTTACCAAACCCAGCTGGGGACCTTGACAAGTTTCATCAGTGAATTTCTCCA
GCCCAACCGCCAGTTCTTGCCCCAGGTGAACAAGGCCGTTGATACCATCTGTTTCAATTTTGAAGGAAAACCTGCTT
CCGGAATTCTCCCATCAAAGTGATCAAGGTGGTCAAGGTGGCTCTTCAGCCAAAGGCACAGCTCTGCGAGGCCG
CTCAGATGCCGACCTCGTGGTGTTCCTCAGCTGCTTCAGCCAGTTCACTGAGCAGGGCAACAAGCGGGCCGAGAT
CATCTCCGAGATCCGAGCCCAGCTGGAGGCATGTCAACAGGAGCGGCAGTTTCAGGTCAAGTTTGAAGTCTCCAA
ATGGGAGAATCCCCGCGTGCTGAGCTTCTCACTGACATCCCAGACGATGCTGGACCAGAGTGTGGACTTTGATGT
GCTGCCAGCCTTTGACGCCCTAGGCCAGCTGGTCTCTGGCTCCAGGCCAGCTCTCAAGTCTACGTGACCTCAT
CCACAGCTACAGCAATGCGGGCGAGTACTCCACCTGCTTCACAGAGCTACAACGGGACTTCATCATCTCTCGCCC
TACCAAGCTGAAGAGCCTGATCCGGCTGGTGAAGCACTGGTACCAGCAGTGTACCAAGATCTCCAAGGGGAGAGG
CTCCCTACCCCCACAGCACGGGCTGGAACCTCTGACTGTGTATGCCTGGGAGCAGGGCGGGAAGGACTCCCAGTT
CAACATGGCTGAGGGCTTCCGCACGGTCTTGAGCTGGTCAACCCAGTACCGCCAGCTCTGTATCTACTGGACCAT
CAACTACAACGCCAAGGACAAGACTGTTGGAGACTTCTGAAACAGCAGCTTCAGAAGCCCAGGCCTATCATCCT
GGATCCGGCTGACCCGACAGGCAACCTGGGCCACAATGCCCGCTGGGACCTGCTGGCCAAGGAAGCTGCAGCCTG
CACATCTGCCCTGTGCTGCATGGGACGGAATGGCATCCCCATCCAGCCATGGCCAGTGAAGGCTGCTGTGTGAAG
TTGAGAAAATCAGCGGTCTACTGGATGAAGAGAAGATGGACACCAGCCCTCAGCATGAGGAAATTCAGGGTCCC
CTACCAGATGAGAGAGATTGTGTACATGTGTGTGTGAGCACATGTGTGCATGTGTGTGCACACGTGTGCATGTGT
GTGTTTTAGTGAATCTGCTCTCCAGCTCACACACTCCCTGCCTCCCATGGCTTACACACTAGGATCCAGACTC
CATGTTTTGACACCAGCCTGCGTTTGAGCTTCTCTGTCACTTCCATGACTCTATCCTCATACCACCACTGCTGC

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FIGURE 3796B

TTCCCACCCAGCTGAGAATGCCCCCTCCTCCCTGACTCCTCTCTGCCCATGCAAATTAGCTCACATCTTTCCTCC
TGCTGCAATCCATCCCTTCTCCCATTTGGCCTCTCCTTGCCAAATCTAAATAGTTTATATAGGGATGGCAGAGAG
TTCCCATCTCATCTGTCTAGCCACAGTCATTTGGTACTGGCTACCTGGAGCCTTATCTTCTGAAGGGTTTTAAAGA
ATGGCCAATTAGCTGAGAAGAATTATCTAATCAATTAGTGATGTCTGCCATGGATGCAGTAGAGGAAAGTGGTGG
TACAAGTGCCATGATTGATTAGCAATGTCTGCACTGGATACGGAAAAAGAAGGTGCTTGCAGGTTTACAGTGTA
TATGTGGGCTATTGAAGAGCCCTCTGAGCTCGGTTGCTAGCAGGAGAGCATGCCCATATTGGCTTACTTTGTCTG
CCACAGACACAGACAGAGGGAGTTGGGACATGCATGCTATGGGGACCCTCTTGTGGACACCTAATTGGATGCCT
CTTCATGAGAGGCCTCCTTTTCTTCACCTTTTATGCTGCACTCCTCCCTAGTTTACACATCTTGATGCTGTGGC
TCAGTTTGCCTTCTGAATTTTTATTGGGTCCCTGTTTTCTCTCTCTAACATGCTGAGATTCTGCATCCCCACAGC
CTAAACTGAGCCAGTGGCCAAACAACCGTGCTCAGCCTGTTTTCTCTCTGCCCTCTAGAGCAAGGCCACCAGGTC
CATCCAGGAGGCTCTCCTGACCTCAAGTCCAACAACAGTGTCACACTAGTCAAGGTTTACGCCAGAAAACAGAA
AGCACTCTAGGAATCTTAGGCAGAAAGGGATTTTATCTAAATCACTGGAAAGGCTGGAGGAGCAGAAGGCAGAGG
CCACCACTGGACTATTGGTTTCAATATTAGACCACTGTAGCCGAATCAGAGGCCAGAGAGCAGCCACTGCTACTG
CTAATGCCACCACTACCCCTGCCATCACTGCCCCACATGGACAAAACCTGGAGTCGAGACCTAGGTTAGATTCTCTG
CAACCACAAACATCCATCAGGGATGGCCAGCTGCCAGAGCTGCGGGAAGACGGATCCCACTCCCTTTCTTAGCA
GAATCTAAATTACAGCCAGACCTCTGGCTGCAGAGGAGTCTGAGACATGTATGATTGAATGGGTGCCAAGTGCCA
GGGGGCGGAGTCCCCAGCAGATGCATCCTGGCCATCTGTTGCGTGGATGAGGGAGTGGGTCTATCTCAGAGGAAG
GAACAGGAAACAAAGAAAGGAAGCCACTGAACATCCCTTCTCTGCTCCACAGGAGTGCTTAGACAGCCTGACTC
TCCACAAACCACTGTTAAAACTTACCTGCTAGGAATGCTAGATTGAATGGGATGGGAAGAGCCTTCCCTCATTAT
TGTCATTCTTGGAGAGAGGTGAGCAACCAAGGGAAGCTCCTCTGATTACCTAGAACCTGTTCTCTGCCGTCTTT
GGCTCAGCCTACAGAGACTAGAGTAGGTGAAGGGACAGAGGACAGGGCTTCTAATACCTGTGCCATATTGACAGC
CTCCATCCCTGTCCCCATCTTGGTGCTGAACCAACGCTAAGGGCACCTTCTTAGACTCACCTCATCGATACTGC
CTGGTAATCCAAAGCTAGAACTCTCAGGACCCCAAACCTCCACCTCTTGGATTGGCCCTGGCTGCTGCCACACACA
TATCCAAGAGCTCAGGGCCAGTTCTGGTGGGCAGCAGAGACCTGCTCTGCCAAGTTGTCCAGCAGCAGAGTGCC
CTGGCCTGGGCATCACAAGCCAGTGATGCTCCTGGGAAGACCAGGTGGCAGGTGCGAGTTGGGTACCTTCCATT
CCACCACACAGACTCTGGGCCTCCCCGCAAAATGGCTCCAGAATTAGAGTAATTATGAGATGGTGGGAACCAGAG
CAACTCAGGTGCATGATACAAGGAGAGGTTGTCTCTGGGTAGGGCAGAGAGGAGGGCTTGCTCATCTGAACAGG
GGTGTATTTTATTCCAGGCCCTCAGTCTTTGGCAATGGCCACCCTGGTGTGGCATATTGGCCCCACTGTAACTT
TTGGGGGCTTCCCGGTCTAGCCACACCCTCGGATGGAAAGACTTGACTGCATAAAGATGTCAGTTCTCCCTGAGT
TGATTGATAGGCTTAATGGTCAACCCTAAAAACACCCACATATGCTTTTTCGATGGAACCAGGTAAGTTGACGCTAA
AGTTCTTATGAAAAATACACACGCAATAGCTAGGAAAACACAGGGAAAAGAAGAGTTCTGAGCAGGGCCTAGTCT
TAGCCAATATTAAACATACTATGAAGCCTCTGATACTTAAACAGCATGGCGCTGGTACGTAAATAGACCAATGC
AGTTAGGTGGCTCTTTCCAAGACTCTGGGGAAAAAAGTAGTAAAAAGCTAAATGCAATCAATCAGCAATTGAAAG
CTAAGTGAGAGAGCCAGAGGGCCTCCTTGGTGGTAAAAGAGGGTTGCATTTCTTGCAGCCAGAAGGCAGAGAAAG
TGAAGACCAAGTCCAGAAGTGAATCCTAAGAAATGCAGGACTGCAAAGAAATTGGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTTAATTTTTAAAAAGTTTTTATT

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FIGURE 3797

CGGCAGCCAGCTGAGAGCAATGGGAAATGGGGAGTCCCAGCTGTCCTCGGTGCCTGCTCAGAAGCTGGGTTGGTT
TATCCAGGAATACCTGAAGCCCTACGAAGAATGTCAGACACTGATCGACGAGATGGTGAACACCATCTGTGACGT
CCTGCAGGAACCCGAACAGTTCCCCCTGGTGCAGGGAGTGGCCATAGGTGGCTCCTATGGACGGAAAACAGTCTT
AAGAGGCAACTCCGATGGTACCCTTGTCTCTTCTTCAGTGACTTAAACAATTCCAGGATCAGAAGAGAAGCCA
ACGTGACATCCTCGATAAAACTGGGGATAAGCTGAAGTTCTGTCTGTTACGAAGTGGTTGAAAAACAATTTCTGA
GATCCAGAAGTCCCTTGATGGGTTACCATCCAGGTGTTACAAAAAATCAGAGAATCTCTTTCGAGGTGCTGGC
CGCCTTCAACGCTCTGAGCTTAAATGATAATCCCAGCCCCCTGGATCTATCGAGAGCTCAAAAGATCCTTGGATAA
GACAAATGCCAGTCTGGTGAGTTTGAGTCTGCTTCACTGAAGTCCAGCAGAAGTTTTTGGACAACCGTCTGG
AAAACTAAAGGATTTGATCCTCTTGATAAAGCACTGGCATCAACAGTGCCAGAAAAAATCAAGGATTTACCTCT
GCTGTCTCCGTATGCCCTGGAGCTGCTTACGGTGTATGCCTGGGAACAGGGGTGCAGAAAAGACAACCTTGACAT
TGCTGAAGGCGTCAGAACCGTACTGGAGCTGATCAAATGCCAGGAGAAGCTGTGTATCTATTGGATGGTCAACTA
CAACTTTGAAGATGAGACCATCAGGAACATCCTGCTGCACAGCTCCAATCAGCGAGGCCAGTAATCTTGGATCC
AGTTGACCCAACCAATAATGTGAGTGGAGATAAAATATGCTGGCAATGGCTGAAAAAAGAGCTCAAACCTGGTT
GACTTCTCCCAACCTGGATAATGAGTTACCTGCACCATCTTGAATGTTCTGCCTGCACCACTCTTCACGACCCC
AGGCCACCTTCTGGATAAGTTTCATCAAGGAGTTTCTCCAGCCCCAACAAATGCTTCCTAGAGGAGATTGACAGTGC
TGTTAACATCATCCGTACATTCCCTAAAGAAAACCTGCTTCCGACAATCAACAGCCAAGATCCAGATTGTCCGGGG
AGGATCAACCGCCAAAGGCACAGCTCTGAAGACTGGCTCTGATGCCGATCTCGTCTGTGTTCCATAACTCACTTAA
AAGCTACACCTCCCAAAAAACGAGCGGCACAAAATCGTCAAGGAAATCCATGAACAGCTGAAAGCCTTTTGGAG
GGAGAAGGAGGAGGAGCTTGAAGTCAGCTTTGAGCCTCCCAAGTGAAGGCTCCCAGGGTGTGAGCTTCTCTCT
GAAATCCAAAGTCTCAACGAAAGTGTGAGCTTTGATGTGCTTCTGCTTTAATGCACTGGGTGAGCTGAGTTC
TGGCTCCACACCCAGCCCCGAGGTTTATGCAGGGCTCATTGATCTGTATAAATCCTCGGACCTCCCGGGAGGAGA
GTTTTCTACCTGTTTTCACAGTCTGTCAGCGAACTTCATTGCTCCCGGCCACCAAATAAGGATTTAATTCTG
CCTGGTGAAGCACTGGTACAAAGAGTGTGAAAGGAACTGAAGCCAAAGGGTCTTTGCCCCCAAAGTATGCCTT
GGAGCTGCTCACCATCTATGCCTGGGAGCAGGGGAGTGGAGTGCCGATTTTGACACTGCAGAAGGTTTCCGGAC
AGTCTGGAGCTGGTCACACAATATCAGCAGCTCTGCATCTTCTGGAAGGTCAATTACAACCTTTGAAGATGAGAC
CGTGAGGAAGTTTCTACTGAGCCAGTTGCAGAAAACAGGCCTGTGATCTTGGACCCAGCCGAACCCACAGGTGA
CGTGGGTGGAGGGGACCGTTGGTGTGGCATCTTCTGGCAAAAGAAGCAAAGGAATGGTTATCCTCTCCCTGCTT
CAAGGATGGGACTGGAAACCCAATACCACCTTGGAAGTGCCGACAATGCAGACACCAGGAAGTTGTGGAGCTAG
GATCCATCCTATTGTCAATGAGATGTTCTCATCCAGAAGCCATAGAATCCTGAATAATAATTCTAAAAGAACTT
CTAGAGATCATCTGGCAATCGCTTTTAAAGACTCGGCTCACCCTGAGAAAGAGTCACTCACATCCATTCTTCCCT
TGATGGTCCCTATTCTCTCTTCCCTTGCTTCTTGGACTTCTTGAAATCAATCAAGACTGCAAACCTTTTCATAAA
GTCTTGCTTGTGAACTCCCTCTCTGTCAGGCAGCCTGCCTTTAAAAATAGTTGCTGTCTATCCACTTTATGTGCA
TCTTATTTCTGTCAACTTGTATTTTTTTTCTTGTATTTTTTCCAATTAGCTCCTCCTTTTCTTCCAGTCTAAAA
AAGGAATCCTCTGTGTCTTCAAAGCAAAGCTCTTTACTTTCCCTTGGTTCTCATAACTCTGTGATCTTGCTCTC
GGTGTCTCCAACCTCATCCAGTCCCTGTCTGTTTCTCTGTATACAAAACCTTTCTGCCCCCTGCTGACACAGACA
TCTCTATGCCAGCAGCCAGCCAACCTTTTATTAGAAGTTCAAGCTCTCCAAAGGCTCAGATTATAACTGTTGT
CATATTTATATGAGGCTGTTGTCTTTTCTTCTGAGCCTGCCTTTCTCCCCCCCACCCAGGAGTATCCTCTTGCC
AAATCAAAGACTTTTTCTTGGGCTTTAGCCTTAAAGATACTTGAAGGTCTAGGTGCTTTAACCTCACATACCC
TCACTTAAACTTTTATCACTGTTGCATATACCAGTTGTGATACAATAAAGAATGTATCTGG

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FIGURE 3798

AGTGAGAGGGTCCAAGCCTGGTAAGAATGTCCAGCTTCAGGAGAATGAAATCAGAGGACTGTGCTTAAAGTCTCG
TGAAATCTTTCTCAGTCAGCCTATCCTACTAGAACTTGAAGCACCACCTCAAAATATGTGGTGACATCCATGGACA
ATACTATGATTTGCTGCGACTTTTTGAGTACGGTGGTTTCCCACCAGAAAGCAACTACCTGTTTCTTGGGGACTA
TGTGGACAGGGGAAAGCAGTCATTGGAGACGATCTGCCTCTTACTGGCCTACAAAATAAAATATCCTGAGAATTT
TTTTCTTCTCAGAGGGAACCATGAATGTGCCAGCATCAACAGAATTTATGGATTTTATGATGAATGTAAAAGAAG
ATACAACATTAAACTATGGAAAACTTTCACAGACTGTTTTAACTGTTTACCGATAGCAGCCATCGTGGATGAGAA
GATATTCTGCTGTCATGGAGGTTTATCACCAGATCTTCAATCTATGAGCAGATTTCGGCGAATTATGCGACCAAC
TGATGTACCAGATCAAGGTCTTCTTTGTGATCTTTTGTGGTCTGACCCCGATAAAGATGTCTTAGGCTGGGGTGA
AAATGACAGAGGAGTGTCTTCACATTTGGTGCAGAAAGTGGTTGCAAAATTTCTCCATAAGCATGATTTGGATCT
TATATGTAGAGCCCATCAGGTGGTTGAAGATGGATATGAATTTTTTGCAAAGAGGCAGTTGGTCACTCTGTTTTCT
TGCGCCCAATTATTGCGGAGAGTTTGACAATGCAGGTGCCATGATGAGTGTGGATGAAACACTAATGTGTTCTTT
TCAGATTTTAAAGCCTGCAGAGAAAAAGAAGCCAAATGCCACGAGACCTGTAACGCCTCCAAGGGTTGCATCAGG
CCTGAACCCGTCCATTCAGAAAGCTTCAAATTATAGAAACAATACTGTTCTATACGAGTGACCGATTATGCTTTC
TTTGGCCTACATTCTTTATTCTGCGGTGAAGTTGAGGCTTATAAGTTAAACAAAGGAACTAACTTACTGTCCAC
CAGTTTATACAGAACTCACAGTACCTATGACTTTTTTAAACTAAGATCTGTTAAAAAAGAAATCTGTTTCAACAG
ATGACCGTGTACAATACCGTGTGGTGAATGAATTCAGACTTATTAAATGATGAACTTGTT

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FIGURE 3799

MEQIRRMPTDVPDQGLLCDLLWSDPDKDVLGWGENDRGVSFTFGAEVVAKFLHKKHDLDLICRAHQVVEDGYEF
FAKRQLVTLF'SAPNYCGEFDNAGAMMSVDETLMCSEFQILKPAEKKKPNATRPVTPPRVASGLNPSIQKASNYRNN
TVLYE

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FIGURE 3800

TCCTCTAATTGGGACTCCGAGCCAGGGCTATTTCTCGCGCTGGCGCGGTTCCAAGAAGCATCCCAGCCATCACTC
TTTCACCTGCTCCTTAGAGAAGGGAAGATGAGCGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAG
GAAAAGGAGGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGATGAGTCCTGGGACAGCGCTT
GTAGGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACACCTAAGAGACCTCGGGGCCAACC AAAAGGGAAGCAAAAAC
AAGGGTGCCGCCAAGACCCGAAAACCACCATAACTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAG
AAGTAGGAAGAGGAGGGCATCTCGCAAGAGTCCTCGGAGGAGGAGCAGTGAACCGTGCGTGCCGCTGCTCCTCA
CTGGAGGAGCAGCTGCCTTCTGGGACTGGACAGCTTTGCTCCGCTCCACCGCCCTCGCCCCCTTCGCGAGGCCCA
CCATCACCACCGCCTCTGGCCGCCACCCCATCTTCCACCTGTGCCACACCACCACTACGCAGCACACCAGC
CACTGCAGGGCTCCCATGGGCTGAGTGGGGAGCAGTTTTCCCTTGGCCTCAGTTCCCAGCTCCCCCGCCACCC
ACGCATACACACATGCCCTCCTGGACAAGGCTAGCATCTCACTTAGCCGCACCCTGCACCTGCTGCGTCCCCACT
CCGTTGGTGGTGGGGACATTGCTCTCTGGGCTTTTGGTTTGGGGGCGCCCTCTCTGCTTCACTGTTCCCTCTGGC
CTCCCATAGTGGGGCCTGGGAGGGTTCCCTTGGCCTTAAAAGGGGCCCAAGCCCCATCTCATCCTGGCACGCCCT
ACTCCACTGCCCTGGCAGCAGCAGGTGTGGCCAATGGAGGGGGGTGCTGGCCCCCAGGATTCCCCCAGCCAACT
GTCTTTGTACCCACGTGGGGCTCACACTTTTCATCCTTCCCCACCTTCCCTAGTCCCTGCACTAGGTTGGACAGC
CCCCCTTCGGCTACAGGAAGGCAGGAGGGGTGAGTCCCCTACTCCCTCTTCACTGTGGCCGCAGCCCCCTTGCCCT
CCGCCTGGGATCGAGTACATATTGTGGTGATGGAGATGCAGTCACTTATTGTCCAGGTGAGGCCACGAGCCCTG
TGTCCGCCGCCTGAGGTGGGCTGGGGCTGCTCCCCTAACCCTACTTTGCTTCCGCCACTCAGCCATTTCCTCCCTC
CTCAGATGGGGCACCAATAGCAAGGAGCTCACCTGCCCGCTCCCAACCCCGCTCCTGCTCTTCCCTGCCCCCTCA
AGGTTCTGGTTCCATTTTTCTCTGTCCACAACTACCTCTGAACAGTTGTGTTGTTTTTGTTC AATGTTCCAT
TCTTCCACATCCGTCATTGCTGCTGCTACCAGCGCCAAATATTATCCTCACTGCCTCCTGTTCTGCCCACGATC
CCCTCCCGCAAGATACTCTTTGTAGGGAAGAGGGGCTGGGGCATGGCAGGCTGGGTGACCGCCTACCCAGTCCC
AGGGAAGGTGGGGCCCTGCCCCTAGGATGCTGCAGCAGAGTGAGCAAGGGGTCCCGAATCAACCATAAAGGGCGT
AGGGGCCACCTCCTCCCCCTGTTCTGTTGGGGAGGGGTGACCATGATTTGTCCCAGCCTGGGGCTCCCCCTCTGG
TTTCCTATTGTCAGTTACTTGAATAAAAAAAAATCCTTTTCTGG

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FIGURE 3801

MSESSSKSSQPLASKQEKDGTEKRGRGRPRKQPPVSPGTALVGSQKEPSEVPTPKRPRGRPKGSKNKGA AKTRKT
TTTPGRKPRGRPKKLHRRRRKRRASRRSPRRRSSDPCVPPAPHWRSSFLLGLDSFAPLPPPPPLPQAHHHHRLWP
PPPSSTCALTTTLHSTPAAAGLPWAEWGAVFPWPQFFAPFAHPRIHTCPPGQG

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FIGURE 3802

GCGCTGGCGCGGTTCCAAGAAGCATCCCAGCCATCACTCTTTCACCTGCTCCTTAGAGAAGGGAAGATGAGCGAG
TCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGAGGGCACTGAGAAGCGGGGCCGGGGCAGG
CCGCGCAAGCAGCCTCCGATGAGTCCTGGGACAGCGCTTGTAAGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACA
CCTAAGAGACCTCGGGGCCAACCAAAGGGAAGCAAAAAAACTGGAGAAGTAGGAAGAGGAGGGCATCTCGCAAG
AGTCCTCGGAGGAGGAGCAGTGAACCGTGCGTGCCGCTGCTCCTCACTGGAGGAGCAGCTGCCTTCTGGGACTG
GACAGCTTTGCTCCGCTCCCACCGCCCTCGCCCCCTCCGCAGGGCCACCATCACCACCGCCTCTGGCCGCCACCC
CCATCTTCCACCTGTGCCCACACCACCACTACGCAGCACACCAGCCACTGCAGGGCTCCCATGGGCTGAGTGG
GGAGCAGTTTTTCCCCTGGCCTCAGTTCCCAGCTCCCCCGCCACCCACGCATACACACATGCCCTCCTGGACAA
GGCTAGCATCTCACTTAGCCGCACCCTGCACCTGCT

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FIGURE 3803

MSESSSKSSQPLASKQEKEGTEKRGRGRPRKQPPMSPGTALVGSQKEPSEVPTPKRPRGQPKGSKKNWRSRKRRRA
SRKSPRRRSSEPCVPPAPHWRSSCLLGLDSFAPLPPPSPLPQAHHHHRLWPPPPSSTCAHTTTTLRSTPATAGLPW
AEWGAVFPWPQFPAPPAHPRIHTCPPGQG

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FIGURE 3804

GCATCCCAGCCATCACTCTTTTACCTGCTCCTTAGAGAAGGGAAGATGAGCGAGTCGAGCTCGAAGTCCAGCCAG
CCCTTGGCCTCCAAGCAGGAAAAGGAGGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGATG
AGTCCTGGGACAGCGCTTGTAAGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACACCTAAGAGACCTCGGGGCCAA
CCAAAGGGAAGCAAAAACAAGGGTGCCGCCAAGACCCGAAAACCACCATAACTCCAGGAAGGAAACCAAGGGGC
AGACCCAAAAAACTGGAGAAGTAGGAAGAGGAGGGCATCTCGCAAGAGTCCTCGGAGGAGGAGCAGTGAATTCTG
GGACTGGACAGCTTTGCTCCGCTCC

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FIGURE 3805

GATCCCTGAGCGTGTGGCAGCAGTGCGGTGCTGGTCCCTCCCTATGCAGCCTGGTTTCTAGCGTGACACGCCCTT
GACTTGAGGACCATGAACCGCAGCCGCCAGGTGACGTGCGTGGCCTGGGTCCGCTGCGGCGTGGCCAAAGAGACA
CCAGACAAGGTAGAGCTGAGTAAAGAAGAAGTAAACGCCTCATTGCTGAGGCAAAGGAGAAATTGCAAGAAGAA
GGTGGTGGCAGTGATGAAGAGGAGACAGGCAGTCCTTCAGAAGATGGCATGCAGAGTGCACGCACCCAGGCACGC
CCAAGAGAGCCCCCTGGAGGATGGTGACCCAGAGGATGACAGGACGCTTGATGATGATGAGCTGGCTGAGTACGAC
TTAGATAAATATGATGAGGAAGGTGACCCAGATGCTGAGACTCTTGGTGAATCTCTCTTGGGTCTTACGGTCTAC
GGGAGTAATGATCAAGATCCTTACGTTACTCTGAAAGATACAGAACAATATGAACGTGAAGATTTCTTGATTAAAG
CCCAGTGATAATCTTATAGTTTGTGGCCGAGCTGAACAGGACCAGTGCAATTTAGAGGTGCATGTTTATAATCAA
GAAGAAGACTCTTTTTATGTACACCATGATATACTCTTGCTGTCATATCCTCTGAGTGTGGAATGGCTGAATTTT
GATCCTAGCCCAGATGATTCTACTGGAAATTACATTGCTGTAGGAAACATGACCCCTGTTATTGAAGTGTGGGAC
CTTGATATAGTGGACTCTTTAGAGCCAGTCTTCACACTCGGAAGTAACTTTCAAAAAAGAAGAAAAAGAAAGGA
AAGAAGAGTTCCCTCAGCAGAAGGGCATAACCGATGCTGTCCTTGACCTTTCATGGAATAAGCTAATCAGAAATGTT
TTAGCAAGTGCATCAGCTGACAACACTGTAATTCTGTGGGATATGTCCTTGGGGAAACCAGCAGCTAGCCTCGCT
GTACACACAGACAAGGTCCAAACACTGCAGTTTCATCCATTTGAAGCACAGACTCTGATTTCTGGCTCATATGAT
AAGTCAGTGGCTTTGTATGACTGCCGAAGTCCAGATGAAAGCCATCGAATGTGGCGATTGAGTGGGCAGATAGAG
AGAGTGAAGTGGAAATCACTTTTACCTTGTCAATTTCTTGCCAGTACAGATGACGGCTTTGTATATAATTTGGAT
GCACGTTGAGATAAGCCAATTTTACACTTAATGCACACAATGATGAAATCTCTGGTCTTGATCTTAGCAGTCAA
ATCAAGGGCTGTCTCGTGACTGCTTCAGCTGACAAATACGTGAAGATCTGGGACATCTTAGGAGATAGGCCAAGT
CTAGTTCATTCTAGGGACATGAAAATGGGAGTTCTCTTCTGTTCTTCATGTTGCCCTGATTTGCCATTTATTTAT
GCCTTTGGAGGTCAAAAAGAAGGGCTTCGGGTCTGGGATATAAGCACAGTCTCTTCAGTAAATGAAGCATTGGA
AGACGAGAGAGGCTTGTTCTTGGGAGTGCAAGAAATTCATCTATTAGTGGCCCTTTTGGCAGCAGGAGCTCAGAT
ACACCCATGGAGTCTTAATAATGAAGATCATCTAATTTCTGCTTACCTTAACTGGGAATTTTAAAAAGTTGGCCTAA
AAATGTTCCATGCGTGGCAGCAACCATGCAGAGTGAACACAATTCATTTCTGACTGACATTCCTTTCTGC
AACTGCGGTGGCACCACAAATATCCGGTCTTTGTGCTTGCTCTTCAGATGGATGGTTTGTAAGGCTCTTGTTGCA
TTTCTTAAAAAGAGTAATAAAAAGGATTTTAAAAAGTAATTCCTTAAACAT

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FIGURE 3806

MNRSRQVTCVAWVRCGVAKETPDKVELSKEEVKRLIAEAKEKLQEEGGGSDEEETGSPSEDGMQSARTQARPREP
LEDGDPEDDRTLDDDELAEYDLDDKYDEEGDPDAETLGESLLGLTVYGSNDQDPYVTLKDTEQYEREDFLIKPSDN
LIVCGRAEQDQCNLEHVHVYNQEEDSFYVHHDILLSAYPLSVEWLNFDPSPDSTGNYIAVGNMTPVIEVWDLDIV
DSLEPVFTLGSKLSKKKKKKGKKSSSAEGHTDAVLDSLWNKLIRNVLASASADNTVILWDMSLGKPAASLAVHTD
KVQTLQFHPFEAQTLISGSYDKSVALYDCRSPDESHRMWRFSGQIERVTWNHFSPPCHFLASTDDGFVYNLDARSD
KPIFTLNAHNDEISGLDLSSQIKGCLVTASADKYVKIWDILGDRPSLVHSRDMKMGVLCSSCCPDLPFIYAFGG
QKEGLRVWDISTVSSVNEAFGRRERLVLGSARNSSISGPFGRSSDTPMES

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FIGURE 3807

GGGGGAGCCCCCTGCAAGTTTCCCGGGCCGCGCGCCGCGCTCGCTCGCCTCCCAGCCCCGCGGCCCGAGCCGCCGCC
GCGCCCCGCCATGCCCTCGGCCAAACAAAGGGGCTCCAAGGGCGGCCACGGCGCCGCGAGCCCCCTCGGAGAAGGGT
GCCCCACCCGTCGGGCGGCGCGGATGACGTGGCGAAGAAGCCGCGCCGCGCGCAGCAGCCGCCGCCGCCGCC
GCGCCGCACCCCGCAGCAGCACCCGCAGCAGCACCCGCAGAACCAGGCGCACGGCAAGGGCGGCCACCGCGGCGGC
GGCGGCGGCGGCGGCAAGTCCTCCTCCTCCTCCTCCTCCGCCCTCCGCCGCCGCTGCCGCCGCCGCCGCCCTCGTCTCG
GCGTCTGTCTCGCGCAGGCTCGGCAGGGCGCTCAACTTTCTCTTCTACCTCGCCCTGGTGGCGGCGGCCGCTTTC
TCGGGCTGGTGGTCCACCACGTCTGGAGGAGGTCCAGCAGGTCCGGCGCAGCCACCAGGACTTCTCCCGGCAG
AGGGAGGAGCTGGGCCAGGGCTTGCAGGGCGTGCAGCAGAAGGTGCAGTCTTTGCAAGCCACATTTGGAACCTTT
GAGTCCATCTTGAGAAGCTCCCAACATAAAACAAGACCTCACAGAGAAAGCTGTGAAGCAAGGGGAGAGTGAGGTG
AGCCGGATCAGCGAAGTGCTGCAGAACTCCAGAATGAGATTCTCAAAGACCTCTCGGATGGGATCCATGTGGTG
AAGGACGCCCCGGGAGCGGGACTTCACGTCCCTGGAGAACACGGTGGAGGAGCGGCTGACGGAGCTCACCAAATCC
ATCAACGACAACATCGCCATCTTACAGAAGTCCAGAAGAGGAGCCAGAAGGAGATCAATGACATGAAGGCAAAG
GTTGCCTCCCTGGAAGAATCTGAGGGGAACAAGCAGGATTTGAAAGCCTTAAAGGAAGCTGTGAAGGAGATACAG
ACCTCAGCCAAGTCCAGAGAGTGGGACATGGAGGCCCTGAGAAGTACCCTTCAGACTATGGAGTCTGACATCTAC
ACCGAGGTTTCGCGAGCTGGTGAGCCTCAAGCAGGAGCAGCAGGCTTTCAAGGAGGCGGCCGACACGGAGCGGCTC
GCCCTGCAGGCCCTCACGGAGAAGCTTCTCAGGTCTGAGGAGTCCGTCTCCCGCCTCCCGGAGGAGATCCGGAGA
CTGGAGGAAGAGCTCCGCCAGCTGAAGTCCGATTCCCACGGGCCGAAGGAGGACGGAGGCTTCAGACACTCGGAA
GCCTTTGAGGCACTCCAGCAAAGAGTCAGGGACTGGACTCCAGGCTCCAGCACGTGGAGGATGGGGTGCTCTCC
ATGCAGGTGGCTTCTGCGCGCCAGACCGAGAGCCTGGAGTCCCTCCTGTCCAAGAGCCAGGAGCACGAGCAGCGC
CTGGCCGCCCTGCAGGGGCGCCTGGAAGGCCTCGGGTCTCAGAGGCAGACCAGGATGGCCTGGCCAGCACGGTG
AGGAGCCTGGGCGAGACCCAGCTGGTGCTCTACGGTGACGTGGAGGAGCTGAAGAGGAGTGTGGGCGAGCTCCCC
AGCACCGTGGAATCACTCCAGAAGGTGCAGGAGCAGGTGCACACGCTGCTCAGTCAGGACCAAGCCAGGCCGCC
CGTCTGCCTCCTCAGGACTTCCTGGACAGACTTTCTTCTCTAGACAACCTGAAAGCCTCAGTCAGCCAAGTGAG
GCGGACTTGAAAATGCTCAGGACTGCTGTGGACAGTTTGGTTGCATACTCGGTCAAAATAGAAACCAACGAGAAC
AATCTGGAATCAGCCAAGGGTTTACTAGATGACCTGAGGAATGATCTGGATAGGTTGTTTGTGAAAGTGAGAAAG
ATTACGAAAAGGTCTAAAATGAATTGCGTGTGCAGGGCGCGGATTTAAAGTCCAATTTCTCATGACCAAAAAATG
TGTGGTTTTTTTCCCATGTGTCCCCTACCCCCCAATTTCTTGTCCCCTCTTAAAGAGCAGTTGTCACCACCTGAAC
ACCAAGGCATTGTATTTTTCATGCCAGTTAACTTATTTACAATATTTAAGTTCTCTGCTTCTGCATTTGGTTGGT
TTCCTGAAGCGCAGCCCCCTGTGAATAACAGGTGGCTTTTTCATGGATGTCTCTAGTCAGAGAAAAATGATAAAGC
TTAAATTGAGGATTAACAGAAGCAGATTAACCTCAGAAATCCTGTCTGGCTGGCAGATTTCAAGTAAAAA
AAAAGGTGGGTTGGGGGACCCCTTTTCTTTCTAGTTGTCTTTAAGGAAAATTAATTTTACTTTTTTTTTTGTTC
GGCCGAAATTTTTATGAGATATCTCTCACTTGTCTTCCACTTTGAACCGTTAAAGCTCATAGCTGTCAGCTCTG
AATGAGGAGGGGAGAAGCCCCCTGGGTCTTTCTTTGAAAGGAATCCGCTGCTTGAGGGCTGCCTCCCTCATGGTGT
GCGTGTCTGTTCTCTTCTGACGCATCTGTGATATCAGAGGTAAGTATGCAAAGCATCCAGGCGGTTCTGAATGTG
AAGCACTACACCCAGCAGAGTCCCGGTGCCCTCTGTCCCCACTGCCGGCCCATGTCCTCTCTCCGAGGTACCA
AGGAATGCACAGGTTTCGACTACCAGAAAGGGGAGTCCTTGGGTTCTTTCAAAAAATTCGTGAGGAGAGCTGTCT
ACAGTGGAATAGGGGCTCTCCCTGGGGAATGCAGGCCAAGTCCTTTTATTTAACATGATGTCCATGAAGAGGT
TGCCGTCTGGGCAAGCCCTGTCCGCAAGGAGCGTGCATACTGCGTTTGTGTAATTGTTTGTGTATCTCCCTTCCC
TCTGAGCTGTATTGTTCTTTAATGGCTGTCTTGGCCTTCCAAAAAATTGAAAAA

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FIGURE 3808

MPSAKQRGSKGGHGAASPSEKGAHPSSGADDVAKKPPFPAPQQPPPPPPAPHPQQHPQQHPQONQAHGKGGHRGGGGG
GGKSSSSSSASAAAAAAAASSSASCSRRLGRALNFLFYALVAAAAFSGWCVHHVLEEVOQVRRSHQDFSRQREE
LGQGLQGVEQKVQSLQATFGTFESILRSSQHKQDLTEKAVKQGESEVSRISEVLQKLQNEILKDLSDGIHVVKDA
RERDFTSLENTVEERLTELTKSINDNIAIFTEVQKRSQKEINDMKAKVASLEESEGNKQDLKALKEAVKEIQTSA
KSREWDMEALRSTLQTMESDIYTEVRELVSLEKQEQQAFKEAADTERLALQALTEKLLRSEESVSRLPEEIRRLEE
ELRQLKSDSHGPKEDGGFRHSEAFEALQOKSQGLDSRLQHVEDGVLSMQVASARQTESLESLLSKSQEHEQRLAA
LQGRLEGLGSSEADQDGLASTVRS�GETQLVLYGDVEELKRSVGELPSTVESLQKVQEQVHTLLSQDQAQAARLP
PQDFLDRLSSLDNLKASVSQVEADLKMLRTAVDSLVAYSVKIETNENNLESAGLLDDLRNDLDRLFVKVEKIHE
KV

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FIGURE 3809

ATGGAGGAAGTGGAAC TTGATTTGGGTTTGAAGAATAGCGTGGAGGAAGTGGAAC TTTATTTGGCTTTGAAGAAT
AGAAACTATGGAGGAGTATATGTTGGCCTACCATCTGAAGCTGTCAATATGGTGTCCAGTCAAACAAAGACGGTT
CGGAAAAC TTGCTCATCAGTTTGAAGGAATTTGGCTCCGTGGGACGTTGTAATGTGCACAGACATTTCCAAGGA
AATTCTAAACAGTCACCCTTCCCTTTTGCATTCCCCCAAATCTTAAGTGTATACATAAAACCCTGGGTACATATT
GTTGTGGTAATAGAAGGGAATTGGTTAAACAGTACACTTGTTTATGGAAC TTTCTGTGGCCACCTACGAAAGACA
AGTTAA

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FIGURE 3810

GGCACGAGGCTCTGTACCTGGGCTGGAGTCCAGTGGCGTGATCATAGCTCACTGTAGCCTCCAACCCCTGGGCT
CAAGTGATCCTCCCCACTCAGCCTACCCAAGCAGCTGGAACTACAGGAGTGGTATGAGGAGCATGCCAGGGAGCA
AGAGCAGCAGCGACAACCTCAGCAGCAGTGCAGCCCCCGCCGCCAGCAGCCCCAGGCAGCCGCCAGCGCTCCCA
GACCGTTACCTAGCCCAGCGCCCGAAAGCCGTCTCTTCTATGCAATAACACAATAGTATTACTCTACTGCGATGT
ACGGAACCTGCGGTGTGTGTACACATACTCACGTATATGCACATATTTATATACAGGAAGAAAAAAGACAGACAAG
ATGGGGCTTGTTTTATAACCACCTTGCCCTGTCTTCCTTAACCTCCAGAAGCCAGTTTGGTGAGGGGTGGGGGTGC
GGCCACCAGGTCTGAGCTCTTCCTACTGTGGAAGGCTCCAGAAGGCCCTTCACAAGGAGACCCCTCACCTGGATC
CAGTCGACTGCGGGGCTTGCCCCCTCATGTGGGCTGGCCTCCATCGGCCACGTCCAAAGCTGTCACTGCTACTGCT
TCAGGCTCACATCCCCCGACCTGATGGCGTGCCCGCCCCCTCTCCCTGCGGCCCATGCCACAGGTTTCTGTGTT
TTGCTTTAGGGACAGAACCACCTTAGGAAGGAAAGAACTCCCGGTCTCCAGGGTGGTATTTTCACTGTCTGTGATAA
TGTCACGCAACACCTCTTCGGGGACCACTGCCCAGGATCTAATGGAAGCGGAATTGGGGCAACTGGGCCCATGTG
GCCAGAGCTCAGTTAGCCAGTGCCGGGCGGCCACAGATTACACTGACCAATCTCCTCCCTTGCTCTGCAAGCCT
CCCACCCAGCCTTCTCTGGCTTAACCTTGTTGGCGAAAACCTCTTCCACAGTGGCCTCCTTGCGGACCCAGAACC
CGGAGGAAGGGGCATGAGGCAGGAAGTGGGGCCGATGTCTGCAACCCAGACCACTTCGTGGAATGGGCTCTTGAC
CAAATCCCTTTTTTTTGCATTTACCCGTTCAAGCAAAACAACGTTTTGGTTAACTAAGGATTGTGCTAAAGCCGA
TACCAGGTCCTTTCACACGTGTGCACTAGGAACAGGAGCGAACAGCACAGAGAGACGCTCCCTGTGGGACGCAGCA
GCCCCGTGGCCCCGGCCAGTTCCCAGCCACCCTCCCTGGCTCTGCTCACACCAGAGATTTCCATAGCAGGAGCG
GTTGGTGCAGAAGTAGGTTTCAATGAACCTCAGTTAACGTGCCCCCCTCCTCCCACCATGGTACCCTGTAGGA
GCCCTGTATGACATCTGAGCGTGGTGGAGGTAGGAGGGTTGCCAGCTGCAGTGACCCTGCCACAGAGGCAGGGTC
AGTGCAGAGGTGCTTTGGTTCCGCTTCCCTGGGCCACAGAACGGAACACAGCATAGGTTCTGCAGCAGGAGCCG
CAGTGGCAGGATGGAGGGTGCGAAGGGCAAGGAGTGCAGTGTGGGCATTCTTGCCAGCCCCCGGCCCTCTGGTG
CCTGCTTCTGTGACTTCAGAAGGCAGGTGGACAGAGCCTCCCTCTGGCCTTGCTCTTCCCAGCCACAGAACG
GGCAGGGTGGCACCCGACCCAGGGGAGCAGTACCTGGTCCCCCACCCTCCTCCCAACCACCTCCAAGGCCAA
GCTGGGTCCCATAGCCAGCACGGCATGGTTCTCCCCTTCCCCCTTCCCAGGTGAGGGGAGTTGGACAAGTAGCA
GGTGTGTTTTTTTTAAAGCACAGCCCTTTGGGAAAGCAACACATTATTGAGACTCACTGTGATTCCCCCGGGAGTC
AGACTGGCTTTGTCTCTTCTCTGAGGGCCATGGGCCATCAGCAGGAGCTCCACATCGAGCCCCAGGCCAG
AACCCCTCCCTTTTACAGAGAGGGAACTTTATTGCACAATTGGGTGCCTTTTAGCTTTTGTGTGTTGAAATGGG
CGTTTTGGAAGCAAGGGTCAGGGGACAGCTTCTAAAGGTGTGAGTCTCTGACCTGAGCATCTGGGCCTCGCCTGG
GCCCTTCTTCTTCCCAGGGGTGGAACGTGGAGGGGCCAGCAGCACCCCGGGGTCTGCCAGGGGAGTCAAGGC
CCCGAGGTGGGGGGGCCTATTCCAGGAGGAGTGGGATCTCGGCCCTGTCCAGAGCGAGTTAATGTGTCCATCTGC
CCAACCTGTCTGAGAAAGGACCTGGTTTTTGGCCAGGACCTGACAAATACCCAATGGCAGCAGTGTCAACAGAC
GGGAGTCCAGCCAGGGTGGTGCCCTTGTCAATTGAGGTTAGGGACAGCTATCCCCAGGTTATGCCTGGCCCCACC
CAGCAGGGAGTTGGGGTCCCCCACAGGCTGTGAGCTCTGTGGGCCCTGGGATGTGATCTAGCTCAGATGCCCTC
TCATCCTTGATGTATAGTTGAGTGCACCCAAGTGGCACCCACTGGCGGCCAGGGGCACAGCCTGGTGGTGGTG
CAATAGAACTGTGCCCCCTCTCAGCTCCTCGCTTCCCCTCCCACAGCCCCAGCCTTACTCCACCATGCGGACAAT
CATTTTGTACGGATCACGGGAGCAATGCTGTACGGTTTTGTACACTGGTGGTTTTGTTTCTAGAAAACCCATTGT
GTCTCTGGATTTCTAGCACATTACTAAAAGAGCCTCTGCTTTGTAAAAA

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FIGURE 3811

MTSERGGGRRVASCDPATEAGSVQRSLWFRFPGPQNGTQHRFCSRSRSGRMEGAKGKECTAGHSWPAPALWCLL
PVTSEGRWTEPPSGLVLFPATERAGWHPTPGEQYLVPHPLLPTTSKAKLGPIASTAWFSPSPLPRSGELDK

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FIGURE 3812

GATGCGGCTGTGATTGCTGAATTGTCTGGGCAGGTTTGGAGTCTCTGGCAAGCTCCCCTGACTGTGCATCCCTCT
GGAGACGAAGAGGAGGGGGAGGCCTGTCCTCTCTGGGATCCATTGGTCACATCCCCCTGAGGATTCCCGAATGCC
TACCTCCAGTGTCGTCAACATGGAGTTCTGAAGTCCATGTGGCTCTTCACAGTGAATCAGGTGTTAAGGAAGATG
CAGAGACGCCACAGCAGCAACACGGATAACATTCCACCTGAAAGCTGTGACCAAGGCTGGCCCCCTCTGGGGAAC
GGGGGCCATTGAACTTGAAGACTGCAGAGCCAGCGGTCCTTGGGATCCCGAGAAACCGCAGCCAGGCGCTCAGCT
CCGAGGCGAGTGTGGATGAAGGTGGCGTCTTTGAGAGTCTGAAGGCAGAGGCAGCCTCCCCACCAGCGCTCTTCT
CGGGCTTATCAGGCAGCCTCCCCACCAGCTCGTTCCCCCTCCAGCCTGGTGTCTGGGCTCCTCGGCTGGCGGCGGGG
ACGTGTTTCATCCAGATGCCCCGCGTCCAGGGAGGAAGGAGGGGGCGGGGCGAGGGGGCGCCTACCACCACCGCC
AGCCCCACCACCATTTCCACCATGGCGGCCACCGCGGGGGCTCCCTGCTGCAGCACGTGGGTGGGGACCACCGGG
GGCACTCGGAGGAGGGAGGCGACGAGCAGCCTGGGACGCCCGCCCCCGCCCTGTCCGAGCTGAAGGCTGTGATCT
GCTGGCTCCAGAAAGGACTCCCCTTCATCCTGATCCTCCTGGCCAAACTGTGCTTTTCAGCATAAGCTCGGCATTG
CTGTGTGCATCGGGATGGCCAGCACCTTCGCCTATGCCAACTCCACGCTTCGAGAACAGGTCTCACTGAAGGAGA
AGAGGTCAGTGTCTGGTCATCTTGTGGATCCTGGCCTTTCTGGCGGGGAACACCCCTCTATGTGCTTTATACATTCA
GCTCCCAGCAGCTGTACAACAGCCTCATATTCCTGAAGCCCAACCTGGAGATGCTGGACTTCTTTGACCTGCTAT
GGATTGTGGGGATCGCAGACTTTGTTCTGAAGTACATCACCATCGCCCTCAAGTGCCTCATCGTGGCCCTGCCCA
AGATCATCCTGGCCGTCAAGTCCAAGGGAAAGTTCTATCTGGTCATCGAGGAGCTGAGCCAGCTGTTCCGATCCC
TTGTCCCATCCAGCTGTGGTACAAATACATCATGGGTGACGACTCCTCCAACAGCTACTTCCTGGGCGGGGTCC
TGATCGTTCTCTACAGCCTCTGCAAGTCCTTCGACATCTGTGGACGTGTGGGCGGAGTTAGGAAAGCCCTGAAGC
TTCTCTGTACCTCTCAGAACTATGGAGTCCGAGCCACCGGGCAGCAGTGCACAGAAGCTGGTGACATCTGCGCCA
TCTGTCAGGCCGAGTTCCGAGAGCCTCTGATTCTCCTGTGCCAGATGCTGTTGAAGGGGCACAAGAAATTGGAGC
TGGAGAAGATTGATGAAAGTGCAGGTGTGTAAGGAAATAGAACAGTCTGCTGGGAGTCAGACCTGGAATTCTGAT
TCCAAACTCTTTATTACTTTGGGAAGTCACTCAGCCTCCCCGTAGCCATCTCCAGGGTGACGGAACCCAGTGTAT
TACCTGCTGGAACCAAGGAACTAACAATGTAGGTTACTAGTGAATACCCCAATGGTTTCTCCAATTATGCCCAT
GCCACCAAAACAATAAAACAAAATTCTCTAACAATGAT

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FIGURE 3813

MPASREEGGGRGEGGAYHHRQPHHHFHHGGHRGGSLLQHVGGDHRGHSEEGGDEQPGTPAPALSELKAVICWLQK
GLPFILILLAKLCFQHKLGIAVCIGMASTFAYANSTLREQVSLKEKRSVLVILWILAFLAGNTLYVLYTFSSQQL
YNSLIFLKPNEMLDFFDLLWIVGIADFLVKYITIALKCLIVALPKIILAVKSKGKFYLVIEELSQLFRSLVPIQ
LWYKYIMGDDSSNSYFLGGVLIVLYSLCKSFDICGRVGGVRKALKLLCTSQNYGVRATGQQCTEAGDICAICQAE
FREPLILLCQMLLKGHKKLELEKIDESAGV

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FIGURE 3814

GAACTGCCATCTTCTAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCATGTATATGTGAATCTATAAGAAAGGTGATATCGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCGTAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCGAGAGAATTAATG
TGCATATTGAGCACATTAAGCACTCTGAGAGCCGAGATAGCTTCCTGAAATGCATGAAGGAAAATGATCAGAAAA
AGAAAGAAGCGGAAGAGAAAAGGTACCTGGGTTCAACTCAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTG
TGAGAGCCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTGTGAATTCATGGCATAATAGGTGTTAAAAA
AAAAAAAAAAAAAGACCTCTGGGCTAT

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FIGURE 3815

MRTQRRERGEAPDICS LGLENMELFLWPCICEIYKKGDIVDIKGMGTVQKGMPRKCYHGKTGRVYNVTQHAVGIV
V NKQVKGKILAE RIN V HIEHIKHSESRDSFLKCMKENDQKKKEAEEKGTWVQLKRQPAPPREAHFVRANGKEPEL
LEPI PCEFMA

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FIGURE 3816

GGGGGGTCTGCGTCTTCCCGAGCCAGTGTGCTGAGCTCTCCGCGTCGCCCTCTGTGCCCCGCGCCTGGCCTACCGC
GGCACTCCCGGCTGCACGCTCTGCTTGGCCTCGCC**ATG**CCGGTGGACCTCAGCAAGTGGTCCGGGCCCTTGAGCC
TGCAAGAAGTGGACGAGCAGCCGAGCAGCCGCTGCATGTCACCTACGCCGGGGCGGCGGTGGACGAGCTGGGCA
AAGTGCTGACGCCCCACCCAGGTAAAGAATAGACCCACCAGCATTTTCGTGGGATGGTCTTGATTACAGGAAGCTCT
ACACCTTGGTCTTGACAGACCCGGATGCTCCCAGCAGGAAGGATCCCCAAATACAGAGAATGGCATCATTTCCTGG
TGGTCAACATGAAGGGCAATGACATCAGCAGTGGCACAGTCCTCTCCGATTATGTGGGCTCGGGGCCTCCCAAGG
GCACAGGCCTCCACCGCTATGTCTGGCTGGTTTACGAGCAGGACAGGCCGCTAAAGTGTGACGAGCCCATCCTCA
GCAACCGATCTGGAGACCACCGTGGCAAATTCAAGGTGGCGTCCTTCCGTAAAAAGTATGAGCTCAGGGCCCCGG
TGGCTGGCACGTGTTACCAGGCCGAGTGGGATGACTATGTGCCCAAACCTGTACGAGCAGCTGTCTGGGAAG**TAGG**
GGGTTAGCTTGGGGACCTGAACTGTCTGGAGGCCCAAGCCATGTTCCCCAGTTCAGTGTGTCATGTATAATAG
ATTTCTCCTCTTCCTGCCCCCTTGGCATGGGTGAGACCTGACCAGTCAGATGGTAGTTGAGGGTGACTTTTCCT
GCTGCCTGGCCTTTATAATTTTACTCACTCACTCTGATTTATGTTTTGATCAAATTTGAACTTCATTTTGGGGGG
TATTTTGGTACTGTGATGGGGTCATCAAATTATTAATCTGAAAATAGCAACCCAGAATGTAAAAAAGAAAAAACT
GGGGGGAAAAAGACCAGGTCTACAGTGATAGAGCAAAGCATCAAAGAATCTTTAAGGGAGGTTTAAAAAAAAAAAA
AAAAAAAAAAGATTGGTTGCCTCTGCCTTTGTGATCCTGAGTCCAGAATGGTACACAATGTGATTTTATGGTGAT
GTCACCTACCTAGACAACCAGAGGCTGGCATTGAGGCTAACCTCCAACACAGTGCATCTCAGATGCCTCAGTAGG
CATCAGTATGTCACTCTGGTCCCTTTAAAGAGCAATCCTGGAAGAAGCAGGAGGGAGGGTGGCTTTGCTGTTGTT
GGGACATGGCAATCTAGACCGGTAGCAGCGCCTCGCTGACAGCTTGGGAGGAAACCTGAGATCTGTGTTTTTTAA
ATTGATCGTTCTTCATGGGGGTAAGAAAAGCTGGTCTGGAGTTGCTGAATGTTGCATTAATTGTGCTGTTTGCTT
GTAGTTGAATAAAAACCCG

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FIGURE 3817

MPVDLSKWSGPLSLQEVDQPHPLHVTYAGAAVDELGKVLTPQVKNRPTSI
SWDGLDSGKLYTLVLTDPDAPS
RKDPKYREWHHFLVVNMKGNDISSGTVLSDYVGSPPKGTGLHRYVWL
VYEQDRPLKCDEPILSNRSGDHRGKFK
VASFRKKYELRAPVAGTCYQAEWDDYVPKLYEQLSGK

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FIGURE 3818

GCTCTCCGCGTCGCCTCTGTGCCCCGCGCCTGGCCTACCGCGGCACTCCCGGCTGCACGCTCTGCTTGGCCTCGC
CATGCCGGTGGACCTCAGCAAGTGGTCCGGGCCCTTGAGCCTGCAAGAAGTGGACGAGCAGCCGAGCACCCGCT
GCATGTCACCTACGCCGGGGCGGCGGTGGACGAGCTGGGCAAAGTGCTGACGCCCTGTGCCGGCCTCCTGGGTGG
GACCCAGCGGAGACAGGGCCAGGGGCGGTGGGGAGGTTTACGCCTGCGTGTGTCGAGGCCCCCCCAGGCCAGAGGT
CCCGGGGTCCATGTCCCATGCCCTGGGGGCCACCCCGAGCACCGGGAACCCGGCCTGTGGCGTGGCCAGGCAGGTT
CGGCCTGCGGCAGAAATTCATTCACTTTTCCCGGGCTTCAGACCCAAGAGGGACCTAGGTTTCGGAAACAGGCCGG
ATCCCCCTCTCCCCCACAGGCCAGGGCGCTGGAGAGGGACGTCGCCGGGACAGAGTAGGCTGTGGCTGCCCCGA
CGCCCCAGAGCTTCCCCTAGGGCCTCAGCATTTTAGGCCTGGTTTTTGGAGGGCTGAAGCCTCACCCGAGAGCCT
GTGACGCATTATGTAAGTGGC

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FIGURE 3819

CGGGAGCGGGGACCCGAGCCTGCAGCCGAGCTCCGCTGCCGGCCCTGGACACTCGGCTCAGCCAAGCATCCTTCC
TGGGGGCCGAGGAAGTGGGGCCACTCTGCCGTTCCGAGGACCTGGGAGGAGCCCTCGGTACCCCGGGCCCCGGGG
CCCTGGGGGCACACACGTCCAGCCCAGCCCGAGCCTGCGTTTCCTGAGCCGGGATCTGGGGCGAG**ATG**CGCCGAGG
CGGCAGTGCGCCCGAGCCCCGCGTCCTCGTCTGCCTCGGGGCGCTCCTGGCCGGCTGGGTGCGCGTAGCCCAAGG
TTGAACTCGCCTTACACCTGTAACCGGTGGACTTCCCTACACACCTTTGCAAGTCTTCTGTGCCGACCAGCGCC
TTCAAAGCGGGGTCTTCCGCCTTTACTTTTGGAAAAGCTTTTATTTTGAATACTTGGCTGACTTACAAAAGAC
TTCCCCCTCACACTTGACATGATTGACAAAAGGTCTGAAATGCTTCATCTATGGTCTGCTTTGCTACGAAAAAGA
ATTGGAGGGGTGCTTACAAAAATATGTAGAATGTAAAAAGATTGAACTATTTATATATATTTGAATTTAATTCAC
CAGCATGCCCTACTGTGCATGCCCTACTGTGTGCTGGGAGTGTGACAAGCTGGGAGGAGGCTGGGGTGCAGGGAGAG
GAGATGGAGCCAGGAGGTGGTGAAGTTTGCCAGGATGCAGGCAGAGCGCTACTTTTTGTGTTCCTGGGTCTGCTC
CACCCAACGGGTCTCCTCTTGCACGTTTCTGGAGATGGGTGTAAAGTATGCTGGAGCTTCTTAGCAGCAAGTGC
CAAGAGTTCCCTAATTATTAGGCTCATACAATTTTATTTTGCITTTTTTTTTTAAACCAACCATTAAAAACAATA
ACATCTCTAGATTTCCAGTTTATCTGGAAAAATCTGAAGGTCTGGCAACACGGGGCCTGCTTTCCAGTTGGAAT
TGGGCAGTGGTCATCCTCTTATCTAGGGCATATGAGCCCAAATTTGTTCCACCTCTCCCTGTTGTAATATTTGCC
CCGCCACCTTCAGTCATGGGTGTTACCTGCTGGCCCTGCAGGCATTTGGCTGAGTAATCACTGTGCTGGGGTGTG
GGTGATGGGGGAGGACAGTTCCTAGTTGGTCATCTCTGGACGTGAAAGGTGGTTGTCAAGTATTCCCATCTCCCC
AGCTGTTTGCAGTGTTCCTGCACGATGAACACCAGGAACCTGGGAAGTGAGAAGAACCCTGGGATGAAGTCATC
CTGCTGGAATGACCTGGCTTTTCCAGGCTGACTGCCACCCGCCCATGGGGAACCTATCTCCACTGCTATGGCCAGC
TATTTTTTTTCGAGCCAGGCTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCAATCACTGCACTGATCCTCC
CACCTCAGCCTACAAGTAGCTGGGACTACAGGCGTGCACCACCACGCCTAGCTAATTTCTAAAATTTTTTTGTAG
AGACGGTCTCTACAATCGCTTGAGCCCAGGCTGGTCTTAACTCCTGGACCCAAGCGATCCTCCTGTCTCGGCCT
CCCAAAGTGTGGGATTATGGGTGTGAGCCACCGTGTGGGCCTTTGCCCAGCTATTTTGATGCCCAGACCTGCT
TCACCTTTGTGTATGATGCCAGGGGGCTTCCCTGAGCTTGGTGTATTTTTTGTGTGTGTTTGTTTTTTAAGTTGGG
AGTTTTTGGGGAAAAAAATTTTTCTCCTGACATTCAATGCCAGACAACTTATATGCATCCACTAGCTACCCCGGA
TTGTAAATCCTAGGTTATTCTTGGGAAAAGTTGCTTTAAAAAATAAATAAATGTTTGGGTAT

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FIGURE 3820

MAAGGSAPEPRVLVCLGALLAGWVAVAQG

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FIGURE 3821

AAAACAACAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCACGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG
CGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAGG
CCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCCGTCACCAAGTTGGGCCGCTTGGTCAAGGA
CATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCCATTAAGGAATCAGAGATCATTGATTTCTT
CCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCCAGCCAGCGCAC
CAGGTTCAAGGCGTTTGTGTGCTATCGGGGACTACAATGGCCACGTCCGTCTGGGTGTTAAGTGCTCCAAGGAGGT
GGCCACCGCCATCCGTGGGGCCATCATCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGGGGAA
CAAGATCGGCAAGCCCCACACTGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCC
TGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTCATGATGGCTGGTATCGATGACTG
CTACACCTCAGCCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGAC
CTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCA
CCTCGTTAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGATCCAGCTGTGGCTACAACATAGGGTTTTTA
TACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 3822

MADDAGAGGGGGGAGGPGGPGMGNRGAFRGGFGSGIRGRGRGRGRGQGCGARGGKAEDKEWMPVTKLGRLVKE
MKIKSLEEIYLFSLPIKESEIIDVFLGASLKDEVLKIMLVQKQTRAGQTRFKAFFAIGDYNHVGVLGVKCSKEV
ATAIRGAIILAKLSIVPVHRGYWGNKIGKPHTVPCKVTGRCGSVPARLIPAHGGTGIVSAPVPPKLLMMAGIDDC
YTSARGCTATLGNFAKATFDAISKTYSLTPNLWKETVFTKSPYQEFTDHLVKTHTRVSVQWTQAPAVATT

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FIGURE 3823

CGACTCGTCGCCATTCCCGGAGCAGGTCGGCCTCGGCCAGGGGCGAGTATCCGTTGCTGTGTCGGAGACACTAG
TCCCCGACACCGAGACAGCCAGCCCTCTCCCCTGCCTCGCGGCGGGAGAGCGTGTCCGGCCGGCCGGCCGGCGGG
GCTCGCGCAACCTCCCTCGCCTCCCCTTCCCCCGCAGCCTCCGCCCCGCCAGGCCCGGGCCGGACTCCCGAGCCC
CGGCCTCCTCGTCCCTCGGTTCGCCGCTGCCGCCGGGCTTAACAGCCCCGTCGCCCGCTTCTCTTCCCTAGTTTGAGA
AGCCAAGGAAGGAAACAGGGAAAAATGTGCCATGAAGGCCGAGAACCCTGCGCCGCCGACCCCCCGCCGGCCC
TGAACGCCATGAGCCTGGGTCCCCGCCGCCGCCGCTCCGCTCCGACTGCCGTCGCCGCCGAGGCCCGCCGTTGATG
CCGCTGAGCTCCCCCÀACGCCGCCGCCACCGCCTCCGACATGGACAAGAACAGCGGCTCCAACAGCTCCTCCGCC
TCTTCGGGCAGCAGCAAAGGGCAACAGCCGCCCGCTCCGCTCGGCGGGGCCAGCCGGCGAGTCTAAACCCAAG
AGCGAATTACTAATTTTCACTGGATTCAATTTGTTGTGCTAGTTGATTCTGTAGTAAGGCCATATGTTGCCCTCTG
GAGGTGCTTGTCAACTACTCTGGATGATGGATGGAAAGAACTCCAGTGGATCCAAGCGTTATAATCGCAAACGTG
AACTTTTCTACCCCCAAAAATGAAAGTTTTTAACAACCAAGTCCCGTCGCTCCAGTTCACAGAAAAGCAAGACTTTTA
ACAAGATGCCTCCTCAAAGGGGCGGCGGCAGCAGCAAACCTCTTTAGCTCTTCTTTTAATGGTGAAGACGAGATG
AGGTAGCAGAGGCTCAACGGGCAGAGTTTAGCCCTGCCAGTTCTCTGGTCCTAAGAAGATCAACCTGAACCACT
TGTTGAATTTCACTTTTGAACCCCGTGGCCAGACGGGTCACTTTGAAGGCAGTGGACATGGTAGCTGGGGAAAGA
GGAACAAGTGGGGACATAAGCCTTTTAACAAGGAACCTCTTTTACAGGCCAACTGCCAATTTGTGGTGTCTGAAG
ACCAAGACTACACAGCTCATTTTGTGATCCTGATACATTAGTTAACTGGGACTTTGTGGAACAAGTGCGCATTT
GTAGCCATGAAGTGCCATCTTGCCCAATATGCCTCTATCCACCTACTGCAGCCAAGATAACCCGTTGTGGACACA
TCTTCTGCTGGGCATGCATCCTGCACTATCTTTCACTGAGTGAGAAGACGTGGAGTAAATGTCCCATCTGTTACA
GTTCTGTGCATAAGAAGGATCTCAAGAGTGTTGTTGCCACAGAGTCACATCAGTATGTTGTTGGTGATACCATTA
CGATGCAGCTGATGAAGAGGGAGAAAGGGGTGTTGGTGGCTTTGCCCAAATCCAATGGATGAATGTAGACCATC
CCATTCACTTAGGAGATGAACAGCACAGCCAGTACTCCAAGTTGCTGCTGGCCTCTAAGGAGCAGGTGCTGCACC
GGGTAGTTCTGGAGGAGAAAGTAGCACTAGAGCAGCAGCTGGCAGAGGAGAAGCACACTCCCGAGTCTGCTTTA
TTGAGGCAGCTATCCAGGAGCTCAAGACTCGGAAGAGGCTCTGTGCGGATTGGCCGGAAGCAGAAGGGAGGTCA
CTGGTGTGTTGGTGTCTCTGGAACAACCTGGTGTGATGGCTCCCTTGCGGAAGGAGTCTGTTTTTCAACCCAGGA
AGGGTGTGCTGGAGTATCTGTCTGCCTTCGATGAAGAAACCACGGAAGTTTGTCTCTGGACACTCCTTCTAGAC
CTCTTGCTCTCCCTCTGGTAGAAGAGGAGGAAGCAGTGTCTGAACCAGAGCCTGAGGGGTTGCCAGAGGCCTGTG
ATGACTTGAGTTAGCAGATGACAATCTTAAAGAGGGGACCATTTGCACTGAGTCCAGCCAGCAGGAACCCATCA
CCAAGTCAGGCTTACACGCCTCAGCAGCTCTCCTTGTTACTACTTTTACCAAGCGGAAGATGGACAGCATATGT
TCCTGCACCCTGTGAATGTGCGCTGCCTCGTGC GGAGTACGGCAGCCTGGAGAGGAGCCCCGAGAAGATCTCAG
CAACTGTGGTGGAGATTGCTGGCTACTCCATGTCTGAGGATGTTTCGACAGCGTCACAGATATCTCTCTCACTTGC
CACTCACCTGTGAGTTGAGCATCTGTGAACCTGGCTTTGCAACCTCCTGTGGTCTCTAAGGAAACCCTAGAGATGT
TCTCAGATGACATTGAGAAGAGGAAACGTCAGCGCCAAAAGAAGGCTCGGGAGGAACGCCGCCGAGAGCGCAGGA
TTGAGATAGAGGAGAACAAGAAACAGGGCAAGTACCCAGAAGTCCACATTCCCCTCGAGAATCTACAGCAGTTTC
CTGCCTTCAATTCTTATACCTGCTCCTCTGATTCTGCTTTGGGTCCCACCAGCACCGAGGGCCATGGGGCCCTCT
CCATTTCTCCTCTCAGCAGAAGTCCAGGTTCCCATGCAGACTTTCTGCTGACCCCTCTGTACCCACTGCCAGTC
AGGGCAGTCCCTCATTCTGCGTTGGGAGTCTGGAAGAAGACTCTCCCTTCCCTTCCCTTTGCCAGATGCTGAGGG
TTGGAAAAGCAAAAGCAGATGTGTGGCCAAAACCTGCTCCAAAGAAAGATGAGAACAGCTTAGTTCCCTCCTGCC
CTGTGGACAGCGACGGGAGAGTGATAATTCAGACCGTGTTCCTGTGCCAGTTTTTCAAATTCCTTCAGCCAAG
CTATTGAAGCAGCCTTCATGAACTGGACACACCAGCTACTTCAGATCCCCTCTCTGAAGAGAAAGGAGGAAAGA
AAAGAAAAAACAGAAACAGAAGCTCCTGTTTCAGCACCTCAGTCGTCCACACCAAGTGA~~CA~~CTACTGGCCAGGC
TACCTTCTCATCTGGTTTTTGTGTTTTTGTGTTTTTCCCCCATGCTTTTGTGTTGGCTGCTGTAATTTTTAAGTA
TTTGAGTTTGAACAGATTAGCTCTGGGGGGAGGGGTTTCCACAATGTGAGGGGGAACCAAGAAAATTTTAAATA
CAGTGTATTTTCCAGCTTCTGTCTTTACACCAAATAAAGTATTGACACAAGAG

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FIGURE 3824

MMDGKNSSGSKRYNRKRELSYPKNESFNNQSRSSSQKSKTFNKMPPQRGGGSSKLFSSSFNGRRDEVAEAQRA
EFSPAQFSGPKKINLNHLLNFTFEPRGQTGHFEGSGHGSWGKRKNKGHKPFNKELFLQANCQFVVEDQDYTAHF
ADPDTLVNWDVFVEQVRICSHVPSCPICLYPPTAAKITRCGHIFCWACILHYLSLSEKTWSKCPICYSSVHKDL
KSVVATESHQYVVGDTITMQLMKREKGV LVALPKSKWMNVDHPIHLGDEQHSQYSKLLLASKEQVLHRVVLEEKV
ALEQQLAEEKHTPESCFIEAAIQELKTREEALSGLAGSRREVTGVVAALEQLVLMAPLAKESVFQPRKGVLEYLS
AFDEETTEVCSLDTPSRPLALPLVEEEEAVSEPEPEGLPEACDDLELADDNLKEGTICTESSQQEPITKSGFTRL
SSSPCYFYQAEDGQHMFLHPVNVRLVREYGLERSPEKISATVVEIAGYSMSDVRQRHRYLSHLPLTCEFSI
CELALQPPVVSKETLEMFSDDIEKRKRQRQKKAREERRRERRIEIEENKKQKGYPEVHIPILENLQQFPAFNSYTC
SSDSALGPTSTEGHGALSISPLSRSPGSHADFLLTPLSFTASQGSFSCVGSLEEDSPFPFAQMLRVGKAKADV
WPKTAPKKDENS LVPPAPVDSGESDSDRVPVPSFQNSFSQAIEAAFMKLDTPATSDPLSEEKGGKKRKKQKQK
LLFSTSVVHTK

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FIGURE 3825

GCCATGAACAGTGTGGGGGAGGCATGCACGGACATGAAGCGCGAGTACGACCAGTGCTTCAATCGCTGGTTCGCC
GAGAAATTTCTCAAGGGGGACAGCTCCGGGGACCCGTGCACCGACCTCTTCAAGCGCTACCAGCAGTGTGTTTCAG
AAAGCAATAAAGGAGAAAGAGATTCCTATTGAAGGACTGGAGTTCATGGGCCATGGCAAAGAAAAGCCTGAAAAT
TCTTCTTGACCTTGACAGTCACCTTGAAGGATTTGCGCAAGTCCAGAAATTGAGGACTCTGGATTTTTGTCAACTA
ACTCTGTGAACATAGCCATCAGATTTGATGAGGAACCTTAGGAGAGAGGAGTTTTATTTCTCCTTCGATGTTTTC
CTCTCAGTTGTAAAAGATGAACTCTTTGAGATGATTTCTCACCTGCTGTGGTATCTTGCAGGAACCTGTGTGCTAA
AATTGAACAATTTTTTTGAGATTATGGTTGCAATACTTGGCGTGGAAATCAGCTTTACATAAAATATACCTTGTATG
CAAACGATGATAAACTAGTCAGGATGAGCAGAGCTGCCTGACCTCTTGATTTCTGCTGCAAAAGACATATACACT
GTACTGGGGTCACTATTTATGAAAGCAATTGGTTAGGACCTCTTTTTTTCTCTCAGGGAACTAATGCTCTGAAA
AGGGATCTGGGCACAACAGTTTCAGTGAGTGCTTTTGAGCACACTTTTATTTTTATATAGTAACTAATGGTTAAG
ATTGATGGTGGCCTGGATTAGCAAAGAGGAAGACAGCTTTTAAACACAGTTCCTGCCTTCACAAGAGGTGTCAGA
TTAAGATGTGAAAAGCTGCAAGAATGTTGCAGTGAACACCATTTTCAGAGCTCTCAGTGTGCAGTTCAGGAATTAAG
ATACTTGGAATAGCTGTGGAGGAAGAACCTAAATTGCAAAGATCTGCTATTGCCAGCTCTCAACCCAAGTCAGTG
AATTGTCAACCTGCATATCCTAAAAATGTCAAATGCTGCATCTGGTTAAATGTCGGGGTAGGGGGGAAGCTGAA
GGTGCTCGCTTCATTTGCCTTGTTTACTCATCCTGCCCTGTAATGTCTGTAATCCTGAAGATGGAATAAATTGTA
ACATTTAGTTTCTATCATT

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FIGURE 3826A

GGCATGGATGGTAGAGAGGGGAGCTGGCACTTGAACCTCAGGTCTGGCTCGACCTCAGAATGAGTGATCTTGTGTCTCTGTGCCCCAGGACTGCATCCTCTCACCAATACTTCACCAGCCTAGGGATCTGTGCTCCCAAGAGCCTGTTGACATTGTAAACCTGAATCCAATCCATAAACCAAAAGCCCAGGCTTAGAATCACATTGTGGTGGAGCGGGTGTGTTGGTGGAGTCCCTGATTCAAAATGTTTGACAAGGAAGCCTGACCATTGTCTTCTGTTGGGTGTTTGGAGTCCAAGAGACCTGAGATCAGAGTCCAGCATTGTCACTTCATCCAGCCTTGGCAGTGTGGGATGTGACTCTGCCTCTGAACCGCATTTATACCATCTGTGCTGGTGGCGTTGTGAGGATGGCAGGTAACAAAGACGCCCTGCTGGCGGACTTGGAGTCTACACCTCCCACATCTCCAAACGGCCTGTGTTCTTGTCTGGAGGAGACCCCCCTACTCATACCCAACTGGAAACCACACATACCAGGAGATTGCCGTGCCACCCCCCGTCCCCCACCCTCCAGCGAGGCCCTCAATGGCACAATCCTTGACCCCTTAGACCAGTGGCAGCCCAGCAGCTCCCGATTTCATCCACCAGCAGCCTCAGTCCTCATCACCTGTGTACGGCTCCAGTGCCAAAACCTTCCAGTGTCTCCAACCCTCAGGACAGTGTGGCTCTCCGTGCTCCCGAGTGGGTGAGGAGGAGCACGTCTACAGCTTCCCCAACAGCAGAAATCAGCTGAGCCTTCACCCACCGTAATGAGCACGTCCCTGGCAGCAACCTTTCTGAACTCGACCGCTGTGCTGGAAGTGAACGCTGTACAGCATAACCCGCCAGGCTTCCCTGCAGATGAGGCCAACTCAAGCCCCCGCTTCCCTGGGGCCCTGAGCCCCCTCTATGGTGTCCAGAGACTAACAGCCCTTGGGAGGCAAAGCTGGGGCCCTGACGAAAGAGAAGCCTAAGCGGAATGGGGGCCGGGGCCTGGAGGACGTGCGCCCCAGTGTGGAGAGTCTCTTGGATGAACTGGAGAGCTCCGTGCCAGCCCCGTCCCTGCCATCACTGTGAACAGGGCGAGATGAGCAGCCCGCAGCGCTCACCTCCACCCAACAGCAGACACGCATCTCGGCCTCCTCTGCCACCAAGGAGCTGGACGAGCTGATGGCTTCGCTGTCTCGATTTCAGGGCTCCTGGCCCCCTGGAGGAGTTGTACTTCTTGCTCCATCAGCTCATCTGTCCAGGAGGGAGAAAAGTACCCCCATCCCTGTGCTGCCAGACACCGTACCCCCGAGCTCAGGAGTCTTGACCAGCCCCCTCCGTGTCCACAGTTCATGGCCCAGGGGAAGACAGGGAGCAGCTACCCCCCTGGGGGCCCGGAAGCCCCGGGAGCCAGCTGGACAGCATGCTGGGGAGCCTGCAGTCTGACCTGAACAAGCTGGGGTCGCCACAGTCGCCAAAGGAGTCTGCGGGGCCTGCAAGAAGCCCATCGCCGGGCAGGTTGTGACCGCCATGGGGAAGACGTGGCACCCCCGAGCACTTCGTCTGCACCCACTGCCAGGAGGAGATCGGATCCCGGAACCTTCTTCGAGCGGGATGGACAGCCCTACTGTGAAAAGGACTACCACAACCTCTTCTCCCCGCGCTGCTACTACTGCAACGGCCCCATCTGGATAAAGTGGTGACAGCCCTTGACCGGACGTGGCACCCCTGAACACTTCTTCTGTGCACAGTGTGGAGCCTTCTTTGTGTCGCCGAAGGGTTCCACGAGAAGGACGGCAAGGCCTACTGTGCAAGGACTACTTCGACATGTTTCGCACCCAAGTGTGGCGGCTGCGCCCGGGCCATCCTGGAGAAGTATATCTCAGCCCTCAACACGCTGTGGCATCCTGAGTGCTTTGTGTGCGGGAATGCTTCACGCCATTCTGTGAACGGCAGCTTCTTTCGAGCACGACGGGCAGCCCTACTGTGAGGTGCACTACCACGAGCGGCGCGGCTCGCTGTGTTCTGGCTGCCAGAAGCCCATCACCGCGCGCTGCATCACCGCCATGGCCAAGAAGTTCCACCCCCGAGCACTTCGTCTGTGCCTTCTGCCTCAAGCAGCTCAACAAGGGCACCTTCAAGGAGCAGAACGACAAGCCTTACTGTGCAAGTGTTCCTCAAGCTCTTCTGCTAGGTGCCCTGCCCTGTCTCTGCCCCCCTTCCCCAGCCAGCATCCCCAACTGCGACTGTGACCTAGAGACTTCACCCGGGGTGAAGGGGTAAACCCGACTGAAACTGGAACCCCTGTCTCCGTGGTGGGATGGACAGAGGGCCGTGAGGGGTCCCCCTGCTTGTCTTCACCCCTGCCAGAGCCTCTGGGCCCCCTCCTCCCTCCTGTAGCTCTCCCTAGGCTGCCACTCTCCATCCTCCCCAGGGTAGAGGTGGGGCTCCACCCAGCCCATGTACGTCCCCACGAAGTGGCTGGCCAGCACCCACACTGGAGCCATCTCTTCTCATATTTACAGAGTGCAGCCGGGGGAGGGAAGGGCAGGCAGGGTCTGTTGGGGTCTCTTTTATCCTTATTCTCCCCGACCTAATTGCTTTGTTCTGTGATTATTGGGGGACACCCGGCTCCCTCCAGACAATGCCAGCATAAATCCATCCATCCAAAGGCAGAGAACCAAGGGGCCATGGAAGGTTCTCTGTGCTCCTCCTACCCTTCCAGTGCCCTAGGCCTGGCGACTGCCCTGCCTTTTAGACCGCCCTCCCCTTTTATACCTGCTCTTGTCTACTGAGAAAAGCCTCTCCAGCAATAATGTTTCTAGTCACTTCCTCCGTCTCCGGGACGGCGTGCCTGGACACTGTACCGACTTTGATAGATTTCTACACTGAGGTTTGAATTCATATCGCCTGAGTTGCTTTTACTTCTCTATACAAAATGATTTTGAAGAGATTTTAAAGACGTTCCCTTTTGTATTCTCTTCCCTCATCCACCGCCACTGGGCCTGTCACTGATGTGGCTCTGGTGTGAAGTTTGTCTTGTACTGAGGGTTGGGGTGGGGAAGCAATTTGTATTTTATTGTTTCTTAGCAACAGCAGGTGAAGTGGGAGCAGCTCTGTGACTCCCCCTCTTCACTTCATAGCTCACCAGGACTGTTTTATAAACTGCTGTATTTGGAAACCCCTTCTTTACTTCCCAGGCCAGCAAGCTCTTCACTGAAACTGGTTGAAGGGTGTGCAACCCCTTTGGGCCTAGAATTCTGAACTTTATCTGTTCTGTTTCTGTGGGAGGAGAAGGGGAAGTATGTTTTGGGGGGCTGCTTCCCTGTCTGAGTAAGCCCTCAGGAGCCTCTGCTCCCCCTGTGAACCCACTGAACCTTCTGAGCCCCACATGCTTCTATGGGGCTCTCTTCTTCTGCCTTCTCAGGAAAGCTGGTGTCTGATTTTGGCCATCAGGACTCTGACGCTCTTTTGGTCTTGTGATTTCCTCTGGGCATATCCCTTCCCAGATCTGCTCCTCCCCTTTCACAGGTGGGATCGG

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FIGURE 3826B

CACTCAGGGGGTCTGGAAAGAAGGTCATAAGGGAGCATGATAGGATTTGGGGCAGAGGGACAGGCTCCTCTGGGG
AAACCCCCCAGAGCTCTTTACCAAGGATGAAAGAGGAGCCAGGCCTTGGGCTCCTGATGAGGAGAAAGGGGCCCC
ACCGGGGTCTAATGGTGACAGTCCAAACCACTCCACTGGCCTCCTGGCAGAAGCCGAGTGTGCTGGGGTCTCCGA
AGAGGGTCCCTCCTTTTTGGGGGAAGGTCAGCCCAGCCCCCTCCAAAGGTCTGATGTCTCCACTTTCACCCGCAGG
CCTTACCGCTCTGTTTATAGTGACCCACCCTAGATCTTCCCCAAGAGGGACTGGGGTTTCTGGGGTCCATTCTCT
GAGTCAGTGGTTATTTGAAAATTTGATTTTGATTTTATTTTTTCTCTGTAAACTTCCAAGCTGGCTTTTCCCAT
TCAATTCCTGTGATTTATGCCAATAAAGTTTGCCCATG

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FIGURE 3827

CCTTCTCTCGCCAGGCGTCCTCGTGGAAGTGACATCGTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCCG
TG**ATG**CCCAGGGAAGACAGGGCGACCTGGAAGTCCAACACTTCTTAAGATCATCCAACACTATTGGATGATTATC
CGAAATGTTTCATTGTGGGAGCAGACAATGTGGGCTCCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGA
AGGCTGTGGTGTGATGGGCAAGAACACCATGATGCGCAAGGCCATCCGAGGGCACCTGGAAAAACAACCCAGCTC
TGGAGAACTGCTGCCTCATATCCGGGGGAATGTGGGCTTTGTGTTTACCAAGGAGGACCTCACTGAGATCAGGG
ACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCCTGCTGGTGCCATTGCCCATGTGAAGTCACTGTGCCAG
CCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCTTTAGGTATCACCCTAAAATCTCCAGGG
GCACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGC
TGAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCATCCAGCAGGTGTTTCGACAATGGCAGCATCTACA
ACCCTGAAGTGCTTGATATCACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTG
TCTGTCTGCAGATTGGCTACCCAACCTGTTGCATCAGTACCCCATTTCTATCATCAACGGGTACAAACGAGTCCTGG
CCTTGCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCT
TTGTGGCTGCTGCCCCTGTGGCTGCTGCCACCACAGCTGCTCCTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAG
CCAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTGGTCTCTTTGAC**TAA**TACCAAAAAAGCAACCAAC
TTAGCCAGTTTTATTGCAAAACAAGGAAATAAAGGCTTACTTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3828

MPREDRATWKSNYFLKIIQLLDDYPKCFIVGADNVGSKQMQQIRMSLRGKAVVLMGKNTMMRKAIRGHLENNPAL
EKLLPHIRGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTKISRG
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSFGLVIQQVFDNGSIYNPEVLDITEETLHSRFLEGVRNVASV
CLQIGYPTVASVPHSIINGYKRVLALSVETDYTFPLAEKVKAFLADPSAFVAAAPVAAATTAAPAAAAAPAKVEA
KEESESEDEDMGFGLFD

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FIGURE 3829

AGGCCCGGGACCGCGGGATGGGTGTCGGCGTGACCAGGCCTGAGCTCCCTGTCTCTCCTCAGTGACATCGTCTTT
AAACCCTGCGTGGCAATCCCTGACGCACCGCCGTG**ATG**CCCAGGGAAGACAGGGCGACCTGGAAGTCCAACACTACT
TCCTTAAGATCATCCAACATATTGGATGATTATCCGAAATGTTTCATTGTGGGAGCAGACAATGTGGGCTCCAAGC
AGATGCAGCAGATCCGCATGTCCCTTCGCGGGAAGGCTGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGG
CCATCCGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAAACTGCTGCCTCATATCCGGGGGAATGTGGGCTTTG
TGTTACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCCGTGCTG
GTGCCATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCCGAGAAGACCTCCTTTTTCC
AGGCTTTAGGTATCACCCTAAAATCTCCAGGGGCACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTG
GAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCTGAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTCA
TCCAGCAGGTGTTTCGACAATGGCAGCATCTACAACCCTGAAGTGCTTGATATCACAGAGGAACTCTGCATTCTC
GCTTCCTGGAGGGTGTCGCAATGTTGCCAGTGTCTGTCTGCAGATTGGCTACCCAAGTGTGCATCAGTACCCC
ATTCTATCATCAACGGGTACAAACGAGTCCTGGCCTTGCTGTGGAGACGGATTACACCTTCCCCTTGCTGAAA
AGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGTGGCTGCTGCCCCCTGTGGCTGCTGCCACCACAGCTGCTC
CTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAGCCAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTG
GTCTCTTTGAC**TAA**TCACCAAAAAGCAACCAACTTAGCCAGTTTTATTGCAAAACAAGGAAATAAAGGCTTACT
TCTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 3830

MPREDRATWKSNYFLKIIQLDDYPKCFIVGADNVGSKMQQIRMSLRGKAVVLMGKNTMMRKAIRGHLENNPAL
EKLLPHIRGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTKISRG
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSGGLVIQQVFDNGSIYNPEVLDITEETLHSRFLEGVRNVASV
CLQIGYPTVASVPHSIINGYKRVLALSVEIDYTFPLAEKVKAFLADPSAFVAAAPVAAATTAAPAAAAAPAKVEA
KEESESEDEDMGFGLFD

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FIGURE 3831

GGCACGAGGAAGCGGTTGGGAAAGTGTCTGGTTTATCTTCGCGCCCCCTTGCCTTCTTGCCGCGGCTTGCTGGGCA
GGTAAAGCGCGATTGCGAGAGCTCGGCAACCCTGCCGACTCAGCCGGAACCGGCTCCCGGCCCCGAGGGGCGTGGT
GTCCTGGTGCTCCGACTCCTTCCGCAGGCTCCTTGGGACCCGCGGTTCCGGGAGTCCCTTGCTCAGGGTCCCTTT
CCTGCAGTGAGGCGCCGTCCGCCTTCCCTGTGTCCCCGCAGACCCCCATC**ATGGG**CAATACCAGCAGTGAGCGCG
CCGCGCTGGAGCGGCATGGTGGCCATAAGACGCCCCGGAGGGACAGCTCGGGGGGCACCAAGGACGGGGACAGGC
CCAAGATCCTGATGGACAGCCCCGAAGACGCCGACCTCTTCCACTCCGAGGAAATCAAGGCACCAGAGAAGGAGG
AATTCCTGGCCTGGCAGCATGATCTGGAAGTGAATGATAAAGCTCCCGCCCAGGCTCGGCCAACGGTGTTCGAT
GGACGGGGGGCGGAAAGGAAGTTTACTTATCTGGGTCTTCAACAACCTGGAGTAAACTTCCCCCTCACCAGAAGCC
ACAATAACTTTGTAGCCATCCTGGATCTGCCGGAAGGAGAGCATCAGTACAAGTTCTTTGTGGATGGTCAGTGGA
CGCACGACCCTTCCGAGCCCATAGTAACCAGCCAGCTTGGCACAGTTAACAACATCATTCAAGTGAAGAAAAGT
ACTTTGAAGTATTTGATGCTTTAATGGTGGATTCCCAAAAGTGCTCCGATGTGTCTGAGCTGTCCAGTTCTCCCC
CAGGACCCTACCATCAGGAGCCCTACGTCTGCAACCCGAAGAGCGCTTTCGGGCACCCCCTATTCTCCCCCCAC
ATCTCCTCCAGGTCATCCTGAACAAGGACACGGGGATTTCTGTGATCCAGCTTTGCTTCTGAGCCCAATCACG
TCATGCTGAACCACCTATACGCGCTGTCTATCAAGGATGGAGTGATGGTGCTCAGCGCAACCCACCGGTACAAGA
AGAAGTACGTCACACCTTGTATACAAGCCCATAT**TGA**AGAGCTGGGGGCGGATGGTGGCCCAGGAGACAGCACA
CCACCAGGCTCCACACGTGCATGCTTTCCCAAGAGGGAATGGACTGTACATTGCTCATTTACACTCTTCAGAA
GACATTTTCATACCTGCCCTGGTCTGCTTGAAGGTTTGTCCAGGCAGAGCAGCTCCTGCAGCGCCTCGGTCTGTG
ACAGTCTCCTAGCACCCCCATGGCTTTGAGCCTCGGGGACTCATCAAGTCCAAGAAAAGAGGGAGGGGTGGCAG
AGGATCTGCAGCCCTGGCCCCGCGGTGCATGAGGCTGGGTGCAGTTCTAAACCTACATTCTCGATTTTTCTTAAG
CCAAAATGAATGCTAACTCCTTTGCCAGTAAAATTCTGGGAAACAGGGACTGAGGCCACACATCATTTCCAGTC
ATCTGTGTGTTTTTAAGGCCAGCCACTTGTCCCTGTTGAGGCCTGGCTATGGAACTAAATACAGTGTTGGTCTTG
CCTGTCCTTCAAAATCAACAACAGATTGTCTCTCGGCTCCAGGGAGGTGTCAATTTCTATAGAAATTAGAAGCTTT
CTGATTTCTAGATGAGGTTTTACAATTGTTTCTTACAGTCATGTGCACTAAGTACTCTTTTTTGTAGCAGAGGTG
GCTGGCTCTGCAGCCTTAAGGCCATTTTTTAAGTCACCACGTCTAGAAGTCACATGAACTCTGCTCAGCAATAAT
CTGTTCTCAGAACAGACTTTTCAACCTGCTGCCGATTCTCCATTACAGCTGGATGATCCTCAGGACTGACCAGT
TAGCTGGCAGGTTGTCCAGCTTTTTATTCCAGTCATAATAGGTGACAGTGTTAACCGTGAAAACCTTGAGAGGCAC
TCTGCCCTCTTCCCTATAAAATCACACAGCGTGATTTTACAAGGTCCCGTGGCACCTTGCTCAGGACCTCTGCCC
CTAGTTAGCAAGACTGCAGCAGTTGCTGTTGCTTATTCTGAAAGGAATGTAGAACTTGACAGCAGCCTTCTGAGT
CTGGGTGAGGAAGATGTCCTTTGGACCAAAGCAGACTTCTGTATACGCAGCTCAGTTTCCCGGGAGTCGCCACAG
ATGTACCCACTAGCCCAGGTTGCTGTGAGTCAGCGGAAGCTCCCGTTATGCCCTTTGCTCCTGGTGGGAGAGGGA
GGAGTGAGCTCCCTGGGTTCCAGTATTTACTTGGTATACCTGAGTTTGGGGGTACCCTTTTTGTGACTTTTCAA
AACAGTGAATTACTGTCACCTTGATGGACAAGTTTCAATAAAACCTTTGTAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 3832

MGNTSSERAALERHGGHKTPRRDSSGGTKDGRPKILMDSPEDADLFHSEEIKAPEKEEFLAWQHDLEVNDKAPA
QARPTVFRWTGGGKEVYLSGSFNNWSKLPLTRSHNNFVAILDLPEGEHQYKFFVDGQWTHDPSEPIVTSQLGTVN
NIIQVKKTD FEVFDALMVDSQKCDVSELSSPPGPYHQEPYVCKPEERFRAPPILPPHLLQVILNKDTGISCDP
ALLPEPNHVMLNHLYALSIKDGVMVLSATHRYKKKYVTILLYKPI

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FIGURE 3833

GTTCCGGGAGTCCCTTGCTCAGGGTCCCTTTCTCTGCAGTGAGGCGCCGTCCGCCTTCCCTGTGTCCCCGCAGACC
CCCATCATGGGCAATACCAGCAGTGAGCGCGCCGCGCTGGAGCGGCATGGTGGCCATAAGACGCCCCGGAGGGAC
AGCTCGGGGGGCACCAAGGACGGGGACAGGCCCAAGATCCTGATGGACAGCCCCGAAGACGCCGACCTCTTCCAC
TCCGAGGAAATCAAGGCACCAGAGAAGGAGGAATTCTTGGCCTGGCAGCATGATCTGGAAGTGAATGATAAAGCT
CCCGCCCAGGCTCGGCCAACGGTGTTTCGATGGACGGGGGGCGGAAAGGAAGTTTACTTATCTGGGTCCCTTCAAC
AACTGGAGTAAACTTCCCCCTCACCAGAAGCCACAATAACTTTGTAGCCATCCTGGATCTGCCGGAAGGAGAGCAT
CAGTACAAGTTCTTTGTGGATGGTCAGTGGACGCACGACCCCTTCCGAGCCCATAGTAACCAGCCAGCTTGGCACA
GTTAACAACATCATTCAAGTGAAGAAAAGTGAAGTATTTGATGCTTTAATGGTGGATTCCCAAAAGTGC
TCCGATGTGTCTGAGCTGTCCAGTTCTCCCCCAGGACCCCTACCATCAGGAGCCCTACGTCTGCAAACCCGAAGAG
CGTTTTCGGGCACCCCTATTCTCCCCCCACATCTCCTCCAGGTCATCCTGAACAAGGACACGGGGATTTCCTGT
GATCCAGCTTTGCTTCTTCTGAGCCCAATCACGTATGCTGAACCACCTATACGCGCTGTCTATCAAGGATGGAGTG
ATGGTGCTCAGCGCAACCCACCGGTACAAGAAGAAGTACGTCACCACCTTGTATACAAGCCCATATGAAGAGCT
GGGGGCGGATGGTGGCC

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FIGURE 3834

ATGGCCAGCGTCCACGAGAGCCTCTACTTCAATCCCATGATGACCAATGGGGTTGTGCACGCCAATGTGTTCCGGC
ATCAAGGACTGGGTGACGCCGTACAAGATCGCGGTGCTGGTGCTGCTGAACGAGATGAGCCGCACAGGCGAGGGC
GCCGTACGCCCTCATGGAGCGGCGGAGGCTCAACCAGCTGCTCCTGCCCTGCTGCAGGGCCCAGATATTACACTG
TCAAACTTTTACAAGTTAATTGAAGAGTCTTGTCCACAGCTGGCAAATTCAGTGCAGATCAGAATCAAACCTGATG
GCTGAAGGCGAGTTGAAGGATATGGAACAGTTTTTTGATGACCTTTCAGATTCTTTCTCTGGAACCTGAACCAGAG
GTTCAAAAACAAGTGTAGTAGGTTTGTTCGTGCGTCACATGATCTTGGCCTACAGTAAGCTTTCTTTTCAGCCAA
GTGTTTAAACTGTACACTGCCCTTCAGCAGTACTTCCAGAATGGTGAGAAAAAGACAGTGGAGGATGCTGATATG
GAACTGACCAGTAGAGATGAGGGTGAAAGAAAAATGGAAGAAAGAACTTGATGTATCTGTAAGAGAAGAGGAG
GTATCTTGCAAGTGGGCCTCTGTCCCAAAAACAAGCAGAATTTTTTCTTTCTCAACAGGCTTCTTTGCTAAAGAAT
GATGAGACTAAGGCCCTCACTCCAGCTTCCTTGCAAGGAATTAACAATTTGTTGAAATTTAATCCTGATTTT
GCTGAAGCGCATTATCTCAGCTACTTAAACAACCTCCGTGTCCAAGATGTTTTCAGTTCAACACACAGTCTCCTC
CATTATTTTGATCGTCTGATTCTTACCGGAGCCGAAAGCAAAAGTAATGGGGAAGAGGGCTATGGCCGGAGCTTG
AGATACGCCGCTCTGAATCTTGCCGCCCTGCACTGCCGCTTCGGTCACTATCAACAGGCAGAGCTCGCCCTGCAG
GAGGCAATTAGGATTGCCAGGAGTCCAACGATCACGTGTGTCTCCAGCACTGTTTGAGCTGGCTTTATGTGCTG
GGGCAGAAGAGATCCGATAGCTATGTTCTGCTGGAGCATTCTGTGAAGAAGGCAGTACATTTGGGTTACCGTAC
CTCGCCTCCCTGGGAATACAGTCCCTTGTTCAACAGAGAGCTTTTGCTGGGAAGACGGCAAACAAGCTGATGGAT
GCCCTAAAGGACTCCGACCTCCTGCACTGGAAACACAGCCTGTGAGAGCTCATCGATATCAGCATCGCACAGAAA
ACGGCCATCTGGAGGCTGTATGGCCGCAGCACCATGGCACTGCAACAGGCCCAGATGTTGCTGAGCATGAACAGC
CTGGAGGCGGTGAATGCGGGCGTGCAGCAGAACAACACAGAGTCCTTTGCTGTCGCACTCTGCCACCTCGCAGAG
CTACACGCGGAGCAGGGCTGTTTTGCTGCAGCTTCTGAAGTGTTAAAGCACTTGAAGGAACGATTTCCGCCTAAT
AGTCAGCACGCCCAGTTATGGATGCTATGTGATCAAAAAATACAGTTTGACAGAGCAATGAATGATGGCAAATAT
CATTTGGCTGATTCACTTGTTACAGGAATCACAGCTCTCAATAGCATAGAGGGTGTTTATAGGTAAG

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FIGURE 3835

GCCTGGGACTGTGTCTGTGCGCCATGGCCGCGGCTGCTCGCCCGGGCCTCGGGCCCTGCCCCGAGAGCTCTCT
GTCCTAGGGCCTGGCGGCAGTTACACACCATCTACCAGTCTGTGGAAGTGGCCGAGACACACCAGATGTTGCTCC
AGACATGCCGGGACTTTGCCGAGAAGGAGTTGTTTCCCATTCAGCCCAGGTGGATAAGGAACATCTCTTCCCAG
CGGCTCAGGTGAAGAAGATGGGCGGGCTTGGGCTTCTGGCCATGGACGTGCCCGAGGAGCTTGGCGGTGCTGGCC
TCGATTACCTGGCCTACGCCATCGCCATGGAGGAGATCAGCCGCGGCTGCGCCTCCACCGGAGTCATCATGAGTG
TCAACAACCTCTCTTACCTGGGGCCCATCTTGAAGTTTGGCTCCAAGGAGCAGAAGCAGGCGTGGGTACGCCTT
TCACCAGTGGTGACAAAATTGGCTGCTTTGCCCTCAGCGAACCAGGGAACGGCAGTGATGCAGGAGCTGCGTCCA
CCACCGCCCGGGCCGAGGGCGACTCATGGGTTCTGAATGGAACCAAAGCCTGGATCACCAATGCCTGGGAGGCTT
CGGCTGCCGTGGTCTTTGCCAGCACGGACAGAGCCCTGCAAAACAAGGGCATCAGTGCCTTCCTGGTCCCCATGC
CAACGCCTGGGCTCACGTTGGGGAAGAAAGAAGACAAGCTGGGCATCCGGGGCTCATCCACGGCCAACCTCATCT
TTGAGGACTGTGCGATCCCCAAGGACAGCATCCTGGGGGAGCCAGGGATGGGCTTCAAGATAGCCATGCAAACCC
TGGACATGGGCCCGCATCGGCATCGCCTCCCAGGCCCTGGGCATTGCCAGACCGCCCTCGATTGTGCTGTGAACT
ACGCTGAGAATCGCATGGCCTTCGGGGCGCCCCCTCACCAAGCTCCAGGTCATCCAGTTCAAGTTGGCAGACATGG
CCCTGGCCCTGGAGAGTGCCCGGCTGCTGACCTGGCGTGCTGCCATGCTGAAGGATAACAAGAAGCCTTTCATCA
AGGAGGCAGCCATGGCCAAGCTGGCCGCTCGGAGGCCGCGACCGCCATCAGCCACCAGGCCATCCAGATCCTGG
GCGGCATGGGCTACGTGACAGAGATGCCGGCAGAGCGGCACTACCGCGACGCCCGCATCACTGAGATCTACGAGG
GCACCAGCGAAATCCAGCGGCTGGTGATCGCCGGGCATCTGCTCAGGAGCTACCGGAGCTGAGCCCGCGGCGGAC
TGCCCCAGGACTGCGGGAAGGCGCGGGAGCCAGGGGCCTCCACCCCAACCCCGGCTCAGAGACTGGGCGGCCCGG
CGGGGGCTCCCTGGGGACCCAGATGGGCTCAGTGCTGCCACCCAGATCAGATCACATGGGAATGAGGCCCTCCG
ACCATTTGGCAGCTCCGCCTCTGGGCCTTTCCGCCTCCTCACCACTGTGCCTCAAGTTCCTCATCTAAGTGGCCCT
GGCCTCCTGGAGGCGGGGTTGTGGGGGGGCTGAGCGACACTCAGGGACACCTCAGTTGTCCTCCCGCGGGCCCTG
GTGCCCTGGCATGAAGGCCAGTGCGACAGGCCCTTGGTGGGGTCTGTCTTTTCCTTGAGGTCAGAGGTCAGGAG
CAGGGCTGGGGTCAGGATGACGAGGCCCTGGGGTCTGGTGTGGGCAGGTGGTGGGGCTGGGCCATGGAGCTGGC
CCAGAGGCCCTCAGCCCTTTGTAAAGTCTGATGAAAGCAGGGGTGGTGATTTCATGCTGTGTGACTGACTGTGGG
TAATAAACACACCTGTCCCC

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FIGURE 3836

G TTCCTGAGGTGGGAGGCGGTACCCGTGGCTGAGAAGAAGGAGGCCTGAGAGCGACATGTCCCCGGCGGGCTCAGG
CGGAGCGGGCCCGTGGCGCTGTTTTCTGAGTCCGGGGTGGCCTGGCAGCCGGCCGAGGACGAGGGTCGGCGGGGG
CTGCCCCCGTGGTGGTGGCCGCCATGCTGGGAGCCTGGGCGGTTGAGGGAACCGCTGTGGCGCTCCTGCGACTGC
TGCTGCTGCTGCTGCCGCCGGCGATCCGGGGACCCGGGCTCGGCGTGGCCGGCGTGGCCGGCGCGGGGGGGCCG
GGCTGCCCCGAGAGCGTCATTTGGGCGGTCAACGCGGGTGGAGAGGCGCATGTGGACGTGCACGGGATCCACTTCC
GCAAGGACCCTTTGGAAGGCCGGGTGGGCCGAGCCTCAGACTATGGCATGAAACTGCCAATCCTGCGTTCCAACC
CTGAGGACCAGATCCTGTATCAAACCTGAGCGGTACAATGAGGAGACCTTTGGCTACGAAGTGCCCATCAAAGAGG
AGGGGGACTACGTGCTGGTCTTGAAATTTGCAGAGGTCTACTTTGCACAGTCCCAGCAAAGGTATTTGATGTAC
GATTGAATGGCCACGTCTGTGGTGAAGGACTTGGATATCTTTGATCGTGTGGGCATAGCACAGCTCACGATGAAA
TTATACCTATGAGCATCAGAAAGGGGAAGCTGAGTGTCCAGGGGGAGGTGTCCACCTTCACAGGGAAACTCTACA
TTGAGTTTGTCAAGGGGTACTATGACAATCCCAAGGTCTGTGCACTCTACATCATGGCTGGGACAGTGGATGATG
TACCAAATCTTCATTCCAACCCCTCTTCTGCCTCTGCCGGTTGTGAGAACAAATGACTATCCTGAACAGGGTGGAG
GGGTGTGGGAAAGAAACCAGCCATATTGGTTTTGGTTTCTGTATTTTTACAAATGATTAATGAACAAAAACAAAG
AGAAAAAACACACATCAATTAAAGGAGACAAAAAGAG

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FIGURE 3837

GGCACGAGGCATGGGCGGAGCCGTAGTTACGGTCGACTGGGGCGTCGTCCCTAGCCCGGGAGCCGGGTCTCTGGA
GTCGCGGGCCCGGGGTTACCGATGTCGACGAGGAAGCGAGGCAGAGCGGAGGCTCCTCGCAGGCCGGCGTCGTGA
CTGTCTAGCGACGTCCAGGAGCTGATGCGGGCGCAAGGAGGAGATAGAAGCGCAGATCAAGGCCAACTATGACGTGC
TGGAAAGCCAAAAAGGCATTGGGATGAACGAGCCGCTGGTGGACTGTGAGGGCTACCCCGGTCTCAGACGTGGACC
TGTACCAAGTCCGCACCGCCAGGCACAACATCATATGCCTGCAGAATGATCACAAGGCAGTGATGAAGCAGGTGG
AGGAGGCCCTGCACCAGCTGCACGCTCGCGACAAGGAGAAGCAGGCCCGGGACATGGCTGAGGCCACAAAGAGG
CCATGAGCCGCAAACTGGGTCTCAGAGTGAGAGCCAGGGCCCTCCACGGGCCCTTCGCCAAAGTGAACAGCATCAGCC
CCGGCTCCCCAGCCAGCATCGCGGGTCTGCAAGTGGATGATGAGATTGTGGAGTTCGGCTCTGTGAACACCCAGA
ACTTCCAGTCACTGCATAACATTGGCAGTGTGGTGCAGCACAGTGAGGGGAAGCCCCCTGAATGTGACAGTGATCC
GCAGGGGGGAAAAACACCAGCTTAGACTTGTTCCAACACGCTGGGCGAGAAAAGGACTGCTGGGCTGCAACATTA
TTCCTCTGCAAGATGATTTGTCCTGGGGAACAGTAACAGGAAAAGCATCTTCCCTTGCCCTGGACTTGGGCTCTAG
GGATTTCCAACCTTGTCTTCTCTCCCTGAAGCATAAGGATCTGGAAGAGGCTTGTAACCTGAACCTTCTGTGTGGTG
GCAGTACTGTGGCCACCAGTGTAATCTCCCTGGATTAAGGCATTCTTAAAACTTAGGCTTGGCCTCTTTCACA
AATTAGGCCACGGCCCTAAATAGGAATTCCCTGGATTGTGGGCAAGTGGGCGGAAGTTATTCTGGCAGGTACTGG
TGTGATTATTATTATTATTTTTAATAAAGAGTTTTACAGTGCTGATATGACCCTGTTGTACCCAGCTGAATTT
CTTATGACCCTCCCAAACCAAAGCTCAGATGGGGTCAGAAGAGCTTCATAGAAAGTTGGGCAAAACAGGCTAGCA
ATTGCAAAGTCAGGCTTTGACCAACATATTTCTTTGCACTGAGGCCTTGCTGCTGTGGATACGGAAATGGTTAAG
TACTGTGCTTCCCTCAGCAGCTGGGCTGTCAGGGCCATAGTAGCTCCCTTTGGAGAACAGGGAAAGCCTGGAGGCT
TCCCAGGTGGCCAGCGTGCTGCTGTCAGCTTCCCTTTAGGAACCCACCAGAGGGCAGCAAGCTCCTTTTCAC
TTCGCTAGTAAGAACCCCTCCGTTTTTGTGTGTTTTTGTGTTTTTGTGTTCTGGAGACAAGGTCTTGCTTTGTCACC
CAGGCTGGAGTGCAGTGTCTGATCAAGGTTCACTGAAGCCTTGACGCTGTGGGCACTGCCTCAGCCGCCCAAGT
ATCTGGGACCACAGGCGTGACCACCATGCATAGCTAATTTATTTTTTGTAGAGACAGGGTCTCCCTGTGTTGAC
CAGGTTGGTCTCGAACTCCTGGGCTCAAGCAGTCCTCCTGCCTTGGCCTCCTAAAGTGCTGGGATCACAGGCGTG
AGCCACTGCGCCAGCCCACTGCTAGTTTGACTTTTTATAATTGAACCTCCTGGCTATGCCCTGAGATCAGCGCT
ATTTTGTAACCGCTGAGGTATGGATAGGAACGAGTAGATCAGACCTCTTGAAAATGCTTATTCTTCCCTCTT
TATTTTTTGTCTCTTTTAAGATGGTAAATGGTTCTCAGGGATTCTTGCCAATACTTTGAATTATTTTTTCTCT
CCAATGGTATCAGTGTTTATTTCCCCAGTTCCTGCACACCGCTTTCTGTTTTTGGCAGTCTGCCAGGCAAGCCCTG
TGTTCCCTTGGGACTGGTTTTGCTGTGGTTGGATACAGATACCAGCTTGCCTTGATGGGATTGGTATTGCTGTGTG
CTTCCAGCCACAGGTTCTCACACTCAATTCCAAAGCCTTCTATTGGGCGAATTCCTCAAACCTCTATTTGACCT
GACAGCCATACGTATTTCCCTCTGGTAGCCACAGACATGCTGTGTTTACCAATGTTTGCTGTTTAAATTGCATGT
TCTAATTCCACGTATTTTCCAGTCTCTTTTATAAAGTCTCAGACTATAATAAACACAGCTTGCCAGTTAAAAAA
AAAAAAAAAAAA

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FIGURE 3838

MSDEEARQSGGSSQAGVVTVSDVQELMRRKEEIEAQIKANYDVLESQKGIGMNEPLVDCEGYPRSDVDLYQVRTA
RHNIICLQNDHKAVMKQVEEALHQLHARDKEKQARDMAEAHKEAMSRKLGQSESQGPPRAFAKVNSISPGSPASI
AGLQVDDEIVEFGSVNTQNFQSLHNIGSVVQHSEGKPLNVTVIRRGEKHQLRLVPTRWAGKGLGNCNIIPLQR

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FIGURE 3839

GTGCGTCTGGCGTCCGCGCGCTGCACAATGGCGGCTCTGAAGAGTTGGCTGTCGCGCAGCGTAACTTCATTCTTC
AGGTACAGACAGTGTTTGTGTGTTCTGTTGTGGCTAACTTTAAGAAGCGGTGTTTCTCAGAATTGATAAGACCA
TGGCACAAAACGTGTGACGATTGGCTTTGGAGTAACCTGTGTGCGGTTCTTATTGCACAGAAATCAGAGCCTCAT
TCCCTTAGTAGTGAAGCATTGATGAGGAGAGCAGTGTCTTTGGTAACAGATAGCACCTCTACCTTTCTCTCTCAG
ACCACATATGCGTTGATTGAAGCTATTACTGAATATACTAAGGCTGTTTATACCTTAACTTCTCTTTACCGACAA
TATACAAGTTTACTTGGGAAAATGAATTTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATCATAGGAGCCAGAGCT
GAGATGACTTCAAAACACCAAGAGTACTTGAAGCTGGAAAACCACTTGGATGACTGCAGTTGGTCTTTTCAGAGATG
GCAGCAGAAGCTGCATATCAAACCTGGCGCAGATCAGGCCTCTATAACCGCCAGGAATCACATTCAGCTGGTGAAA
CTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGGAAAGCAGAAACCAAGCTGGCAGAAGCACAGATAGAAGAGCTC
CGTCAGAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGAGCAGGAGGCCTACCTGCGTGAGGATTGAGGG
CCTGAGCACACTGCCCTGTCTCCCCACTCAGTGGGGAAAGCAGGGGCAGATGCCACCCTGCCCAGGGTTGGCATG
ACTGTCTGTGCACCGAGAAGAGGCGGCAGATCCTGCCCTGGCCAATCAGGCGAGACGCCTTTGTGAGCTGTGAGT
GCCCTCTGTGGTCTCAGGCTTGCGCTGGACCTGGTTCTTAGCCCTTGGGCACTGCACCCTGTTTAAACATTTTACC
CCACTCTGTACAGCTGCTCTTACCCATTTTTTTTTTACCTCACACCCAAAGCATTTTGCCTACCTGGGTCAGAGAGA
GGAGTCCTTTTTTGTCTATGCCCTTAAGTTTCAGCAACTGTTTAACTGTGTTTTCAGTCTTATTACGTCGTCAAAAAT
GATTTAGTACTTGTTCCTCTGTTGGGATGCCAGTTGTGGCAGGGGGAGGGGAACCTGTCCAGTTTGTACGATTT
CTTTGTATGTATTTCTGATGTGTTCTCTGATCTGCCCCACTGTCCTGTGAGGACAGCTGAGGCCAAGGAGTGAA
AAACCTATTACTACTAAGAGAAGGGGTGCAGAGTGTGTTACCTGGTGCTCTCAACAGGACTTAACATCAACAGGAC
TTAACACAGGCCTCTTGTTCCTTCCTTTCTTTCCGTTTCTCTATTGTATCCAAAGGAGAAGAGTGTAAGATTTTG
TTTGCATCTGAAAGAGAAAATGCGTCTCTCCTGG

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FIGURE 3840

MAALKSWLSRSVTSFFRYRQCLCVPVVANFKKRCFSELIRPWHKTVTIGFVTLCAVPIAQKSEPHSLSSSEALMR
RAVSLVTDSTSTFLSQTTYALIEAITEYTKAVYTLTSLYRQYTSLLGKMNSEEEDEVWQVIIGARAEMTSKHQY
LKLETTWMTAVGLSEMAAEAYQTGADQASITARNHIQLVKLQVEEVHQLSRKAETKLAEAQIEELRQKTQEEGE
ERAESEQEAYLRED

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FIGURE 3841A

GTGAGTCGCGCGGACGGAGCCGGACAAAAGCGGGCGGGCGGCAGGATGAACAGCATCAAGAACGTGCCGGCGC
GGGTGCTGAGCCGAGGCCGGGCCACAGCCTGGAGGCCGAGCGCGAGCAGTTGACAAAGACCCAGGCCATCAGCA
TCAGCAAAGCCATCAACACCCAGGAGGCCCGGTGAAGGAGAAGCACGCCCAGGCATCATTCTGGGCACACACC
ACGAGAAGGGGGCTTTACCTTCTGGTCTACGCCATTGGGCTGCCGCTGCCAGCAGCTCCATTCTCAGCTGGA
AGTTCTGCCACGTCTCTCCACAAGGTCTTTCGAGACGGGCACCCCAATGTGCTGCATGACTGCCAGCGGTACCGCA
GCAACATCCGGGAGATTGGAGACCTGTGGGACATTTGCATGACCGCTACGGACAGCTGGTGAATGTCTACACCA
AGCTGCTGCTGACCAAGATCTCCTTCCACCTCAAGCATCCCCAGTTTCCCGCGGGCCTGGAGGTGACAGATGAGG
TACTGGAGAAGGCAGCTGGGACCGATGTCAACAACATCTTCCAGCTCACTGTGGAGATGTTTGATTACATGGATT
GTGAGCTGAAGCTTTCTGAATCAGTTTTCCGACAGCTCAACACGGCCATCGCCGTATCCAGATGTCCTCAGGCC
AGTGCCGCTGGCCCCCTCATCCAGGTCACTCAGGACTGCAGCCACCTCTACCACTACACGGTCAAGCTCCTGT
TCAAGCTACACTCTTGTCTCCCTGCGGACACCTGCAAGGCCACAGGGACCGGTTCCACGAGCAGTTTTCACAGCC
TCAGGAACCTTCTTCCGACAGAGCCTCCGACATGCTGTACTTCAAGCGGCTCATCCAGATCCCCGGCTGCCCGAGG
GACCCCTAACTTCTTGCAGAGCCTCCGACATGCTGTACTTCAAGCGGCTCATCCAGATCCCCGGCTGCCCGAGG
CGGAAGATGAGGAGCCGGAGAATCTCATTTGAGATCAGCACAGGGCCCCCGCGGGGGAGCCAGTTGGTGGTGGCTG
ACCTCTTCGATCAGACGTTTGGACCCCCCAATGGGTCTGTGAAGGACGACAGGGACCTCCAGATTGAGAGCTTGA
AGAGAGAGGTGGAAATGCTCCGCTCTGAACTGGAGAAGATCAAGCTGGAGGGCCAGCGGTACATCGCGCAGCTGA
AGAGCCAGGTGAATGCACTGGAGGGTGAGCTGGAGGAGCAGCGGAAGCAGAAGCAGAAGGCCCTGGTGGATAATG
AGCAGCTCCGCCACGAGCTGGCCAGCTGAGGGCTGCCAGCTGGAGGGCGAGCGGAGCCAGGGCCTGCGTGAGG
AGGCTGAGAGGAAGGCCAGTGCCACGGAGGCGCGCTACAACAAGCTGAAGGAAAAGCACAGTGAGCTCGTCCATG
TGCACGCGGAGCTGCTCAGAAAGAACGCGGACACAGCCAAGCAGCTGACGGTGACGCAGCAAAGCCAGGAGGAGG
TGGCGCGGGTGAAGGAGCAGCTGGCCTTCCAGGTGGAGCAGGTGAAGCGGGAGTCGGAGTTGAAGCTAGAGGAGA
AGAGCGACCAGCTGGAGAAGCTCAAGAGGGAGCTGGAGGCCAAGGCCGGAGAGCTGGCCCCGCGCAGGAGGCC
TGAGCCACACAGAGCAGAGCAAGTCGGAGCTGAGCTCACGGCTGGACACGCTGAGTGCGGAGAAGGATGCTCTGA
GTGGAGCTGTGCGGCAGCGGGAGGCAGACCTGCTGGCGGCGCAGAGCCTGGTGCGCGAGACAGAGGCGGCGCTGA
GCCGGGAGCAGCAGCGCAGCTCCCAGGAGCAGGGCGAGTTGCAGGGCCGGCTGGCAGAGAGGGAGTCTCAGGAGC
AGGGGCTGCGGCAGAGGCTGCTGGACGAGCAGTTTCGAGTGTTCGCGGGCGCTGCTGCCGAGGCCGCGGGCATCC
TGCAGGATGCCGTGAGCAAGCTGGACGACCCCTGCACCTGCGCTGTACCAGCTCCCCAGACTACCTGGTGAGCA
GGGCCAGGAGGCCTTGATGCCGTGAGCACCTTGGAGGAGGGCCACGCCCAGTACCTGACCTCCTTGGCAGACG
CCTCCGCCCTGGTGGCAGCTCTGACCCGCTTCTCCCACCTGGCTGCGGATACCATCATCAATGGCGGTGCCACCT
CGCACCTGGCTCCACCGACCCCTGCCGACCGCCTCATAGACACCTGCAGGGAGTGCGGGGCCCGGGCTCTGGAGC
TCATGGGGCAGCTGCAGGACCAGCAGGCTCTGCGGCACATGCAGGCCAGCCTGGTGCGGACACCCCTGCAGGGCA
TCCTTCAGCTGGGCCAGGAAGTGAACCCAAAGAGCCTAGATGTGCGGCAGGAGGAGCTGGGGGCCGTGGTGCACA
AGGAGATGGCGGCCACATCCGACGCCATTGAAGATGCTGTGCGGAGGATTGAGGACATGATGAACCAGGCACGCC
ACGCCAGCTCGGGGTGAAGCTGGAGGTGAACGAGAGGATCCTCAACTCCTGCACAGACCTGATGAAGGCTATCC
GGCTCCTGGTGACGACATCCACTAGCCTGCAGAAGGAGATCGTGGAGAGCGGCAGGGGGGCAGCCACGCAGCAGG
AATTTTACGCCAAGAAGCTCGCGCTGGACCGAAGGCCTCATCTCGGCCTCCAAGGCTGTGGGCTGGGGAGCCACAC
AGCTGGTGGAGGCAGCTGACAAGGTGGTGCTTACACGGGCAAGTATGAGGAGCTCATCGTCTGCTCCCACGAGA
TCGCAGCCAGCACGGCCAGCTGGTGGCGGCCTCCAAGGTGAAGGCCAACAAGCACAGCCCCACCTGAGCCGCC
TGCAGGAATGTTCTCGCACAGTCAATGAGAGGGCTGCCAATGTGGTGGCCTCCACCAAGTCAGGCCAGGAGCAGA
TTGAGGACAGAGACACCATGGATTTCTCCGGCCTGTCCCTCATCAAGCTGAAGAAGCAGGAGATGGAGACCCAGG
TGCGTGCTCTGGAGCTGGAGAAGACGCTGGAGGCTGAACGCATGCGGCTGGGGGAGTTGCGGAAGCAACACTACG
TGCTGGCTGGGGCATCAGGCAGCCCTGGAGAGGAGGTGGCCATCCGGCCCAGCACTGCCCCCGAAGTGTAACCA
CCAAGAAACACCCCTGGCCCCAGAAGCCCAGCGTGGCCCCCAGACAGGACCACAGCTTGACAAAAGGATGGCA
TCTACCCAGCTCAACTCGTGAAGTACTAGGCCCCCAGGGGTCCAGCAGGGTGGCTGGTGACAGGCCTGGGCCTC
TGCAACTGCCCTGACAGGACCGAGAGGCCCTTGGCCCTCCACCTGGTGGCCAAGCCTCCCGCCCCACCGTCTGGAT
CAATGTCCTCAAGGCCCTGGCCCTTACTGAGCCTGCAGGGTCTGGGCCATGTGGGTGGTGCTTCTGGATGTGA
GTCTCTTATTTATCTGCAGAAGGAACCTTGGGGTGCAGCCAGGACCCGGTAGGCCTGAGCCTCAACTCTTCAGAA
AATAGTGTTTTTAATATTCTCTCAGAAAATAGTGTTTTTAATATTCCGAGCTAGAGCTCTTCTTCTACGTTT

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FIGURE 3841B

GTAGTCAGCACACTGGGAAACCGGGCCAGCGTGGGGCTCCCTGCCTTCTGGACTCCTGAAGGTCGTGGATGGATG
GAAGGCACACAGCCCGTGCCGGCTGATGGGACGAGGGTCAGGCATCCTGTCTGTGGCCTTCTGGGGCACCGATTC
TACCAGGCCCTCCAGCTGCGTGGTCTCCGCAGACCAGGCTCTGTGTGGGCTAGAGGAATGTCGCCCATTACTCCT
CAGGCCTGGCCCTCGGGCCTCCGTGATGGGAGCCCCCAGGAGGGGTCAGATGCTGGAAGGGGCCGCTTTCTGGG
GAGTGAGGTGAGACATAGCGGCCCCGGGCGCTGCCTTCACTCCTGGAGTGAGTTTCCATTTCCAGCTGGAATCTGC
AGCCACCCCCATTTCTGTGTTTTCCATTCCCCCGTTCTGGCCGCGCCCCACTGCCCACCTGAAGGGGTGGTTTTCCA
GCCCTCCGGAGAGTGGGCTTGGCCCTAGGCCCTCCAGCTCAGCCAGAAAAAGCCCAGAAACCCAGGTGCTGGACC
AGGGCCCTCAGGGAGGGGACCCTGCGGCTAGAGTGGGCTAGGCCCTGGCTTTGCCCCGTCAGATTTGAACGAATGT
GTGTCCCTTGAGCCCCAAGGAGAGCGGCAGGAGGGGTGGGACCAGGCTGGGAGGACAGAGCCAGCAGCTGCCATGC
CCTCCTGCTCCCCCCCACCCAGCCCTAGCCCTTTAGCCTTTACCCCTGTGCTCTGGAAAGGCTACCAAATACTGG
CCAAGGTCAGGAGGAGCAAAAATGAGCCAGCACCAGCGCCTTGGCTTTGTGTTAGCATTTCTCCTGAAGTGTTT
TGTTGGCAATAAAATGCACCTTTGACTGTTTGTGTTGTC

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FIGURE 3842

MNSIKNVPARVLSRRPGHSLAEREQFDKTQAISISKAINTEAPVKEKHARRIILGTHHEKGAFTFWSYAIGLP
LPSSSILSWKFCHVLHKVLRDGHPNVLHDCQRYRSNIREIGDLWGHLHdryGQLVNVYTKLLLTkISFHLKHPQF
PAGLEVtDEVLEKAAGTDVNNIFQLTVEMFDYMDCELKLSesVFRQLNTAIAVSQMSSGQCRLAPLIQVIQDCSH
LYHYTVKLLFKLHSCLPADTLQGHRDRFHEQFHSLRNFFRRASDMLYFKRLIQIPRLPEGPPNFLRASALAEHIK
PVVVIPEEAPeDEEPENLIEISTGPPAGEPVVVADLFDQTFGPPNGSVKDDRDQLIESLKREVEMLRSELEKIKL
EAQRYIAQLKSQVNALEGELEEQRKQKQKALVDNEQLRHELAQLRAAQLEGERSQGLREEAERKASATEARYNKL
KEKHSELVHVHAELLRKNADTAkQLTVTQQSQEEVARVKEQLAFQVEQVKRESELKLEEKSDQLEKLKRELEAKA
GELARAQEALSHTEQSKSELSSRLDTLSAEKDALSGAVRQREADLLAAQSLVRETEAALSREQQRSSQEQGELQG
RLAERESQEQGLRQRLLDQFAVLRGAAAEAAAGILQDAVSKLDDPLHLRCTSSPDYLVSRaqEALDAVSTLEEgH
AQYLTSLADASALVAALTRFshLAADTIINGGATshLAPTDpadRLIDTCRECGARALELMGQLQDQQALRHMQA
SLVRTPLQGILQLGQELKPKSLDVRQEELGAVVDKEMAATSAAIEDAVRRIEDMMNQARHASSGvKLEVNERILN
SCTDLMKAIRLLVTTSTSLQKEIVESGRGAATQQEFYAKNSRWTEGLISASKAVGWGATQLVEAADKVVLHTGKY
EELIVCSHEIAASTAQLVAASKVKANKHSPHLSRLQECsRTVNERAANVVASTKSGQEQIEDRDTMDFSGLSLIK
LKKQEMETQVRVLELEKTLEAERMRLGELRKQHYVLAGASGSPGEEVAIRPSTAPRSVTTKKPPLAQKPSVAPRQ
DHQLDKKdGIYPAQLVNY

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FIGURE 3843

GTCCTCTCGAGAAGGCGCGGGGCGGGCTGTCCGGCCCCGCAGGGCGGTTCGAGCCCCGCGGCGCCATGGCTCACGTCTG
GCTCCCGCAAGCGCTCGAGGAGTCGCAGCCGGTCCCGGGGACGGGGGTTCGAAAAGAGAAAGAAGAAGAGCAGGA
AAGACACCTCGAGGAACTGCTCGGCCTCCACATCCCAAGAGAGAAGCAAGCAGAAGGCCCGGAGGAGAAACAAGAT
CCAGCTCCTCCTCCTCTTCTTCCAGTTCTTCTAGCTCCTCTTCTTCTCCTCGTCCTCCTCCTCTTCTCCTCCAGTG
ATGGCCGGAAGAAGCGGGGGAAGTACAAGGACAAGAGGAGGAAGAAGAAGAAGAAGAGGAAGAAGCTGAAGAAGA
AGGGCAAGGAGAAGGCGGAAGCACAGCAGGTGGAGGCTCTGCCGGGCCCCCTCGCTGGACCAAGTGGCACCGATCAG
CTGGGGAGGAAGAGGATGGCCCAAGTCTGACGGATGAGCAGAAAGTCCCGAATCCAGGCCATGAAGCCCATGACCA
AGGAGGAGTGGGATGCCCCGCGAGCATCATCCGCAAGGTGGTGGACCCCTGAGACGGGGCGCACCAAGGCTTATTA
AGGGAGATGGCGAGGTCTTAGAGGAAATCGTAACCAAAGAACGACACAGAGAGATCAACAAGCAAGCCACCCGAG
GGGACTGCCTGGCCTTCCAGATGCGAGCTGGGTTGCTTCCCTTGAGGGGCCCCCGCTGGCCAAGGCCTGTGGACGAC
GCTGGCGGCCCCAGCCTGGGCAGGTTTCAGGGTGCCAGTGGGAAGCCTGATGGGTGCTGGTGGCCTTTCCCCCGTG
GATTGGTCTCTGGCCCAGCCAGTCTCTTCTCAGGGGCAGGGGGTGGAGGTTGGGGTCACCGGCCTGCTTGGCAC
CCCCATCTGAAAGAGCAGCACTTCTCAGCTATTAAAGGCCCCCTGGATAGAC

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FIGURE 3844

MAHVGSRKRSRSRSRGRGSEKRKKKSRKDTSRNCSASTSQERSKQKARRRTRSSSSSSSSSSSSSSSSSSSSSS
SSSSDGRKKRGKYKDKRRKKKKRKKLKKKGKEKAEAQQVEALPGPSLDQWHRSAEEDGPVLTDEQKSRIQAM
KPMTKEEWDARQSIIRKVVDPETGRTRLIKGDGEVLEEIVTKERHREINKQATRGDCLAFQMRAGLLP

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FIGURE 3845

GCGTGGATGCAACTAGAGAGACAAATCGCCTAGGAAGACTGATCAATCACAGCAAATGTGGGAAGTGCCAAACCA
AACTGCACGACATCGACGGCGTACCTCACCTCATCCTCATCGCCTCCCGAGACATCGCGGCTGGGGAGGAGCTCC
TGTATGACTATGGGGACCGCAGCAAGGCTTCCATTGAAGCCCACCCGTGGCTGAAGCATTAAACGGGTGGGCCCCG
TGCCCTCCCGCCCCACTTTCCCTTCTTCAAAGGACAAAGTGCCCTCAAAGGGAATTGAATTTTTTTTTTACACA
CTTAATCTTAGCGGATTACTTCAGATGTTTTTAAAAAGTATATTAAGATGCCTTTTCACTGTAGTATTTAAATAT
CTGTTACAGGTTTCCAAGGTGGACTTGAACAGATGCGCCTTATATTACCAAACCTTTTATATTCTAGTTGTTTTTG
TACTTTTTTTGCATACAAGCCGAACGTTTGTGCTTCCCGTGCATGCAGTCAAAGACTCAGCACAGGTTTATAGAGG
AAATAGTCAAACATGAACTAGGAAGCCAGGTGAGTCTCCTTTCTCCAGTGGAAGAGCCGGGACCTTCCCCCTGCA
CCCCGACATCCAGGGACGGGGTGTGAGGAAGACGCTGCCTCCCAATGGCCTGGACGGGATGTTTCCAAGCTCTT
GTTCCCCTAACGTCTCAACAGGCGCTCACTGAAGTGTATGAATATTTTTTAAAAAGGTTTTTGCAGTAAGCTAGT
CTTCCCCCTCTGCTTTCTCGAAAGCTTACTGAGCCCCGGGCCCCAAGCACGGGCCGGGCATAGATTTCTCTTCCA
CAAGCTGCCGCTTTTCTGGGCACCTTGAAGCATCAGGGCGTGAAATCAAACCTAGATGTGGGCAGGGAGAGGGTTG
CTTACCTGCCCTGCTGGGGCAGGGTTTCTGAAACTGGGTAAATTCTTTATAGAAATGTGAACACTGAATTTATT
TTAAAAATAATAATAAAAAATTTAAAAAAATTTAAAAATA

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FIGURE 3846

MALYYQNFYILVVFVFLHTSRTEVLPHAVKDSAQVLEEIVKHELGSQVSLSPVEEPGPSPTDIIQGRGVRK
TLPPNGLDGMFPSSCSPNVSTGAH

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FIGURE 3847

CTGGCTTCGGCCTCAGCCCCACCATGGTGACGCTTGCTGAACTGCTGGTGCTCCTGGCCGCTCTCCTGGCCACGG
TCTCGGGCTATTTTCGTTAGCATCGACGCCCATGCTGAAGAGTGCTTCTTTGAGCGGGTCACCTCGGGCACCAAGA
TGGGCCTCATCTTCGAGGTGGCGGAGGGCGGCTTCCTGGACATCGACGTGGAGATTACAGGACCAGATAACAAAG
GAATTTACAAAGGAGACAGAGAATCCAGTGGGAAATACACATTTGCTGCTCACATGGATGGAACATACAAATTTT
GTTTTAGTAACCGGATGTCCACCATGACTCCAAAAATAGTGATGTTTACCATTGATATTGGGGAGGCTCCAAAG
GACAAGATATGGAACAGAAAGCTCACCAGAACAAGCTAGAAGAAATGATCAATGAGCTAGCAGTGGCGATGACAG
CTGTAAAGCACGAACAGGAATACATGGAAGTCCGGGAGAGAATACACAGAGCCATCAACGACAACACAAACAGCA
GAGTGGTCCTTTGGTCCTTCTTTGAAGCTCTTGTTCTAGTTGCCATGACATTGGGACAGATCTACTACCTGAAGA
GATTTTTTTGAAGTCCGGAGAGTTGTTTAAAAAGCCTCTTCCTGATGATCCCAACTCAGAATTCAGTGTATACCA
ACACCTTGGTCATAATAATGTCAATTAGTTTCTCCATTTTTATTTTCTGAACTGTACATTCACAACCTTATGTTTCT
TTGAGATTAATAGATATTGGGGGAAAAACGCCTTTTTAGGAAAATTATAGTGAAAATTTGACAGTTGATTGGCAT
AATTTCTTGTTTGAATGCTGCCTCCATTATATAGGTCCTTCCAGGAACTCAAACACTGTAAGTGAATATGGGAG
TATAGTTTTTATTATTTCTTCTTTTCTTTTGGTTTTTTCATAATATAATGCAGTTTGTTTCAGGAAATCAGCACAAG
CCTGATAGTACTTTACTAAAATGACTGCATTCTTTGGATTTCCTTCAGTCTATGGTTCAAGTCACTAAAGATTTCAT
TTTTGTTGAGTCCTTATGAGAAACAGCAGTATGAATCTTGACGGTTTCTGCCCCGTCCTAATGGCAGAGCTCTCTG
ACTTGGGTGTATGCTGCCAGGCTGGGTACTTTCATACTTTGTTTTCTTGTTTTGCTTTTAAACTACGACTCAGCA
TACATTTTCCACATACATTTTTTACATTGTACCTTAGGACTCAGTCATCTCCACTTAAATTGATGACACAAGCAG
CTAATAACCATTTCTGGGTTTCTGCCTAACCCCTAATTGTCTGTAAAGCCAATTCTCTGGGTGTCCAGTGAG
TGGTGGCTTTTTTTCTTTCCACATTGGCACATTCACCTTCTCCCACTCTTGGCATGTAAGAAATAAGCATTTACAT
AATTGGAAAATCTGGATTTCTGATGCCAAAGGGTTAAAGCTTCTTGGATTTTCATTTTCATTGATATACAGCCACT
ATTTTATTTTTGATCAGTGGCCTTTGGGCCACTGTTTCAGGGTACTGACCATCAGTGTGAGCATTAGGGTTTTGGT
TTTTGTTTTCTTTGGGTATTTCTTTTTTGGCACATGTGAATCTTGTTTTGTGTAAATGAAATTACTTTCTCTTG
TTCTCTGATGATGGGTTTAAATTAAGAGCATCCGGTTTTGGTATGGGGATGATCCAGGATTATGTTGTGACT
GATACATATTAGTTACTTGTGCTTTTTTTTTTTTTTTTTTGGATCTTTGCAAGGGCAAACTACAAGTAACGAGTT
TTATATAATTAATTTAAATTTGTTACAGGTTTTCATGTTTAGGATAAACCATACTTCCACCTTGGGTGAGAACAC
TTGCAACAGTTTATTAATGAGGTGACTTTACCTTAGGACAAGTGTGATGCCAAGTTTTTTGTGTGTGTGAAA
CACTTCAAACTGATTTAAAGATGTAAATTTAAATTTGGTTGTATCTAATATGCCCCAGGTTTCGGTAAATAAAC
AATTCTTTTTAAAAA

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FIGURE 3848

MVTLAELLVLLAALLATVSGYFVSI DAHAEECF FERVTS GTKMGLIFEVAEGGFLDIDVEITGPDNKG IYKGDRE
SSGKYTFAAHMDGTYKFCFSNRMSTMT PKIVMFTIDIGEAPKGQDMETEAHQNKLEEMINELAVAMTAVKHEQEY
MEVRERIHR AINDNTNSRVVLWSFFEALVLVAMTLGQIYYLKRFFEVR RVV

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FIGURE 3849

ATCTGCGGAAGTGGAGTGCGGGGAGTGCGCCGGAAGAGGGGTACGGAAGTGCGCCGGAAGTGGGGTGCGGAGGTG
TGCAGCGCGCTGTCAGACTGGCTCGCAGGCGGCGCGGCCGGGACCCGTTTCGAGACAGCGCGGGCGGCTCGGGT
CCCCGTTGGGGCTCCGCAGCAGGAGGACGCCATGGACGACAAGGAGTTAATTGAATACTTTAAGTCTCAGATGAAAG
AAGATCCTGACATGGCCTCAGCAGTGGCTGCCATCCGGACGTTGCTGGAGTTCTTGAAGAGAGATAAAGGGGAGA
CAATCCAGGGTCTGAGGGCGAATCTCACCAGTGCCATAGAAACCCCTGTGTGGTGTGGACTCCTCTGTGGCAGTGT
CCTCTGGCGGGGAGCTCTTCCTCCGCTTCATCAGTCTTGCCCTCCCTGGAATACTCCGATTACTCCAAATGTAAAA
AGATCATGATTGAGCGGGGAGAACTTTTTCTCAGGAGAATATCACTGTCAAGAAACAAAATTGCAGATCTGTGCC
ATACTTTTCATCAAAGATGGAGCGACAATATTGACTCACGCCCTACTCCAGAGTGGTCCTGAGAGTCTTGGAAGCAG
CCGTGGCGGCCAAGAAGCGATTTAGTGTATACGTACAGAGTCACAGCCTGATTTGTGAGGTAAGAAAAATGGCCA
AAGCCCTCTGCCACCTCAACGTCCCTGTCACTGTGGTGTAGATGCTGCTGCTGTCGGCTACATCATGGAGAAAGCAG
ATCTTGTGCATAGTTGGTGTGAAGGAGTTGTTGAAAACGGAGGAATTATTAACAAGATTGGAACCAACCAGATGG
CTGTGTGTGCCAAAGCACAGAACAAACCTTTCTATGTGGTTGCAGAAAGTTTCAAGTTTGTCCGGCTCTTTCCAC
TAAACCAGCAAGACGTCCCAGATAAGTTTAAGTATAAGGCAGACACTCTCAAGGTCGCGCAGACTGGACAAGACC
TCAAAGAGGAGCATCCGTGGGTGACTACACTGCCCCCTTCCTTAATCACTCTGCTGTTTACAGACCTGGGCGTGC
TGACACCCCTCAGCAGTCAGCGATGAGCTCATCAAGCTCTATCTGTAACCCTGTGAGCCCTTTTCCTGCCAAGGTGCA
GCTTACGTAGTTGAGGCAGGGTGAGTAGCTGCTTGACACCCCACTGAGTCAGGCCAAAACCTGAGATGTGTTTAAAT
GAAGATTTATGGAGTAAGGACTTAAAATCATAACATCTTGAGAAACCTTTCTTACTCATTTTCAGTCCCATCTAAAA
ATGTGTTCAGCTATTCTAAATCCCAACTTAAATTGTTCTTACGGTTTCTAGAAACTTTTCCTTTTCAGTTTCCAGAA
ATACAAGTTAGATAATTGGCTACTTAACTGATGAAAGATGAGCCCAAGTCCACCTGTCTTCATCCTCCCCTGCAC
TCCAGACTGATCTGCCTAAAGCAGCGAGATGCAGGCGAAAAGCAGCCACACCCCTCTGCCACAAATGACCAACA
GCTGGTCAGGACGTTACACGCGGTGCCTTGTAAGAGGCAAGAAACACTTGCTGAATCTGCATCTGGCTTCCAGTG
GTAAGCACATTCTCAGCAGGATCAAGCCAAACAGTAAAACTACCAAGAGAACACGAGGAAGGCAGAAACGATG
TTTAGCAACAGTATTCTGCATGGTTCACTGCTTAAGAAAAATGCCTTCTGGAATATTTGTAACTGAAATTCTGTA
TGTGTAAGAGATGTTTAAATATGTTTGGGTCTTAAACAGCTTTTTTAAATTTATACTTGGAATAAAATTCAGCATC
TTTTCAAATAAACTCTATGAAAGAC

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FIGURE 3850

MDDKELIEYFKSQMKEDPDMAVAAIRTLLEFLKRDKGETIQGLRANLTSAIETLCGVDSSVAVSSGGELFLRF
ISLASLEYSKCKKIMIERGELFLRRISLSRNKIADLCHTFIKDGATILTHAYSRVVLRVLEAAVAAKKRFSV
YVTESQPDLSGKKMAKALCHLNVPVTVVLDAAVGYIMEKADLVIVGAEGVVENGGIINKIGTNQMAVCAKAQNKP
FYVVAESFKFVRLFPLNQDVPDKFKYKADTLKVAQTGQDLKEEHPWVDYTAPSLITLLEFTDLGVLTPSAVSDEL
IKLYL

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FIGURE 3851

GTGAGTGGCTTCCACAGGCCATGCACCCCGATATCGAGAAAGCCTGGCCCCCACCCTGTCCACTGACCAGAAA
CCTGGCTGCAGGGCCGAGGACTGGTTTGGGGACTGGAGGGCTGGCAGCAGCCTGTCACCGTGCAGCCGTGACCAC
CTGGCATGGGCTTCGTGGCCTGCTCTCAGGAAGTGGGTCAAGCCCTGGGAACCCTCATCCATGAGAGCTCGATCC
CGTATGAAGGGTGCTGCCGCCCGTGCCATCTGGCCCCGGGGTGACTTTTTTGAAGTGTATTATATGGTGGATGA
TGATTTTCATCTCACGTGCTGGACGCTGTTCTGTTTCAGTGTGCTCTTTGGACTACATTAGTCCCCTGTGGAGCAGC
AGGGCTGGAGATCTCTGCAGTCCCTTCCCCGCCCCGCTGCCAGAAGGCCGAGGAGGCACGTGGAGGGCCTCCTT
CCTGCAATTCTTCCCTCTCCAGAGTCAGGGAGGGCTGCCAGCCCTGGCCTCACAGCCGTCCCAGATGTTAGGTG
AGCCACTGAGCTCTGTGTTGACCTTGAGGGGCTGGCTGGGGGGCCCCAGGCTCCATGCCTTCTTGGGAGGGTGG
CCGCCAACGCCTTTCCCTGTGTTATGGCAACAGGGAGTGGGCATCTCATCTGCCTGTGGTCAGCTCTCAGACGGCA
GGGAGCGGAGCTGACGTTGGCTGTGCTTGGTCACCGCTGCCATGCCGCAGAGGATGCGCCTAGCTGGGCTGGGGC
CACACGACTATTATGTTGGCCTTGAACGGGGACTGCAGAGCCCTCAGTTTGTCTCCCTTGTTCTCTGTGGCTGA
GGTGGGAGGGGGAGGGTGGGGTAGGTCCCCCAGCAAGAAAAGAGGGACAGGAGCACCCCAGGCAGGACCAAGGAGT
CGGGAGGCCCTGCCTTCTGTCTCCATGGTGAGGGCACAGATGTCTCCCCAGAGCCCAGCGCTGGCAGAATGGA
TTCTGCTCCTGGCTTTGCTTCTGCGGCTTCGGTGGAGACAGTTATGGAATAAAATGTTCTTGCAAAAAAAAAA
AAAAAA

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FIGURE 3852

MGFVACSQEVGQALGTLIHESSIPYEGCCRPCHLARG

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FIGURE 3853

AGTTCCGTCGCAGCCGGGATTTGGGTGCGGGTTCTTGTGTTGTGGATCGCTGTGATCGTCACTTGGTGAGTAGCGG
GCTGCTGGGCTGGCCGGGGCTTTCTGTGGCCGCCGGGCGCTCGGTGGGACGGAAGCGTGTGGAGAGACCGCCAAG
GGCTGTAGTCTGGGTCCGCGAGCAAGGTTGCCCTGAACTGGGGGTGGGGGGAGCGCAGCAAAATGGCGGGCTGTT
CCCGAGTCTTGAAATGGAAGACGCTTGTGAGGCGGGCTGTGAGGTCGTTGAAACAAGGTGGGGGGCATGGTGGGCG
GCAAGAACCCAAGGTCTTGAGGCCTTCGCTAATGCGGGAAAAGCTCTTATTCGGGTGAGATGGGCTGGGGCACCAT
CTGGGGACCTTGACGTGAAGTTTGTCACTGACTGGAGAACTCGGTTTGTCTGTCTGTTGCGGGGGCGGCAGTTATG
GCGGTGCCGTTGGGCGAGTGACCCGTACCTTTGGGAGCGCGCGCCCTCGTCGTGTCTGTGACGTACCCGTTCTGT
TGGCTTATAATGCAGGGTGGGGCCACCTGCCGGTAGGTGTGCGGTAGGCTTTTCTCCGTGCGCAGGACGCAGGGTT
CGGGCCTAGGGTAGGCTCTCCTGAATCGACAGGCGCCGGACCTCTGGTGAGGGGAGGGATAAGTGAGGCGTCACT
TTCTTTGGTCCGTTTATGTACCTATCTTCTTAAGTAGCTGAAGCTCCGTTTTTGAAGTATGCGCTCGGGGTGG
CGAGTGTGTTTTGTGAAGTTTTTAGGCACCTTTTGAAATGTAATCATTGGGTCAATATGTAATTTTCAGTGT
AGACTAGTAAATTGTCGCTAAATTTCTGGCCGTTTTTGGCTTTTTTGTAGACAATGCAGATCTTCGTGAAGACT
CTGACTGGTAAGACCATCACCTCGAGGTTGAGCCAGTGACACCATCGAGAATGTCAAGGCAAAGATCCAAGAT
AAGGAAGGCATCCCTCCTGACCAGCAGAGGCTGATCTTTGCTGGAACAGCTGGAAGATGGGCGCACCTGTCT
GACTACAACATCCAGAAAGAGTCCACCTGCACCTGGTGCTCCGTCTCAGAGGTGGGATGCAAATCTTCGTGAAG
ACACTCACTGGCAAGACCATCACCTTGAGGTGGAGCCAGTGACACCATCGAGAACGTCAAAGCAAAGATCCAG
GACAAGGAAGGCATTCTCCTGACCAGCAGAGGTTGATCTTTGCCGAAAGCAGCTGGAAGATGGGCGCACCTG
TCTGACTACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGTGGGATGCAGATCTTCGTG
AAGACCCTGACTGGTAAGACCATCACCTCGAGGTGGAGCCAGTGACACCATCGAGAATGTCAAGGCAAAGATC
CAAGATAAGGAAGGCATTCTCCTGATCAGCAGAGGTTGATCTTTGCCGAAACAGCTGGAAGATGGTCTGTAAC
CTGTCTGACTACAACATCCAGAAAGAGTCCACCTTGACCTGGTACTCCGTCTCAGAGGTGGGATGCAAATCTTC
GTGAAGACACTCACTGGCAAGACCATCACCTTGAGGTGAGCCAGTGACACTATCGAGAACGTCAAAGCAAAG
ATCCAAGACAAGGAAGGCATTCTCCTGACCAGCAGAGGTTGATCTTTGCCGAAAGCAGCTGGAAGATGGGCGC
ACCCTGTCTGACTACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGTGGGATGCAGATC
TTCGTGAAGACCCTGACTGGTAAGACCATCACCTCGAAGTGGAGCCGAGTGACACCATGAGAATGTCAAGGCA
AAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCCGAAACAGCTGGAAGATGGT
CGTACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTTGACCTGGTGCTCCGTCTCAGAGGTGGGATGCAG
ATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAGGTGGAGCCGAGTGACACCATGAGAATGTCAAG
GCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGATCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTGGAAGAT
GGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTGCACCTGGTGCTCCGTCTTAGAGGTGGGATG
CAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCATGAGAATGTC
AAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTGGAA
GATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTGCACCTGGTGCTCCGTCTTAGAGGTGGG
ATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCATGAGAAT
GTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTG
GAAGATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTGCACCTGGTGCTCCGTCTCAGAGGT
GGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACCTCGAGGTGGAGCCAGTGACACCATCGAG
AATGTCAAGGCAAAGATCCAAGATAAGGAAGGCATCCCTCCTGATCAGCAGAGGTTGATCTTTGCTGGGAAACAG
CTGGAAGATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACTCTGCACTTGGTCTGCGCTTGAGG
GGGGTGTCTAAGTTTTCCCTTTTAAAGTTTCAACAAATTTCAATTGCACTTTTCTTCAATAAAGTTGTTGCATT
CCCAATTGGTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGTTTATTTTGCATT

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FIGURE 3854

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG
GMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLR
GGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRL
LRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLR
RLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLV
VLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLH
LVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTL
HLVLRRLGGV

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FIGURE 3855

GGAAGATGGTCGTACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTTGACCTGGTGCTCCGTCTCAGAGG
TGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAGGTGGAGCCGAGTGACACCATTTGA
GAATGTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGATCAGCAGAGGTTGATCTTTGCTGGGAAACA
GCTGGAAGATGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGCTCCGTCTTAG
AGGTGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCAT
TGAGAATGTCAAGGCAAAGATCCAAGACCCTGACTGGTAAGACCATCACT

[illegible]

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FIGURE 3856B

GGGCTCAGTTCCGGGCGGAAGCATCACCAAAGGCATTCCCAGCACACGGGTGCCCTCGGACAGCGCCATCACATA
CCGCGGCTCCATCACCCACGGCACGCCAGCTGACGTCCTGTACAAGGGCACCATCACCAGGATCATCGGCGAGGA
CAGCCCAGTCGCTTGGACCGCGGCGGGAGGACAGCCTGCCCAAGGGCCACGTATCTACGAAGGCAAGAAGGG
CCACGTCCTTGTCTATGAGGGTGGCATGTCTGTGACCCAGTGCTCCAAGGAGGACGGCAGAAGCAGCTCAGGACC
CCCCATGAGACGGCCGCCCCCAAGCGCACCTATGACATGATGGAGGGCCGCGTGCGGCAGAGCCATCTCCTCAGC
CAGCATCGAAGGTCTCATGGGCCGTGCCATCCCGCCGGAGCGACACAGCCCCCACCACCTCAAAGAGCAGCACCA
CATCCGCGGGTCCATCACACAAGGGATCCCTCGGTCTACGTGGAGGCACAGGAGGACTACCTGCGTCGGGAGGC
CAAGTCTCTAAAGCGGGAGGGGCACGCCTCCGCCCCACCGCCCTCACGGGACCTGACCGAGGCCCTACAAGACGCA
GGCCCTGGGCCCCCTGAAGCTGAAGCCGGGCCATGAGGGCCTGGTGGCCACGGTGAAGGAGGCGGGCCGCTCCAT
CCATGAGATCCCGCGCGAGGAGCTGCGGCACACGCCCGAGCTGCCCTTGGCCCCGCGGCCGCTCAAGGAGGGCTC
CATCACGCAGGGCACCCCGCTCAAGTACGACACCGGCGCGTCCACCCTGGCTCCAAAAAGCAGCAGCTACGCTC
CCTCATCGGCAGCCCCGGCCGGACGTTCCACCCGTGCACCCGCTGGATGTGATGGCCGACGCCCCGGGCACTGGA
ACGTGCCTGTACGAGGAGAGCCTGAAGAGCCGGCCAGGGACCGCCAGCAGCTCGGGGGGCTCCATTGCGCGCGG
CGCCCCGGTCATTGTGCTGAGCTGGGTAAGCCGCGGCAGAGCCCCCTGACCTATGAGGACCACGGGGCACCCCTT
TGCCGGCCACCTCCACAGAGGTTGCGCCGTGACCACGCGGGAGCCACGCCGCGCCTGCAGGAGGGCAGCCTTTC
GTCCAGCAAGGCATCCAGGACCGAAAGCTGACGTCGACGCCTCGTGAGATCGCCAAGTCCCCGCACAGCACCGT
GCCGAGCACCACCCACACCCCATCTCGCCCTATGAGCACCTGCTTCGGGGCGTGAGTGGCGTGGACCTGTATCG
CAGCCACATCCCCCTGGCCTTCGACCCACCTCCATACCCCGCGGCATCCCTCTGGACGCAGCCGCTGCCTACTA
CCTGCCCCGACACCTGGCCCCCAACCCACCTACCCGCACCTGTACCCACCCCTACCTCATCCGCGGCTACCCGA
CACGGCGGCGCTGGAGAACCGGCAGACCATCATCAATGACTACATCACCTCGCAGCAGATGCACCACAACGCGGC
CACCGCCATGGCCCAGCGAGCTGATATGCTGAGGGGCTCTCGCCCCGCGAGTCTCTGCTGGCACTCAACTACGC
TGCGGGTCCCCGAGGCATCATCGACCTGTCCCAAGTGCCACACCTGCCTGTGCTCGTGGCCCCGACACCAGGCAC
CCCAGCCACCGCCATGGACCGCCTTGCTTACCTCCCCACCGCGCCCCAGCCCTTCAGCAGCCGCCACAGCAGCTC
CCCCTCTCCCCAGGAGGTCCAACACACTTGACAAAACCAACCACACGTCCTCGTCCGAGCGGGAGCGAGACCG
GGATCGAGAGCGGGACCGGGATCGGGAGCGGGAAAAGTCCATCCTCACGTCCACCACGACGGTGGAGCACGCACC
CATCTGGAGACCTGGTACAGAGCAGAGCAGCGGCAGCAGCGCGGGGGTGGGGGCAGCAGCAGCCGCCCGCCTC
CCTTCCCATGCCACCAGCACTCGCCCATCTCCCCTCGGACCCAGGATGCCCTCCAGCAGAGACCCAGTGTGCT
TCACAACACAGGCATGAAGGGTATCATCACCGCTGTGGAGCCCAGCACGCCCCACGGTCTGAGGTCCACCTCCAC
CTCCTCACCCGTTTCGCGCGGCTGCCACATTCCCACCTGCCACCCACTGCCCACTGGGCGGCACCCCTCGATGGGGT
CTACCCTACCCTCATGGAGCCCGTCTTGCTGCCCAAGGAGGCCCCCGGGTTCGCCCCGCCAGAGCGGCCCGAGC
AGACACCGGCCATGCCTTCTCTGCCAAGCCCCAGCCGCTCCGGGCTGGAGCCCGCCTCTCCCCAGCAAGGG
CTCGGAGCCCCGGCCCCCTAGTGCTCCTGTCTTGCCACGCCACCATCGCCCCGACCCCTGCGAAGAACCTCGC
ACCTCACACGCCAGCCCGGACCCGCCGGCGCCACCTGCCTCGGCCTCGGACCCGCACCCGGGAAAAGACTCAAAG
TAAACCTTTTTCCATCCAGGAAGTGAAGTCCGTTCTCTGGGTTACCACGGCAGCAGCTACAGCCCCGAAGGGGT
GGAGCCCGTCAGCCCTGTGAGCTCACCCAGTCTGACCACGACAAGGGGCTCCCCAAGCACCTGGAAGAGCTCGA
CAAGAGCCACCTGGAGGGGGAGCTGCGGCCAAGCAGCCAGGCCCGTGAAGCTTGGCGGGGAGGCCGCCACCT
CCCACACCTGCGGCCGCTGCCTGAGAGCCAGCCCTCGTCCAGCCCGCTGCTCCAGACCGCCCCAGGGGTCAAAGG
TCACCAGCGGGTGGTACCCCTGGCCCAGCACATCAGTGAGGTATCACACAGGACTACACCCGGCACCACCCACA
GCAGCTCAGCGCACCCCTGCCCGCCCCCTTACTCCTTCCCTGGGGCCAGCTGCCCCGTCTGGACCTCCGCCG
CCCACCCAGTGACCTCTACCTCCCGCCCCCGGACCATGGTGGCCCGGCCGCTGGCTCCCCCACAGCGAAGGGGG
CAAGAGGTCTCCAGAGCCAAACAAGACGTCGGTCTTGGGTGGTGGTGAGGACGGTATTGAACCTGTGTCCCCACC
GGAGGGCATGACGGAGCCAGGGCACTCCCGGAGTGCTGTGTACCCGCTGCTGTACCGGGATGGGGAACAGACGGA
GCCAGCAGGATGGGCTCCAAGTCTCCAGGCAACACCAGCCAGCCGCCAGCCTTCTTCAGCAAGCTGACCGAGAG
CAACTCCGCCATGGTCAAGTCCAAGAAGCAAGAGATCAACAAGAAGCTGAACACCCACAACCGGAATGAGCCTGA
ATACAATATCAGCCAGCCTGGGACGGAGATCTTCAATATGCCCGCCATCACCGGAACAGGCCTTATGACCTATAG
AAGCCAGGCGGTGCAGGAACATGCCAGCACCAACATGGGGCTGGAGGCCATAATTAGAAAGGCACTCATGGGTAA
ATATGACCAGTGGGGAAGAGTCCCCGCGCTCAGCGCCAATGCTTTTAAACCTCTGAATGCCAGTGCCAGCCTGCC
CGCTGCTATGCCATAACCGCTGCTGACGGACGGAGTGACCACACACTCACCTCGCCAGGTGGCGGCGGGAAGGC

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FIGURE 3856C

CAAGGTCTCTGGCAGACCCAGCAGCCGAAAAGCCAAGTCCCCGGCCCCGGGCCTGGCATCTGGGGACCGGCCACC
CTCTGTCTCCTCAGTGCACTCGGAGGGAGACTGCAACCGCCGGACGCCGCTCACCAACCGCGTGTGGGAGGACAG
GCCCTCGTCCGCAGGTTCCACGCCATTCCCCTACAACCCCCTGATCATGCGGCTGCAGGCGGGTGTCTATGGCTTC
CCCACCCCCACCGGGCCTCCCCGCGGGCAGCGGGCCCCCTCGCTGGCCCCCACCACGCCTGGGACGAGGAGCCCAA
GCCACTGCTCTGCTCGCAGTACGAGACACTCTCCGACAGCGAGTGACTCAGAACAGGGCGGGGGGGGGGGCGGTG
TCAGGTCCCAGCGAGCCACAGGAACGGCCCTGCAGGAGCAGGGCGGCTGCCGACTCCCCCAACCAAGGAAGGAGC
CCCTGAGTCCGCCTGCGCCTCCATCCATCTGTCCGTCCAGAGCCGGCATCCTTGCCTGTCTAAAGCCTTAACTAA
GACTCCCGCCCCGGGCTGGCCCTGTGCAGACCTTACTCAGGGGATGTTTACCTGGTGCTCGGGAAGGGAGGGGAA
GGGGCCGGGGAGGGGGCACGGCAGGCGTGTGGCAGCCACACGCAGGCGGCCAGGGCGGCCAGGGACCCAAAGCAG
GATGACCACGCACCTCCACGCCACTGCCTCCCCCGAATGCATTTGGAACCAAAGTCTAAACTGAGCTCGCAGCCC
CCGCGCCCTCCCTCCGCCTCCCATCCCGCTTAGCGCTCTGGACAGATGGACGCAGGCCCTGTCCAGCCCCCAGTG
CGCTCGTTCCGGTCCCCACAGACTGCCCCAGCCAACGAGATTGCTGGAAACCAAGTCAGGCCAGGTGGGCGGACA
AAAGGGCCAGGTGCGGCCTGGGGGGAACGGATGCTCCGAGGACTGGACTGTTTTTTTACACATCGTTGCCGCAG
CGGTGGGAAGGAAAGGCAGATGTAAATGATGTGTTGGTTTACAGGGTATATTTTTTGATACCTTCAATGAATTAAT
TCAGATGTTTTACGCAAGGAAGGACTTACCCAGTATTACTGCTGCTGTGCTTTTGATCTCTGCTTACCGTTCAAG
AGGCGTGTGCAGGCCGACAGTCGGTGACCCCATCACTCGCAGGACCAAGGGGGCGGGGACTGCTGGCTCACGCCC
CGCTGTGTCTCCTCCCTCCCTCCCTTCCTTGGGCAGAATGAATTCGATGCGTATTCTGTGGCCGCCATCTGCGCAGG
GTGGTGGTATTCTGTCAATTTACACACGTCGTTCTAATTA AAAAGCGAATTATACTCCA

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FIGURE 3857

TCGGACGGGCGCGGAGACGCTTCTGGAAGGAACGCCGCGATGGCTGCGCAGGGAGAGCCCCAGGTCCAGTTCAAA
CTTGTATTGGTTGGTGATGGTGGTACTGGAAAAACGACCTTCGTGAAACGTCATTTGACTGGTGAATTTGAGAAG
AAGTATGTAGCCACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCCACACCAACAGAGGACCTATTAAGTTCAAT
GTATGGGACACAGCCGGCCAGGAGAAATTCGGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGTGTGCCATC
ATAATGTTTGATGTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTACGAGTGTGT
GAAAACATCCCCATTGTGTTGTGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCCATTGTC
TTCCACCGAAAGAAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTACAACTTTGAAAAGCCCTTCCTC
TGGCTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAATTTGTTGCCATGCCTGCTCTCCCGGATGAGGATGAT
GACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCCTGTGATGTCAGCGGT
GCAGCGTGTGTGCCACCTCATTATTATCTA

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FIGURE 3858

MAAQGPQVQFKLVLVGDGGTGKTTFVKHHLTGEFEKKYVATLGVEVHPLVFHTNRGPVKFNVWDTAGLEKFSGL
RDGYIIQAQSTIIVFDVTSRVTYKNVPNWHRDLV

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FIGURE 3859A

CTTGAAATGACCCGCCACACCTGAAGCCTGCAGGTGCTGAGGCCACATTTCGATCAGACCCAAGCTTTGGGAGAC
CGCTGGGGAAATTTCCCACTTCCTCTCCTGAGACCAGGAATCAGCAGAGAACTTTGTGGAAAATGAACTGAAG
GATGCCACCCAGGGAGAGTATCTCCTGAGATCCCATCATGCAGGCCTTCCACAAGGGCCCCGGCAGCATGACAAG
GTGAAGGCAGAGTATGTGCATCTCAACCATCCGCTCACCTCGTGACCAGAGAGCGCGATTGGCCGTGAAGGAG
AAACACCAGCTCCAAGCCAAGCTGGAGAACCTAGAACAGGTCTGAAGCATATGCGAGAGGGCGGCTGAACGGCGG
CAGCAGCTGCAGTTGGAGCATGACCAGGCCCTGGCTGTTCTCAGTGCCAAGCAGCAGGAAATTGACCTTCTGCAG
AAGTCCAAGGTTGAGAGCTGGAAGAGAAATGCCGACTCAAAGTGAGCAGTTCAACCTGCTGTCCCGGGACCTG
GAGAAGTTCGGGCAGCACGCTGGCAAGATTGACCTGCTGGGTGGCAGCGCGGTGGCCCCCTGGACATCTCCACG
GCCCCAGCAAGCCTTTCCCAAGTTTCATGAATGGCCTAGCCACCTCCCTCGGCAAAGGTGAGGAGAGCGCTATT
GGAGGCAGCTCTGCGATCGGTGAATATATCCGGCCCCCTTCCGCAGCCTGGTGACAGGCCGGAGCCTCTGTCCGCC
AAGCCCACCTTTCCTGTGCGAGATCCGGTAGCGCAAGATGCAGATCTGAGTCAGACATGGAGAATGAACGGAATTCC
AATACCTCCAAGCAGAGATACTCGGGGAAGGTCCACCTCTGTGTTGCCCCGTATAGTTACAACCCCTTCGATGGA
CCGAACGAGAACCCCGAAGCTGAGCTGCCCCCTACGGCGGGGAAAATACCTCTACGTCTATGGAGACATGGATGAG
GATGGGTTCTATGAAGGAGAGTCTCTCGATGGCCAGAGGGGTCTGGTGCCCTCCAACCTTCGTGGACTTTGTGCAG
GACAACGAGTCGCGGTTGGCAAGCACGCTGGGGAACGAGCAGGATCAGAACTTCATCAACCATTCCGGCATCGGC
CTGGAGGGAGAGCACATCCTGGACCTCCACTCCCCAACCCACATAGATGCGGGCATCACCGACAACAGTGCCGGG
ACCCTGGACGTGAACATCGACGACATCGGAGAAGACATCGTGCCTTACCCTAGAAAAATCACCTCATCAAACAA
CTCGCCAAAAGTGTTATTGTGGGCTGGGAGCCCCCGGCGGTGCCACCAGGATGGGGAACGGTGAGCAGCTACAAC
GTCCTGGTGGACAAGGAGACACGCATGAACCTCACGCTGGGGAGCAGAACTAAAGCCCTCATCGAGAAGCTCAAC
ATGGCAGCCTGCACCTACCGCATCTCCGTGCAGTGCCTACCCAGCAGGGGCAGCTCGGATGAGCTGCAGTGCACG
CTGCTGGTGGGCAAGGACGTGGTGGTGGCCCCCTCCACCTGCGGGTGGACAACATCACGCAGATCTCCGCCAG
CTCTCCTGGCTACCCACCAACAGCAACTACAGCCACGTATCTTCTCAACGAGGAGGAGTTCGACATCGTCAAG
GCCGCCAGGTACAAGTACCAGTTCTTCAATCTCAGGCCAACATGGCCTATAAGGTGAAGTTCTGGCCAAACCC
CACCAGATGCCGTGGCAGCTCCCGCTGGAGCAAAGGGAGAAGAAGGAGGCCTTTGTGGAGTTCTCCACGTTGCCT
GCAGGACCCCCAGCACCCCCACAAGATGTTACCGTCCAGGCTGGGGTGACCCCCGCCACCATCCGGGTCTCCTGG
AGACCACCTGTGCTGACGCCCCACCGGGCTGTCCAATGGCGCAAACGTTACCGGTACGGCGTGTATGCCAAAGGG
CAGAGGGTGGCTGAAGTCATCTTCCCCACGGCAGACAGCACGGCCGTGGAGCTTGTGCGGCTGCGGAGCCTGGAG
GCCAAGGGCGTGACCGTGCGGACCCTCTCCGCCAGGGCGAGTCCGTGGACTCTGCAGTTGCTGCCGTTCCCCC
GAGCTCCTGGTGCTCCTACCCCCACCCGAGACCTGCACCCCAATCAAAGCCATTAGCAAGTTCTGGAGTCCCC
GAAACCAAAGACGAGCACCTGGGTCCCCACGCCAGGATGGATGAGGCCTGGGAGCAGAGCCGTGCACCTGGCCCT
GTGCATGGGCACATGCTGGAGCCGCCGTGGGCCCGGAAGGCGGTGCCCCACCCAGCCGCATCCTGCCACAG
CCACAGGGCACCCCGGTGTCCACCACCGTCGCCAAGGCCATGGCCCCGGGAGGCCGCGCAGAGGGTGGCCGAGAGC
AGCAGGTTAGAGAAAAGGAGCGTCTTCTAGAGAGAAGCAGCGCGGGGCAGTACGCCGCTCAGACGAGGAGGAC
GCCTATGACTCTCCAGACTTCAAGAGGAGGGGCGCCTCGGTGGACGACTTCTGAAAGGCTCTGAACCTGGCAAG
CAGCCGCACTGTTGCCATGGAGACGAGTACCACACAGAGAGCAGCCGGGGTCTGACCTCTCAGACATCATGGAG
GAGGACGAGGAGGAGCTGTATTCTGAAATGCAGCTGGAAGATGGGGGAAGGAGGCGGCCAGCGGCACGTCCAC
AATGCCCTCAAGATTTTAGGGAACCCAGCCTCTGCAGGACGGGTGGATCACATGGGCCGAGGTTTCCCCGTGGC
AGCGCTGGTCTCAGAGGTCCCGGCCGTGACAGTCCCATCCATCGACGATTACGGGCGAGACCGCCTTTCTCCA
GACTTCTATGAAGAGTCAGAACTGACCCTGGTGCCGAAGAGCTCCCGGCCCGGATCTTTGTGGCTCTCTTTGAC
TACGACCCGCTCACCATGTCCCCAAACCCAGATGCTGCAGAGGAGGAGCTTCCCTTTAAAGAAGGCCAGATCATC
AAGGTTTATGGTGATAAAGACGCTGATGGATTCTACCGTGGGGAAACCTGTGCCCGGCTTGGCCTTATTCTTGT
AACATGGTCTCTGAGATACAAGCAGATGATGAGGAGATGATGGATCAGCTTCTTAGACAGGGCTTTCTCCCTCTG
AATACACCTGTGGAGAAAATAGAGAGAAGCAGGAGAAGTGGCAGGCGTCATTCGGTATCGACGCGGAGAATGGTG
GCCCTGTATGACTACGACCCAGAGAAAGCTCGCCCAACGTGATGTGAGGCCGAACCTTACATTTTGACAGGA
GATATTATTACAGTTTTTGGTGAAATTGATGAAGATGGATTTTATTATGGGGAGCTGAATGGGCAGAAAGGCCTT
GTGCCCTCAAACCTTCTTGGAAAGAAGTGCTGATGACGTAGAAGTCTATCTTCTGATGCTCCATCCCACTACTCT
CAAGATACGCCAATGCGCTCAAAGGCAAAAAGGAAGAAGAGTGTTCAATTCACACCTTAATCAGGCAATGTAGCC
TTCACGTAAGTGAGCAACTGAAGATACCGATAAAGATACCAACTTAAGCTACCTTAACCGGGCCAGTGTGGTAGA

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FIGURE 3859B

CTTAAGGCTTCATTGTGGGGTTAAAAAAGATACAAAGAAATATGTCTCAAAAACTATTGGACCTAAA
TAATTAGAATATTACTTGGTCTCAGTTGTAAAGCAACTGAATTTATAGTGAAGCAAATCATCTTTAATAATCATT
TCCTACTATTTGCATTAAGAATATTTGAAAGGCCAACATTGGGAACATATTTCTTAACAAGCTAACTGTGTGTTT
ACATAGAGAGAGCTGCATATTGCATTGTTAGCCACTCTTGGAAAAAGCACAAACCTAACAAACATGTTTACTATAG
GAAGCTTTACTTTAGAACTTAACCCAAGGTCAAGCAGATGAGTAGTGAACACAGGTGATCGAGTGTGGCTCTG
AACACTCCAAACACTGGCTCGAGTGGCCAGAACGTGTTTTCTTAAGTAACCCTGCCTCTACCTTACGAGAGAGC
TATGCTCCTCCTCAAAGCACAAATCATCCTGTGACAGAAGTTGCTGCAACACGCGTTTGTGTTGGTATACCAATG
CAATACTAAGTTGATGAAGCACGCAGCTCAAATGATCACATTAGATGGAATAGATGGTATCTTCAGGTGTACTTT
GGGATGCTTTACTAGGTGTTTTCCATTAGAATTAGACCTTGATTTTAAATCCAAGCAAGCTTGAAGCCCCCTGGC
TTACAGCATTTGCCTGCTGAATACTAAACACTCACATGGCAAGAGTTGCTCTGGAGAGGTAGGGCCAGAGGAATG
CTGCTGCACTGCCAACTCAGGCACATGCTTAGCTGTAAAGGGGAAGCGAGGTGAAGTCGTCCTGCAGCGTATTAGA
GTAAAAGTCTACCCCTCTGAAGCACTATTAAGCGCTTAACGTATATTTAAATACTACCATGTGCTATCTACTGAG
GAAGATTCATGTTCAATTATTTGGAAATAATGCAAGCATCCACTAAGGGCCTTTAAGCTTTCTTTGATTATAATT
AAGGTTCATTTTAGTTTTTTTTTTTTCTTTCAACCAGTGTGCCATCTCCAATATTTCTATAGTATACCAACCACCC
CAGGAATGCACCTTAACAATATCAGGATTTTATATAACCAAATAGTTTCAAATACAACAAAATTCCTTTATGAA
CTTTGCTTTTAAAGACTACTGATGGGTACTCGGCAACTTTACTATCAACCTAATTTAGATCATGTCTCCCT
GCCCTTAGTCTTCATTTATGAAGTGAATTATTACCTGCCTTAGCTTTGCCAAAGCAACGGCCACCCGCACTCCC
TCGAGACAGAGAAACGGAACCCACACATTTATGTCTGGGGCCTCTCTCTGGCGTGTGTGGGAGAGGACCTTTGC
TTCTCATGGCATACTTCAACAAGTGAAGAACAATGAACCCCCCTGACCTTTCTGGTGGGAAACGGGGACAGT
ACGATGTTACCAAGTGAATTCTGTTGTTGGCGCTCACACACTCAATAAACTGTAACACTGTACCTACTAGGTTCC
TCCTGAGGGTTTCAGGTACAGCAAGGAGAGCTCCATCCCCACAGTCCATCTCCATTGCGGGTACCTACGTCATC
TATGGGTTCTGGTAGTCTGGGAGAGGCAGGGAAATGTCTCGAAAAAGAAAAGGGGCTGCTTTCAAAGGCAA
GAACTGCTGAAAAAGCTGGGTGCAGTGAATGATTCATGTGCTTCCGGACAAGTCCAAATCTATGTAATTTTC
TTAATTCCAACTAGGGCTTTTCATGACTCAAGTACTTCTTAAAAAACCCAATCTTCTCCCCTGACACCAGTAG
AGAAATGCACTTTTGCCTACCAACCCTTTAAACCAACCACGAGAACAAAGAGGAGCGGTTGCTCTCTGTCACC
GCTGGCAGTCTGCTCTCATTGTCCAAGCTCTGATTTGGGAGGTGGGAGGGGACGTCTTATTAACAAACGGGGGCG
CATAGCTATCACCTGTAGCTCCCTCCCTACCTGTAATTCCAGTCTTTGTGCATTTGTCATCTGCCCTTAAAGGAA
TGATTTTCAACCTTTCTCCCTTCTCAAAATGCTTGCTCATAATGCATAACTTTCACTTTGACTCTGGTCTTGAA
ATTCCTAGTTTAAATTCGCCTTGATGTTCTGCCTTATAAATGCACAATGATTTGTACTGTCTAATAAAAAACAGTGT
ATACTTTGTATGTGTGCTGCATTCAGTGGTCTTCATCCTGACACAGTGGTTTGAGATCAAGTTGTACAGGCTGTG
CATTTTAAGATACTAGTTTCAGTCTTTCAAAGCCAGCCAGGCTACACACAGAAAATGTTTACTCAATCATTCAA
AAAGAGAAAAGGAGAGAAAAGTAACCTTTGTTTGGTAAAGCACCAGTACTCCAACCTTCCAGAAAGCCGATTATCTT
CATTGCTTTTAAATGTTCTATTCTGTGGCATATGGTTTTCTGTTACTTTCGTTGTCAAATGCCATACCCAAATAC
ACAGCAATGAATGGCACACAAGTAATCCACATAATGCATAAGCCACACCAAACAGACTCAATTTAAATCTGCT
CCAAATGAGTCCATACCCATCTTCATCATTGGCATTGTAACAAAAGACTTACTTACAAAGTTGCTGGCAGATGTA
TTTGATGGTTACTCTTTTGAATTCTTGTCCACTTGTAATTTGTTTTACTCTTTATACATACTTTTACAGACTGC
CTTCTTTTGTAAATTTATGGACGGTTTATAAATGAATGACAAAGCTTTCCCATTTGTGTCTTCAAAAACGCTATT
ATAAATTGTAATATAATAGTATGTGGTAGATTTATTATTAAAGGAAATCCATGTGTGGTTAAGCTCTGTGTGGGT
GTGTGCATGTGCACAGTTAGTGTAAAATATTTTCTAGAAATAAAATTTGTTATTTTAT

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FIGURE 3860

MREAAERRQQQLQLEHDQALAVLSAKQQEIDLLQKSKVRELEEKCRTOSEQFNLLSRDLEKFRQHAGKIDLLGSSA
VAPLDISTAPSKPFPQFMNGLATSLGKGQESAIGGSSAIGEYIRPLPQPGDRPEPLSAKPTFLSRSGSARCRSES
DMENERNSENTSKQRYSGKVHLCVARYSYNPFDPNENPEAELPLTAGKYLYVYGDMDEDGFYEGELLDGQRGLVP
SNFVDFVQDNESRLASTLGNEQDQNFINHSGIGLEGEHILDLHSPTHIDAGITDNSAGTLDVNIIDIGEDIVPYP
RKITLIKQLAKSVIVGWEPPAVPPGWTGVSSYNVLVDKETRMNLTLSRTKALIEKLNMAACTYRISVQCVTSRG
SSDELQCTLLVGKDVVAPSHLRVDNITQISAQLSWLPTNSNYSHVIFLNEEEFDIVKAARYKYQFFNLRPNMAY
KVKVLAKPHQMPWQLPLEQREKKEAFVEFSTLPAGPPAPPQDVTVQAGVTPATIRVSWRPPVLTPTGLSNGANVT
GYGVYAKGQRVAEVIFPTADSTAVELVRLRSLEAKGVTVRTLSAQGESVDSAVAAPPELLVPPTPHPRPAPQSK
PLASSGVPETKDEHLGPHARMDEAWEQSRAPGPVHGHMLEFPVGPGRRSPSPSRILPQPQGTVPVSTTVAKAMARE
AAQRVAESSRLEKRSVFLERSSAGQYAASDEEDAYDSPDFKRRGASVDDFLKGSELGKQPHCCHGDEYHTESSRG
SDLSDIMEEDEEEELYSEMQLLEDGGRRRPSGTSHNALKILGNPASAGRVDHMGRRFPGRSAGPQRSRPVTVPSIDD
YGRDRLSPDFYEESETDPGAEELPARIFVALFDYDPLTMSPNPDAAEEELPFKEGQIIKVYGDKDADGFYRGETC
ARLGLIPCNMVSEIQADDEEMMDQLLRQGFLPLNTPVEKIERSRRSGRHSVSTRRMVALYDYPRESSPNVDVE
AELTFCTGDIITVFGIEDEDGFYYGELNGQKGLVPSNFLEEVDPDDVEVYLSDAPSHYSQDTPMRSKAKRKKSVMH
TP

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FIGURE 3861

GGCGGTGTTGAGGTTGGGTACGGGATGCGGGGTCTTTGACTGAAGGGGTAGGCCAAGTGGAGGTATCAGGGACGT
CGCGCGGCACAGAAGAGGACCAGCCTGGACGCCGGGGACGCTGTTCATGTACGGCGGAGCGGGGGCCGCGCCAAA
CCCGAGAGGAAAAGCGGCGGAAGGAGGAGGCCGGGCCAGGCGGTGCCGGCGGTGGGGGCAGCCGAGTGGAGCTC
TTGGTTTTTCGGCTATGCCTGCAAGCTGTTCCGGGACGACGAGCGGGGCCCTGGCTCAGGAACAGGGACAGCACCTC
ATCCCCCTGGATGGGGGACCACAAGATCCTCATCGACAGATATGATGGACGTGGTCACCTGCATGACCTTTCTGAG
TACGATGCTGAGTATTCCACGTGGAACAGAGATTATCAGCTGTCTGAAGAGGAGGCGCGAATAGAGGCCCTGTGT
GATGAAGAGAGGTATTTAGCCTTGCAACGGACTTGCTTGAGGAGGAGGCAAGGCAAGAGGAAGAATACAAGCGA
TTGAGTGAAGCACTAGCAGAGGATGGGAGCTACAATGCCGTGGGGTTCACTTACGGTAGCGACTATTACGACCCG
TCAGAGCCGACGGAGGAGGAGGAGCCTTCCAAACAGAGAGAAAAAATGAGGCCGAAAATTTAGAGGAAAATGAA
GAGCCCTTCGTTGCCCCCTTAGGATTGAGCGTCCCGTCTGACGTGGAGTTGCCACCAACCGCTAAAATGCACGCC
ATCATCGAGCGCACGGCCAGCTTCGTGTGCAGGCAGGGAGCACAGTTTGAGATCATGCTGAAGGCCAAGCAGGCC
CGGAACCTCCAGTTTGACTTTCTGCGCTTCGACCACTACCTCAACCCCTACTATAAGTTTCATCCAGAAAGCCATG
AAAGAGGGACGCTACACTGTCTCTGGCAGAAAACAAAAGTGACGAGAAAAAAAATCAGGAGTCAGCTCTGACAAT
GAAGATGATGATGATGAAGAAGATGGGAATTACCTTCATCCCTCTCTCTTTGCCTCCAAGAAGTGTAACCGCCTT
GAAGAGCTGATGAAGCCCTTGAAGGTAGTGGACCCAGATCATCCCTCGCAGCACTTGTTTCGTAAGGCACAGGCT
GACAGTTCCACTCCACCCCCACACAACGCAGACGGTGCGCTGTGCAGCCCTCCAGGTGGAGTACACGGCAGAC
TCGACCGTGGCAGCCATGTATTACAGCTACTACATGCTACCGGACGGCACTTACTGCCTGGCGCCGCCCTCCCG
GAATCGACGTGACTACTTACTACAGCACCTTCCCTGCTGGCGTGACCGTGTCTAACTCCCCTGGAGTGACGACCA
CCGCCCCACCACCTCCTGGGACCACACCACTACCGCCCCCAACCACAGCAGAGACTAGCAGCGGGGCCACCTCCA
CAACCACCACCACAAGTGCACTTGCCCCCGTGGCCGCCATCATCCCCCGCCCCCGACGTCCAGCCCGTGATTG
ACAAGCTGGCCGAGTATGTGCGCCAGGAACGGCCTGAAGTTCGAGACCAGTGTTTCGTGCCAAGAATGATCAAAGAT
TTGAGTTCCTGCAGCCGTGGCACCAGTATAATGCTTATTATGAGTTTAAAGAGCAGTTCTTCCTCCAGAAAGAAG
GGGGCGATAGCATGCAGGCTGTGTCTGCACCAGAAGAGGCTCCACAGACTCTGCTCCCGAGAAGCCAAGTGATG
CTGGGGAGGATGGCGCGCCTGAAGACGCAGCCGAGGTGGGAGCACGGGCAGGCTCAGGCGGGAAGAAGGAGGCAT
CGTCCAGTAAGACCGTCCCGGACGGGAAGCTGGTGAAAGCTTCCTTTGCTCCAATAAGCTTTGCAATCAAGGCCA
AAGAAAATGATCTGCTTCCCCTGGAAAAAATCGTGTTAAGCTAGATGATGACAGTGATGATGATGAAGAAAGCA
AAGAAGGCCAAGAAAGTTCTAGTAGTGCTGCAAACACTAACCAGCAGTTGCCCCACCCTGTGTAGTTGTTGAGG
AGAAGAAGCCTCAACTTACCCAGGAGGAGCTAGAAGCAAAGCAAGCAAAGCAAAGCTGGAAGATCGCCTCGCAG
CTGCTGCCCCGGGAAAAGCTGGCCCCAGGCGTCTAAGGAGTCAAAGAGAGAAAACAGCTTCAAGCAGAACGTAAAAGGA
AAGCGGCGTTATTTTTACAGACCCCTCAAAAATCCTCTGCCGGAAGCAGAAGCTGGGAAAATTGAGGAGAGTCCTT
TCAGTGTCGAGG

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FIGURE 3862

GTCCGCA**ATG**TTGCCAGTGTCTGTCTGCAGATTGGCTACCCAAGTGTTCATCAGTACCCATTCTATCATCAAC
GGGTACAAACGAGTCCTGGCCTTGCTGTGGAGACGGATTACACCTTCCCACTCGCTGAAAAGGTCAAGGCCTTC
TTGGCTGATCCATCTGCCTTTGTGGCTGCTGCCCCTGTGGCTGCTGCCACCACAGCTGCTCCTGCTGCTGCTGCA
GCCCCAGCTAAGGTTGAAGCCAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTGGTCTCTTTGACTAA
TCACCAAAAAGCAACCAACTTAGCCAGCTTTATTTGCAAAACAAGGAAA**TAA**AGGCTTACTTCTTTAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3863

MLPVSVCRLATQLLHQYPILSSTGTNESWPCLWRRITPSHSLKRSRPSWLIHLPLWLLPLWLLPPQLLLLLLLQPQ
LRLKPRKSRRSRTRIWDLVSLTNHQKATNLASFICKTRK

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FIGURE 3864A

CGAAGGGGGGTGGGCCGGGGGAGGGGAGGTTTCGTTCCGCGGAGCGCAGCCAGAACC GGGACCAAGAATCGCCTTC
AGCCCTGTCTGGTGCATCCTTGGCAGAAAGTGAGGAGGAAAAACACCCCCATTGTTAGATGAGGTCTTAATCATGG
AACATTTGAAGTCACGTAAAGAAGGTTCTTTGGC**ATCG**ACACAAGTTCAGTGGGAGGATTAGAATTGACTGATCA
GACTCCTGTTTTATTAGGGAGTACGGCCATGGCAACTAGTCTCACGAATGTAGGAACTCATTAGTGGTCCAGC
TAATCCTTTAGTGTCTAGATCTAATAAGTTTCAGAACTCGTCAGTGAAGATGATGATGATGTTGTTTTATCGA
ACCTGTACAACCTCCCCACCTTCTGTACCAGTGGTAGCTGATCAAAGAACCATAACATTTACATCATCAAAAAA
TGAAGAACTACAAGGAAATGATTCCAAAATTACTCCTTCCTCAAAAAGAGTTGGCATCTCAGAAGGGGAGGTGTAAG
TGAGACAATTGTCATTGATGATGAAGAGGACATGGAAACAAATCAAGGGCAAGAGAAAAATTCCTCCAATTTTAT
TGAACGAAGACCTCCTGAGACTAAAAACAGAACCAATGATGTGGATTCTCCACTTCCAGTTTTTCAAGAAGTAA
GGTAAATGCAGGAATGGGTAATAGTGGTATCACCACAGAACCAGACTCTGAAATTCAGATTGCTAATGTTACAAC
TTTAGAAACAGGTGTAAGCTCTGTGAATGATGGCCAATTAGAAAAATACTGACGGGCGAGATATGAACCTAATGAT
TACACATGTAACATCACTGCAGAATACCAACTTGGGAGATGTCTCTAACGGACTGCAGTCAAGTAATTTTGGTGT
TAATATACAAACATACACCCCATCTTTAACTTCACAGACCAAGACTGGAGTAGGACCTTTTAATCCTGGTAGAAT
GAATGTGGCAGGAGACGTTTTTTCAGAATGGAGAATCTGCAACTCATCATAATCCTGATTCTTGGATCTCCAGTC
AGCTTCATTTCCCGTAATCAGAAACAACCAGGGGTGGACTCTTTATCACCAGTGGCCTCACTTCCTAAACAGAT
TTTCCAGCCGTCTGTCCAACAGCAGCCTACTAAACCAGTTAAAGTCACTTGTGCAAACTGCAAAAAACCTTTACA
GAAGGGCCAGACAGCTTATCAACGAAAAGGATCAGCTCACCTCTTTTGTCTACCACCTGCCTTTCTTCTTCTC
CCACAAGCCTGCTCCAAAGAACTCTGTGTTATGTGTAAAAAGATATAACTACAATGAAAGGAACCATTGTTGC
TCAAGTGGATTCAAGTGAGTCCTTCCAGGAATTCTGTAGTACATCTTGTTTATCTCTCTATGAAGACAAACAGAA
TCCTACTAAAGGAGCTCTAAATAAATCAAGATGTACAATCTGTGGTAACTAACTGAGATTGCCATGAAGTCAG
CTTTAAAAATATGACTCATAAGCTGTGCAGTGACCACTGCTTTAATAGATATAGAATGGCCAATGGTTTAATAAT
GAATTGCTGTGAACAGTGTGGAGAGTACTTGGCCAGTAAAGGTGCTGGAAATAATGTTCTGGTGATTGATGGTCA
ACAGAAAAGATTTTGTCTGTCAAAGTTGTGTCAAGTGAATACAAACAGGTAGGTAGCCATCCAAGCTTCCTGAAGGA
GGTTCGAGATCACATGCAGGACTCTTCTTAATGCAGCCTGAGAAATATGGAAAACCTGACAACCTGTACTGGTTG
CCGAACACAGTGCAGGTTTTTTTGATATGACTCAGTGTATAGGTCTTAATGGATATATGGAGCCATATTGTTCAAC
TGCTTGTATGAACAGTCAACAAGACAAAATATGCAAAATCACAAAGTTTGGGAATTATTTGCCATTTTTTGTAAGCG
AAACTCTTTACCTCAATACCAAGCCACAATGCCTGATGGAAAACCTGTACAACCTTTTGCAATTCCAGTTGTGTGGC
TAAATTTAGGCTCTAAGTATGCAGTCATCTCAAATGGCCAGTTTGTAGCGCCAAGTGATATTCAGTTGAAATG
CAACTACTGCAAAAATTCCTTTTGTTCAAAACCAGAAATCCTGGAATGGGAGAACAAAGTGCATCAGTTCTGCAG
CAAACTTGTTTCAGATGACTATAAGAAGTTGCATTGCATAGTTACATATTGCGAATACTGTCAAGAGGAGAAGAC
TCTTCATGAAACAGTAAATTTCTCTGGCGTTAAGAGACCTTTCTGTAGTGAAGGCTGCAAATTATTATACAAACA
GGATTTTGCCAGACGTTTAGGATTGAGAIGTGTTACTTGCACCTATTGTTCTCAGCTATGTAAGAAGGGAGCAAC
TAAAGAACTCGATGGTGTGTGAGAGATTTCTGCAGTGAAGATTGCTGTAAAAAATTTAGGATTGGTACTACAA
GGCTGCAAGGTGTGACTGTTGTAAATCTCAAGGAACCTTTAAAGAGCGAGTTCAGTGGCGTGGGGAAATGAAACA
TTTCTGTGATCAACATTGCTTACTGCGTTTTCTACTGTCAACAAAATGAGCCCAACATGACAACCTCAGAAAGGACC
TGAAAACCTTACATTATGATCAGGGTTGTGAGACATCTCGAACCAAAATGACAGGTTGAGCACCACCCCTTCTCC
AACACCTAACAAAGAGATGAAGAACAAAGCAGTTCTTTGCAACCTTTAACAATGACAAAAGCTACTTACTGTAA
ACCTCACATGCAGACCAAATCTTGTGACAGATGATACTTGGAGGACAGAATATGTTCCAGTGCCTATCCCTGT
GCCTGTGTATATCCCAGTTCCATGACATGTACAGTCAGAATATTCCTGTTCCCTACTACAGTTCCCTGTTCCCTGT
GCCAGTTCCCTGTTTTTCTGCCTGCTCCATTGGACAGCAGTGAGAAGATTCTGCGACAAATTGAGGAGCTAAAAAG
CAAGGTTTCTTCAGATGCTCTTGATACAGAGTTGCTTACAATGACGGATATGATGAGTGAAGACGAGGGGAAAAC
AGAGACAACCAACATCAACAGTGTAAATTATTGAAACAGATATAATTGGTTTCAGACCTTTTGAAGAACTCTGACCC
AGAGACACAGTCCAGCATGCCTGATGTACCATATGAACCAGATTTGGATATCGAAATAGATTTTCCAGAGCTGC
TGAGGAGCTTGATATGGAAAATGAATTTTTATTACCACCTGTTTTTGGCGAAGAATATGAGGAACAGCCCAGACC
TCGATCTAAAAAAAAGGGAGCCAAGAGAAAAGGCTGTATCAGGATACCAGTCTCATGATGATAGTTCTGACAATTC
AGAATGCAGCTTTCCTTTCAAAATATACGTATGGCGTAAATGCATGGAAACACTGGGTCAAAACTAGGCAACTTGA
TGAAGATCTTCTGGTATTAGATGAGTTAAAAATCTTCTAAATCAGTAAAGTTAAAAAGAGGATCTACTCTCTCACAC
CACAGCTGAGCTTAACTATGGGTTAGCTCATTTTGTCAATGAGATCCGACGGCCAAATGGAGAGAATTATGCACC

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FIGURE 3864B

TGACAGCATCTATTACCTTTGCCTTGGAAATACAGGAGTATTTGTGTGGAAGTAATCGAAAAGACAACATATTTAT
TGATCCTGGATACCAAACATTTGAGCAAGAATTGAATAAAATACTGCGAAGCTGGCAACCAAGCATACTTCCAGA
TGGGTCAATATTCTCTCGAGTTGAAGAAGACTATCTCTGGAGGATAAAACAACCTAGGATCACACTCTCCAGTAGC
TCTTCTGAATACACTGTTCTACTTTTAACACTAAGTATTTTGGCCTGAAAACAGTGGAACAACACTTAAGACTTTC
CTTTGGCACTGTGTTTAGGCATTGGAAAAAAATCCTTTAACGATGAAAAACAAAGCGTGTCTTCGATACCAAGT
GTCTTCCTTGTGTGGAACAGATAATGAAGATAAAATTACTACTGGAAAAAGAAAACATGAAGATGATGAGCCAGT
ATTTGAACAAATTGAAAAACACAGCCAATCCTTCCAGATGTCCTGTGAAAAATGTTTGAATGCTACTTGTCTAAAAG
TCCACAGAATCTTAATCAGAGGATGGATGTTTTTTATTTGCAACCAGAAATGCTCTAGTTCTACAGATAGCCCTGT
CTGGTATACGTCTACTTCACTGGACCGAAACACCTTGGAAAATATGCTTGTACGGGTTCTTCTAGTAAAAGATAT
TTATGATAAAGACAATTATGAACTGGATGAAGACACAGACTTAAAAAAGGAACGTTGCAGAAGCAATCGGGATAAAA
CAGCATTAGATAGTCATGCTGCTAGATCTTTATTATGGAAAACATTTCAAGTTTACTCCTTCTGTTTTGAGTTTT
GTAGCAGTGTACCCACGCTGGGTATTACCATGTAAATAATCTGTGAGTGAAAGTTGCCATTATTCTATGTAGTGG
TTTTAGGATACTTAACAAATACATTCAAATTCCTTTTTTTATTATTATTTATTTGATTAGGTATGTTTGTAACTTT
TTACATTACAGAATATGAATGAGAATGTGCCATGTATAATTTTTTTCTTGTAGTAAGAAACATCCATATTGCACA
ACTCTACTGTTGCAAAGCTTCCTTGGAAAGGGGGCTCTTTTACTGGGTCTTAACCAGATGGTTGTGTATGGGTAG
CACTACTAAAAGTTTAGAACTTGCAAGTGTCTTTCGGAATTTTTAAATAAACTGTAAACTAATAGGCTGGGGTTT
TTGTTTTGTTTTGGGGTTTTGTTTTGTTTGGTTTTACATTTTAGTTACTGAAGCCTTACAAGGTTATGTAGAGAG
ATACCATCTTCTGTACCAAAAATAGACAAGAGAATGCTGTCAATATTGGTGTACTGTAATGTGAATCTATGCTGG
TGAAAACAATTTTTTGTTCCTTTATTTAAACCTTAGTGTCTTTTCTCATTTGTGGCTTTCTGCATCACCCAAT
CAATAAAAAACAAATATATATATATGT

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FIGURE 3865

MDTSSVGGLELTDQTPVLLGSTAMATSLTNVGNFSFGPANPLVSRSNKFQNSSVEDDDDDVVFIEPVQPPPPSVPV
VADQRTITFTSSKNEELQGNDKITPSSKELASQKGSVSETIVIDDEEDMETNQGEKNSSNFIERRPPETKNRT
NDVDFSTSSFSRSKVNAGMGNSGITTEPDSEIQIANVTTLTETGVSSVNDGQLENTDGRDMNLMITHVTSLQNTNL
GDVSNGLQSSNFGVNIQTYTPSLTSQTKTGVPFNPGRMNVAGDVFQNGESATHHNPDSWISQSASFPRNQKQPG
VDSLSPVASLFPKQIFQPSVQQQPTKPVKVT CANCKKPLQKGQTAYQRKGS AHLFCSTTCLSSF SHKPAPKKLCVM
CKKDITTMKGTIVAQVDSSESFQEF CSTSCLSLYEDKQNP TKGALNKS RCTICGKLTEIRHEVS FKNMTHKLCSD
HCFNRYRMANGLIMNCCEQC GEYLP SKGAGNNVLVIDGQQKRFCCQSCVSEYKQVGSHPSFLKEVRDHMQDSFLM
QPEKYGKLTTCTGCRTQCRFFDMTQCIGPNGYMEPYCSTACMNSHKT KYAKS QSLGI ICHFCRNSLPQYQATMP
DGKLYNFCNSSCVAKFQALSMQSSPNGQFVAPSDIQLKCN YCKNSFC SKPEILEWENKVHQFCSKTCSDDYKKLH
CIVTYCEYCQEEKTLHETVNFSGVKRPF CSEGCKLLYKQDFARRLGLRCVTCN YCSQLCKKGATKELDGVVRDFC
SEDCKKFQDWYKAA RCDCKSQGTLKERVQWRGEMKHFC DQHCLLRFYCQQNEPNMTTQKGPENLHYDQGCQT
SRTKMTGSAPPPSPTPNKEMKNKAVLCKPLTMTKATYCKPHMQTKSCQTDDTWRT EYVPVIPVPVYIPVPMHMY
SQNIPVPTTVPVPVPVPVFLPAPLDSSEKIPAAIEELKSKVSSDALDTELLTMTDMMSEDEGKTETTNINSVIE
TDIIGSDLLKNSDPETQSSMPDVPYEPDL DIEIDFPRAAEELDMENEFLLPPVFGE EYEEQPRPRSKKKGA KRKA
VSGYQSHDDSSDNSECSFPFKYTYGVNAWKHWKTRQLDEDLLVLDELKSSKSVKLKEDLLSHTT AELNYGLAHF
VNEIRRPNGENYAPDSIYYLCLGIQEYLCG SNRKNIFIDPGYQTFEQELNKILRSWQPSILPDGSIFSRVEEDY
LWRIKQLGSHSPVALLNTLFYFNTKYFGLKTVEQHLRLSFGTVFRHWKKNPLTMENKACLR YQVSSLCGTDNEDK
ITTGKRKHEDDEPVFEQIENTANPSRCPVKMFECYLSKSPQNLNQ RMDV FYLQPECSSSTDSPVWYTSTSLDRNT
LENMLVRVLLVKDIYDKDNYELDEDTD

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FIGURE 3866

ATGGATTGGGGCACGCTGCAGACGATCCTGGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGCTC
ACCGTCCTCTTCATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGAC
TTTGTCTGCAACACCCTGCAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCCATCTCCCACATCCGG
CTATGGGCCCTGCAGCTGATCTTCGTGTCCAGCCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACAT
GAGAAGAAGAGGAAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAAACCCAGAAG
GTCCGCATCGAAGGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTTCCGGGTCATCTTCGAAGCCGCCTTC
ATGTACGTCTTCTATGTCATGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTGCAACGCCTGGCCTTGTCCC
AACACTGTGGACTGCTTTGTGTCCCGGCCCCACGGAGAAGACTGTCTTCACAGTGTTTCATGATTGCAGTGTCTGGA
ATTTGCATCCTGCTGAATGTCCTGAATTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAAGCCA
GTTTAA

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FIGURE 3867

MDWGTILQTIILGGVNHSTSIGKIWLTIVLFIFRIMILVVAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSSPALLVAMHVAYRRHEKKRKFIKGEIKSEFKDIEEIKTQKVRIEGLWWTYTSSIFFRVIFEAAF
MYVFYVMYDGFSMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKP
V

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FIGURE 3868

CAGAGGGGTCCATAGGGCGTTGTTCTGGATTCCGGTCGTAACTTAAAGGGAACTTTCACAATGTCCGGAGCCCT
TGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGCACCAATCT
TGA CTTCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAAGACCTG
GGAGAAGCTTCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTT
CTTGTTGGTTACTGACCCCAGGGCTGACCCACCAGCCTCTCACGGAGGCGTCTTATGTTAACCTACCTACCATTCG
TCTGTGTAACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCGCTCAGTGG
GTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTCTCGTGAACACCCATGGGAGG
TCATGACTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCGG
TGACCAAGGAGGAATTTCAAGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAG
ACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGC

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FIGURE 3869

GGGAAACTTTTACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG
CAGGAACCCACTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCA
TCTATATCATAAATCTGAAGAAGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACC
CTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCGGCCACTGGAG
CCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGTCTTATGTTAACCTACCTACC
ATTGCTCTGTGTAACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCGCTC
AGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTCTCGTGAACACCCATG
GGAGGTCATGACTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGA

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FIGURE 3870

ATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAAGACCTGGGAGAAGCTT
CTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGC
CAGAGGGCTGTGCTGAAGTTTGCTGCGGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTC
ACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGGTTACTGACCCAGGGCTGACCCACCAGCC
TCTCACGGAGGCGTCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAGATTCTCCTCTGCGCTATGTGGACA
TTGCCATCCCATGCAACAACAAGGGAGCTCGCTCAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGC
GCATGCGTGGCACCATTCTCGTGAACACCCATGGGAGGTCATGACTGATCTCTACTTCTACAGAGATCCTGAAG
AGATGGGTGAATGGACTGCTCCAGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTG
TGCAGGTGCCCTCTGTGCCTATTCAGCAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGT
CTGCAGCTCCC

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FIGURE 3871

MEQYIYKRKSDGIYIINLKKTWEKLLLAARAIVAIENPADVSVISSRNTGQRAVLKFAAATGATPIAGRFTPGTF
TNQIQAAFREPRLLVVDPRADPPASHGGVLC

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FIGURE 3872

GCGGCAGGTGAGTAGCTGTGCGAATTCGGTTCTCTAGGGAACCTCCTTCTTCGCCTGCTGGCCTTACCTGGGCTCC
CCGCTTCTCTGGAGGGGAGGCGGTGCGGGAACCTCCCGTAGGCGTGAGCTGGAGCGCGCGCCCGCTGCTCTCTCCA
GGTCCCGCCGCGCCAGTTTCGCCTCCGCAAAGCCCGTCCCTCTCTTCCGCAGGCACCATGTTTCCTGACTGCGCTCC
TCTGGCGCGGCCGCATTCCCGGCCGTCACTGGATCGGGAAGCACCGGCGGCCGCGGTTTCGTGTGCTTGC GCGCCA
AGCAGAACATGATCCGCCGCCTGGAGATCGAGGCGGAGAACCATTACTGGCTGAGCATGCCCTACATGACCCGGG
AGCAGGAGCGCGGCCACGCCGCGGTGCGCAGGAGGGAGGCCTTCGAGGCCATAAAGGCGGCCGCCACTTCCAAGT
TCCCCCGCATAGATTCAATTGCGGACCAGCTCGACCATCTCAATGTCACCAAGAAATGGTCCTAATCCCTGAGTCG
TCACCCTTGGAATTTTATGGATCACGGAGCTGACCATCTTTACCTGGTCCTGGAAC TGAAAACTGTAGCTTGTGT
GAAAATGAGCCTTTGGACCAGTCTTTATTAAAAACAAACAAACATGAGTAGTCTGCATATCGAATATCTAGAGCTC
TAAACCCCCCAATACTTAAAAGTCTAATTGCTGTCTGTGGTTTCATTAGTCTGATAGGAAGATAGGGATTTCCCT
CAGTCACAGATGATATTTTGAAGGAAAGCTGCAATAAAGCCACAATGATTTGAGGTCTTTGCTTAAGTATGAGAT
ACTTGATGGGGGCTTTATCATGCAACATTAGTTTGCTTACCTTAAGAATTGCCCAAAAATGAAAGAAAATATGAG
CTTTTCAGTTAAACATACTCCTAAAAACATTTTCCGGGATTTTACTACTAAAATTGGACATTTAAGCGAAGTAAA
AGAGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCAACACTTTAGGAGTCCAAGGCGGGCGGATCACTTGAGGTC
AGGAGTTCAAGACCAGCTTGCCCAAGGTGATAAAACCCGTCTCTACTAATAACAAAAAAATTAGCTGGGTATGTT
GGTGCAGGCTTGCAATCCCAGCTACTTGGGACGCTGAGGTGGGAGGATCGCCTGAACCTCAGAGGCAGAGGTTGC
AATGAAGCGGAGGTTGCAGTGAGCCGAGAGCATGCCGCTGCACTCCAGCCTGGGAGACTGCATCTCAAAAAAGAA
AAATAAACGAAGTAAAAGATATTTATCAGAAAAA

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FIGURE 3873

MFLTALLWRGRIPGRQWIGKHRRPRFVSLRAKQNMIRLEIEAENHYWLSMPYMTREQERGHAAVRRREAFEAIK
AAATSKFPPHRFIADQLDHLNVTKKWS

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FIGURE 3874

CTCTTCCTAAGCCGGCGCTCGGCGAGTTCTCCCAGGAGAAGGCCATGTTTCAGTTCGAGCGCCAAGATCGTGAAGC
CCAATGATGAGAAGCCGGACGAGTTCGAGTCCGGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTCGGACC
TCAAAGCTCAGCTCAGGGAGCTGAATATTACGGCAGCCAAGGAAATTGAACTTGGTGGTGGTTCGGAAAGCTATCA
TAATCTTTGTTCCCATTCCTCAACTGAAATCTTTCCAGAAAATTCAAGTCCGGCTAGTACGCGAATTGGAGAAAA
AGTTCAGTGGGAAGCATGTCGTCTTTATCGTTCAGAGAAGAATTCTGCCTAAGCCAACTCGAAAAAGCCGTACAA
AAAATAAGCAAAAGCGTCCCAGGAGCCATACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCC
CAAGCGAAATTGTGGGCAAGAGAATCCGCGTGAAACTAGATGGCAGCCGGCTCATAAAGGTTTCAATTTGGACAAAG
CACAGCAGAACAATGTGGAACACAAGGTTGAACTTTTTCTGGTGTCTATAAGAAGCTCACGGGCAAGGATGTTA
ATTTTGAATTCCCAGAGTTTCAATTACAAACAAAATGACTACATAAAAATATATATTCACA

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FIGURE 3875

MFSSSAKIVKPNDEKPDDEFESGISQALLELEMNSDLKAQLRELNITAAKEIELGGGRKAI IIFVPIPOLKSFQKI
QVRLVRELEKKFSGKHVVFIVQRRILPKPTRKSRTKNKQKRPRSHTLTAVHDAILEDLVFPSEIVGKRIRVKLDG
SRLIKVHLDKAQQNNVEHKVETFSGVYKKLTGKDVNFEFPEFQL

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FIGURE 3876

GCCTGCGGGCAGCCGTGCCGAGAATGAACCCAGCACCCCCAGCTACCCAACGGCCTCGCTCTACGTGGGGGACC
TCCACCCCGACGTGACTGAGGCGATGCTCTACGAGAAAGTTTACGCCCCGAGGGCCCATCCTCTCCATCCGGATCT
GCAGGGACTTGATCACCAGCGGCTCCTCCAACCTACGCGTATGTGAACCTCCAGCATACGAAGGACGCGGAGCATG
CTCTGGACACCATGAATTTTGATGTTATAAAGGGCAAGCCAGTACGCATCATGTGGTCTCAGCGTGATCCATCAC
TTCGAAAAAGTGGAGTGGGCAACATATTTCGTTAAAAATCTGGATAAGTCCATTAATAATAAAGCACTGTATGATA
CAGTTTCTGCTTTTGGTAACATCCTTTCGTGTAACGTGGTTTGTGATGAAAATGGTTCCAAGGGTTATGGATTTG
TACACTTTGAGACACACGAAGCAGCTGAAAGAGCTATTAAAAAAATGAACGGAATGCTCCTAAATGGTCGCAAAG
TATTTGTTGGACAATTTAAGTCTCGTAAAGAACGAGAAGCTGAACTTGGAGCTAGGGCAAAGAGTTCCCCAATG
TTTACATCAAGAATTTTGGAGAAGACATGGATGATGAGCGCCTTAAGGATCTCTTTGGCAAGTTCGGGGCCCGCCT
TAAGTGTGAAAGTAATGACCGATGAAAGTGGAAAATCCAAAGGATTTGGATTTGTAAGCTTTGAAAGGCATGAAG
ATGCACAGAAAAGCTGTAGATGAGATGAATGGAAGGAGCTCAATGGAAAACAAATTTACGTTGGTCGAGCTCAGA
AAAAAGTGAACGGCAGACGGAACCTAAGCGCACATTTGAACAGATGAAGCAAGATAGGATCACCAGATACCAGG
TTGTTAATCTTTATGTGAAAAATCTTGATGATGGTATTGATGATGAACGTCTCCGGAAGCGTTTTCTCCATTTG
GTACAATCACTAGTGCAAAGGTTATGATGGAAGGTGGTCGCAGCAAAGGGTTTGGTTTTGTATGTTTCTCCTCCC
CAGAAGAAGCCACTAAAGCAGTTACAGAAATGAACGGTAGAATTGTGGCCACAAAGCCATTGTATGTAGCTTTAG
CTCAGCGCAAAGAAGAGCGCCAGGCTTACCTCACTAACGAGTATATGCAGAGAATGGCAAGTGTACGAGCTGTGC
CCAACCAGCGAGCACCTCCTTCAGGTTACTTCATGACAGCTGTCCACAGACTCAGAACCATGCTGCATACTATC
CTCCTAGCCAAATTGCTCGACTAAGACCAAGTCCTCGCTGGACTGCTCAGGGTGCCAGACCTCATCCATTCCAAA
ATAAGCCCAGTGCTATCCGCCCAGGTGCTCCTAGAGTACCATTTAGTACTATGAGACCAGCTTCTTCACAGGTTT
CACGAGTCATGTCAACGCAGCGTGTGCTAACACATCAACACAGACAGTGGGTCCACGTCCTGCAGCTGCTGCTG
CTGCTGCAGCTACCCCTGCTGTGCGCACGGTTCCACGGTATAAAATATGCTGCGGGAGTTTCGCAATCCTCAGCAAC
ATCGTAATGCACAGCCACAAGTTACAATGCAACAGCTTGCTGTTTATGTACAAGGTCAGGAACTTTTACTGCTT
CCAGGTTGGCATCTGCCCCCTCCTCAAAAGCAAAGCAAATGTTAGGTGAACGGCTCTTTCCTCTTATTCAAGCCA
TGCACCCTACTCTTGCTGGGAAAATCACTGGCATGTTGTTGGAGATTGATAATTCAGAACTTCTTTATATGCTCG
AGTCTCCAGAGTCACTCCGTTCTAAGGTTGATGAAGCTGTAGCTGTACTACAAGCCCACCAAGCTAAAGAGGCTA
CCCAGAAAGCAGTTAACAGTGCTACCGGTGTTCCAAGTGTAAAAATGATCAGAGACCACGAAAAGAAATTTGT
GCTTCACCGAAGAAAAATATCTAAACATCGAGAACTATGGGAAAAAAATTTGCAAAATCTAAAATAAAAAATGC
AAAATCTAAAATAAAAAATGGAAAGGAACTTTGAACCTTATGTACCGAGCAAATGCAAGGTCTAGCAAATATAA
TGCTAGTCCTAGATTACTTATTGATTTAAAAACAAAAAAGATTACTTAATTTTGATTTAAAAACAAAAAATCG
TAAAATACAAAAACCAGTTAATGTTTTGTAGACCCTGGGAAAAGAATTTTCAGCAAAGTACAAAAATTTAAAGCA
TTCCTTTAATTTTTTAATTTCTTACTGTGGAATAGCTCAAAATGTCCATTCTGTTTTAAGTAACAGAATTGATAA
CTGAGCAAGGAAACATGGTTTGGATTATAAAATTCTTGCTTTAATAAAAAATTTCTTAAACAGTGAAA

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FIGURE 3877

CTCAGAACCATGCTGCATACTATCCTCCTAGCCAAATTGCTCGACTAAGACCAAGTCCTCGCTGGACTGCTCAGG
GTGCCAGACCTCATCCATTCCAAAATAAGCCCAGTGCTATCCGCCCAGGTGCTCCTAGAGTACCATTTAGTACTA
TGAGACCAGCTTCTTCACAGGTTCCACGGTATAAATATGCTGCGGGAGTTCGCAATCCTCAGCAACATCGTAATG
CACAGCCACAAGTTACAATGCAACAGCTTGCTGTTTCATGTACAAGGTCAGGAACTTTGACTGCCTCCAGGTTGG
CATCTGCCCCCTCCTCAAAAGCAAAAGCAAATGTTAGGTGAACGGCTCTTTCCTCTTATTCAAGCCATGCACCCTA
CTCTTGCTGGGAAAATCACTGGCATGTTGTTGGAGATTGATAATTCAGAACTTCTTTATATGCTCGAGTCTCCAG
AGTCACTCCGTTCTAAGGTTGATGAAGCTGTAGCTGTACTACAAGCCCACCAAGCTAAAGAGGCTACCCAGAAAG
CAGTTAACAGTGCTACCGGTGTTCCAACGTGTTTAAATTTGATCAGAGACCACGAAAAGAAATTTGTGCTTCACCG
AAGAAAAATATCTAAACATCGAGAACT

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FIGURE 3878A

GCCTTCGCCGCCGTTGGGGCTGGAAGTTCCCGCCAGGTCCGTGCCGGGCGAGAGAGATGCTGCCCGGCCCGCCTC
GGCTTTGAGGCGAGAGAAAGTGTCCCAGACCCATTTTCGCCTTGCTGACGGCGTCGAGCCCTGGCCAGAC**ATGT**CCA
CAGGGTTCTCCTTCGGGTCCGGGACTCTGGGCTCCACCACCGTGGCCGCCGGCGGGACCAGCACAGGCGGCGT
TCTCCTTCGGAACGGGAGCGTCTAGCAACCCTTCTGTGGGGCTCAATTTTGAAAATCTTGGAAGTACTTCAACTC
CAGCAACTACATCTGCTCCTTCAAGTGGTTTTTGGAACCGGGCTCTTTGGATCTAAACCTGCCACTGGGTTCACCTC
TAGGAGGAACAAATACAGGAATAGCAACAACATACTACAGGATTAACCTCTGGGAACGCCAGCCACTACATCTG
CAGCTACAACAGGCTTCAGTTTAGGATTCAATAAACCTGCAGCATCTGCCACACCATTTGCTCTACCTATTACCT
CTACCTCAGCTAGCGGTCTGACTCTTTCGTCTGCTCTGACATCAACTCCAGCAGCATCCACAGGATTTACTCTAA
ATAATTTGGGTGGGACAACAGCCACAACATACTGCATCAACAGGCCTCTCTTTAGGGGGAGCCTTAGCTGGTT
TGGGAGGTTCACTTTTCCAGAGTACAAACACAGGAACATCAGGACTTGACAGAATGCTTTAGGGTTGACTTTGG
GAACTACAGCAGCTACTTCAACTGCAGGCAATGAAGGCCTTGTTGGTATAGATTTAGTAGCTCCTCAGATAAAA
AGAGTGATAAAACGGGAACAAGACCAGAGGATAGTAAAGCTCTGAAGGATGAAAATCTACCTCCTGTCTATCTGCC
AGGATGTTGAAAATCTCCAGAAATTTGTGAAGGAGCAGAAACAAGTTCAAGAAGAAATTAGTAGAATGTCTTCAA
AAGCAATGCTTAAGGTACAAGAAGATATTAAAGCTCTGAAGCAGCTCCTGTCTGGCTGCCAATGGAATACAGA
GAAACACTCTCAACATTGACAAATTGAAAATAGAACTGCTCAGGAGTTGAAGAATGCTGAAATAGCTTTAAGAA
CCCAGAAGACACCACCTGGACTTCAACATGAATATGCAGCTCCTGCTGACTACTTCAGAATCTTGGTTCAGCAAT
TTGAGGTACAGCTTCAGCAGTACAGGCAGCAGATTGAAGAACTAGAAAACCATCTTGCCACTCAAGCAAATAATT
CACATATAACCCCTCAAGATTTGTCAATGGCTATGCAGAAAATTTATCAAACATTTGTAGCTTTAGCGGCACAAC
TTCAGTCTATTTCATGAAAATGTAAAGGTTCTGAAAGAACAGTACCTTGCTACAGGAAAATGTTCTTGGGAGATG
CTGTTGATGTGTTTGAACAAGGCGAGCAGAAGCCAAGAAGTGGCAGAACACACCCAGAGTTACTACTGGACCCA
CTCCTTTCAGCACCATGCCAAACGCAGCAGCCGTTGCCATGGCTGCAACACTTACACAGCAGCAACAGCCTGCTA
CAGGTCTGAACGCATTCAAGTT**ATAG**CTTCTTACTGTTCCAATGCAGAACATTTATGTGCGTTTTTATAAGTCTT
CCATTTGTGTGAGCACTGAAGAAATTTCTATGAGTAGCTGTTCCAATACAATCTAAAATTGTGATGGACACGATT
ATAAACATACCTGATAAAAAAGGCAGGGTAGTCTTAGCAATAATTATACATCAATTAGATATTGAATATTGTGAA
TCTACTTAATGTTATTTGCTGTAATGCTATAAATGCCCTTTAGAACATGGTGTTTCACTAGTGAATTACATTTAA
GAATAACATTAGATTCTGAAATCATGACTGTACCATTTATTGTTTTAAAGTCAGAGATCATCCATCCATTCTTTG
AATTTTTTCATATATGATACTGATAGGTGGTGCATTCTCATTTTTCTCATACATAGTGATTACAAAGTACCCACAT
TCAGGATGAAGTATGCTTTTTATTGACTGAAGGTATGTTGAAGATCAATAGGCTTGTTTGTATGTATGTTGACTGT
AAACAGAATACAAGCCCTCTAAACCAAATTTTGAAGATGATACATGCTAGAATTGTACCTTTCCAAGGTGAACAG
AACAGCAAGAGCAGGAAAAAGATGTTTTGAGATGTGGATTGCACATTAAGGAGCAACTGGGAAGTTGAACAGATG
AAAATAATTGGTGACATGGAAAGCAGATTGTTTTATTTCTTGGTTTAGTTACACTTCTAATTAGAGAAACATTTT
TTGTGGTCATTCTACAGTGTTTTATTGGTCTGTGTCTTTTCGGAGGTTAATAGTTATCTTAATCCTGCCATCCC
TTTTGTGTCAGGTTTGAAGCTTGACATGGAAAAATAGTCTTAATCGATATTGATTTTTTTTATTTAATCATTCTATAA
ATTTCTTAGTAATGCTTACTATTCAATAGCATGTGTCTTTCTGAGAGTTCCATATAGTCCAGTAGTACATTATAA
TACACACAAATTAATACATATTTAGATTGCATTCAAGCTACCTATACTAGGGAAGCATTCTCTGGTTTTCACTAT
TGGCAGTTTAAAAAATTGTTCTTCACATTTGGAGATGACAGAATTGACTTGCCATAAGTAAAGGGTTGATGATAG
ATTTATGCCAAATCCTCCATATCCCGTGGCTGGACCCATGTGAATAGTGGCTCGCACGAGCACTGTCTGGTAGCT
CTCTAGCTGGCTGGAGTGTAGGATTGCGTTGTTAAGTTATGGAGGGAAAAAGTCATTATGGGATTGATTCCCTTG
AGGATTGATATTTCTTCTTAAAAGGATTCAATCCCATAATTATGACCATCAGCTCTCATGATTACCTAACCAAGTT
AATCAAACCAACCATAGTACTAGTTTACTTTTTAGAGCCAGTATTAATCCTAAAGTAGATAAGTGTAGATTTGGT
TAAGTGTTCTTTAAACATAGTGAATTTCCATTCTATTAAATAGAACTTGAGAAATGTCAGTTATATAAAAAGTTA
TGTTGTAAGTGAATATATTCTATGATAAATACCTAAACTTGAAGCAAAATCTCCTGTCAAGGGTTTGTGTGTGTG
TGTGTGTTTAACTTTCTTATCTATAGATTATTATTTTGAGAAATTCATAGGTTTTCACTTATACATTTTGAGCTT
GTGGACATATGGAGATGTGTGTTTCTCTAAATGAGTGCCTACTATGTGCTGGGCTCGAGGAATACAAAGGTA
GACAATATAGATTTTGTCTTTGCCCTCTGTGGTGGTTGACAATGTTAGCTTAATCTGGAGTATTCTTGAGGAGCC
TTTTGCTCATAGGCTTTAATTTTGTCTGTGACTTTTGCCAGGCTTTGGGGAAATTGACTGCCTTCACTCTTCCCT
GAACTTTGAAGTCCACATAAGGGCTTTCTCATCAGATGGCAGAAATTATAATTTATTAACCTAAACAACCTTAC
AGTGTTCGCTTTGAATTGTATGAATTCTTAGAACTGAGAAGCTAAACAACAGTGATAACAATTTTACATTATC

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FIGURE 3878B

TTTTCTTTCTCCTTTTGTCTCTCTAAAGGTCTCCCAGGCCTTCCCAGTCAAAAATTTTCGTTATTTTGTATCATGT
CACCATGATGTGAGATTTCTGAGCTCTGTTAGATACATTTAGAAATGTCCCTATTTATCAAATGGTGTGTTTGTAC
CCCATAAGTTATCCCTTATGCCCTGTGACTTCTGTGAAATCTTTGTTTTTAAGTGCCAGTAACAAATTTTAGACC
ATCTAGATGAGGGTAGAGAGAGCTTATGCATTGTTTTTATACATCACTGTTGATCTATACAAGATTTGAGTTATC
AGAAGGGTTTTGCTTTTATTTGCATATGAAATTTTTATTAACATGAATATGGGCACAGAGCAAATAGCTTCTTAG
ACTGCTGCCTTCTGAAGGTGGCTTCTGTATCTTTCTCAGAGGAGGAGGAATAGACTTAAACGACTTCTTTGTCTCT
CCTTCAATTTTTTTTTTAAATGAAAAAGTATACTAGGGCTTAGGCATGTGTGATTTACAGTTATTTGTTCTGAAGG
CTGCAGAGAATTGAAAAATCCAGCAGGCCTATTTGTGTATGAAATCATGAGCATCGATAACGTGGATAACGTAGTTC
CATGTTGGCAGAACCTTGACACTTGTCTATAAGTGCTTCCCAAGCCTCCTGAAAACTGAAGACATTTACATTAGG
CTTTTCAGTATAATTTTAAATTTAGGATAGGTTTTTTAGCAATGTATCTGGGATTGAGTTTTGCTATTGTGTTTTG
ACACTTTAAGAGTTCTTGATGTTTACATAATAAGACTTTCTTATGTGACTTAGCTGCTGTTTTAAGGAGAGCCAA
GACGTTTTGTAGGAATTCCTAATTTTTAGCTTAGTGTAGGTTTGGACATTTAAGGTGTAGTGTTAAATAGGAAA
CATTAAAGTATTTTCATCTTAGTTTCTTGTGGTTTTGTGATTTTGTGTTTAAATAACCAAAGGAACATTCCCAT
TAAATCAGTAAGAGTAAAATTTTTCAAACCTGGGGAAAACGCATTTTAGGTTTTTTAAAGAAAATTATTTTAAAA
TGTGACTTAGAAATAACCATACTAATTACATTAGGCATTTGGGGTGATCATGGAAAATTATAAAATATTTTGTAGC
ACTTTAGTCTTTTTCTGTAAATGCAGTTTTACTTTTAAAGAAAGTAAAATTTATCTGGAAAATATGAATTACAG
CGCTAAACCTGGTTTTGTGTGTGTAATATATTATATGGTAACCTTTGTAAAATGTTACTCTACATGAAGATTT
CACTTTGGCCAGTCATTGGTATATATCACTACAACTTAATTTTATTTATGGAAATAAGAACCTCTCATTGGATG
ACTATTCAAATTTCAAAGCAGACTTCTTGAATTGTTTACGTAACCTTTGCCTGAAGGATTTAGACTGCTTTCTAA
TAGTGAAACTAATATATATGGTGGCCAGAGTGTAATATATGCTAATACTTTGGCATGGGAGATATTTATCATGAG
TTTTTACTATTAAAAAATGTTATACATTGCTACGAGTTTTATAAATGATGTTGCCTTCAGAATTTGTGTGAAG
GTACAAAATAAAAAATATCATGTATCTGATGTGCAATGGAAAGTCTTGTCTCATTTAGATATGAGTTCTTGATTA
TATCTGAATATTGATGATTAGAAAAATCTTATGTTCTGTGCTCTTAACAACAGACCCACACACAACAAAAAGC
ATGCTATTTGAGTAACTCTTACGACTTACAAGGCTGAGGGCTGTGGTGTGCATTATTCTTTAGGGTCTTCCACCA
GCAGTGCCTCCTATTAACCTGTGACAAACAAGTCTCTCAATGTTAAAGAACTGGACATGTGTTTTTTATGTTTTT
TGTTAGGAATCAGAAAGTATAAATAATATGCTTGGTTTTCTTTTCTATAGTAACATTTTACAAAAGAGCTGCTAG
GCAGGTATTTTATTCTCAAAGTGATCTCAAACCTGGATGTAAAATTTTAAATTTATTTTTTAAATAGTAGTATAAGA
ATTCTGGCTGCTATTAGTTATTGTTTGTGTTTTCTGGGTTAGAAGCTATTCGAAAAGTCCAGTTTCTGTCCCAGTGT
AGCAAAATGTAGTTCCTCGGTTGTTTTCTTTAAATGCTTTATAATTTTACACTACCTTTTTAATATACAAACCT
CATTCTTCATTGGATAACTTGAAGGCTTTGATTTCTTTAAAAATTTAAATTTTAGTGTGTATATTACTTTGACAG
TTCCCTCATCTTTGAGATGCACTGATCACTGTGCTTGAAAAAGACAATACTGAAGATTGTACTATGAAGTTTATT
GAATAATTTTCATAAATTATTTATCCAAATGAGAGATTTTAGATTTTGTATTCTGCTTAGTTTTAAAAA
AAATAGTAGTTTTAAAGAGAGGCTAGTAAGTTTGATGCTATTCTTGCCAAACAACTCAGCCAAATCTTTAAAG
TAACAAGAGGGAAAAGGATGACTAATCGTTCTGCTTCTGAGTACATTTTCCAAAACGTTGGAAAGAACTTCTGA
ATTGAAATCTTGAATGTATTGAATCTGTCAAGGTACACAGCGGTGCCTTTGTAAATGTTTACTTTTATTTAAT
CAGGTGATAAGTGGTGTAAATGTAGCAGAGCTTAAGAATAGAACTCAATTATCACTTTTTGTGAACAAGTTGGAAT
TGTCATGTTACTGTGTAATTGATTGCTTTACAATGAACAATAAATTTAATAAAAT

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FIGURE 3879

MSTGFSFGSGTLGSTTVAAGGTSTGGVFSFGTGASSNPSVGLNFGNLGSTSTPATTSA PSSGFGTGLFGSKPATG
FTLGGTNTGIATTITTGLTLGTPATTSAATTGFSLGFNKPAASATPFALPITSTSASGLTLSSALTSTPAASTGF
TLNNLGGTTATTTTASTGLSLGGALAGLGGSLFQSTNTGTSGLGQNALGLTLGTTAATSTAGNEGLGGIDFSSSS
DKKSDKTGTRPEDSKALKDENLPPVICQDVENLQKFVKEQKQVQEEISRMSSKAMLKVQEDIKALKQLLSLAANG
IQRNTLNIDKLKIETAQELKNAEIALRTQKTPPGLQHEYAAPADYFRILVQQFEVQLQQYRQQIEELENHLATQA
NNSHITPQDLSMAMQKIYQTFVALAAQLQSIHENVKVLKEQYLG YRKMFLGDAVDVFETRRAEAKKWQNTPRVTT
GPTPFSTMPNAAAVAMAATLTQQQQPATGLNAFKL

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FIGURE 3880

ATGGCTGTTGGCAAGAACAACGCCTTACGAAAGGAGGCCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTT
TCTAAGAAAGAGTGGTATGATGTGAAAGCACCTTCTGTGTTCAATATAAGGAATATTGGAAAGATGCTAGTCACC
AGGACCCAAGGAAACAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAACACCAACAGGTCCGCCAAATC
CGGAAGAATATGATGGAAATCAAGACCCGGGAGGTGCAGAAAAATGACTTGAAAGAAGTGGTCAATAAAATTGATT
CCAGACAGCATTGGAAAAGACATAGAAAAGACTTGCCAATCCATTTATCCTCTCCATGATGTCTTCGTTAGAAAA
GTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAACATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGA
AAAGCCACTGGGAGCAAGACAGGTGCTAAAGTTGAATGA

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FIGURE 3881A

GCGGCCGCGGCGCGGCGGGACCATGGAGCTCAGAGCGCAGCCCCGGCGCCGGCGGGGACCGCGGACCGTTTTA
GTTTTGATTGCTGTAACTACTACTGATAACTGAGCCAAAGTGGTGATGCTACTTGAGGGGAATTTCTGCAACCC
ATAGTCAACGATTACATGATTGTGAACC**ATG**CCTTTAGTGAAGAGGAACATTGAGCCCCGGCACTTGTGCCGGGG
AGCTCTGCCTGAAGGGATTACCAGCGAACTTGAATGTGTAACCAATAGTACTCTTGCCGCTATCATACGCCAGCT
GAGCAGTCTGAGCAAACATGCTGAAGACATATTTGGTGAGTTGTTAATGAGGCTAACAACCTTCTACATCAGAGC
AAATTCTCTTCAAGACAGAATTGATCGCCTTGCTGTCAAAGTCACCCAGCTGGATTCAACAGTGGAAGAGGTCTC
ACTACAGGATATCAACATGAAAAAAGCTTTCAAAGTTCCACAGTCCAAGACCAGCAAGTGGTTTCAAAGAACAG
CATTCCTAATCCTGTTGCTGATATTTACAACCAGAGTGATAAGCCACCGCCTCTGAACATCCTGACACCATAACAG
AGATGACAAGAAGGATGGGCTGAAGTTCTATACTGATCCTTCCTATTTCTTTGACCTCTGGAAAGAAAAAATGCT
ACAGGACACAGAAGACAAAAGGAAAGAGAAAAGGCGTCAAAGGAGCAAAAGCGTATAGATGGCACCACCCGTGA
GGTGAAAAAGGTTAGAAAAGCCAGAAACAGGCGCCAGGAGTGAATATGATGGCATATGACAAAGAGCTTAGACC
CGACAACAGGTTGTCTCAGAGTGTGTACCATGGAGCGTCTTCCGAGGGATCCCTGTCCCCAGATACTAGGTCACA
TGCATCGGACGTTACGGATTACTCTTACCCGGCTACTCCCAACCATTCTCTGCACCCCCAGCCTGTGACCCCTTC
CTATGCAGCTGGTGACGTGCCACCACACGGGCCTGCAAGCCAGGCTGCGGAGCATGAGTACCGGCCCCCATCTGC
CTCGGCGAGGCACATGGCCCTCAACAGACCTCAGCAGCCGCCCCCCCCCGCTCCCCCTCAGGCCCCAGAGGGGTC
CCAGGCCTCTGCACCGATGGCTCCAGCAGACTACGGGATGCTCCCAGCGCAGATAATTGAGTATTACAACCCATC
CGGACCACCTCCTCCGCCACCTCCTCCTGTGATTCCCTCAGCACAACTGCCTTCGTCAGCCCTCTCCAGATGCC
CATGCAGCCCCCGTTCCCTGCATCAGCCAGCTCCACGCACGCAGCTCCTCCTCACCACCCCTCCACCGGGCTCCT
GGTCACAGCCCCGCCACCCCCGGGCCACCACCTCCCCGCCAGGCCCTCCTGGTCCCGGGTCTTCTCTTTTCGTC
CTCCCCAATGCATGGCCCCCAGTAGCTGAGGCGAAGCGGCAAGAGCCTGCACAGCCACCAATCAGTGATGCTCG
AAGCGACCTCCTCGCTGCTATTTCGAATGGGAATTCAACTGAAAAAGGTGCAGGAGCAGCGGGAGCAGGAGGCCAA
GCGGGAGCCAGTGGGAATGACGTGGCCACGATCCTGTCCGGCGCATTGCCGTGGAGTACAGCGACTCTGACGA
CGACTCAGAGTTCGACGAGAACGACTGGTCCGACT**AG**ACAAAGGCCGGCGGAGAGGCCGCGTGTGGGAGCGTGT
GAAGATTTTAAGTGGTCTCTACACCCAAATAGTGGTATTCTAATCCCGTAGCATAGCACCTTTTGTATAAACAAT
GTGATATTGCTTCTGCACATCCAAAAATTCTGGGTCTTTTTCAGTATTTACTGTGTAATACTTAAGTGCCACTAAA
CATAGCAAATTGTGCTGCACATGAGGAAATAGGCTGTCACTATCACATTGTCTGAAAACAGCATCTGCTTTCCCT
CTTGCCCATGAGAGTATTTAGTGCAGTTTGGGTTTACTCTTACTGATCAATATAACTCTGCAGACTTGCTGTGTG
TTTGTGAAGCTGCCTGGTGTAGGTCTCTGCAAGACTAATGACTATGTCAGAGTGATGTCTTCCAACCAGTAAGT
GATATTGTTTACCCTTTGGTTTTTTCCTTTTGTTTTTTAAAGGATGTGTTTCTGAATAAGTTGGTTTTAGAGG
GAAAGGTTCAACAAACAGGGAGAATCCAGTGTCTTCTGCTTTTCAGTTTCTTGGCTTGGTAGCCTCTGAGTGAATCT
GATGCTCTGCTGAATAATTTTACCTCTGCACATGCCTGTCAAATATGAAATTGGAAGGGCCCTTTTCAGGCT
GGTTTCCCTGTGGGCATTTGCTTAGTAAATGCCTGTTGATGGTTTTTGAAGAGAATTTCAGCAGCTCAACAGTAA
TGAAAGTGAAGAACAGAGTCCATTTTCTTCTGGGGCCATTGGGGATGACACTCAAGATACTTGCCAGTCTCTC
CAGTGTGGGCACCAGCCGGCCAGAACAGATGCGAGCAGTCCATGACTCTGGGAGCTACACCGCTGAGCTGGGCAG
AGCTGCGGCACAGGGCCTGGGCTGCAAAGGAGCCCTGCTCCTTTAGTTTCTGACACCTGTGTCCTGAGTGAGCC
GCAGGAGTTCTTAGCTCCTCAGCGAGCAACAGAGAGCACTTTAGATGGCACCTTTCACCACTTGGTCAGAATTTT
AAAAGCTTAGGTTTAGGTGAAAGTAGATATTGACAGCTATTCACCTTTCACGGTGCTGGGGCCAGATTAGGGATC
ACTCCCGTGAGGAGGGCCTTCACCTGTCTAGAACACATGGTTGTCTCCTGTTGTTGGCACATTAAATGATA
AAAAGCACCTCATGAGATTCCCTTGATCAGCCCTGCAGCTGTAGTACAGTGCTGTGCCCTCACCTCCACCTTCC
TGTGTTTCCACGTGGGCAATACCAGGGACCCATGGGGAACTCAAGAATGACAGCTTCTATATTTGTAATTCT
GGATGAAAGATAACTGTGTTGAACAAACAGGTGCTCCAGGCTTTGATTATAGATACGACTTCAAAAATATGCTAA
GACGCTTGACTTATTAAGGACTTTAACCTACTCAACAGTATTTTCATATCCATTGTGGTTAGTTACTCAGTTATGT
TGAGAAGAATCTGGAGCTAAAAGCAGAGATGTTTGAGGTGACGGTAGGAATGTGAGCAGGATGGTGATGGGGGTT
TTTGTTAAATGCATCTGAGCAAGTCAGCCAGCCCCGAAGTCCCTCAGTGTGTGTGCTCGAGTGGCTACCTGT
TGGGCTTGTGGGCAGTGATTGTACAGAGCCTGTCCATTGGGTGCAGTCATGTAGATCTGAAGCCCTGAAAAGCCT
CATGTCTGCATCCCCTTTTCCAAGGCTGCTTCCCTGGTGTGTCTGTTCTCTCCTCTGTCCCAGGTGCTGGGAGCGT
CCTCTTCAGCGTCTTTTCTAGAGCTGGTCCACCTAGGCTGTCACTATAAATTCCTTGAATATAAGTAACAGTT
ATTAATGAACCTCTAAATTTCTAATTTCTCTCTCTCTCTCTTTTTTTTTTTTTTTTGTGTTGTTAAAAAGGGCCTA

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FIGURE 3881B

CTACATTGGCGCTATTCTTAGGACTTCTGCAACTTTTAAAGTCTTACTTGTCTTTCTTGTTGCTTTTGTATTAGG
AGTTCCCGTGTGGGTCTAGAACTCCCTTTGGTAATGCTTCTTTGTTTTTTATGGCCCTTCTGTTCTCAGGAT
GGAGAGAACACAGAAGCTACTATCCATGTCAGGATTTATTCTATTTATATCTTATTACAATAAAATTAGTGGCAC
TTTATTCATAAATATTCATGAGCCTGTTAATTGTTAGTTGTCTTCCTGTAGCTGAATCAACAAGTTATTTTCAAC
TCAATTTTATGACTTGCGAAAAAGCTTTTGCCCTGTTGTGTACCATAACATTTAAAAGAATGGAAAATGACTGAA
ATCCAATTTAGATTATTTTATAGAGTATTTTCCAGCAAATTCAATTTATTCTGAAATTTAAATCCAGATCTTTTC
TAATATGGTATTACAATGAAAAGAATAAAGAGAAGATTTGAATTTTCAGTTTCATTTTCAAAAACCTATTTACCAA
AACAAATGGAGAAGAAACATCCAAAAGCACATTTTCATTTCTCCAAACTTTGTGTTTTAAATTATAGTTATAAATT
GTAAGGTAATTTTAAATTGTCCCTCGTATTATTTCTCCACGTCCTGTTTTAGTTTAAATGTCTCCTAAGCTTTTCTC
TCATAGCGTAGACCTAGGGAAGGGATGGGAAGATTGCCAGTCCCGATGGCTGCGCACACAGGAGGCGGCGGAG
CACAAGGCAAGTGAGTTTGCACGTGTCAGCCCCAGACCGTAAGCTTGGCTACACTGATGTTTTTCTTTACTAAGGA
TACTATTCAAAAATTAACATTTTCATCTCAGTAAGTTTTTAGAACATCAAAATGTTTTCTGAGCTCCAAGTGGCT
AGGTTGTAAAAGTTTTATAATAATTTGCAATTAAAATACATGATACATATTAATCCATTAAAGACTAGTGGGAAT
GTATCAGCCAGAGTAGCAAGTAATTTTTGTTTTATAAATCATAGTATCTGTCATCTTGCAGTATTACCAATGCTG
TTGTAAATTGAATTTAAAGTGGTATTAAAAAAAAGTGTAAACAATTTTATCTGTTTGTATATCTTACTATAGA
TTATGTACAAGTAACATCTAAATAAAATTACACTTTTAACCT

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FIGURE 3882

[illegible]

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FIGURE 3883

ATGCGCGATCTCCCGGAGCATGCGCAGCAGCGGCGCCGACGCGGGGCGGTGCCTGGTGACCGCGCGCGCTCCCGG
AAGTGTGCCGGCGTCGCGCGAAGGTTTCAGCAGGGAGCCGTGGGCGGGCGCGCCGGTTCCCGGCACGTGTCTCGG
CACGTGGCAGCGCGCCTGGCCCTGGGCTTGGAGGCGCCGCGGCCCTGGATCCGCGCGCCGTGGTCGCGGAGTCGG
TGTCTGTCCTTGACCATCGCCGACGCGTTCATTGCAGCCGGCGAGAGCTCAGCTCCGACCCCGCCGCGCCCCGCGC
TTCCAGGAGGTTTCATCTGCTCCTTCCCTGACTGCAGCGCCAATTACAGCAAAGCCTGGAAGCTTGACGCGCACC
TGTGCAAGCACACGGGGGAGAGACCATTGTGTTGTGACTATGAAGGGTGTGGCAAGGCCTTCATCAGGGACTACC
ATCTGAGCCGCCACATTCTGACTCACACAGGAGAAAAGCCGTTTGTGTTGTGCAGCCAATGGCTGTGATCAAAAAT
TCAACACAAAATCAAACCTTGAAGAAACATTTTGAACGCAAACATGAAAATCAACAAAAACAATATATATATGCAGTT
TTGAAGACTGTAAGAAGACCTTTTAAGAAACATCAGCAGCTGAAAATCCATCAGTGCCAGCATAACCAATGAACCTC
TATTCAAGCTATGTATGTCAAAAAGGATGTTCCCTTTGTGGCAAAAACATGGACGGAACCTTCTGAAACATGTGAGA
GAAACCCATAAAGAGGAAATACTATGTGAAGTATGCCGGAACATTTAAACGCAAAGATTACCTTAAGCAACAC
ATGAAAACCTCATGCCCCAGAAAGGGATGTATGTGCTGTCCAAGAGAAGGCTGTGGAAGAACCTATACAACCTGTG
TTTAATCTCCAAAGCCATATCCTCTCCTTCCATGAGGAAAGCCGCCCTTTTGTGTGTGAACATGCTGGCTGTGGC
AAAACATTTGCAATGAAACAAAGTCTCACTAGGCATGCTGTTGTACATGATCCTGACAAGAAGAAAATGAAGCTC
AAAGTCAAAAATCTCGTGAAAAACGGAGTTTGGCCTCTCATCTCAGTGGATATATCCCTCCCAAAGGAAACAA
GGGCAAGGCTTATCTTTGTGTCAAAACGGAGAGTCACCCAACCTGTGTGGAAGACAAGATGCTCTCGACAGTTGCA
GTACTTACCCTTGGCTAAGAACTGCACTGCTTTGTTTAAAGGACTGCAGACCAAGGAGCGAGCTTTCTCTCAGAG
CATGCTTTTCTTTATTAAATTAATGATGCAG

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FIGURE 3884

GGGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTTCGCAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGGAAAAGGTTTTCTTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCCTTGAATTA
TCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAAACATTCAGGGTCTATTTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACTGGATGTTTTGAGGGGTAAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGGAAATATAAACTTGGTTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTTHATAGTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTTAAAAATTTGGAGGGGTCTTTGGTTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAATAACAGTAGCCTTTGTCTTTAAAAAAGTTGTTG
CTCATGAATATTATAAAATGATCTACAGGTTTCAATTCAACCTGTTTCTAGGTTTTTTTGTAAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTTAATTGATTTC
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTCTGTCATTAACTCATAAGAATAATATTTAC
TGTGTCAGTGCTATTTTAGGATTATAGTTATTGTTTGATTATTTTCAGGTTGAAAAGTAGAAGTTCCAAGGTTTTG
ATTTTGGTCTGGTCTTTAAGTGAAAAATTAAAGCAACCAGTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAATATATTGCCAAGCAACACTGTAAAGAAAAGTAAACTCATTTTTTCTTGTTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAATTTACATTTTGTAGAACATTAGTGAATGG
ATCATCTTTTACAATTAAAAGTATATTTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 3885

MNARGLGSELKDSIPVTELSASGPFESHDLRLKGFSCVKNELLPSHPLEELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDETIGFEDILNDPSQSEVMGEPHLMVEYKGLL

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FIGURE 3886

ACACTGATGATGTTTTAGCCAGGGTGCCGTTCCTTTTCACTATTGTGCCATTCTCTGTTCTACGGTCCATGTTG
TCAAAAGTGGTTCGTTTCGACTGAACAAGGTACCCTGTTTGCTTGTATTGCTTTCTTAGAAACACTTGGAGGAGTC
ACTGCAGTTTCTACTTTTAATGGAATTTACTCAGCCACTGTTGCTTGGTACCCCTGGCTTCACTTTCCCTGCTGTCT
GCTGGTCTGTTACTACTTCCAGCCATCAGTCTATGTGTTGTCAAGTGTACCAGCTGGAATGAGGGAAGCTATGAA
CTTCTTATACAAGAAGAATCCAGTGAAGATGCTTCAGACAGAGCCTGTTAAGCTGCTATTGATAGTCGGAGCTTA
TATACTGTGACTTCTGAAGACTATACATGAATTCACAATCAGTGCTTTGTTGATACAAAATCCTTAAAAGGGAG
GCACTTTAAAGAATATGTATTTTTCACTTTTCTTAATATGTTTCATCGGTGACAGGCATGATAATATTTCTATAT
GTAATGGGTAATTGGGAAAAAATAGATGATAAATAAAATTGCTCTAAAGAAGTT

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FIGURE 3887

GAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTCGCTGAGGAAAAATAACTAAA
C**ATG**GGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTTTTTGTGCAAACTTGTCTGGGA
GGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAGAAGTGCTCAGAGAGGTGGAA
GACCATGTCTGCTAAAGAGAAAAGGAAAATTTGAAGATATGGCAAAGGCGGACAAGGCCCGTTATGAAAGAGAAAT
GAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGATCCCAATGCACCCAAGAGGCCTCCTTC
GGCCTTCTTCTCTTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGAACATCCTGGCCTGTCCATTGGTGATGT
TGCGAAGAAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTTATGAAAAGAAGGCTGCGAA
GCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAAGCCTGATGCAGCAAAAAAGGGAGT
TGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAGATGAAGAGGATGAGGAGGAGGA
GGAAGATGAAGAAGATGAAGATGAAGAAGAAGATGATGATGATGAAT**TAA**GTTGGTTCTAGCGCAGTTTTTTTTTTC
TTGTCTATAAAGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAATTGAAATGTAAGGCTGTG
TAAGATTTGTTTTTAAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATGTGTCTTTAGATAGCC
CTGTCTGTGGTGGTATTTTCAATAGCCACTAACCTTGCCTGGTACAGTATGGGGGTGTGAAATTGGCATGGAAATT
TAAAGCAGGTTCTTGTGGTGCACAGCACAAATTAGTTATATATGGGGATGGTAGTTTTTTTCATCTTCAGTTGTC
TCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTTAAGTGAATACCACTCTGTAATTGCAAAAAAAAAAAAAAG
TTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTTATTAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 3888

MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREM
KTYIPPKGETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKA
LKEKYEKDIAAYRAKGKPDAAKKGVVKAESKKKKEEEEDEEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDDDE

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FIGURE 3889

CGGAGGTGAGGTTTGTACCGCGATTCTGAGAGGTGGGCTTTTAGTCCCTCCAGACCTCGGCTTTAGTGCTGTCT
CCGCTTTTCTTTACCTTCACAGAGGTTTCGTGTCTTCTAAAAGAAGGTTTATTGGGAGGTAAAGGTCAATGCG
TAGGGGTAGAGTAAGATGCTCTTATGGTGAAATTGAAGGTAAATTCTTGGGACCTAGAGAAGAAGTAACGAGTGAG
CCACGCTGTAAAAAATTGAAGTCAACCACAGAGTCGTATGTTTTTACAATCATAGTAATGCTGATTTTCACAGA
ATCCAAGAGAAAACCTGGAAATGATTGGGTCCCTGTGACCATCATTGATGTCAGAGGACATAGTTATTTGCAGGAG
AACAAAATCAA^ΔACTACAGATTTGCATAGACCTTTGCATGATGAGATGCCTGGTAATAGACCAGATGTTATTGAA
TCCATTGATTCACAGGTTTTACAGGAAGCACGTCTCCATTAGTATCCGCAGACGATGAGATATATAGCACAAAGT
AAAGCATTTATAGGACCCATTTACAAACCCCCCTGAGAAAAAGAAACGTAATGAAGGGAGGAATGAGGCACATGTT
CTAAATGGTATAAATGACAGAGGAGGACAAAAAGAGAAACAGAAATTTAACTCTGAAAAATCAGAGATTGACAAT
GAATTATTCCAGTTTTACAAAGAAATTGAAGAGCTTGAAGGAAAAAGATGGTTTTGAGAACAGTTGTAAAGAA
TCTGAACCTTCTCAGGAACAATTTGTTCCATTTTATGAGGGTCATAATAATGGTCTCTTAAACCTGATGAAGAA
AAGAAAGATCTTAGTAATAAAGCTATGCCATCACATTGTGATTATCAGCAGAACTTGGGGAATGAGCCAGACAAA
TATCCCTGTAATGGACAAGTAATACCTACATTTTGTGACACTTCATTTACTTCTTTCAGGCCTGAATGGCAGTCA
GTATATCCTTTTATAGTGCCCTATGGTCCCCCTCTTCCAGTTTGAACATCATTTAAACATTGAGAGATTCAGT
GGTCCACCAAATCCACCATCAAATATTTTCCAAGCCCAAGATGACTCTCAGATACAAAATGGATATTATGTAAAT
AATTGTCATGTTAACTGGAATTGCATGACTTTTGATCAGAACAATGAATATACTGACTGTAGTGAGAATAGGAGT
AGTGTTCATCCCTCTGGAAATGGCTGCAGTATGCAAGATCGATATGTGAGTAATGGTTTCTGTGAAGTCAGAGAA
AGATGCTGGAAAGATCATTGTATGGACAAGCATAATGGAACAGACAGGTTTGTGAACCAGCAGTTTCAAGAGGAA
AAGTTAAATAAATTGCAGAAGTTACTTATTCTTTTAAAGAGGTCTGCCTGGTTCTGGGAAAACAACATTGTCTCGA
ATTCTGCTTGGTCAGAATCGTGATGGCATTGTGTTTCAGCACTGATGACTATTTTACCATCAAGATGGGTACAGG
TATAATGTTAATCAACTTGGTGATGCCCATGACTGGAACCAGAACAGAGCAAAAACAAGCTATCGATCAGGGAAGA
TCTCCAGTTATAATAGATAACACTAATATACAAGCTTGGGAAATGAAGCCATATGTGGAAGTGGCCATAGGAAAA
GGATACAGAGTAGAGTTTCATGAACCTGAAACTTGGTGGAATTTGATCCTGAAGAATTAGAAAAGAGGAATAAA
CATGGTGTGTCTCGAAAGAAGATTGCTCAGATGTTGGATCGTTATGAATATCAAATGTCCATTTCTATTGTAATG
AATTCAGTGGAACCATCACACAAAAGCACACAAAGACCTCCTCCTCCACAGGGGAGACAGAGGTGGGGAGGCTCT
CTTGGCTCACATAATCGTGTCTGTGTACAAATAATCATTA^ΔATTAGCTATTTTCAGCTAACACATTTGTTGTTG
CACTTGAAAAAGAGTTAGTGAGCCTGTCTTGGAGTTTAAAGTAGTTTCAAATAAAAAAAGGCTACAGTGCCTCACA
AAGGATGTTCCAGCAAGTTGTTTAAATTCAGCAAGTTGTTAAAGTGTAATAAAAAATATATGAAATTGTATT
TTAAATGTTTTTATATTCTCTTGTGTTGTAATACTCTTGGCTGTTATGGAAGCACCTGAGTAATAGAGTGGTGGGTA
GGAGCTAGGATGTTTTTCTACAATCGAATTTTAACTAATTTATCTATTTTATAGACACTATTGAACAGTTTTTT
AATAGTTCATATCTAAATCTAACTTTTCATAAACTTTACGGTTTTTCTTCACTACCTTAAATATGCAAGAAAT
ACTGACTTGGTATAGGGTACCTTAGTTTTCTCTATTCTATTAGACAGGTAAAAATTATTTTCAGCTGATTGATCTG
TGTGACAAAATTATTTCTTAGCTATAATCAGCACATCACTTAGTTCAAACAAAATTCCCCAGCAAATGTTAGATA
GTAGGTATATCAGTCACCTGGGGAGTTTTCTTCATAATATGCATATTCATCTTGTAAATGCATACATAGTTATCAT
CCTCCTTCTCAACCCATCTCCCTAACCCACATGCTTGCCAGTTCTTGAAGGGATAAAGTGATTCTAATAATGTT
TTACTTCTCTCTGTTCAATTTAATGTGATATAATTCTAGTATAAAAAATATTTTGGACAGTTGCTTAACATGGTCA
TAAGAGGATTTGTACTATAGAATATCTTCTAGTACTAATTTTTCTGTAGAGCAAATTATATTTCTCTCACTGGAT
AGTTTTTAGATGTGTTTCTTCATATAAAATTA^ΔAACTGAGATGGAATTC

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FIGURE 3890

MSYGEIEGKFLGPREEVTSEPRCKKLKSTTESYVFHNHNSNADFHRIQEKTGNDWVPVTIIDVRGHSYLQENKIKT
TDLHRPLHDEMPGNRPDVIESIDSQVLQEARPPLVSADDEIYSTSKAFIGPIYKPPEKKRNEGRNEAHVLNGIN
DRGGQKEKQKFNSEKSEIDNELFQFYKEIEELEKEKDGFESENCKESEPSQEQFVPFYEHNNGLLKPDEEKKDLS
NKAMP SHCDYQQNLGNEPDKYPCNGQVIPTFCDTSTFTSRPEWQSVYPFIVPYGPPLPSLNYHLNIQRFSGPPNP
PSNIFQAQDDSQIQNGYYVNNCHVNWNCMTFDQNNETDCSENRSSVHPSGNGCSMQDRYVSNGFCEVRERCWKD
HCMDKHNGTDRFVNQQFQEEKLNKLOKLLILLRGLPGSGKTTLSRILLGQNRDGIVFSTDDYFHHQDGYRYNVNQ
LGDAHDWNQNRKQAIQGRSPVIIDNTNIQAWEMKPYVEVAIGKGYRVEFHEPETWWKFDPEELEKRNKHGVSR
KKIAQMLDRYEYQMSISIVMNSVEPSHKSTQRPPPPQGRQRWGGS LGSHNRVCVTNNH

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FIGURE 3891

CGAGCTGCCATGAGCCTCTGGGTGGACAAGTATCGGCCCTGCTCCTTGGGACGGCTGGACTATCACAAGGAGCAG
GCGGCCCAGCTGCGGAACCTGGTGCAGTGTGGTGACTTTCCTCATCTGTTAGTGTACGGACCATCAGGTGCTGGA
AAAAAGACAAGAATTATGTGTATTTTACGTGAACCTTATGGTGTGGAGTGGAAAAATTGAGAATTGAACATCAG
ACCATCACAACTCCATCTAAAAAATAATTGAAATTAGCACCATTGCAAGTAACTACCACCTTGAAGTTAATCCT
AGTGATGCTGGAAATAGTGACCGAGTAGTCATTTCAGGAGATGTTGAAAACAGTGGCACAATCACAACAACCTTGAA
ACAAACTCTCAAAGGGATTTTAAAGTGGTATTATTGACAGAAGTTGACAAACTCACCAGATGCTCAGCATGCC
TTGCGAAGAACCATGGAAAAATATATGTCTACCTGCAGATTGATCTTGTGCTGCAATTCTACATCTAAAGTGATC
CCACCTATTTCGTAGTAGGTGCTTGGCGGTTTCGTGTGCCTGCTCCCAGCATTGAAGATATTTGCCACGTGTTATCT
ACTGTGTGTAAGAAGGAAGGTCTGAATCTTCCTTCACAACCTGGCTCATAGACTTGCAGAGAAGTCTTGTAGAAAT
CTCAGAAAAGCCCTGCTTATGTGTGAAGCCTGCAGAGTGCAACAATATCCTTTTACTGCAGATCAAGAAATCCCT
GAGACAGATTGGGAGGTGTATCTGAGGGAGACTGCAAATGCTATTGTTCAGTCAGCAAACTCCACAAAGGCTCCTT
GAAGTTCGTGGAAGGCTGTATGAGCTTCTAACTCATTGTATTCTCCTGAGATAATAATGAAGGGCCTTCTCTCA
GAACTGTTACATAATTGTGATGGACAACCTGAAAGGGGAGGTGGCACAATGGCAGCTTACTATGAGCATCGTCTA
CAGCTGGGTAGCAAAGCCATTTATCACTTGAAGCGTTTGTGGCCAAATTCATGGCACTTTATAAGAAGTTCATG
GAGGATGGATTGGAAGGCATGATGTTCTGACTTCTGTCTGAGTTATTCTTGCAAAGATTTCTCAGTATCAGTATTTA
CATACAGCTTATATTAAAAGAGCTGTGGGTAAATTAACCTGAACCTTAATCATGTCTGTTATTTGGGTTTTTTTGGTAA
TAACTTCTCTGTGAACCTATTAATCATCCTCTGAGTTAAATAATTGCTCCTATACTATTGAAGTATGTAGTTTTGT
ACATAACTTAGAGACTTTAGAGTCTAAGAAAATGATCTTAATTTACTTTAAGCATTGGTTATTCAAGTATTCATT
GTTGATCCTCCTATTCTCTTCCGTCTAATCTCTCACCTGCTAAAGGAGATTTACACATTAGAAAGCAAAGATTAT
TTTCATTTATCCAGATGACCATTTTCTGCCACAGGTAACATGATTGTTTGACGG

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FIGURE 3892

MSLWVDKYRPCSLGRLDYHKEQAAQLRNLVQCGDFPHLLVYGPSGAGKKTRIMCILRELYGVGVEKLRIEHQTIT
TPSKKKIEISTIASNYHLEVNP SDAGNSDRVVIQEMLKTVAQSQQLETN SQRDFKVVLLTEVDKLT KDAQHALRR
TMEKYMSTCRLILCCNSTSKVIPPIRSRCLAVRVPAPSI EDICHVLSTVCKKEGLNLPSQLAHLRLAEKSCRNLRK
ALLMCEACRVQQYPFTADQEIPETDWEVYLRETANAIVSQQTPQRLLEVGRGRLYELLTHCIPPEIIMKGLLSELL
HNCDGQLKGEVAQMAAYYEHRLQLGSKAIYHLEAFVAKFMALYKKFMEDGLEGMMF

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FIGURE 3893

GGGCGGGAAGATGGCGGCTGGGTTCAAAACCGTGGAACCTCTGGAGTATTACAGGAGATTTCTGAAAGAGAACTG
CCGTCCTGATGGAAGAGAACTTGGTGAATTCAGAACCACAACCTGTCAACATCGGTTCAATTAGTACCGCAGATGG
TTCTGCTTTAGTGAAGTTGGGAAATACTACAGTAATCTGTGGAGTTAAAGCAGAATTTGCAGCACCATCAACAGA
TGCCCCTGATAAAGGATACGTTGTTCCCTAATGTGGATCTACCACCCCTGTGTTTCATCGAGATTCCGGTCTGGACC
TCCTGGAGAAGAGGCCCAAGTGGCTAGCCAGTTCATTGCAGATGTCATTGAAAATTCACAGATAATTCAGAAAGA
GGACTTATGCATTTCTCCAGGAAAAGCTTGTCTGGGTTCTATACTGTGATCTCATTTGCCTCGACTACGATGGAAA
CATTTTGGATGCCTGCACATTTGCTTTGCTAGCGGCTTTAAAAAATGTACAGTTGCCTGAAGTTACTATAAATGA
AGAACTGCTTTAGCAGAAGTTAATTTAAAGAAGAAAAGTTATTTGAATATTAGAACTCATCCAGTTGCAACTTC
CTTTGCTGTGTTTGATGACACTTTGCTTATAGTTGACCCTACTGGAGAGGAGGAACATCTGGCAACAGGAACCTT
AACAAATAGTAATGGATGAGGAAGGCAAACCTCTGTTGTCTTCACAAACCAGGCATGTTCCCGCCACTTCAGTCCTA
AACATATGTAGATGAAAACCTCAGTGTGAGCCTTAAATTAGGGAGGGCCAAATAGAATATGG

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FIGURE 3894

MAAGFKTVEPLEYYRRLKENCRRPDGRELGEFRITTTVNIGSISTADGSALVKGNTTVICGVKAEFAAPSTDAPD
KGYVVPNVLDLPPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQKEDLCISPGKLVWVLYCDLICLDYDGNILD
ACTFALLAALKNVQLPEVTINEETALAEVNLKKKSYLNIRTHPVATSFVFDLTLIVDPTGEEHHLATGTLTIV
MDEEGKLCCLHKPGGSGLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

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FIGURE 3895

AGAGACTCAAGATGATTCCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCCTATAAACGCCA
ACAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTC
AACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAGAACTGGTATAAAAAGTCCATCTGTGGACAGA
AAACGACTGTGTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCCAGCAGTTTTGC
CCATTGACCATGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCAAAAC
TGAGGGAGGAGATCGAGGGAAAAGGGATCCTTCACCTACTTTGCACCGAGTAATGAGGCTTGGGACAACCTTGGATT
CTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTACTGAATGCTTTACATAGTCACATGATTAATA
AGAGAATGTTGACCAAGGACTTAAAAAATGGCATGATTATTCCTTCAATGTATAACAATTTGGGGCTTTTTCATTA
ACCATTATCCTAATGGGGTTGTCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAATGGTG
TTGTCCATGTCATTGACCGTGTGCTTACACAAATTGGTACCTCAATTCAAGACTTCATTGAAGCAGAAGATGACC
TTTCATCTTTTAGAGCAGCTGCCATCACATCGGACATATTGGAGGCCCTTGAAGAGACGGTCACCTTCACACTCT
TTGCTCCCACCAATGAGGCTTTTGAGAACTTCCACGAGGTGTCCTAGAAAGGATCATGGGAGACAAAGTGGCTT
CCGAAGCTCTTATGAAGTACCACATCTTAAATACTCTCCAGTGTCTGAGTCTATTATGGGAGGAGCAGTCTTTG
AGACGCTGGAAGGAAATACAATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAAATGGTGA
ACAAAAGGATATTGTGACAAATAATGGTGTGATCCATTTGATTGATCAGGTCCTAATTCCTGATTCTGCCAAAC
AAGTTATTGAGCTGGCTGGAAAACAGCAAACCACCTTCACGGATCTTGTGGCCAATTAGGCTTGGCATCTGCTC
TGAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATGGATC
AGCGCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTTAATGAGCTTTACAACGGGC
AAATACTGGAACCATCGGAGGCAAACAGCTCAGAGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCAT
GCATGGAGAAAGGGAGTAAGCAAGGGAGAAACGGTGCGATTACATATTCCGCGAGATCATCAAGCCAGCAGAGA
AATCCCTCCATGAAAAGTTAAAAACAAGATAAGCGCTTTAGCACCTTCCTCAGCCTACTTGAAGCTGCAGACTTGA
AAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACCAATGATGCTTTTAAGGGAATGACTAGTG
AAGAAAAAGAAATCTGATACGGGACAAAATGCTCTTCAAACATCATTCTTTATCACCTGACACCAGGAGTTT
TCATTGGAAAAGGATTTGAACCTGGTGTACTAACATTTTAAAGACCACACAAGGAAGCAAATCTTTCTGAAAG
AAGTAAATGATACACTTCTGGTGAATGAATTGAAATCAAAAGAATCTGACATCATGACAACAAATGGTGTAAATTC
ATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAAATGATCAACTGCTGGAAATACTTAATAAAT
TAATCAAATACATCCAAATTAAGTTTGTTCGTGGTAGCACCTTCAAAGAAATCCCCGTGACTGTCTATACAACATA
AAATTATAACCAAAGTTGTGGAACCAAAAATTAAAGTGATTGAAGGCAGTCTTCAGCCTATTATCAAACTGAAG
GACCCACACTAACAAAAGTCAAAATTTGAAGGTGAACCTGAATTCAGACTGATTAAAGAAGGTGAAACAATAACTG
AAGTGATCCATGGAGAGCCAATTATTAAAAAATACACCAAAATCATTGATGGAGTGCCTGTGGAAATAACTGAAA
AAGAGACACGAGAAGAACGAATCATTACAGGTCCTGAAATAAAATACACTAGGATTTCTACTGGAGGTGGAGAAA
CAGAAGAACTCTGAAGAAATTGTTACAAGAAGAGGTCACCAAGGTCACCAAAATTCATTGAAGGTGGTGATGGTC
ATTTATTTGAAGATGAAGAAATTAAGAGACTGCTTCAGGGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAAA
AAGTTCAAGGATCTAGAAGACGATTAAGGGAAGGTCGTTCTCAGTGAAAATCCAAAAACCAGAAAAAAATGTTTA
TACAACCCTAAGTCAATAACCTGACCTTAGAAAATTGTGAGAGCCAAGTTGACTTCAGGAACTGAAACATCAGCA
CAAAGAAGCAATCATCAAATAATTCTGAACACAAATTTAATATTTTTTTTTCTGAATGAGAAACATGAGGGAAAT
TGTGGAGTTAGCCTCCTGTGGTAAAGGAATTGAAGAAAATATAACACCTTACACCTTTTTTCATCTTGACATTAA
AAGTTCTGGCTAACCTTTGGAATCCATTAGAGAAAAATCCTTGTCACCAGATTCATTACAATTCAAATCGAAGAGT
TGTGAACTGTTATCCCATTGAAAAGACCGAGCCTTGATGTATGTTATGGATACATAAAATGCACGCAAGCCATT
ATCTCTCCATGGGAAGCTAAGTTATAAAAAATAGGTGCTTGGTGTACAAAACCTTTTTATATCAAAAGGCTTTGCAC
ATTTCTATATGAGTGGGTTTACTGGTAAATTATGTTATTTTTTACAACATAATTTTGTACTCTCAGAATGTTTGTCT
ATATGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACCATTTTTCAGATATAAAGAGAATTA
CTTCAAATTGAGTAATTCAGAAAAACTCAAGATTTAAGTTAAAAAGTGGTTTGGACTTGGGAA

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FIGURE 3896A

GCAGCCGCCACATTCAACAGGCAGCAGCGCAGCGGGCGCGCCGCTGGGGAGAGCAAGCGGCCCGCGGCGTCCGTC
CGTCTTCCGTCCGCGGCCCTGTCAGCTGGAGCGCGGCGCAGGCTCTGCCCCGGCCCGCGGCTCTGGCCGGCCG
TCCAGTCCGTGCGGCGGACCCCGAGGAGCCTCGATGTGGATGGCCCCGCGAAGTTAAGTTCTGGGCTCGCGCTTC
CACTCCGCGCGCCTTCTCCAGTTTCCGTCCGCTCGCCGCACCGGCTTCGTTCCCCCAAATCTCGGACCGTCC
CTTCGCGCCCCCTCCCCGTCCGCCCCAGTGCTGCGTTTCTCCCCCTCTTGGCTCTCCTGCGGCTGGGGGAGGGGC
GGGGGTACCA**ATG**GCGGAGGCGCCTCAGGTGGTGGAGATCGACCCGGACTTCGAGCCGCTGCCCGGCGCGCTC
GTGCACCTGGCCGCTGCCAGGCCGGAGTTTAGCCAGTCCAACCTCGGCCACCTCCAGCCCGGCGCCGTCGGGCAG
CGCGGCTGCCAACCCCGACGCCGCGGCGGGCCTGCCCTCGGCCTCGGCTGCCGCTGTCAGCGCCGACTTCATGAG
CAACCTGAGCTTGCTGGAGGAGAGCGAGGACTTCCCGCAGGCGCCCGGCTCCGTGGCGGCGGCGGTGGCGGCGGC
GGCCGCCGCGGCCGCCACCGGGGGGCTGTGCGGGGACTTCCAGGGCCCGGAGGCGGGCTGCCTGCACCCAGCGCC
ACCGCAGCCCCCGCCGCCCGGGCCGCTGTGCGCAGCACCCGCCGGTGGCCCCCGCGCCGCTGGGCCGCTCGCGGG
GCAGCCGCGCAAGAGCAGCTCGTCCCGCCGCAACGCGTGGGGCAACCTGTCTACGCCGACCTCATCACCAGGC
CATCGAGAGCTCGGCGGAGAAGCGGCTCACGCTGTGCGAGATCTACGAGTGGATGGTCAAGAGCGTGCCCTACTT
CAAGGATAAGGGTGACAGCAACAGCTCGGCGGGCTGGAAGAATTCAATTCGTCATAATCTGTCCCTACACAGCAA
GTTTATTCTGTGTCAGAATGAAGGAAGTGGAAAAAGTTCTTGGTGGATGCTCAATCCAGAGGGTGGCAAGAGCGG
GAAATCTCCTAGGAGAAGAGCTGCATCCATGGACAACAACAGTAAATTTGCTAAGAGCCGAAGCCGAGCTGCCAA
GAAGAAAGCATCTCTCCAGTCTGGCCAGGAGGTGCTGGGGACAGCCCTGGATCACAGTTTTTCAAATGGCCTGC
AAGCCCTGGCTCTCACAGCAATGATGACTTTGATAACTGGAGTACATTTGCCCCTCGAACTAGCTCAAATGCTAG
TACTATTAGTGGGAGACTCTCACCCATTATGACCGAACAGGATGATCTTGGAGAAGGGGATGTGCATTCTATGGT
GTACCCGCCATCTGCCGCAAAGATGGCCTCTACTTTACCCAGTCTGTCTGAGATAAGCAATCCCGAAAACATGGA
AAATCTTTTGATAATCTCAACCTTCTCTCATCACCACATCATTAAGTGTTCGACCCAGTCTCACCTGGCAC
CATGATGCAGCAGACGCGTGCTACTCGTTTGCGCCACCAAACACCAGTTTGAATTCACCCAGCCCAAACCTACCA
AAAATATACATATGGCCAATCCAGCATGAGCCCTTTGCCCCAGATGCCTATACAAACACTTCAGGACAATAAGTC
GAGTTATGGAGGTATGAGTCAGTATAACTGTGCGCCTGGACTCTTGAAGGAGTTGCTGACTTCTGACTCTCCTCC
CCATAATGACATTATGACACCAGTTGATCCTGGGGTAGCCAGCCCAACAGCCGGGTTCTGGGCCAGAACGTCAT
GATGGGCCCTAATTCGGTCATGTCAACCTATGGCAGCCAGGCATCTCATAACAAAATGATGAATCCAGCTCCCA
TACCCACCCTGGACATGCTCAGCAGACATCTGCAGTTAACGGGCGTCCCCTGCCCCACACGGTAAGCACCATGCC
CCACACCTCGGGTATGAACCGCCTGACCCAAGTGAAGACACCTGTACAAAGTGCCTCTGCCCCACCCCATGCAGAT
GAGTGCCCTGGGGGGCTACTCCTCCGTGAGCAGCTGCAATGGCTATGGCAGAATGGGCCTTCTCCACCAGGAGAA
GCTCCCAAGTGACTTGATGGCATGTTTCATTGAGCGCTTAGACTGTGACATGGAATCCATCATTGGAATGACCT
CATGGATGGAGATACATTGGATTTTAACCTTGACAATGTGTTGCCCAACCAAAGCTTCCACACAGTGTCAAGAC
AACGACACATAGCTGGGTGTCAGGCT**GA**AGGGTTAGTGAGCAGGTTACACTTAAAAGTACTTCAGATTGTCTGACA
GCAGGAAGTGAAGAGAAGCAGTCCAAAGATGTCTTTCACCAACTCCCTTTTAGTTTTCTTGGTTAAAAAAGAAC
AAAAAAAAAAACCCTCCTTTTTTTCCTTTCGTGAGACTTGGCAGCAAAGACATTTTTCTGTACAGGATGTTTGC
CCAATGTGTGCAGGTTATGTGCTGCTGTAGATAAGGACTGTGCCATTGGAAATTCATTACAATGAAGTGCCAAA
CTCACTACACCATATAATTGCAGAAAAGATTTTCAGATCCTGGTGTGCTTTCAAGTTTTGTATATAAGCAGTAGA
TACAGATTGTATTTGTGTGTGTTTTTGGTTTTTCTAAATATCCAATTGGTCCAAGGAAAGTTTATACTCTTTTG
TAATACTGTGATGGGCCTCATGTCTTGATAAGTTAACTTTTGTGTTGTACTACCTGTTTTCTGCGGAAGTGACGG
ATCACAAAGAACTGAATCTCCATTCTGCATCTCCATTGAACAGCCTTGACCTGTTACGTTGCCACAGAATTCA
CATGAGAACCAAGTAGCCTGTTATCAATCTGCTAAATTAATGGACTTGTTAACTTTTGGAAGAAAAAGATTAA
ATGCCAGCTTTGTACAGGTCTTTTCTATTTTTTTTTGTTTTATTTTGTATTGCAATTTGTACAAACATTTAA
TGGTTCTAATTTCCAGATAAATGATTTTTGATGTTATTGTTGGGACTTAAGAACATTTTTGGAATAGATATTGAA
CTGTAATAATGTTTTCTTAAACTAGAGTCTACTTTGTACATAGTCAGCTTGTAATTTTGTGGAACACAGGT
ATTTGGGGCAGCATTCATAATTTTCATTTTGTATTCTAACTGGATTAGTACTAATTTTATACATGCTTAACTGGT
TTGTACACTTTGGGATGCTACTTAGTGATGTTTCTGACTAATCTTAAATCATTGTAATTAGTACTTGCATATTCA
ACGTTTCAGGCCCTGGTTGGGCAGGAAAGTGAATGTATAGTTATGGACACTTTGCGTTTCTTATTTAGGATAACTT
AATATGTTTTTATGTATGTATTTTAAAGAAATTTTCATCTGCTTCTACTGAAGTATGCGTACTGCATAGCATCAAG
TCTTCTCTAGAGACCTCTGTAGTCCTGGGAGGCCTCATAATGTTTGTAGATCAGAAAAGGGAGATCTGCATCTAA

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FIGURE 3896B

AGCAATGGTCCTTTGTCAAACGAGGGATTTTGATCCACTTCACCATTTTGAGTTGAGCTTTAGCAAAAGTTTCCC
CTCATAATTCTTTGCTCTTGTTTCAGTCCAGGTGGAGGTTGGTTTTGTAGTTCTGCCTTGAGGAATTATGTCAAC
ACTCATACTTCATCTCATTCTCCCTTCTGCCCTGCAGATTAGATTACTTAGCACACTGTGGAAGTTTAAGTGGA
GGAGGGAATTTAAAAATGGGACTTGAGTGGTTTGTAGAATTTGTGTTTCATAAGTTCAGATGGGTAGCAAATGGAA
TAGAACTTACTTAAAAATGGGGAGATTTATTTGAAAACCAGCTGTAAAGTTGTGCATTGAGATTATGTTAAAAAGC
CTTGGCTTAAGAATTTGAAAAATTTCTTTAGCCTGTAGCAACCTAAACTGTAATTCCTATCATTATGTTTTATTAC
TTTCCAATTACCTGTAACCTGACAGACCAAATTAATTGGCTTTGTGTCTATTTAGTCCATCAGTATTTTCAAGTC
ATGTGGAAGCCCAAAGTCATCACAATGAAGAGAACAGGTGCACAGCACTGTTCCCTCTTGTTCTTTGAGAAGGA
TCTAATTTTTCTGTATATAGCCACATCACACTTGCTTTGTCTTGATGTTAATTGCATCTTCATTGGCTTGGTA
TTTCCCTAAATGTTTAAACAAGAACACAAGTGTTCCCTGATAAGATTTCCCTACAGTAAGCCAGCTGTATTGTAAGCTT
CCCACCGTGATGATCATTTTTTTGAAGATTCATTGAACAGCCACCCTCTATCATCCTCATTTTGGGGCAGTCCA
AGACATAGCTGGTTTTAGAAAACCAAGTTCCTCTAAGCACAGCCTCCCGGTATGTAAGTGAAGTGGTGCCAAA
GTACTTGTGTACTAATTTCTATTACTACGTACTGTCACTTTCTCCCGTGCCATTACTGCATCATAATACAAGGA
ACCTCAGAGCCCCCATTTGTTTCATTAAAGAGGCAACTACAGCCAAAATCACTGTTAAAATCTTACTACTTCATGG
AGTAGCTCTTAGGAAAATATATCTTCCTCCTGAGTCTGGGTAATTATACCTCTCCAAGCCCCCATTTGTGTGTTG
AAATCCTGTGCATGAATCCTTGGTAGCTCTCTGAGAACAGTGAAGTCCAGGGAAAGGCATCTGGTCTGTCTGGAAA
GCAAACATTATGTGGCCTCTGCTAGTTTTTTTTCTGTAGAATACTGACTTTCTGGAGTAATGAGTATATATCAG
TTATTGTACATGATTGCTTTGTGAAATGTGCAAATGATATCACCTATGCAGCCTTGTTTGATTTATTTTCTCTGG
TTTGTACTGTTATTAAAAGCATATTGTATTATAGAGCTATTCAGATATTTTAAATATAAAGATGTATTGTTCCG
TAATATAGACGTATGGAATATATTTAGGTAATAGATGTATTACTTGGAAGTTCTGCTTTGACAACTGACAAAG
TCTAAATGAGCACATGTATCCCAGTGAGCAGTAAATCAATGGAACATCCCAAGAAGAGGATAAGGATGCTTAAAA
TGGAATCATTCTCCAACGATATACAAATTGGACTTGTTCAACTGCTGGATATATGCTACCAATAACCCAGCCC
CAACTTAAATTTCTTACATTCAAGCTCCTAAGAGTTCTTAATTTATAACTAATTTTAAAGAGAAGTTTCTTTTC
TGGTTTTAGTTTGGGAATAATCATTCATTAAAAAAATGTATTGTGGTTTATGCGAACAGACCAACCTGGCATT
CAGTTGGCCTCTCCTTGAGGTGGGCACAGCCTGGCAGTGTGGCCAGGGGTGGCCATGTAAGTCCCATCAGGACGT
AGTCATGCCTCCTGCATTTTCGCTACCCGAGTTTAGTAACAGTGCAGATTCCACGTTCTTGTTCCGATACTCTGAG
AAGTGCCTGATGTTGATGTACTTACAGACACAAGAACAATCTTTGCTATAATTGTATAAAGCCATAAATGTACAT
AAATTATGTTTAAATGGCTTGGTGTCTTTCTTTTCTAATTATGCAGAATAAGCTCTTTATTAGGAATTTTTTTGTG
AAGCTATTAAATACTTGAGTTAA

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FIGURE 3897

MAEAPQVVEIDPDFEPLPRPRSCWPLPRPEFSQSNSATSSPAPSGSAAANPDAAAGLPSASAAAVSADFMSNLS
LLEESDFPQAPGSVAAAVAAAAAATGGLCGDFQGPEAGCLHPAPPQPPPPGPLSQHPPVPPAAAGPLAQQR
KSSSSRRNAWGNLSYADLITKAIESSAEKRLTLSQIYEWVKSVPYFKDKGDSNSSAGWKNSIRHNLSLH SKFIR
VQNEG TGKSSWWMLNPEGGKSGKSPRRRAASMDNNSKFAKRSRAAKKKASLQSGQEGAGDSPGSQFSKWPASPG
SHSNDDFDNWSTFRPRTSSNASTISGRLSPIMTEQDDLGEQDVHSMVYPPSAAKMASTLPSLSEISNPENMENLL
DNLNLLSSPTSLTVSTQSSPGTMMQQTPCYSFAPPNTSLNPSPPNYQKYTYGQSSMSPLPQMPIQTLQDNKSSYG
GMSQYNCAPGLLKELLTSDSPPHNDIMTPVDPGVAQPNSRVLGQNVMMGPNSVMSTYGSQASHNKMMNPSSHTHP
GHAQQTSAVNGRPLPHTVSTMPHTSGMNRLTQVKTPVQVPLPHPMQMSALGGYSSVSSCNGYGRMGLLHQEKLP
DLDGMFIERLDCEMESIIRNDLMDGDTLDFNFDNVLPNQSFPHSVKTTTHSWVSG

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FIGURE 3898

GGTTCATTTTCGTGTCTCGGCG**ATG**TTTCCTAGAGTCTCGACGTTCCCTACCTCTTCGCCCCCTTTCCCGCCACCCT
TTGTCCTCTGGAAGCCCGGAGACATCAGCGGCTGCGATTATGCTACTCACTGTTCCGGCACGGAACAGTCAGGTAC
CGCAGTTCAGCGCTGTTGGCCCGGACAAAAATAACATCCAAAGATATTTTGGCACTAACAGTGTGATCTGTAGC
AAGAAAGATAAGCAGTCTGTTTGAAGTCTGAGGAGACTTCCAAGGAGACTTCAGAGAGCCAAGACAGTGAAAAGGAA
AATACGAAAAAAGACTTGTTAGGCATTATTAAGGGCATGAAAGTTGAATTAAGCACAGTAAATGTACGAACAACA
AAGCCCCCAAAAGAAGACCACTTAAAAGTTTGGAAGCTACACTTGGCAGGCTTCGAAGAGCTACAGAATATGCT
CCAAAGAAGAGAATTGAGCCCCTGAGTCTGAGTTGGTGGCAGCTGCATCTGCTGTGGCAGATTCTCTCCCTTTT
GATAAGCAAAACAACCAAGTCAGAGCTGCTGAGCCAGCTCCAGCAGCATGAGGAAGAGTCAAGGGCACAGAGAGAT
GCAAAGCGACCTAAAATTAGTTTCAGTAACATAATATCAGATATGAAAGTTGCCAGATCTGCTACAGCTAGAGTT
CGTTCAAGACCAGAGCTTCGGATTCAAGTTTGATGAAGGCTATGACAATTATCCTGGCCAGGAGAAGACGGATGAT
CTTAAAAAAGGAAAAATATATTACAGGGAAAAGACTTAATATTTTTGACATGATGGCAGTTACTAAAGAAGCA
CCTGAAACAGACACATCACCTTCACTTTGGAATGTGGAATTTGCTAAGCAGTTAGCCACAGTAAATGAACAACCC
CTTCAGAATGGATTTGAAGAGCTGATCCAGTGGACAAAAGAGGGGAACTATGGGAGTTCCCAATTAACAATGAA
GCAGGTTTTGATGATGATGGTTCAGAATTTTATGAACATATATTTCTGGAGAAACACCTGGAGAGCTTTCCAAAA
CAAGGACCAATTCGCCACTTCATGGAGCTGGTGACTTGTGGCCTTTCCAAAAACCCATATCTTAGTGTTAAACAG
AAGGTTGAACACATAGAGTGGTTTAGAAATTATTTAATGAAAAAAGGATATTCTAAAAGAAAGTAACATACAG
TTCAAT**TAA**GACCATGGAAATTTTTATTTCAAACAATTAGAGATGGATATTACAATAAATAAATTTTACT
AGAGTTTGT

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FIGURE 3899

MFPRVSTFLPLRPLSRHPLSSGSPETSAAAIMLLTVRHGTVRYRSSALLARTKNNIQRYFGTNSVICSKKDKQSV
RTEETSKETSESQDSEKENTKKDLLGIKGMKVELSTVNVRTTKPPKRRPLKSLEATLGRLRRATEYAPKKRIEP
LSPELVAAASAVADSLPFDKQTTKSELLSQLQQHEEESRAQRDAKRPKISFSNIISDMKVARSAATARVRSRPCLR
IQFDEGYDNYPGQEKTDLLKKRNIFTGKRLNIFDMMAVTKEAPETDTSPSLWNVEFAKQLATVNEQPLQNGFEE
LIQWTKEGKLWEFPINNEAGFDDDGSEFHEHIFLEKHLESFQKQPIRHFMEVLVTCGLSKNPYLSVKQKVEHIEW
FRNYFNEKKDILKESNIQFN

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FIGURE 3900

CCCCCGAGCGCCGCTCCGGGCTGCACCGCGCTCGCTCCGAGTTTCAGGCTCGTGCTAAGCTAGCGCCGTCGTCTG
TCTCCCTTCAGTCGCCATCCATGATTATCTACCGGGACCTCATCAGCCACGATGAGATGTTCTCCGACATCTACAA
GATCCGGGAGATCGCGGACGGGTTGTGCCTGGAGGTGGAGGGGAAGATGGTCAGTAGGACAGAAGGTAACATTGA
TGA CT CGCTCATTGGTGGAAATGCCTCCGCTGAAGGCCCGAGGGCGAAGGTACCGAAAGCACAGTAATCACTGG
TGTCGATATTGTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCTACAAGAAGTACATCAAAGA
TTACATGAAATCAATCAAAGGGAAACTTGAAGAACAGAGACCAGAAAAGAGTAAAACCTTTTATGACAGGGGCTGC
AGAACAAATCAAGCACATCCTTGCTAATTTCAAAAACCTACCAGTTCTTTATTGGTGAACATGAATCCAGATGG
CATGGTTGCTCTATTGGACTACCGTGAGGATGGTGTGACCCCATATATGATTTTCTTTAAGGATGGTTTAGAAAT
GGAAAAATGTTAACAAATGTGGCAATTATTTTGATCTATCACCTGTCATCATAACTGGCTTCTGCTTGTCTATCC
ACACAACACCAGGACTTAAGACAAATGGGACTGATGTCATCTTGAGCTCTTCATTTATTTTACTGTGATTTATT
TGGAGTGGAGGCATTGTTTTTAAGAAAAACATGTCATGTAGGTTGTCTAAAAATAAAATGCATTTAACTCATTT
GAGAG

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FIGURE 3901

MIYRDLISHDEMFSDIYKIREIADGLCLEVEGKMVSRTEGNIDDSLIGNASAEGPEGEGTESTVITGVDIVMN
HHLQETSFTKEAYKKYIKDYMKSIKGLLEEQRPERVKPFMTGAAEQIKHILANFKNYQFFIGENMNPDGMVALLD
YREDGVTPYMIFFKDGLEMEKC

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FIGURE 3902

GCGGCACGGAGCGGGCGTGCTGAGCCCCGGCCGCGCGCCGGCCGGCATGGGCGTCTCCCGCGGGCCCTCCGCTGGCCG
GGGCTAGGGCCGGATGGAGCCGCGGGACGGTAGCCCGGAGGCCCGGAGCAGCGACTGCGAGTCGGCTTCCGCCTC
GTCCAGCGGCTCCGAGCGCGACGCCGGTCCCGAGCCGGACAAGGCGCCGCGGCGACTCAACAAGCGGCGCTTCCC
GGGGCTGCGGCTCTTCGGGCACAGGAAAGCCATCACCAAGTCTGGCCTCCAGCACCTGGCCCCCCTCCGCCAC
CCCTGGGGCCCGGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCGGCGACATATGG
GGAGCACATCTGGTTCGAGACCAACGTGTCCGGGGACTTCTGCTACGTTGGGGAGCAGTACTGTGTAGCCAGGAT
GCTGCAGAAGTCAGTGTCTCGAAGAAAGTGCGCAGCCCTGCAAGATTGTGGTGCACACGCCCTGCATCGAGCAGCT
GGAGAAGATAAAATTTCCGCTGTAAGCCATCCTTCCGTGAATCAGGCTCCAGGAATGTCCTCGAGCCAACCTTTGT
ATGGCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTCCGGCACTGTGGGAAGGGATTCCAGCAGAAAGTT
CACCTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGCAAGCAGGCATACCCAGCAAGGTGTCCTG
CTTCGTGCTGCAGCAGATCGAGGAGCCGTGCTCGCTGGGGGTCCACGCAGCCGTGGTCAATCCCGCCACCTGGAT
CCTCCGCGCCCGGAGGCCCCAGAATACTCTGAAAGCAAGCAAGAAGAAGAGGGGCATCCTTCAAGAGGAAGTC
CAGCAAGAAAGGGCCTGAGGAGGGCCGCTGGAGACCCTTCATCATCAGGCCACCCCTCCCCCTCATGAAGCC
CCTGCTGGTGTGTTGTGAACCCCAAGAGTGGGGGCAACCAGGGTGCAAAGATCATCCAGTCTTTCTCTGGTATCT
CAATCCCCGACAAGTCTTCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAA
CCTGCGGATCCTGGCGTGCGGGGGCGACGGCACGGTGGGCTGGATCCTCTCCACCCTGGACCAGCTACGCCTGAA
GCCGCCACCCCTGTTGCCATCCTGCCCCTGGGTACTGGCAACGACTTGGCCGAACCCTCAACTGGGGTGGGGG
CTACACAGATGAGCCTGTGTCCAAGATCCTCTCCACGTGGAGGAGGGGAACGTGGTACAGCTGGACCCTGGGA
CCTCCACGCTGAGCCCAACCCGAGGCAGGGCCTGAGGACCGAGATGAAGGCGCCACCGACCGGTTGCCCTGGA
TGTCTTCAACAACTACTTCAGCCTGGGCTTTGACGCCCACGTACCCCTGGAGTTCCACGAGTCTCGAGAGGCCAA
CCCAGAGAAATTCAACAGCCGCTTTCCGAATAAGATGTTCTACGCCGGGACAGCTTTCTCTGACTTCTGATGGG
CAGCTCCAAGGACCTGGCCAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGACTCCCAAGATCCAGGACCT
GAAACCCCAAGTGTGTTGTTTTCTGAACATCCCCAGGTACTGTGCGGGCACCATGCCCTGCGGCCACCTGGGGA
GCACCACGACTTTGAGCCCCAGCGGCATGACGACGGCTACCTCGAGGTTCATTGGCTTACCATGACGTATTGGC
CGCGCTGCAGGTGGGCGGACACGGCGAGCGGCTGACGCAGTGTGCGGAGGTGGTGTACCCACATCCAAGGCCAT
CCCGGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGACGCTCAGCATCCGCATTGCCCTGCGCAACCAGGCCAC
CATGGTGCAGAAGGCCAAGCGGCGGAGCGCGCCCGCCCTGCACAGCGACCAGCAGCCGGTGCCAGAGCAGTTGCG
CATCCAGGTGAGACGCGTCAGCATGCACGACTATGAGGCCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCTC
CGTGCCGCTGGGCACTGTGGTGGTCCCAGGAGACAGTGACCTAGAGCTCTGCCGTGCCACATTGAGAGACTCCA
GCAGGAGCCCGATGGTGTGGAGCCAAGTCCCCGACATGCCAGAAACTGTCCCCCAAGTGGTGTCTTCTGGACGC
CACCCTGCCAGCCGCTTCTACAGGATCAACCGAGCCAGGAGCACCTCAACTATGTGACTGAGATCGCACAGGA
TGAGATTTATATCCTGGACCCTGAGCTGCTGGGGGCATCGGCCCGGCTGACCTCCCAACCCCACTTCCCTCT
CCCCACCTCACCTGCTCACCCACGCCCCGGTCACTGCAAGGGGATGCTGCACCCCTCAAGGTGAAGAGCTGAT
TGAGGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGGGGCGACATCATGCACCGAGA
CAAGCAGAGTCGCACGCTCCTGCACCACGCAGTCAGCACTGGCAGCAAGGATGTGGTCCGCTACCTGCTGGACCA
CGCTCCCCCAGAGATCCTTGATGCGGTGGAGGAAAACGGGGAGACCTGTTTGACCAAGCAGCGGCCCTGGGCCA
GCGCACCATCTGCCACTACATCGTGAGGCCGGGGCCAGACCAGCAGGGCGACACTCCCCGGCAGCAGGCTGAGA
AGGCTCAGGACACCGAGCTGGCGGCCTACCTGGAGAACCGGCAGCACTACCAGATGATCCAGCGGGAGGACCAGG
AGACGGCTGTGTAGCGGGCCGCCACGGGCAGCAGGAGGGACAATGCGGCCAGGGGATGAGCGCCTTCCTTGCCC
ACCTCACTGCCACATTCCAGTGGGACGGCCACGGGGGGACCTAGGCCCCAGGGAAAGAGCCCCATGCCGCCCCCT
AAGGAGCCGCACAGACCTAGGGCTGGACTCAGGAGCTGGGGGGCCTCACCTGTTCCCTGAGGACCCCGCCGGAC
CCGGAGGCTCACAGGGAACAAGACACGGCTGGGTTGGATATGCCTTTGCCGGGGTCTGGGGCAGGGCGCTCCCT
GGCCGCAGCAGATGCCCTCCCAGGAGTGAGGGGGCTGGAGAGGGGAAGGCCTTCGGGAAGAGGCTTCTGGGGCC
CCTGGTCTTCGGCCGGGTCCCCAGCCCCGCTCCTGCCCCACCCACCTCCCCCGGGCTTCTCCCGGAAACTCA
GTGCTGCTGCACCTGCCTGCCCTGCCTTGCTTGGCACCCGCTCCGGCGACCCTCCCCGCTCCTCTGTCATT

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FIGURE 3903A

TTTTTCTTTCCTGGCTGATGATTTGTCAATTCTAGTCACTTCCTGCCTTGTGACCACACACCCAGGCTTGACAAAG
CTGTTCTGCAGATCAGAAAGAAGGGGTTCCTGGTCATACACCAGTACTACCAAGGACAGCTTTTTTCTGCAAGA
TCTGTTACCTAAAGCAATAAAAAATGGCCAGAGGATCAGTGTCCGATGAGGAAATGATGGAGCTCAGAGAAGCTT
TTGCCAAAGTTGATACTGATGGCAATGGATACATCAGCTTCAATGAGTTGAATGACTTGTTCAAGGCTGCTTGCT
TGCTTTTGCTGGGTATAGAGTACGAGAAATTACAGAAAACCTGATGGCTACAGGTGATCTGGACCAAGATGGAA
GGATCAGCTTTGATGAGTTTATCAAGATTTTCCATGGCCTAAAAAGCACAGATGTTGCCAAGACCTTTAGAAAAG
CAATCAATAAGAAGGAAGGGATTTGTGCAATCGGTGGTACTTCAGAGCAGTCTAGCGTTGGCACCCAACACTCCT
ATTCAGAGGAAGAAAAGTATGCCTTTGTCAACTGGATAAACAAAGCCCTGGAAAATGATCCTGATTGTCGGCATG
TCATCCCAATGAACCCAAACACGAATGATCTCTTTAATGCTGTTGGAGATGGCATTGTCTTTGTAAAATGATCA
ACCTGTCAGTGCCAGACACAATTGATGAAAGAACAATCAACAAAAAGAAGCTAACCCCTTTCACCATTTCAGGAAA
ATCTGAACCTGGCTCTGAACCTGCTCAGCCATCGGGTGCCATGTGGTCAACATAGGGGCTGAGGACCTGAAGG
AGGGGAAGCCTTATCTGGTCTGGGACTTCTGTGGCAAGTCATCAAGATTGGGTGTTTGTGCTGACATTGAACCTCA
GCAGAAATGAAGCTCTGATTGCTCTTTTGAGAGAAGGTGAGAGCCTGGAGGATTTGATGAAACTCTCCCTGAAG
AGCTCTTGCTGAGGTGGGCTAATTACCACCTGAAAATGCAGGCTGCAACAAAATTGGCAACTTCAGTACTGACA
TCAAGGACTCAAAAGCTTATTACCACCTGCTTGAGCAGGTGGCTCCAAAAGGAGATGAAGAAGGTGTTCTGCTG
TTGTTATTGACATGTCAGGACTGCGGGAGAAGGATGACATCCAGAGGGCAGAATGCATGCTGCAGCAGGCGGAGA
GGCTGGGCTGCCGGCAGTTTGTACAGCCACAGATGTTGTCCGAGGGAACCCCAAGTTGAACTTGGCTTTTATTG
CCAACCTCTTTAACAGATACCCTGCCCTGCACAAACCAGAGAACCAGGACATTGACTGGGGGGCTCTTGAAGGTG
AGACGAGAGAAGAGCGGACATTTAGGAACTGGATGAACTCCCTGGGTGTTAACCTCGAGTCAATCATTTGTACA
GTGACTTATCAGATGCCCTGGTCATCTTCCAGCTCTATGAAAAGATCAAAGTTCCTGTTGACTGGAACAGAGTAA
ACAAACCGCCATACCCCAAACCTGGGAGGCAATATGAAGAAGCTTGAGAATTGTAACACGCGGTAGAATTGGGGA
AGAATCAAGCGAAGTTCTCCCTGGTTGGCATCGGTGGACAAGATCTCAATGAAGGAAACCGCACTCTCACACTGG
CCTTGATTTGGCAGCTAATGAGAAGGTATACACTGAATATCCTCGAAGAAATTGGTGGTGGCCAGAAGGTCAATG
ATGACATTATTGTCAACTGGGTGAATGAAACATTGAGGGAAGCAAAGAAAAGTTCATCCATCTCTAGTTTCAAGG
ACCCGAAGATTAGTACAAGTCTGCCTGTTCTGGACCTCATCGATGCCATCCAACCAGGTTCCATTAACATGACC
TTCTGAAGACAGAAAATCTGAATGATGATGAGAACTCAACAATGCAAAAATATGCCATCTCTATGGCCCGAAAAA
TTGGAGCAAGAGTGTATGCCCTGCCAGAAGACCTGGTTGAAGTGAACCCCAAAATGGTCATGACCGTGTGCTT
GCCTCATGGGGAAAGGAATGAAGAGGGTGTGAGGCCCAATGGGGCTGGGTGGGAGGCGGTGCACTCACTCCTGAC
TGCCCGGCACAGATGCTCCAGGGATGATTCAAGCCATTCCAAAGTTCAACTTGGTGACACTCTATAAGATTCCAA
AAAGCACATATTAGTGCAGCCAAGTAGCCTCTCCTGTATTTAACAAAAAGTGCTTCATTCTTTGCAGGAGGCCCA
ACCTCCTATATATAGGTTTCTATTCTTGATTTATTTGCTTCTTCGAAAATCTAGAGGAAAAGAAAGAAGTTATTT
TCCAGGTACCTTCTCGCTTTTGCCATTAGCCAAGGATAGAAGCTGCAGTGGTATTAATTTTGATATAATCTTTC
AAACCAGCTTCATGTGGCTTCCCTTTTCTTTGTTCAAGATGAGGGCCAGGAGGGGAAACATCACACCTGCCCTAA
ACCCTGTTCTCTGGAGGTGAGCATTTGATCTGTTGCAAGCCCCTCTTCTGTCCCTCTTCTACCTGCCTCCCT
TGACTTTGCTCCTCACACTTTTGGAACCATGCCTTCCGGGGGGGCCATCTCTTCTGGCCGTCTTGTCTCTGGG
CCACTTGGAGTGTGTGATAAATCAGTCAAGCTGTTGAAGTCTCAGGAGTCTCTGGTAGCCTGCAGAAGTAAGCCT
CATCATCAGAGCCTTTCCTCAAACTGGAGTCCCAAATGTCATCAGGTTTGTGTTTTTTTTCAGCCACTAAGAACC
CCTCTGCTTTTAACTCTAGAATTGCGCTTGGACCAGATCTAACATCTTGAATACTCTGCCCTCTAGAGCCTTCA
GCCTTAATGGAAGGTTGGATCCAAGGAGGGTGAATGGAGCATCAAGCCACTCGGCGGCAGCATGGAGCTATAAC
TAAGCATCCTTTAGGGTTCTGCCTCTCCAGGCATTTAGCCCTCACATTAGATCTAGTTACTGTGGTATGGCTAAT
ACCTGTCAACATTTGGAGGCAATCCTACCTTGCTTTTGCTTCTAGAGCTTAGCATATCTGATTGTTGTGAGGCCA
TATTATCAATGTTTACTTTTTTGGTACTATAAAAGCTTCTGCCACCCCTAAACTCCAGGGGGGACAATATGTGC
CAATCAATAGCACCCCTACTCACATACACACACCTAGCCAGCTGTCAAGGGCAGAATGAATCTATGCTGGATA
AGAAAATGGTGGAACTGCGTTATGAAGAGCTAATTTACTGGACAAAGAATTCCAAAGCAAAACCAGAACAGTATGA
ATTTGAGCAGGTCTCATAGGTTGAGCAATTTCCCCCTAAACCAACTGAAGGCTAAAAAGCAACAGGCCATTGTGA
ACCAATGCAAGACGCCCTCTATCATGGTGAAAAGCTCCATCAATGAGGTATCTTCTTTAGTGGTGGTATGTAATG
GAACTTAGCCATTTTTTCAAAGCAATTGAAATGCATTGCTCTGGATCTGTTCCCTTGGCAGTGGACTCAGAAAGCCA
ACATGTGGCTCCTCCCAGCCCATACCCAGTATTTTTGCTGCTTCTGAATACAAATTGGTTGGTTTTGACTTCAGA

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FIGURE 3903B

TTGAACTTACTGTAGCCTCAGATGATTTCCCCCCTCCGCCTCCAGGAAGAAAGAATGTTACTGCCTTAATAAAAA
ATGAAAAGAGAATGATGCTCAAAATCTTCCAAATAAAATGTTCCCTAT

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FIGURE 3904

AAAGCGAGAGTGAGTGGGACCGGAGGGGCGGGGCATCATATGGGCGGGGCTGAGGCGAGGCCCCGGCGGCCATCT
TGAGCCCCGCCTTTTACTTCGGCCCGCTTCTTCTGGTCACTCCGCCACCGTAGAATCGCCTACCATTGTTGGTGCAA
GCAAAAAGCAATCAGCAATTGGACAGGAAAAGAATGGCATTGAAGCAGATTTCCAGCAACAAGTGCTTTGGGGGA
TTGCAGAAAGTTTTTGAACATGACAGTGTTGAACTAACTGCAAAATGAAATTTGCTGTCTACTTACCACCAAAG
GCAGAAACAGGAAAGTGCCCTGCACTGTATTGGCTCTCAGGTTTAACTTGACAGAGCAAAATTTTATATCAAAA
TCTGGTTATCATCAGTCTGCTTCAGAACATGGTCTTGTGTGTCATTGCTCCAGATACCAGCCCTCGTGGCTGCAAT
ATTAAAGGTGAAGATGAGAGCTGGGACTTTGGCACTGGTGCTGGATTTTATGTTGATGCCACTGAAGATCCTTGG
AAAACCAACTACAGAAATGTACTCTTATGTCACAGAGGAGCTTCCCCAACTCATAAATGCCAATTTTCCAGTGGAT
CCCCAAAGGATGTCTATTTTGGCCACTCCATGGGAGGTCATGGAGCTCTGATCTGTGCTTTGAAAAATCCTGGA
AAATACAAATCTGTGTCAGCATTGCTCCAATTTGCAACCTGTACTCTGTCCCTGGGGCAAAAAGCCTTTAGT
GGATATTTGGGAACAGATCAAAGTAAATGGAAGGCTTATGATGCTACCCACCTTGTGAAATCCTATCCAGGATCT
CAGCTGGACATACTAATTGATCAAGGAAAGATGACCAGTTTCTTTTAGATGGACAGTTACTCCCTGATAACTTC
ATAGCTGCCTGTACAGAAAAGAAAATCCCCGTTGTTTTTCGATTGCAAGAGGGTTATGATCATAGCTACTACTTC
ATTGCAACCTTTATTACTGACCACATCAGACATCATGCTAAATACCTGAATGCATGAAAAAACTCCAAATAAGAG
AATCTCTTCAGGATTATAAAAGTTGTAAAATGCAACTGTATTGCTGAGCAAAAAAAAAAAAAAATTCAAACATTG
GATTTTATAGTGCTAAAAGGGCTTTATTCTATAGTTGAATCACCTCTGAATAAAGATATAAAACCT

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FIGURE 3905

MALKQISSNKCFGGLQKVFEHDSVELNCKMKFAVYLPPKAETGKCPALYWLSGLTCTEQNFISKSGYHQSASEHG
LVVIAPDTSPRGCNIKGEDESWDFGTGAGFYVDATEDPWKTNYRMYSYVTEELPQLINANFPVDPQRMSIFGHSM
GGHGALICALKNPGKYKSVSAFAPICNPVLCPWGKKAFSGYLGTDQSKWKAYDATHLVKSYPGSQLDILIDQGKD
DQFLLDGQLLPDNFIAACTEKKIPVVFRLQEGYDHSYYFIATFITDHIRHHAKYLNA

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FIGURE 3906

GGCCGGTGGCGGGACTCTGGGGAAAATGGCTGCGTCTTCGAGTGGTGAGAAGGAGAAGGAGCGGCTGGGAGGCGG
TTTGGGAGTGGCGGGTGGTAACAGCACACGAGAGCGGCTGCTGTCTGCGCTTGAGGACTTGAGAGTCCTGTCTAG
GGAAC TTATAGAAATGCTGGCAATTTCAAGAAACCAAAAGTTGTTACAGGCTGGAGAGGAAAACCAGGTCCTGGA
GTTGTTAATTCACCGAGATGGGGAATTTCAAGAACTAATGAAATTGGCACTTAATCAGGGAAAAATTCATCATGA
AATGCAAGTTTTAGAAAAAGAAGTAGAGAAGAGAGACAGTGATATTCAGCAGCTACAAAAACAGCTAAAGGAAGC
AGAACAAATACTGGCAACAGCTGTTTACCAAGCGAAGGAGAACTCAAGTCAATAGAAAAAGCAAGAAAAGGTGC
TATCTCCTCTGAAGAAATAATTAAGTATGCACATAGGATCAGTGCAAGTAATGCTGTATGTGCTCCACTGACCTG
GGTTCAGGGGACCCCGGAGACCCTACCCAAGTATTTAGAGATGAGAAGTGGGTTACTGGGTCAGATGAACAA
TCCTTCCACTAATGGCGTGAATGGCCATTTACCAGGAGATGCACTTGCGAGCAGGAAGATTGCCAGATGTCCTTGC
TCCACAGTATCCATGGCAGTCAAATGACATGTGATGAATATGTTACCACCAAATCATAGTAGTGACTTTTTGTT
GGAACCTCCTGGGCATAATAAGAAAATGAAGATGATGTAGAGATTATGTCAACGGACTCCTCAAGCAGTAGTAG
TGAGTCTGATTGAAAAACTTAAAAGACAATATACAGAATTGAATACTGTAGAATTCTGTTTCTTTAACAGTAGCA
GGGAAATGTAAACTACAGGTGACAAAAAATACCCAGGTAAACACTGGCTTTGGTAGAATTGTGCAGTCATTAAAA
GTCAAAATTTTTTGACTTTCTTTTTAAAGCCAAAGACCATAGTTTTAGTTTTTAAGCCACTAGGTAGATATTTAGG
GGAATAGTCAAAATTTACTGTTGAAAAAGCAGTTGCTATGTGCTTTCTTACCCTGTTCTGTTCCAGTTTTTGCTGG
ATTTGTACATAGCCATTCTAGAAATAGAGTTGAGGGAAATTATCCATATACATATCACTAATAGGCTTCTTGGAA
TTATTTAGAAAAGCATTTTTAACTGGCAGTGGATGACTGAATAGGCATCATATTTCTTTTTGTGTGTCATTTAA
AAGTAACAAAACTGCCATTTGACAGTAAAGGCTCTTGGCTTCTGTTGGAGGCATGGGAAATTGTCTCAATTTGT
ACAGTTTGTAATTGTAATTTTTGTAAATAAATTTGTTGTACATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3907

MAASSSGEKEKERLG GGLGVAGGNSTRERLLSALEDLEVL SRELIEMLAISRNQKLLQAGEENQVLELLIHRDGE
FQELMKLALNQGKIHHEMQVLEKEVEKRDSDIQQLQKQLKEAEQILATAVYQAKEKLKSIEKARKGAISS E E I K
YAHRI SASNAVCAPLTWVPGDPRRPYPTDLEMRSGLLGQMNNPSTNGVNGHLPGDALAAGR L P D V L A P Q Y P W Q S N
DMSMNMLPPNHSSDFLLEPPGHNKENEDDVEIMSTDSSSSSSSED

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FIGURE 3908

GCGAGATCCCTACCGCAGTAGCCGCCTCTGCCGCCGCGGAGCTTCCCGAACCTCTCAGCCGCCCGGAGCCGCTCC
CGGAGCCCGGCCGTAGAGGCTGCAATCGCAGCCGGGAGCCCGCAGCCCGCGCCCCGAGCCCGCCGCGCCCTTCG
AGGGCGCCCCAGGCCGCGCC**ATGGT**GAAAGGTGACGTTCAACTCCGCTCTGGCCCAGAAGGAGGCCAAGAAGGACG
AGCCCAAGAGCGGCGAGGAGGCGCTCATCATCCCCCGACGCCGTGCGGGTGGACTGCAAGGACCCAGATGATG
TGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGTCATGTGCTTTGGACTAGCATTTATGCTTGCAGGTGTTA
TTCTAGGAGGAGCATACTTGTACAAATATTTTGCACTTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTCATCTTAAATGAGCCCTCTGCAGATGCCCCAGCTGCTCTCTACCAGACAATTGAAGAAAATA
TTAAATCTTTGAAGAAGAAGAAGTTGAATTTATCAGTGTGCTGTCCCAGAGTTTGCAGATAGTGATCCTGCCA
ACATTGTTTCATGACTTTTAAACAAGAACTTACAGCCTATTTAGATCTTAACCTGGATAAGTGCTATGTGATCCCTC
TGAACACTTCCATTGTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGC
CTCAGTCCATCTGATTTCATGAGCACATGGTTATTACTGATCGCATTGAAAACATTGATCACCTGGGTTTCTTTA
TTTATCGACTGTGTTCATGACAAGGAAACTTACAAACTGCAACGCAGAGAACTATTAAAGGTATTTCAGAAACGTG
AAGCCAGCAATTGTTTCGCAATTCGGCATTTTGAAAACAAATTTGCCGTGGAACTTTAATTTGTTCTT**TGA**ACAG
TCAAGAAAAACATTATTGAGGAAAATTAATATCACAGCATAACCCACCCCTTTACATTTTGTGTCAGTGATTATTT
TTTAAAGTCTTCTTTTCATGTAAGTAGCAAACAGGGCTTTACTATCTTTTCATCTCATTAAATTCATTAATAAACCAT
TACCTTAAATTTTTTTCTTTTGAAGTGTGGTGCTTTTATATTTGAATTAGTAACTGTATGAAGTCATAGATAA
TAGTACATGTCACCTTAGGTAGTAGGAAGAATTACAATTTCTTTAAATCATTTATCTGGATTTTTATGTTTTATT
AGCATTTTCAAGAAGACGGATTATCTAGAGAATAATCATATATATGCATACGTAAAAATGGACCACAGTGACTTA
TTTGTAGTTGTTAGTTGCCCTGCTACCTAGTTTGTAGTGCATTTGAGCACACATTTTAATTTTCTCTAATTAA
AATGTGCAGTATTTTCAGTGTCAAATATATTTAACTATTTAGAGAATGATTTCCACCTTTATGTTTTAATATCCT
AGGCATCTGCTGTAATAATATTTTAGAAAATGTTTGAATTTAAGAAATAACTTGTGTTACTAATTTGTATAACC
CATATCTGTGCAATGGAATATAAATATCACAAAGTTGTTTAACTAGACTGCGTGTTGTTTTTCCCGTATAATAAA
ACCAAAGAATAGTTTGGTTCTTCAAATCTTAAGAGAATCCACATAAAGAAGAACTATTTTTTAAAAATTCACT
TCTATATATACAATGAGTAAAATCACAGATTTTTTCTTTAAATAAAAATAAGTCATTTTAATAACTAAACCAGAT
TCTTTGTGGATACTATTAAAGTAACATTTAAGCCTCAACCTTG

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FIGURE 3909

MVKVTFNSALAQKEAKKDEPKSGEEALIIPPDAVAVDCKDPDDVVPVGQRRAWCWCMTFGLAFMLAGVILGGAYL
YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFN
KKLTAYLDLNLDKCYVIPLNTSIVMPPRNLLELLINIKAGTYLPQSYLIHEHMTDRIENIDHLGFFIYRLCHD
KETYKLQRRETIKGIQKREASNCFAIRHFENKFAVETLICS

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FIGURE 3910

TTTAGTAAATCACACAAAAATCCAGCAGAAATTGTGAAAATCCTGAAAGACAATTTGGCCATTTTGAAAAAGCAA
GACAAAAAGACAGACAAGGCTTCAGAAGAAGTGTCTAAATCACTGCAAGCAATGAAAGAAATTCTGTGTGGTACA
AACGAGAAAGAACCCCCAACAGAAGCAGTGGCTCAGCTAGCACAAAGAACTCTACAGCAGTGGCCTGCTGGTGACA
CTGATAGCTGACCTGCAGCTGATAGACTTTGAGGGAAAAAAGATGTGACCCAGATATTTAACAAACATCTTGAGA
AGACAGATAGGCACTCGGAGTCCTACTGTGGAGTATATTAGTGCTCATCCTCATATCCTGTTTATGCTCCT'CAAA
GGATATGAAGCCCCACAGATTGCCTTACGTTGTGGGATTATGCTGAGAGAATGTATTGACATGAACCACTTGTC
AAAATCATCCTCTTTTCTAATCAATTCAGAGATTTCTTTAAGTACGTGGAGTTGTCAACATTTGATATTGCTTCA
GATGCCTTTTGCTACTTTCAAGGATTTACTAACCAGACATAAAGTGTGTTGGTAGCAGACTTCTTAGAACAAAATTAC
GACACTATTTTTGAAGACTATGAGAAATTGCTTCAGTCTGAGAATTATGTTACTAAGAGACAGTCTTTAAAGCTG
CTAGGGGAGCTGATCCTGGACCGTCACAACCTTTGCCATCATGACAAAGTATATCAGCAAGCCGGAGAACCTGAAA
CTCATGATGAACCTCCTTCGGGATAAAAGTCCCAACATCCAGTTTGAAGCCTTTTCATGTTTTTAAGGTGTTTGTG
GCCAGTCCTCACAAAAACAGCCCTATTGTGGAGATCCTGTTAAAAATCAGCCCAAACCTCATTGAGTTTCTGAGC
AGCTTCCAAAAAGAAAGGACGGATGATGAGCAGTTCGCTGACGAGAAGAACTACTTGATTAAACAGATCCGAGAC
TTGAAGAAAACGGCCCCCTTGAAGAGCTCCCCGGCCCCCTGTACAGTCAGTCGCTCTCATTTTGTCCAGTTTGTACAG
TGTGTCAATTTAGAAAAGTCATCATTCTTGGAAGACTTTGGAGGTGCCTATTTTTTCTGCTGTAATTGTTCTGGG
TAGATGGAGTATAAACATTTGAATGGAAAAAATTAACCTAGAATAATATATTCAATTTTAGTCAAGTCTGTGATT
ATTTATGTGAAATGAGAACCATTGTATCAGATGTTGATAAAAGCAATTTTAACTTGCAGATGTGAGCCCCCTGGGC
ACAATGAGCCGCTAAATGGGAGCTCAATTGACAGGCATCACCAAGTCTTCAAGGAGGACTGAGTTCTCAGGGGAG
AACTGGGAATGGGGCCAGGGTGCAAAAATGCTTTGCCCATCTGTAGGTAGACACACAGATCGCTCAGGGCACTGA
GAGATCCCAGAAGGTAACGTTAATGTTTTTCAGTCATTGTGTGTCTTTTGTGCTGCCAATGTCTTTGGACTGTAA
TCAGTGATCCACACCTCCCAGGATCCAGTGCTCCCTCTCAGCTCAGTCTCCCCTCTCTCCCTGTCTCTGCATTCC
ATCCCAGCTCCTCAGCATGGCCTCAGTGGGCGCACCCATGCCTCCCGCAGTCCAGGTGAGCAGGGGAGCAACTGA
GCAGGAAGAGGATGGATCAACAAGGGTCACGGGGAATAGGGGACCCACGGGGTGTGACCTGCTTGCTAGAGAACT
GTGAACATGTGGCTCTGGATAGAGTGACTGCTGCTCCATATTAGCTTCCAGAGGGTGAGTGAGGGACAGAATATT
TCCTTCATAATGGTCATGGGTGAATGCTTTCTGCTGTAAAGTGTCTTTTAGAGTAGGAATCAGCATAGTGGGATGC
CCAGCAGGCACAAACCATGGGTCCAGGGAGTCTCAGCGGGGAACTTCTATCAGTATCAATAACCATTGGAAGGAG
AAATGATTCATGTGTGAAAAAATTCTCAGATCCATCAATAAATTTTTTTTCAG

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FIGURE 3911

MKEILCGTNEKEPPTTEAVAQLAQELYSSGLLVTLIADLQLIDFEGKKDVTQIFNNILRRQIGTRSPTVEYISAHP
HILFMLLKGYEAPQIALRCGIMLRECIRHEPLVKIILFSNQFRDFFKYVELSTFDIASDAFATFKDLLTRHKVLV
ADFLEQNYDTIFEDYEKLLQSENYVTKRQSLKLLGELILDRHNFAIMTKYISKPENLKLMMNLLRDKSPNIQFEA
FHVFKVFVASPHKTQPIVEILLKNQPKLIEFLSSSQKERTDDEQFADEKNYLIKQIRDLKKTAP

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FIGURE 3912

CACAAAGGCACCAAACCACAAAACGTCACACGTAAACATCATACGTGGCAACCACAAGCCAATCAGTTGGATATT
TCATTCATTGGTATACATATGGACTGTAAGGTGTCTTTCAGGTTGCAGAAAAGATGGAAAAAAGGACATGTGCAC
TCTGCCCCAAAGATGTCGAATATAATGTCCTGTACTTTGCACAATCAGAGAATATAGCTGCTCATGAGAAATTGTT
TGCTGTATTCTTCAGGACTTGTGGAATGTGAGGATCAGGATCCACTTAATCCTGATAGAAGTTTTGATGTGGAAT
CAGTAAAGAAAGAAATCCAGAGAGGAAGGAAGTTGAAATGCAAATTTTGTCAAAAAGAGGAGCCACCGTGGGAT
GTGATTTAAAAAACTGTAACAAGAATTACCACTTTTTCTGTGCCAAGAAGGACGACGCAGTTCCACAGTCTGATG
GAGTTCGAGGAATTTATAAACTGCTTTGCCAGCAACATGCTCAATTCCCGATCATCGCTCAAAGTGCTAAATTTT
CAGGAGTGAAAAGAAAAAGAGGAAGGAAGAAACCCCTCTCAGGCAATCATGTACAGCCACCCGAAACAATGAAAT
GTAATACATTCATAAGACAAGTGAAAGAAGAGCATGGCAGACACACAGATGCAACTGTGAAAGTTCCTTTTCTTA
AGAAATGCAAGGGAAGCAGGACTTCTTAAATTACTTACTTTGAAGAAATATTAGACAAAGTTCATTCAATTCCAGAA
AAACTCATGGATGAGACTTACTTCAGAATCAGACTATGAAGAAATCGGGAGTGCACTTTTTTACTGTAGATTGTT
CGAAGACACATTTGTAAATTTTCAAGCAGCAATAGAGAAAAAAATTCATGCATCTCAACAAAGGTGGCAGCAGTT
GAAGGAAGAGATTGAGCTACTTCAGGACTTAAAACAAACCTTGTGCTCTTTTCAAGAAAATAGAGATCTTATGTC
AAGTTCTACATCAATATCATCCCTGTCTTATTAGGGATTACCATTTCCTAAGCCAAGAGTCATGTCAAATTGCAA
TCAGGCTCAAAACCAGAGACCAGGCTGTGAAATCCACACATCTTTAGAACTAGTCGTCTCCTCTTGGCCTCAGCA
GCTCTTCCCTGTTCTTACTGGTTGACATTTTGTACTCTTTGCACACTCTTGTGTTTTTTGCTCACTGTCACAC
TCCCAGCACCTAGTATGCTCAGTAAATGTTTGTGGAATAAGTGCATAAAATGTTCTTAACCTTTGATTCTACTTA
CAGCCCATGATAGCCTCTTAGATATAATAAATTTGGATTATACTAAAA

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FIGURE 3913

MEKRTCALCPKDVEYNVLYFAQSENIAAHENCLLYSSGLVECEDQDPLNPDRSFDVESVKKEIQRGRKLKCKFCH
KRGATVGC DLKNCNKNYHFFCAKKDDAVPQSDGV RGIYKLLCQQHAQFP IIAQSAKFSGVKRKRGRKKPLSGNHV
QPPETMKCNTFIRQVKEEHGRHTDATVKVPFLKKCKGSRTS

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FIGURE 3914

TTGCTTTCTCTGCCGCATGGTCCTGGGCCGTTGGCGTCGGAAGCCTGAAGCATGGGCGCTGAGTGGGAGCTGGG
GGCCGAGGCTGGCGGTTTCGCTGCTGCTGTGCGCCGCGCTGCTGGCGGCGGGCTGCGCCCTGGGCCTGCGCCTGGG
'CCGCGGGCAGGGGGCGGCGGACCGCGGGGCGCTCATCTGGCTCTGCTACGACGCGCTGGTGCACCTTCGCGCTGGA
AGGCCCTTTTGTCTACTTGTCTTTAGTAGGAAACGTTGCAAATTCGATGGCTTGATTGCTTCTTTATGGAAAGA
ATATGGCAAAGCTGATGCAAGATGGGTTTATTTTGATCCAACCATTTGTGTCTGTGGAAATTCTGACCGTCGCCCT
GGATGGGTCTCTGGCATTGTTCTCATTATGCCATAGTCAAAGAAAAATATTACCGGCATTTCTGCAGATCAC
CCTGTGCGTGTGCGAGCTGTATGGCTGCTGGATGACCTTCCTCCCAGAGTGGCTCACCAGAAGCCCCAACCTCAA
CACCAGCAACTGGCTGTACTGTTGGCTTTACCTGTTTTTTTTTAACGGTGTGTGGGTTCCTGATCCCAGGACTGCT
ACTGTGGCAGTCATGGCTAGAACTCAAGAAAATGCATCAGAAAGAAACCAGTTCAGTGAAGAAGTTTCAGTGAAC
TTTCAAACCATAAACACCATTATCTAACTTCATGAACCAGAAATGAATCAAATCTTTTTGTTTGGCCAAAATGTA
ATACATTCCAGTCTACACTTTGTTTTTGTATTGTTGCTCCTGAACAACCTGTTTCAAATTGGTTTTTAAGGCGACC
AGTTTTTCGTTGTATTGTTGTTCAATTAAATGGTGATATAGGGAAAAGAGAACAAATTTGAATTTGTAATAATAAA
ATGTTTAATTATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 3915

MGAEWELGAEAGGSLLLCAALLAAGCALGLRLGRGQGAADRGALIWLCDALVHFALEGPFVYLSLVGNVANS DG
LIASLWKEYGKADARWVYFDPTIVSVEILTVALDGLALFLIYAIVKEKYRHF LQITLCVCELYGCWMTFLPEW
LTRSPNLNTSNWLYCWLYLFFFNGVWVLIPGLLLWQSWLELKKMHQKETSSVKKFQ

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FIGURE 3916

GCCATTTTGTATGCCAAGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCAGCCATCCGAGACTGTGAC
AGAGCCATTGAAATAAATCCTGATTCAGCTCAGCCTTACAAGAGGCGGGGAAAGCACACAGGCACAGAAAATTG
CAGAACATCAGAGAAAGTATGAGCGAAAACGTGAAGAGTGAGAGATCAAAGAAAGAATAGAACGAGTTAAGAAGG
CTCGAAAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGATGACAGTCAGGAGCTCAGTATGGCTCTTTTC
CAGGTGGCTTTCTTGGGGGAATGCCTGGTAATTTTCTTGGAGGAATGGCTGGAATGGGAGGGGGCATACTGGAA
TGGCCGGAATGCCTGGACTCAATGAAATTCCTTAGTGATCCAGAGGTTCTTGCAGCCATGCAGGATCCAGAAGTTA
TGGTGGCCTTCCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAAGTACCAGAGCAACCCAAAGGTTATGAATC
TCATCAGTAAATTGTCAGCCAAA

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FIGURE 3917

GCCGACGTAGACCCTGCTCTGCACGCCAGCCCGCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGAAGA
TGGCGCCTGCTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCAAAAAATG
GGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGCAGAAACCTCACCACAAAAACCGAGAGCACTTTG
AAAACAACACAGTTTTCTTGTACCCTGGGAGATGAGTTTGAAGAAACCACAGCTGATGGCAGAAAAACACAGACT
GTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGAAAA
TTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTAGAA
TAAAAATTCCATCATCACTTTGGACAGGAGTTAACTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCCA
TACTGTTTCTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCACAAACATTTTACATGCAGTTATTTT
AAAGTGTGTTGGATTAATTAGGATTATCCCTTTGTTTAATAAAT

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FIGURE 3918

TTTCTGCCCCGTGGACGCCGCTGAAGAAGCATCGTTAAAGTCTCTCTTCACCTTGCCGTCATGTCTAAGTCAGCGT
CTCCAAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACAGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATACAACGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAA
TTGAAGTAATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACC
ATGACTCCGTGGATAAGATTGTCATTTCAGAAATACCATCTGTGAAGGGCCACAACCTGTGAAGTTAGAAAAGCCC
TGCCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCTGAAGGGGTTCTGGAACTTTGGTGGTGGTC
GTGGAGATGGTTTCGGTGGGAATGACAACTTTGGTCTGTGGAGGAACTTCAGTGGTCTGTGGTGGCTTTGGTGGCA
GCTGTGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAAT
TTGGAGGCAGAAGCTCTGGCCCCATGGCGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGCTATG
GCGTTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGA
GAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGC
CTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGT
GACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAAGTGTTTTAATG
TAGATTTTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATTGTGACGCTGAATAAATGTCT

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FIGURE 3919

MSKSASPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTRSRGFGFVTYATVEEVDAAMNTT
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVKGHNCEVRKALPKQEMASASSQRGRGSGNFGGGRGDGFGGNDNFGRGGNFSGR
GGFGGSCGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPQ
NQGGYGVSSSSSSSYGSGRRF

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FIGURE 3920

ACCTTGCCGTCATGTCTAAGTCAGCGTCTCCAAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGA
GCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACAGACTGTGTGGTAATGA
GAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTA
TGAATACAACGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAA
GACCAGGTGCCCCTTAACCTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAA
GAGATTATTTTGAACAGTATGGAAAAATTGAAGTAATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGG
GCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGCTGTGGTGGTGGTGGATATGG
TGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATT
TGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGG

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FIGURE 3921

TGTAGTGGAACCAAAGAGAGCTGTTTCTAGAGAGGATTCTGTAAAGCCCGTTGCCCATCTAACAGTGAAGAAAAT
TTTTGTTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTGAGAGACTACTTTGAAAAGTGTAGCAAGATTGA
AACCATAGAAGTT**ATG**GGAAGACAGGCAGAGTGGAAAAAGAGAGGATTTGCTTTTGTAACTTTGTATGATCATGA
TATAATTGATAAAATTGTTGTTTCAGAAATACCACACTATTAATGGGCATAATTGTGAAGTAAAAAGGCCCTTTC
TAAACAAGAGATGCAGTCTGCTGGATCACAGAGAGGTCATGGAGGTGGATCTGGCAATTTTATGGGTCGCGGAGG
AAACTTTGGAGGTGCTGGAGGTAATTTTGGCCTTGGTGGAACTTTGGTGGAAAGAGGAGGCTATGGTGGTGGAGG
TGGTGGCAGCAGAGGAAGTTATGGAAGAGGTGATGGTGGATATAATAGATTTGGACGTGACGGTGGCAACTATGG
TGGTGGTCCTGGTTATAGTAGTAGAGGGGGCTATGGTGGTGGTGGAAACAGGATATGGAAACCAAGGTGGTGGATA
TGGTGGAGGTGGTGGAGGATATGATGGTTACAATGAAGGAGGAAAATTTGGCGGTGGTAACTATGGTGGTGGTGG
GAACTATAATGATTTTGGAAATCATAGTGGACAACAGCAATCAAATTATGGACCCATGAAAGGGGGCAGTTTTGG
TGGAGAAGCTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGGAAAGTGGTGGATATGGTAGCAGAAG
GTTCT**TAAAA**ACAGCAGAAAAAGGGCTACAGTTCTTAGCAGGAGAGAGAGCAAGGAGTTGTCAGGAAAGCTGCAGGT
TACCTCGAGAGAGTTGTCCCAAATGCATTAGAGGAAGTGTAAAAATCTGCCACAGAAGGAACAATGATCCATAGT
CAGAAAATTTACTGCAGCTTAAACAGGAAACCCTTCTTGTTCAGGACTCTCATAGCCACAGTTTGCAAAAAGTGC
AGCTATTGATTAAATGCAATATAGTGTCAACTAGATGTAGATTCTTGAGGTCTTTTATCTGTTGTAGCTTTGTCTT
TTTCTTTTTCTTTTCATTACATCAGGTATATTGCCCTGTAAATTGTGGTAGTGGTACCAGGAATAAAAAATTAAG
GAATTTTTAACTTTTCAA

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FIGURE 3922

MEDRQSGKKRGFAFVTFDDHDIIDKIVVQKYHTINGHNCEVKKALSKQEMQSAGSQRGHGGGSGNFMGRGGNFGG
AGGNFGLGGNFGGRGGYGGGGGSRGSYGRGDGGYNRFGRDGGNYGGGPGYSSRGGYGGGGTGYGNQGGGYGGGG
GGYDGYNEGGNFGGGNYGGGGNYNDFGNHSGQQQSNYGPMKGGSF'GGRSSGSPYGGGYGSGGGSGGGYGSRRF'

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FIGURE 3923

GGTACGTGCGCTCGCGGTTCTCTCGCGGAGGTTCGGCGGTGGCGGGAGCGGGCTCCGGAGAGCCTGAGAGCACGGT
GGGGCGGGGCGGGAGAAAAGTGGCCGCCCCGGAGGACGTTGGCGTTTACGTGTGGAAGAGCGGAAGAGTTTTGCTTT
TCGTGCGCGCCTTCGAAAAGTGCCTGCCGCTGTCTGAGGAGTCCACCCGAAACCTCCCCTCCTCCGCCGGCAGCC
CCGCGCTGAGCTCGCCGACCCAAGCCAGCGTGGGCGAGGTGGGAAGTGCGCCCGACCCGCGCCTGGAGCTGCGCC
CCCGAGTGCCCATGGCTACAAGGGTGTGAGCATGAGCGCCCGCTGGGACCCGTGCCCCAGCCGCCGGCGCCGC
AGGACGAGCCGGTGTTCGCGCAGCTCAAGCCGGTGTGAGGCGCCGCGAATCCGGCCCGCGACGCGGGCGCTCTTCC
CCGGCGAGGAGCTGAAGCACGCGCACCACCGCCCGCAGGCGCAGCCCGCGCCCGCGCAGGCCCCGCGAGCCGGCCC
AGCCGCCCGCCACCGGCCCGCGGGTGCCTCCAGAGGACCTGGTCCAGACAAGATGTGAAATGGAGAAGTATCTGA
CACCTCAGCTTCTCCAGTTCTTATAATTCCAGAGCATAAAAAGTATAGACGAGACAGTGCCTCAGTCGTAGACC
AGTTCTTCACTGACACTGAAGGGTTACCTTACAGTATCAACATGAACGTCTTCTCCCTGACATGACTCACCTGA
GAACTGGCCTCTACAAATCCCAGAGACCGTGCCTAACACACATCAAGACAGAACCTGTTGCCATTTTCAGCCACC
AGAGTGAAACGACTGCCCTCCTCCGGCCCCGACCCAGGCCCTCCCTGAGTTCACCAAGTATATTCAGCTCACACC
AGACCGCAGCTCCAGAGGTGAACAATATTTTCATCAAAACAAGAACTTCCTACACCAGATCTTCATCTTTCTGTCC
CTACCCAGCAGGGCCACCTGTACCAGCTACTGAATACACCGGATCTAGATATGCCAGTTCTACAAATCAGACAG
CAGCAATGGACACTCTTAAATGTTTCTATGTGAGCTGCCATGGCAGGCCCTAACACACACACCTCTGCTGTTCCGC
AGACTGCAGTGAAACAATTCAGGGCATGCCCCCTTGACATACACAATGCCAAGTCAGTTTCTTCCACAACAGG
CCACTTACTTTCCCCCGTCACCACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAATT
TAACCCACCTCCATCCTATGCTGCTACAATTGCTTCTAACTGGCAATTCACAATCCAAATTTACCCACCACCC
TGCCAGTTAACTCACAAAACATCCAACCTGTGAGATACAATAGAAGGAGTAACCCCGATTGAGAGAAACGACGCA
TCCACTACTGCGATTACCCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTTAAAGCTCACCTGAGGACTC
ACACTGGTGAAAAGCCATACAAGTGTACCTGGGAAGGCTGCGACTGGAGGTTTCGCGCATCGGATGAGCTGACCC
GCCACTACCGGAAGCACACAGGCGCCAAGCCCTTCAGTGCGGGGTGTGCAACCGCAGCTTCTCGCGCTCTGACC
ACCTGGCCCTGCATATGAAGAGGCACCAGAACTGAGCACTGCCCGTGTGACCCGTTCCAGGTCCCCTGGGCTCCC
TCAAATGACAGACCTAACTATTCTGTGTAAAAACAACAAAAACAACAAAAGCAAGAAAACCACAACCTAAAAC
GGAAATGTATATTTTGTATATTTGAGAAAACAGGGAATACATTGTATTAATACCAAAGTGTGGTCAATTTAAG
AATCTGGAATGCTTGCTGTAATGTATATGGCTTTACTCAAGCAGATCTCATCTCATGACAGGCAGCCACGTCTCA
ACATGGGTAAGGGGTGGGGGTGGAGGGGAGTGTGTGACGCTTTTTTACCTAGGCACCATCATTTAATGTGACAGT
GTTCAAGTAAACAAATCAGTTGGCAGGCACCAGAAGAAGAAATGGATTGTATGTCAAGATTTTACTTGGCATTGAGT
AGTTTTTTTTCAATAGTAGGTAATTCCTTAGAGATACAGTATACCTGGCAATTCACAAATAGCCATTGAACAAATG
TGTGGGTTTTTTAAAAATTATATACATATATGAGTTGCCTATATTTGCTATTCAAATTTTGTAAATATGCAAATC
AGCTTTATAGGTTTATTACAAGTTTTTTAGGATTCTTTTGGGGAAGAGTCATAATTCTTTTGAAAAATAACCATGA
ATACACTTACAGTTAGGATTTGTGGTAAGGTACCTCTCAACATTACCAAATCATTTCTTTAGAGGGAAGGAATA
ATCATTCAAATGAACTTTAAAAAAGCAAATTTTCATGCACTGATTAATAATAGGATTATTTTAAATACAAAAGGCAT
TTTATATGAATTATAAACTGAAGAGCTTAAAGATAGTTACAAAATACAAAAGTTCAACCTCTTACAATAAGCTAA
ACGCAATGTCATTTTTTAAAAAGAAGGACTTAGGGTGTGCTTTTACATATGACAATGTTGCATTTATGATGCAGT
TTCAAGTACCAAAACGTTGAATTGATGATGCAGTTTTTCATATATCGAGATGTTTCGCTCGTGCAGTACTGTTGGTT
AAATGACAATTTATGTGGATTTTGCATGTAATACACAGTGAGACACAGTAATTTTATCTAAATTACAGTGCAGTT
TAGTTAATCTATTAATACTGACTCAGTGTCTGCCTTTAAATATAAATGATATGTTGAAAACCTTAAGGAAGCAAAT
GCTACATATATGCAATATAAAATAGTAATGTGATGCTGATGCTGTTAACCAGGGCAGATAAATAAGCAAAAT
GCCAAAAGGGGTCTTAATTGAAATGAAAATTTAATTTGTTTTTAAATATTGTTTATCTTTATTTATTTTGTGG
TAATATAGTAAGTTTTTTTAGAAGACAATTTTCATAACTTGATAAATTATAGTTTTGTTTGTAGAAAAGTTGCT
CTTAAAAGATGTAAATAGATGACAAACGATGTAAATAATTTGTAAGAGGCTTCAAATGTTTATACGTGGAAAC
ACACCTACATGAAAAGCAGAAATCGGTTGCTGTTTTGCTTCTTTTCCCTCTTATTTTTGTATTGTGGTCATTTT
CTATGCAAATAATGGAGCAAACAGCTGTATAGTTGTAGAATTTTTTGTAGAGAATGAGATGTTTATATATTAACGA
CAATTTTTTTTTTGGAAAATAAAAAGTGCCTAAAAG

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FIGURE 3924

CGCCGACGCAGACCACTCTCTGCATGCCAGCCCGCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGAAG
ATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAAAT
GGGCGCAATGGCCAAGCCAGATTGTATTGTCACTTGTGATGGCAAAAACCTCACCATAAAAACTGAGAGCACTTT
GAAAAACAACACAGTTTTCTTGTCCCCTGGGAGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAAACTCAGAC
TGTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGAAA
ATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACCATGTCGCCTGTACTCGGATCTATGAAAAAGTAGA
ATAAAAATTCCATCATCACTTTGGACAGGAGTTAACTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCTCC
ATACTGTTTCTTTTTTTTTTTTTTCCATTACTGCGTTCAATTATCTTTATCACGAACATTTTACATGCAGCTATTTT
AAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAATGCGTTTGTGCTAATAAAAAAAGAAAA
GAAAAA

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FIGURE 3925

GCGGTGGCAGCCGCTCGCTGAGGTAGTCTCTCGCGGCGCCGGGGATCCCTGAACACAGACAGCGCGGGGACTGAGA
AGGAAAGCTTCTTTCTGGGCAGCCAGAGCCGCAAAGGTGGAGCCGCGTTGGCGCCCTCCGCGGGACCAGCGCCTC
GGATGCGGGGCGGAGCGCGGGGGGCGCGGCTGCGGGAGCGCGAAGCGGGGGGCCAGGGGCGCCTCATGTGAGAGC
CGCGGGACCTGCAGCCGCCCGTCCCCGGAGCACGGGGTGGTGTGTGGGGGAAGCCGCCCCCGGCAGCAGGATG
AAACGAGGAGGAAGAGATAGTGACCGTAATTCATCAGAAGAAGGAACCTGCAGAGAAATCCAAGAACTGAGGACT
ACAAATGAGCATTCTCAGACTTGTGATTGGGGTAATCTCCTTCAGGACATTATTCTCCAAGTATTTAAATATTTG
CCTCTTCTTGACCGGGCTCATGCTTCACAAGTTTGCCGCAACTGGAACCAGGTATTTACATGCCTGACTTGTGG
AGATGTTTTGAATTTGAACTGAATCAGCCAGCTACATCTTATTTGAAAGCTACCCATCCAGAGCTGATCAAACAG
ATTATTAAGACATTCAAACCATCTACAATATGTCAGCTTCAAGGTGGACAGCAGCAAGGAATCAGCTGAAGCA
GCTTGTGATATACTATCGCAACTTGTGAATTGCTCTTTAAAAACACTTGGACTTATTTCAACTGCTCGACCAAGC
TTTATGGATTTACCAAAGTCTCACTTTATCTCTGCACTGACAGTTGTGTTTCGTAAACTCCAAATCCCTGTCTTCG
CTTAAGATAGATGATACTCCAGTAGATGATCCATCTCTCAAAGTACTAGTGGCCAACAATAGTGATACACTCAAG
CTGTTGAAAATGAGCAGCTGTCCTCATGTCTCTCCAGCAGGTATCCTTTGTGTGGCTGATCAGTGTACGGCTTA
AGAGAACTAGCCCTGAACTACCACTTATTGAGTGATGAGTTGTTACTTGCATTGTCTTCTGAAAAACATGTTCTGA
TTAGAACATTTGCGCATTGATGTAGTCAGTGAGAATCCTGGACAGACACACTTCCATACTATTTCAGAAAGTAGC
TGGGATGCTTTTCATCAGACATTCACCCAAAGTGAACCTTAGTGATGTATTTTTTTTTTATATGAAGAAGAATTTGAC
CCCTTCTTTTCGCTATGAAATACCTGCCACCCATCTGTACTTTGGGAGATCAGTAAGCAAAGATGTGCTTGGCCGT
GTGGGAATGACATGCCCTAGACTGGTTGAACTAGTAGTGTGTGCAAATGGATTACGGCCACTTGATGAAGAGTTA
ATTTCGATTGCAGAACGTTGCAAAAATTTGTGCACTATTGGACTAGGGGAATGTGAAGTCTCATGTAGTGCCTTT
GTTGAGTTTGTGAAGATGTGTGGTGGCCGCTATCTCAATTATCCATTATGGAAGAAGTACTAATTCCTGACCAA
AAGTATAGTTTGGAGCAGATTCAGTGGGAAGTGTCCAAGCATCTTGGTAGGGTGTGGTTTTCCCGACATGATGCC
ACTTGGTAAAACTGCATGATGAATAGCACCTTAATTTCAAGCAAATGTATTATAATTAAGTTTTTATTTGCTGT
AGTTCTGATATAATTTCTACTATTTTGTGGCACAGAAATTTGATATCTTCAGTCAGTATATGTAAAGATTGTTTAT
CGGAAGACCCATGAATGAGTTTTGGTCAGAAAATTCACCTTGTTCCTTAGTGTAATAGCAGTCATATCTCCGAA
TTTTTTTTAATGTGGTTCGGATGTGAAATAACCAGTTATACGTATTAAACAGTTTACAGTCTAAAGGAAACAAAA
CCTATATGTTATAATATCCAAGAAGTACTAATAGGTTTTCTGAAATGTTATATTCTCTATGCATTTAAAAA
TGTAACCTTGACATTTTAGGGTCTTCAGTTACACATACACCTGTTATAAGGTGTTAATATAGCTCAGGAAAGTG
AGCATTTTGTGAGAAAAATGAATATATCATATCTAATGGAAGAGATTGGATGAATGTTCTCAAATGTTACAAAGC
TGTTTAAAGAAAAAGGTATATATAAGTAATCAGAACACTTAGAAGACTGATAGATGTCACACAGTGGTATTATAG
AAGGATAATACAGAGCCAAGATCAAATTAAGACAATAAATGGAACAGAAGGGAGGCAGTGTTTAGCTTTGTAT
AACTTTTAGGTTTGTCTGTGAATCTGCTAAACCATATACATTCTTTTGTGATATGTTATTATGTATGTGGCACT
TGAGGCACTGTATGTAAAGTAAGGAATGCTTTACTAGTTCTCCTTGGTTTTATCTTTGTTTAACTAGCTTTAAA
GTATTAACAATAATTGAAATGAAAAGCTTACCTATTTTAAAAAGCCAAATTTAAATAAATATAGAACTTTAAAA
TGTTTATCAGTTGTTTCCATGAAAGAATATTAGTTTCCAGTAAATTTTAGTGATGGCTCACTCACTTTTCTATTT
TGGAATTACATAGTTATGTAAGTAAATTTTTAAAAATCATAAAGGGAGCACCATTGTACAGTCTAGCATAAACA
GCAAATTTTAAAGAGGACATATTTAAGTTCATAATCATATTTTTTCAGTAAATATTGCTCAGTGAACCTGGAAAAC
TTAATAGAAAAATGTCTGCAGTTTTGTGATTGTTAATTTGGTTAAACCGATATTTTATATTATTTAAGTTAGGTA
ACATTTTATATTACTTTTCATATGAATAAAAGTAATCCATGCATTGTAGAGTCTATAAAATGTTGAGTTTTAAAG
ATGATATAAACTTTGATGCTGGGCACTAGTGCTAGTAGATATTACTACCCTCCTGAGGGAAATCAGAAATGATTT
AACCCCGGTGGAATACATTAATTCTTAAAGCGGCTCTTTTCAGTGGTGTGACTTTTTAGATTGTGTCTCAGTGGTT
GAGGAAGCTAACAGTCTTAGATCTACTTTTAAACGGATGGCCTTCTTAAGAATAAAGCAAAAGGTGATTTTCTA
CATAATTTTGTCTTTCCAAAAGTGATGATATGCTCTCCTACAGCAACATATGAGAAGAAAAAAGGCTTATCTAGA
TTCGAAAATTAACAGCAATTATAGTAATATATCCCCCTCCTTCTAAATAGTAAAAAGCTCTGATTGTACAAGAATT
ACCTGTGCTAGTCAAGTTGTTGTTTTTCTTGAACAACCTTGGAAAAATGGATTTGACAGTACATAATCAGTTCT
ACTAACCAAAGCTTGATTTGGAAATTTACTTTTTGTACAAATGAATTATATAATGCTTAAATACTTTGTCTAC
TTTATAAGCAAAATGCATAGTACTTAATTTGTTTATACTGTAAAGTATATGTTAAATGCTTTTATCACTTTGAGA
ATAAAAAGTTACTAATGC

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FIGURE 3926

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTTTCCTCCTTGCTCGCCGCAGCCGCCTCCGCCGCGCGCCTCCTC
CGCCGCCGCGGACTGCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTAAATCCCCTGCATCGGA
TCACCGGCGTGCCCCACCATGTCAGACGCAGCCGTAGACGCCAGCTCCGAAATCACCATCAAGGACTTAAAGGAG
AAGAAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGGAAAATGGG
GAGCAGGAAGCTGACAGTGAAGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGT
GATGGTGAGGAAGAGGATGGAGATGAAGATGAGGAAGCTGAGTCACCTACGGGCAAGCGGGCAGCTGAAGATGAT
GATACGCGCTCTCCACCACCCAACCCAAACCATGAGAATTTGCAACAGGGGAGGAAAAAAGAACCAAAACCTCCA
AGGCCATGCTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTGTTTGTATTTTTTATTACATTTTATATTTT
ATACATATTGTTAGGGTCAGCCATTTTAAATGATCTCGGATGACCAAACCAGCCTTGGGAGCGTTCTGTCCTACT
TCTGACTTTTACTTGTGGTGTGACCATGTTTCATTATAAT

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FIGURE 3927

MSDAAVDTSSEITTKDLQEKKEVVVEEAENGRDAPANGNANEENGEQEADNEVDEEEEEEGGEEEEEEEEEGDGEEEDG
DEDEEAETATGKRAAEDDEDDTRSPPPNPNHENLQQGRKKEPKLPRPCFFS

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTTCTCTCTTGCTCGCCGACGCCCTCCGCCGCGCGCCTCCTC
CGCCGCCGCGGACTGCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTAATCCCCTGCATCGGA
TCACCGGCGTGCCCCACCATGTGACAGCGAGCCGTAGACGCCAGCTCCGAAATCACCATCAAGGACTTAAAGGAG
AAGAAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCTGCTAACGGGAATGCTAATGAGGAAAATGGG
GAGCAGGAAGCTGACAGTGAAGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGT
GATGGTGAGGAAGAGGATGGAGATGAAGATGAGGAAGCTGAGTCACTACGGGCAAGCGGGCAGCTGAAGATGAT
GAGGATGACGATGTGATACCAAGAAGCAGAAGACCGACGAGGATGACTAGACAGCAAAAAAGGAAAAGTTAAAC
TAAAAAAAAAAGGCCGCGCGTGACCTATTACCCCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCTTCAAGTA
GAGAGGCCCGCCTGCCCACCGTGGGCAGTGCCACCCACAGATGATACGCGCTCTCCACCACCCAACCCAAACCAT
GAGAATTTGCAACAGGGGAGGAAAAAAGAACCAAAACCTCCAAGGCCATGCTTTTTTTCTTAAAAGTACTTTAAA
AAGGAAATTTGTTTGATTTTTTTATTTACATTTTATATTTTTATACATATTGTTAGGGTCAGCCATTTTTAATGA
TCTCGGATGACCAAACAGCCTTGGGAGCGTTCTGTCTTACTTCTGACTTTACTTGTGGTGTGACCATGTTTCATT
ATAATCTCAAAGGAGAAAAAAACCTTGTAaaaaaaAGCAAAATGACAACAGAAAAACAATCTTATTCTGAGCATT
CCAGTAACTTTTTTGTGTATGTACTTAGCTGTACTATAAGGAGTTGGTTTGTATGAGATGGTTAAAAAGGCCAAA
GATAAAAGGTTTATTTTTTTTTCTTTTTTGTCTATGAAGTTGCTGTTTATTTTTTTTTGGCCTGTTTGATGTATGT
GTGAAACAATGTTGTCCAACAATAAACAGGAATTTTATTTTGTCTGAGTTGTTCT

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FIGURE 3929

MSDAAVDASSEITIKDLKEKKEVVEEAENGRDAPANGNANEENGEQEADSEVDEEEEGGEEEEEEEEEGDGEEED
GDEDEEAESPTGKRAAEDDEDDVDTKKQKTDEDD

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FIGURE 3930

ATGGCGGCGGCGCGGCGGAGCAGCAACAGTTCTACCTGCTCCTGGGAAACCTGCTCAGCCCCGACAATGTGGTC
CGGAAACAGGCAGAGGAAACCTATGAGAATATCCCAGGCCAGTCAAAGATCACATTCCTCTTACAAGCCATCAGA
AATACAACAGCTGCTGAAGAGGCTAGACAAATGGCCGCCGTTCTCCTAAGACGTCTCTTGTCTCTGCAATTTGAT
GAAGTCTATCCAGCACTTCCCTCTGATGTTTCAAGTCCATCAAGAGTGAGCTACTCATGATTATTAGATGGAA
ACACAATCTAGCATGAGGAAAAAAGTTTGTGATATTGCGGCAGAACTGGCCAGGAATTTAATAGATGAGGATGGC
AATAACCAGTGGCCCGAAGGTTTGAAGTTCCTTTTTGATTTCAGTCAGCTCTCAAAATGTGGGACTGCGGGAAGCT
GCCCTTCACATTTTCTGGAACTTTTCTGGAATTTTTGGGAACCAGCAACAACACTATTTAGATGTCATCAAACGA
ATGTTAGTTCAGTGATGCAAGATCAGGAACACCCGTCGATCAGGACGTTATCTGCTAGAGCTACAGCTGCATTT
ATACTTGCAAATGAGCATAATGTTGCTCTGTTCAAACATTTTGAGACTTGCTACCGGGATTCTTACAGGCGGTA
AATGACTCGTGCTACCAGAATGATGATTCTGTCTTAAATCCCTCGTTGAGATTGCAGATACTGTTCCAAAGTAT
TTGCGTCTCTCACTTGGAAAGCAACTCTACAGCTAAGTCTAAAGTTGTGTGGAGACACTAGCCTCAACAATATGCAA
CGCCAGCTTGCCCTTGAAGTGATCGTCACCTCTCTGAGACTGCAGCTGCTATGTTAAGAAAACATACCAATATT
GTTGCACAGACTATTCCTCAGATGTTAGCAATGATGGTTGATTGGAAGAAGATGAGGACTGGGCAATGCAGAT
GAACTAGAAGATGATGATTTTGACAGCAATGCAGTTGCAGGCGAGAGTGCTCTAGATCGAATGGCTTGCGGACTT
GGTGAAAGCTCGTTCTGCCGATGATCAAGGAACACATTATGCAAATGCTTCAAATCCTGACTGGAATAACCGG
CATGCAGGATTGATGGCCTTATCTGCCATTGGTGAAGGGTGCCACCAGCAAATGGAAGGAATTCTAAATGAGATC
GTAAATTTTGTCTTACTTTTTCTCCAGGATCCTCATCCAAGAGTAAGGTATGCAGCCTGTAATGCCGTGGGACAG
ATGGCTACAGATTTTGACCTGGTTTCCAAAAGAAATTTTCATGAGAAGGTGATTGCAGCTCTGCTGCAGACCATG
GAAGACCAAGGCAATCAACGTGTGCAGGCCCATGCAGCTGCTGCCCTCATTAACTTTACTGAAGACTGTCCCAAG
TCACTACTTATTCCATACTTGGATAATTTGGTGAACATCTGCATTCCATTATGGTACTGAAGCTTCAAGAGCTG
ATTCAGAAAGGCACCAAGTTAGTTTTGGAACAAGTTGTGACATCCATTGCATCAGTTGCCGATACTGCAGAAGAA
AAATTTGTCCCTACTATGATTTATTTATGCCATCACTGAAGCACATCGTTGAGAATGCGGTTCAAAAAGAACTG
AGACTTCTGAGAGGAAAACTATTGAATGCATTAGCCTCATTGGTCTGGCTGTTGGGAAGGAAAAATTCATGCAG
GATGCATCAGATGTGATGCAGCTTTTGTAAAGACCCAGACAGACTTCAATGATATGGAAGATGATGATCCTCAG
ATCTCTTACATGATCTCAGCATGGGCCAGAATGTGAAAATCCTTGGAAGAAATTTTCAAGCAATACCTTCCAGTG
GTTATGGGGCCTTTAATGAAGACGGCTTCAATTAAGCCCGAAGTAGCCCTTTTAGATACCCAAGACATGGAGAAT
ATGAGTGATGATGATGGTTGGGAATTTGTGAACCTTGAGATCAGCAAAGCTTTGGTATTAAACTGCAGGACTA
GAAGAAAAATCAACTGCTTGCCAGATGTTGGTTTGCTATGCTAAGGAGTTAAAGGAAGGCTTTGTGGAGTACACC
GAACAGGTTGTCAAACCTGATGGTCCCTTTACTGAAATTTTATTTCCACGATGGTGTTCGAGTGGCAGCAGCGGAA
TCCATGCCTCTTCTCCTGGAGTGTCAGAGTCCGTGGTCTGAGTATCTCACACAGATGTGGCATTATTTATGTGT
GATGCTCTAATTAAGGCCATTGGTACAGAACCAGATTTCAGACGTCCTCTCAGAAATAATGCATTCTTTTGCAAAG
TGCATTGAAGTAATGGGAGATGGATGCCTTAATAATGAACACTTTGAAGAACTGGGAGGTATATTGAAAGCAAAG
CTTGAAGAACATTTTAAAAATCAAGAATTACGACAAGTTAAAGACAAGATGAAGACTATGATGAACAGGTGCGAA
GAGTCACTACAAGATGAGGATGATAATGATGTTTATATTCTGACCAAAGTGTGAGATATTTTACACTCAATATTC
AGTAGCTACAAAGAAAAGGTGTTACCATGGTTTGAACAGCTGCTTCCATTAATTGTCAACCTCATTGTCCACAT
AGACCATGGCCAGACAGACAATGGGGATTATGCATCTTTGATGATGTGATAGAACACTGTAGTCCAGCCTCATTT
AAATACGCAGAATATTTCTTAAGACCAATGCTCCAATATGTATGTGACAACAGCCAGAAAGTCAGGCAAGCAGCT
GCATATGGCCTGGGAGTCATGGCACAGTACGGTGGAGATAATTATCGCCCTTTTGTACAGAAGCACTTCCCTGT
CTGGTAAGAGTTATTAGTCTGCGGATTCTAAGACCAAAGAAAATGTCAATGCTACAGAGAACTGCATCTCAGCA
GTAGGGAAAATCATGAAGTTCAAGCCTGACTGTGTAAACGTTGAAGAGGTCCTTCCACACTGGTTGTCTTGGCTT
CCACTACATGAAGATAAAGAAGAAGCTGTTTCAACTTTCAATTATCTGTGTGACCTGATTGAAAGTAATCATCCA
ATTGTTCTTGGCCCAAACAATACCAATCTGCCCAAATATTTAGTATAATTGCGGAAGGAGAAATGCACGAGGCA
ATTAAACATGAAGATCCTTGTGCCAAACGTCCTGGCCAATGTCGTTTCGCCAAGTACAGACTTCTGGAGGACTGTGG
ACTGAGTGATAGCACAGCTCAGTCTGAGCAGCAGGCCGCCATTTCAGGAGCTCCTGAACTCTGCGTGA

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FIGURE 3931

ATGTTTACCAGCACCGGCTCCAGTGGGCTCTGTGAGTACCGGCCTCCGCCATCCTGGCTGCCCCCTACACGCCAC
CCTAGGCACCTCTTTGAGGAGGCTGGGGCAGCGGGGACCCTCGGGTTTGCCGGAGGTGGTGGGGCCGACCCTCCA
GACCCGCGTCCGAACCTTGCTAGTTCCCGGTCTTGGGGGTGAGCGGAAACCGCCCCCATTTGCGCCTGGAGGGGC
GAATGGGGACAAAGCCCCGCCGCCGCCGACCCACCTGGTATCCCCAGGTGCTCTGCCCAGGAGTCTCTTGG
GGCCGCTGCAAGTGGGCAGGTGCCCTGGTGTCTCGTGGGCCGGCCCCAGGCCCTTTGCGGAGCGTGTGCCGCGC
TGAAGGAAGGGGCCGTCCCCCTTACCATGCCCCATTCTTTTAGGCTTGGGGGACCGAACCTAACTCCCCCGCCCC
CACTTGCAAAGTTTACGCTCCGCTTTAGAAGCTGACCTCTCAGTTTCACTTGGATGTGTTTCTTCTTCACTCTCC
AAGAAGAGTTTTTAGACAAACACACACTGATGAGAGTGCTTTCAAGTGGAGGGAAGTTAGGAAGTCGTGGCGAGG
GAGCGCAGCTGTGCTGCTGGATGTTGCTGTTTTCTTGGCGTGTTAGCGGTGGTCAGCAGACAAGGCGCCTCTGTC
GAAGAGCCTTCTGCTGGTCCCCAGTGCCCTCTCCCTCCTGCTCGCCCTCCTCCTGCCTCACTGCCAGAAGCTCTT
TGTGTATGACCTTCACGCAGTCAAGAACGACTTCCAGCCTGGCACCTGTGTTTGCTCTGTTTGTACATTTTTACT
GCTCCATACCAAGAGTCCAAGTGGCACAATTCTGGGTCCGTTGTCCATCACAAACAAGACATTGATTTATATAT
TGGGACTGCAGCTTTTACCTCTGGTTCCTACATCTGGATTGTAGCCATAAGTGGACTTATGTCCGGTCTGTGCT
ACGACAGCAAAATGTTCCAGGTGCATCAGGTGCTCTGCATCCCCAGCTGGATGGCAAAATTCTTTTCTTGGACAC
TTGAACCCATCTTCTCTTCTTTCAGAACCCACCAGCGAAGCCAGAATTGGGATGGGAGCCACGCTGGACATCCAGA
GACAGCAGAGAATGGAGCTGCTGGACCGGCAGCTGATGTTCTCTCAGTTTGCACAAGGGAGGCGACAGAGACAGC
AGCAGGGAGGAATGATCAATTGGAATCGTCTTTTTCTCCTTTACGTCAGCGACAAAACGTAACTATCAGGGCG
GTCGGCAGTCTGAGCCAGCAGCGCCCCCTCTAGAAGTTTCTGAGGAACAGGTGCGCCGGCTCATGGAGATGGGAT
TTTCCAGAGGTGATGCTTTGGAAGCCCTGAGAGCTTCAAACAATGACCTCAATGTCGCCACCAACTTCCTGCTGC
AGCACTGATAGTCCAGGCCAACACTGGGACCGGACCGGCAGCCGAGTGACAGTGCGTGGTCCCCACCATCAGAT
CAGCCCGGGGACCGAGCATCTCTGGTGTGATGTTCTTGTGGGAAGAGGGAGGTTCCACCGCACCCCTGCCCTCA
ACCGCAAGACTGTTGCCGTTTTAGTGTGGAGATAAGTTTGCCATTACATTAGCATGTATTTTCTATCTATATTTT
TTATTGGGCATTTTCCCTAGGTTGGAGAGTCAGCACTCGTTTTGAATGTGTTTAAAATGCATTAAAATGGAAGAT
TTCTGCAGGCAGTTGAATGGCACTCCAGATGGGGAATTGCTGTAACCCCTCTTACTGTAACATGTCATCTCCTGCG
TCGTGATGGGGAGAGGGTAATGTTACTTCACAAAGGACATGTCAGATCCTTCTTCATGGACTTTTTTACTGTTACTG
TTTTTTCTCTCAAACCTGTTTTTCGAATCTCCTGGGAGTGAGGGAGAAACAGGGAGCTGAATCCTCCCCAAGCTG
TTCCAGGCCAGAGGACTCTGCAGTACCTTCTCCTACATCTAGTAACAAAGAATGGTGATAACCATGCACTGGTTC
AAGGTTCTGGAGTTCTCCATGAAACTTGGGTTAATTTTGCTCAGAGTATCCAGAGTTAGCCACTAGGCTGCGGGT
GAAATGGGATGGAGAAGAACAACAGCAGGCTTCTGGAGCCACATGGGCTGACTAGGGCACTCTGTGGCTGGCCT
GGCATGGGCTCAGCCCAGGAAGAGGAGAAACGATCCCTTGCCCTGCCCCCTCCCTGTGGCAGGGCTAACTGCCTGGC
CCTCCTGGCTCGCAGCCAGCCAGCCCCCTGGCAGCAGGTTCTCCTCAGGGCTTGGGTCTTCAACCTGTGGCGACA
GGAGGCAGGGCAGACTGTGGAGGACAGGATGCAGGTGAGGGAGAGGGAAGGCAGGGGTGGACCGCCATGAGCATG
AAAAGACCCGAAGCAAGTTGACTCTTGCAATGTGCAACTGTTATGTTCTGCAAAATGAGCAACGATGTATCAAAT
TGATGCAAATTTAGATGTTGATACTTACAATAAAGTTTTTAATGTGTTTTACTCTTC

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FIGURE 3932

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCATTCGAAAC
ATAGTGGAGGCCGCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAAG
GACCGAACACCCCCACCTCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 3933

AGGTTACCATGAAGATCATAGCAATGTCGCCTGCTGGCTTCTGGCAAAGCAGAAGAAACCGATACGATCTCCTGG
TGACGTCGCTTGGCGTTGTATGGGTGGTGCTTCACTTTGCCCTCCTGAATGCATATACTTACATGATGGGCGCTT
GTGTGATTGTATTTAGGTTTTTCTCCATCTGTGGAAAACATGTAACGCTAAAGATGCTCCTCTTGACAGTGGTCCG
TCAGCATGTACAAGAGCTTCTTTATCATAGTAGGCATGTTTCTCTTGCTGCTGTGTTACGCTTTTGCTGGAGTTG
TTTTATTTGGTACTGTGAAATATGGGGAGAATATTAACAGGCATGCAAATTTTTCTTCGGCTGGAAAAGCTATTA
CCGTACTGTTCCGAATTGTCACAGGTGAAGACTGGAACAAGATTATGCATGACTGTATGGTTCAGCCTCCGTTTT
GTACTCCAGATGAATTTACATACTGGGCAACAGACTGTGGAAATTATGCTGGGGCACTTATGTATTTCTGTTTCAT
TTTATGTCATCATTGCCTACATCATGCTAAATCTGCTTGTAGCCATAATTGTGGAGAATTTCTCCTTGTTTTATT
CCACTGAGGAGGACCAGCTTTTAAGTTACAATGATCTTCGCCACTTTCAAATAATATGGAACATGGTGGATGATA
AAAGAGAGGGGGTGATCCCCACGTTCCGCGTCAAGTTCTGCTGCGGCTACTGCGTGGGAGGCTGGAGGTGGACC
TGGACAAGGACAAGCTCCTGTTAAGCACATGTGCTACGAAATGGAGAGGCTCCACAATGGCGGCGACGTCACCT
TCCATGATGTCTGAGCATGCTTTCATACCGGTCCGTGGACATCCGGAAGAGCTTGCAGCTGGAGGAACCTCCTGG
CGAGGGAGCAGCTGGAGTACACCATAGAGGAGGAGGTGGCCAAGCAGACCATCCGCATGTGGCTCAAGAAGTGCC
TGAAGCGCATCAGAGCTAAACAGCAGCAGTCGTGCAGTATCATCCACAGCCTGAGAGAGAGTCAGCAGCAAGAGC
TGAGCCGGTTTTCTGAACCCGCCAGCATCGAGACCACCCAGCCAGTGAGGACACGAATGCCAACAGTCAGGACA
ACAGCATGCAACCTGAGACAAGCAGCCAGCAGCAGCTCCTGAGCCCCACGCTGTCGGATCGAGGAGGAAGTCGGC
AAGATGCAGCCGACGCAGGGAAACCCAGAGGAAATTTGGGCAGTGGCGTCTGCCCTCAGCCCCAAAACCAATAA
GCCATTTCAGTGTCTCAGTCAACTTACGGTTTGGAGGAAGGACAACCATGAAATCTGTCGTGTGCAAAATGAACC
CCATGACTGACGCGGCTTCTGCGGTTCTGAAGTTAAGAAGTGGTGGACCCGGCAGCTGACTGTGGAGAGCGACG
AAAGTGGGGATGACCTTCTGGATATTTAGGTGGATGTCAATGTAGATGAATTTCTAGTGGTGGAAACCGTTTTCT
AATAATGTCCTTGATTGTCCAGTGAGCAATCTGTAATTGATCTATAACTGAATTCAGCTTGTACAAGATGTTT
ATAAATTGATTTTCATCCTGCCACAGAAAGGCATAAGCTGCATGTATGATGGGTACTATCAATCATTGCTCAA
AAAATTTTTGTATAATGACAGTACTGATAATATTAGAAATGATACCGCAAGCAAATGTATATCACTTAAAAATGT
CATATATTCTGTCTGCGTAAACTAAGGTATATATTCATATGTGCTCTAATGCAGTATTATCACCGCCCCGAAAA
GAGTGCTAAGCCCAAAGTGGCTGATATTTAGGGTACAGGGGTATAGCTTTAGTTCACATCTTTCCCATTTCCAC
TAGAAATATTTCTCTTGAGAGAATTTATTATTTATGATTGATCTGAAAAGGTCAGCACTGAACCTATGCTAAAT
GATAGTAGTTTTACAACTACAGATTCTGAATTTTAAAAAGTATCTTCTTTTTCTCGTGTTATATTTTTAAATAT
ACACAAGACATTTGGTGACCAGAACAAGTTGATTTCTGTCTCAGTTATGTTAATGAACTGTTGCCTCCTTCTA
AGAAAATTGTGTGTGCAAGCACCAGGCAAAGAAATGGACTCAGGATGCTTAGCGGTTTTAAAACAAACCTGTAGAT
AAATCACTTGAGTGACATAGTTGCGCAAAGATGTTAAGTTTCTTAAGAAACCTTTTAATAACTGAGTTTAGCAAA
AAGAATAAACTATATAGCTCAATTTATTTAAAAAATCTTTGCATGTGTGATGTTATCATTGGCTTCATTTCTT
ACCCAAGGTATGTCTGTTTTTGCCATAAATCAGCAGAGTCATTTCACTTCTGGGTGATCCTAACACACCATTTGCTAC
GTTAGATTTGAAATGACATCTCTGTTAAAAAGAAATCTTCTATGGAATAATGGTGCCCTGCAAAATCTTCCTTTGA
ACTCACAGGTTAGGGATCACACAACCTTACTTAATCGTTTTTTGTTTTTTGTTTTTTTTCTTATATGTCAATGGCC
CATGTCTCCTCCGGGAAAATTAGAAAAGCAAAATGATTACAAAGTGCTGTTAGATTTCTTGTGCTGGGCCAGCCAAG
TAGAAGTGGACTTGACTTGGACCTTTAACTATTTTATTACAGATTGGACATTTGCTGTTTCAGATGTTTTTTAACA
GAGGGATTATCTCAGAATCCTGTGACCTCCAGGTTGTTTTATAATCTATTTTCTCTATTTAACATTCCCTCAGAT
AGATAGGCAAATAGGACATTCCTTCTGTGTCACAGAAGTATCGTGGTAGTGGCAGTCTACAGTTTATATGATTCA
TTGTAACATATGAGATAAAGAACAACAGTCATGTGGCCAAAAGGATTAGATTTGATTTGATGTTCACTTGGAGTT
TACTTTTTGTACATACAAGATAAAATAAATATTGGATTGT

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FIGURE 3934

MKIIAMSPAGFWQSRNRNRYDLLVTSLGVVWVVLHFALLNAYTYMMGACVIVFRFFSICGKHVTLKMLLLTVVVS
YKSFFIIIVGMFLLLLCYAFAGVVLFGTVKYGENINRHANFSSAGKAITVLFRIVTGEDWNKIMHDCMVQPPFCTP
DEFTYWATDCGNYAGALMYFCSFYVIIAYIMLNLLVAIIVENFSLFYSTEEDQLLSYNDLRHFQIIWNMVDDKRE
GVIPTFRVKFLLRLLRGRLEVLDLKD KLLFKHMCYEMERLHNNGDVTFHDVLSMLSYSRSDIRKSLQLEELLARE
QLEYTIEEEVAKQTIRMWLKKCLKRIRAKQQQSCSIIHSLRESQQQELSRFLNPPSIETTQPS EDTNANSQDNSM
QPETSSQQQLLSPTLSDRGGSRQDAADAGKPQRKFGQWRLPSAPKPI SHSVSSVNLRFGGRTTMKSVVCKMNPMT
DAASCGSEVKKWWTRQLTVESEDESGDDLDDI

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FIGURE 3935

CTTGGCTGGAACCTGAGACGGATTTCGCTCCCAAATGATGCTCCAGTGGCTGGAGCAACTCAAGTTCATCATTGTC
CTGAGAGAGAGGAGCAGCGCGGTTCTCGGCCGGGACAGCAGAACGCCAGGGGACCCTCACCTGGGCGCGCCGGGG
CACGGGCTTTGATTGTCTGGGGTTCGCGGAGACCCGCGCGCCTGCCCTGCACGCCGGGCGGCAACCTTTGCAGTC
GCGTTGGCTGCTGCGATCGGCCGGCGGGTCCCTGCCGAAGGCTCGGCTGCTTCTGTCCACCTCTTACACTTCTTC
ATTTATCGGTGGATCATTTTCGAGAGTCCGTCTTGTAATCTTTGGCACTTTGCTACTTTATTGCTTCTTTCTGGC
GACAGTTCCAGCACTCGCCGAGACCGGCGGAGAAAGGCAGCTGAGCCCGGAGAAGAGCGAAATATGGGGACCCGG
GCTAAAAGCAGACGTCTCCTTCCCGCCCGCTATTTCTATATTCAGGCAGTGGATACATCAGGGAATAAATTCAC
ATCTTCTCCAGGCGAAAAGGTCTTCAGGTGAAAGTCTCAGCACCCAGAGGAGCAATTCAGTAGAGTTGGAGTCCA
GGTTTTAGACCGAAAAGATGGGTCCCTTCATAGTAAGATACAGAATGTATGCAAGCTACAAAATCTGAAGGTGGA
AGTTAAATTCCAAGGGCAACATGTGGCCAAATCCCCATATATTTTAAAAGGGCCGGTTTACCATGAGAACTGTGA
CTGTCTCTGCAAGATAGTGCAGCCTGGCTACGGGAGATGAACTGCCCTGAAACCATTGCTCAGATTTCAGAGAGA
TCTGGCACATTTCCCTGCTGTGGATCCAGAAAAGATTGCAGTAGAAATCCCAAAAAGATTTGGACAGAGGCAGAG
CCTATGTCACTACACCTTAAAGGATAACAAGGTTTATATCAAGACTCATGGTGAACATGTAGGTTTTAGAATTTT
CATGGATGCCATACTACTTTCTTTGACTAGAAAGGTGAAGATGCCAGATGTGGAGCTCTTTGTTAATTTGGGAGA
CTGGCCTTTGGAAAAAAGAAATCCAATTCAAACATCCATCCGATCTTTTCCCTGGTGTGGCTCCACAGATTCCAA
GGATATCGTGATGCCTACGTACGATTTGACTGATTCTGTTCTGGAAACCATGGGCCGGGTAAGTCTGGATATGAT
GTCCGTGCAAGCTAACACGGGTCTCCCTGGGAAAGCAAAAATTCCTACTGCCGTCTGGAGAGGGCGAGACAGCCG
CAAAGAGAGACTCGAGCTGGTTAAACTCAGTAGAAAACACCCAGAACTCATAGACGCTGCTTTCACCAACTTTTT
CTTCTTTAAACACGATGAAAACCTGTATGGTCCCATTTGTGAAACATATTTCAATTTTTTGATTTCTTCAAGCATAA
GTATCAAATAAATATCGATGGCACTGTAGCAGCTTATCGCCTGCCATATTTGCTAGTTGGTGACAGTGTGTGCT
GAAGCAGGATTCCATCTACTATGAACATTTTTACAATGAGCTGCAGCCCTGGAAACACTACATTCCAGTTAAGAG
CAACCTGAGCGATCTGCTAGAAAAACTTAAATGGGCGAAAGATCACGATGAAGAGGCCAAAAAGATAGCAAAAGC
AGGACAAGAATTTGCAAGAAATAATCTCATGGGCGATGACATATTCTGTTATTATTTCAAACCTTTTCCAGGAATA
TGCCAATTTACAAGTGAGTGAGCCCCAAATCCGAGAGGGCATGAAAAGGGTAGAACCACAGACTGAGGACGACCT
CTTCCCTTGTACTTGCCATAGGAAAAAGACCAAAGATGAACTCTGATATGCAAAAATAACTTCTATTAGAATAATG
GTGCTCTGAAGACTCTTCTTAACTAAAAAGAAGAATTTTTTTAAGTATTAATTCCATGGACAATATAAAATCTGT
GTGATTGTTTGCAGTATGAAGACACATTTCTACTTATGCAGTATTCTCATGACTGTACTTTAAAGTACATTTTAA
GAATTTTATAATAAAACCACCTTTATTTTAAAGGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3936

MFGTLLLYCFFLATVPALAETGGERQLSPEKSEIWGPGLKADVVLPAARYFYIQAVDTSGNKFTSSPGEKVFQVKV
SAPEEQFTRVGVQVLDKDGSFIVRYRMYASYKNLKVEVKFQGQHVAKSPYILKGPVYHENCDCPLQDSAAWLRE
MNCPETIAQIQRDLAHFPAVDPEKIAVEIPKRFGQRQSLCHYTLKDNKVYIKTHGEHVGFRIFMDAILLSLTRKV
KMPDVELFVNLDWPLEKKKSNSNIHPIFSWCGSTDSKDIVMPTYDLTDSVLETMGRVSLDMMSVQANTGPPWES
KNSTAVWRGRDSRKERLELVKLSRKHPOLIDAAFTNFFFKHDENLYGPVVKHISFFDFFKHKYQINIDGTVAAY
RLPYLLVGDSVVLKQDSIYYEHFYNELQPWKHYIPVKSNSDLLEKWKWAKDHDEEAKKIAKAGQEFARNNLMGD
DIFCYYFKLFQEYANLQVSEPQIREGMKRVEPQTEDDLFPCTCHRKKTKDEL

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FIGURE 3937A

GAGTGTGGCTGCAGTGCGCCGGGACACCAGGGCTCCGCGCTCCGCACTCAAGAGGCTCCCGCGTCCCAACCCCTC
GCGCCCGCGCGTTTCGCGGATCCAGGCCGAGGACCGAAAGGGGCCGCCGAGCCCCGGGGCCGGCGCCAGAGAG
CCCAGCAAGGCCGGCCGCCCTGCCGGTGTGCCGCCGGCGGGTGCTTCTGGAAGGGCCAATGCGTTTCGGGCAGCAG
CCCCTGAAGCCGAGCCCGAGGCTAAGTGGGACTGACCGGGGCCAGAGTGGACGAACCGCCAGCATGGGGAGAGA
CCAGCGCGCGGTGGCCGGCCCTGCCCTACGGCGGTGGCTGCTGCTGGGGACAGTGACCGTGGGGTTCTCTCGCCCA
GAGCGTCTTGGCGGGTGTGAAGAAGTTTGATGTGCCGTGTGGAGGAAGAGATTGCAGTGGGGGCTGCCAGTGCTA
CCCTGAGAAAGGTGGACGTGGTCAGCCTGGGCCAGTGGGCCCCAGGGGTACAATGGGGCCACCAGGATTACAAGG
ATTCCCGGGACTGCAGGGACGTAAAGGAGACAAGGGTGAAAGGGGAGCCCCGGAGTAACGGGACCCAAGGGCGA
CGTGGGAGCAAGAGGCGTTTCTGGATTCCCTGGTGCCGATGGAATTCTTGACACCCGGGGCAAGGTGGGCCCCAG
GGGAAGGCCGGGCTACGATGGCTGCAACGGAACCCAGGGAGACTCAGGTCCACAGGGGGCCCCCGGCTCTGAGGG
GTTACCCGGGCCTCCCGGGCCCCAAGGACCAAAGGGCAGAAAGGTGAGCCTTATGCCTGCTAAAGAGGAGCG
CGACAGATATCGGGGTGAACCTGGAGAGCCTGGATTGGTCGGTTTCCAGGGACCTCCCGGCCGCCCTGGGCATGT
GGGACAGATGGGTCCAGTTGGAGCTCCAGGGAGACCAGGACCACCTGGACCCCTGGACCAAAGGACAGCAAGG
CAACAGAGGACTTGGTTTCTACGGAGTTAAGGGTGAAAGGGTGACGTAGGGCAGCCGGGACCCAACGGGATTCC
ATCAGACACCCTCCACCCCATCATCGCGCCACAGGAGTCACCTTCCACCCAGATCAGTACAAGGGTGAAAAAGG
CAGTGAGGGGGAACAGGAATAAGAGGCATTTCTTGAAGGGAGAAGAAGGAATCATGGGCTTTCTTGACTGAG
GGTTTACCCTGGCTTGAGTGGTGAAAAAGGATCACCAGGACAGAAGGGAAGCCGAGGCCTGGATGGCTATCAAGG
GCCTGATGGACCCCGGGGACCCAAGGGAGAAGCCGGAGACCCAGGGCCCCCTGGACTACCTGCCTACTCCCTCA
CCCTTCCCTAGCAAAAGGTGCCAGAGGTGACCCGGGATTCCAGGGGCCCAAGGGGAGCCAGGAAGCCAGGGTGA
GCCAGGAGACCCGGGCCTCCAGGTCCCCCTGGCCTCTCCATCGGAGATGGAGATCAGAGGAGAGGCCTGCCGGG
TGAGATGGGACCCAAGGGCTTCATCGGAGACCCGGCATCCCTGCGCTCTACGGGGGCCACCTGGACCTGATGG
AAAGCGAGGGCCTCCAGGACCCCGGGCTCCCTGGACCACCTGGACCTGATGGCTTCTGTTTGGGCTGAAAGG
AGCAAAAGGAAGAGCAGGCTTCCCTGGGCTTCCCGCTCCCTGGAGCCCGCGGACCAAAGGGGTGAAAGGTGA
CGCTGGGGAATGCAGATGTACAGAAGGCGACGAAGCTATCAAAGGTCTTCCGGGACTGCCAGGACCCAAGGGCTT
CGCAGGCATCAACGGGGAGCCGGGGAGGAAAGGGGACAGAGGAGACCCCGGCCAACACGGCCTCCCTGGGTTCCC
AGGGCTCAAGGGAGTGCTGGCAACATTGGTGCTCCCGGACCCAAGGAGCAAAAGGAGATTCCAGAACAATCAC
AACCAAAGGTGAGCGGGGACAGCCCGGCGTCCAGGTGTGCCCGGGATGAAAGGTGACGATGGCAGCCAGGCCG
CGATGGGCTCGATGGATTCCCCGGCCTCCAGGCCCTCCCGGTGATGGCATCAAGGGCCCTCCAGGGGACCCAGG
CTATCCAGGAATACCTGGAACGAAGGTACTCCAGGAGAAATGGGCCCCCAGGACTGGGCCTTCCCGGCCTCAA
AGGCCAACGTGGTTTCCCTGGAGACGCCGGCTTACCTGGACCACCAGGCTTCTGGGCCCTCCTGGCCCCGAGG
GACCCAGGACAAATAGATTGTGACACAGATGTGAAAAGGGCCGTTGGAGGTGACAGACAGGAGGCCATCCAGCC
AGGTTGCATAGGAGGGCCCAAGGGATTGCCAGGCCTGCCAGGACCCCGAGGCCACAGGTGCCAAAGGCCTCCG
AGGAATCCAGGCTTCGACAGGAGCTGATGGAGGACCAGGGCCCAGGGGCTTGGCAGGAGACGCAGGTCTGAAGG
GTTCCAGGACCCCGAGGTTTCATAGGACCCCGAGGATCCAAGGTGCAGTGGGCCTCCCTGGCCCAGATGGATC
CCCAGGTCCCATCGGCCTGCCAGGGCCAGATGGGCCCTTGGGGAAGGGGCCTCCCTGGAGAAGTCTTGGGAGC
TCAGCCCGGGCCACGGGGAGATGCTGGTGTGCTTGGACAGCCTGGGCTTAAAGGCCTTCCCGGAGACAGAGGCC
CCCTGGATTTCAGAGGAAGCCAAGGGATGCCTGGGATGCCAGGGCTGAAGGGCCAGCCAGGCCTCCAGGACCTTC
CGGCCAGCCAGGCCTGTATGGGCCTCCAGGACTGCATGGATTCCAGGAGCTCCTGGCCAAGAGGGGCCCTTGGG
GCTGCCAGGAATCCAGGCCGTGAAGGTCTGCTTGGTGATAGAGGGGACCCTGGGGACACAGGCGCTCCTGGCCC
TGTGGGCATGAAAGGTCTCTCTGGTGACAGAGGAGATGCTGGCTTACAGGGGAGCAAGGCCATCCAGGAAGCCC
TGGATTTAAAGGAATTGATGGAATGCCTGGGACCCCGGGCTAAAAGGAGATAGAGGCTCACCTGGGATGGATGG
TTTCCAAGGCATGCCTGGACTCAAAGGGAGACCCGGGTTTCCAGGGAGCAAAGGCGAGGCTGGATTTTTCGGAAT
ACCCGGTCTGAAGGGTCTGGCTGGTGAGCCAGGTTTTAAAGGCAGCCGAGGGGACCTGGGGCCCCAGGACCACC
TCCTGTCTCCTGCCAGGAATGAAAGACATTAAGGAGAGAAAGGAGATGAAGGGCCTATGGGGCTGAAAGGATA
CCTGGGCGCAAAGGTATCCAAGGAATGCCAGGCATCCAGGGCTGTGAGGAATCCCTGGGCTGCCTGGGAGGCC
CGGCCACATCAAAGGAGTCAAGGGAGACATCGGAGTCCCGGCATCCCGGTTTGGCAGGATTCCCTGGGGTGGC
TGGCCCCCTGGAATTACGGGATTCCAGGATTTCATAGGAAGCCGGGGTGACAAAGGTGCCCCAGGGAGAGCAGG
CCTGTATGGCGAGATTGGCGCGACTGGTGATTTCGGTGACATCGGGGACACTATAAATTTACCAGGAAGACCAGG

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FIGURE 3937B

CCTGAAGGGGGAGCGGGGCACCACTGGAATACCAGGTCTGAAGGGATTCTTTGGAGAGAAGGGAACAGAAGGTGA
CATCGGCTTCCCTGGGATAACAGGCGTGACTGGAGTCCAAGGCCCTCCTGGACTTAAAGGACAAACAGGCTTTC
AGGGCTGACTGGGCTCCAGGGTCGCAGGGAGAGCTGGGGCGGATTGGACTGCCTGGTGGCAAAGGAGATGATGG
CTGGCCGGGAGCTCCGGGCTTACCAGGTTTTCCGGGACTCCGTGGGATCCGCGGCTTACACGGCTTGCCAGGCAC
CAAGGGCTTTCCAGGATCCCCAGGTTCTGACATCCACGGAGACCCAGGCTTCCCAGGCCCTCCTGGGGAAAGAGG
TGACCCAGGAGAGGCCAACACCTTCCAGGCCCTGTGGGAGTCCCAGGACAGAAAGGAGACCAAGGAGCTCCAGG
GGAACGAGGCCCCACCTGGGAGCCCAGGACTTCAGGGGTTCCCTGGTATCACACCCCTTCCAACATCTCTGGGGC
ACCTGGTGACAAAGGGGCGCCAGGGATATTTGGCCTGAAAGGTTATCGGGGCCACCAGGGCCACCAGGTTCTGC
TGCTCTTCTGGAAGCAAAGGTGACACAGGGAACCCAGGAGCTCCAGGAACCCAGGGACCAAGGATGGGCCGG
GGAATCCGGGCCCCAGGGCAGGCCTGGTGTGTTTTGGTCTCCAGGAGAAAAAGGGCCCAGGGGTGAACAAGGCTT
CATGGGGAACACTGGACCCACTGGGGCGGTGGGCGACAGAGGCCCAAGGGACCCAAGGGAGACCCAGGATTCCC
TGGTGCCCCCGGGACTGTGGGAGCCCCCGGATTGCAGGAATCCCCAGAAGATTGCCGTCCAACCAGGGACAGT
GGGTCCCCAGGGGAGGCGAGGCCCCCTGGGGCACCGGGGAGATGGGGCCCCAGGGCCCCCGGAGAACCAGG
TTTCCGTGGGGCTCCAGGGAAGCTGGGCCCCAAGGAAGAGGTGGTGTGTCTGCTGTTCCCGGCTTCCGGGGAGA
TGAAGGACCCATAGGCCACCAGGGGCCGATTGGCCAAGAAGGTGCACCAGGCCGTCCAGGGAGCCCCGGGCCTGCC
GGGTATGCCAGGCCGCGAGCGTCAGCATCGGCTACCTCCTGGTGAAGCACAGCCAGACGGACCAGGAGCCCATGTG
CCCAGTGGGCATGAACAACTCTGGAGTGGATACAGCCTGCTGTACTTCGAGGGCCAGGAGAAGGCGCACAACCA
GGACCTGGGGCTGGCGGGCTCCTGCCTGGCGGGTTTACGACCATGCCCTTCTGTACTGCAACCCTGGTGATGT
CTGCTACTATGCCAGCCGGAACGACAAGTCTACTGGCTCTCTACCACTGCGCCGCTGCCCATGATGCCCGTGGC
CGAGGACGAGATCAAGCCCTACATCAGCCGCTGTTCTGTGTGTGAGGGCCCCGGCCATCGCCATCGCGGTCCACAG
TCAGGATGTCTCCATCCCACACTGCCCAGCTGGGTGGCGGAGTTTGTGGATCGGATATTCCTTCTCATGCACAC
GGCGGCGGGAGACGAAGGCGGTGGCCAATCACTGGTGTACCGGGCAGCTGTCTAGAGGACTTCGCGGCCACACC
ATTCATCGAATGCAATGGAGGCCGCGGCACCTGCCACTACTACGCCAACAAGTACAGCTTCTGGCTGACCACCAT
TCCCGAGCAGAGCTTCCAGGGCTCGCCCTCCGCCGACACGCTCAAGGCCGGCCTCATCCGCACACACATCAGCCG
CTGCCAGGTGTGCATGAAGAACCTGTGAGCCGGCGCGTGCCAGGAAGGGCCATTTTGGTGCTTATTCTTAACTTA
TTACCTCAGGTGCCAACCACAAAATTGGTTTTATTTTTTCTTAAAAAAAAAAAAAGTCTACCAAAGGAATTTGCA
TCCAGCAGCAGCACTTAGACCTGCCAGCCACTGTACCGAGCGGGTGCAAGCACTCGGGGTCCCTGGAGGGCAAG
CCCTGCCCACAGAAAGCCAGGAGCAGCCCTGGCCCCCATCAGCCCTGCTAGACGCACCGCCTGAAGGCACAGCTA
ACCACTTCGCACACACCCATGTAACCACTGCACTTTCCAATGCCACAGACA~~ACT~~CTACATTGTTCAACTCCCTTCT
CGGGGTGGGACAGACGAGACAACAGCACACAGGCAGCCAGCCGTGGCCAGAGGCTCGAGGGGCTCAGGGCCTCAG
GCACCCGTCCCCACACGAGGGCCCCGTGGGTGGGCCTGGCCCTGCTTTCTACGCCAATGTTATGCCAGCTCCATG
TTCTCCCAAATACCGTTGATGTGAATTATTTTAAAGGCAAAACCGTGCTCTTTATTTTAAAAA~~ACT~~GATAATC
AACTGCGGTAGGTCATTCTTTTGCCACATCCCTATAGACCACTGGGTTTGGCAAACTCAGGCAGAAGTGGAGA
CCTTTCTAGACATCATTGTCAGCCTTGCTACTTGAAGGTACCCCCATAGGGTCGGAGGTGCTGTCCCCACTGCC
CCACGTTGTCCCTGAGATTTAACCCTCCACTGCTGGGGTGAGCTGTACTCTTCTGACTGCCCCCTCCTGTGTA
ACGACTACAAAATAAACTTGGTTCTGAATATTTTT

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FIGURE 3938

AGTCGTAGGCGCTGGCCGCTGACATGTTGAGGACTACGCGCGGCCAGGCCTGGGCCCCCGCTGCTCCAGGCCG
CGCTGGGCCTTGGGCGGGCTGGGTGGCACTGGCCTGCGGGCCGGGCGGCGAGCGGGGGCGCGGGCGGGCCTGGC
TGCAGCCCACGGGCCGGGAGACGGGTGTGCAGGTGTACAACAGCCTCACCGGGAGGAAGGAACCCCTAATCGTGG
CGCACGCCGAAGCCGCCTCCTGGTATAGCTGTGGACCAACTGTATATGATCATGCGCACCTTGGCCATGCTTGCT
CATATGTTAGATTTGATATCATTCTGAAGGATCCTAACCAAGGTTTTTGGATGCAGCATAGTCATGGTGATGGGTA
TTACAGATGTAGATGATAAAATCATCAAAAGAGCCAATGAGATGAATATTTCCCCCGCTTCCCTCGCCAGTCTTT
ATGAGGAAGACTTCAAGCAGGACATGGCAGCCCTGAAGGTTCTCCACCCACGGTGTACCTGAGGGTAACCGAAA
ATATTCCTCAGATAATTTCTTTCATTGAAGGAATCATTGCTCGTGGGAACGCTTATTCAACGGCAAAAGGCAATG
TCTACTTCGATCTGAAGTCTAGAGGAGACAAGTATGGCAAATTGGTCGGCGTGGTCCCTGGTCCAGTCGGAGAGC
CAGCGGACTCTGACAAGCGTCTAGCCAGTGACTTCGCCCTGTGGAAGGCGGCCAAACCCAGGAGGTGTTCTGGG
CCTCTCCCTGGGGACCCGGGAGGCCGGGCTGGCACATCGAGTGCTCTGCCATCGCTAGTATGGTATTTGGAAGTC
AACTGGATATCCATTCAAGGTGGGATAGATTTAGCTTTTCCACATCATGAGAACGAAATTGCACAGTGCGAAGTCT
TTCATCAGTGCAGCAGTGGGGAAATTATTTTCTGCATTCTGGGCATTTGCACGCCAAAGGCAAAGAAGAAAAA
TGTCCAAATCATTAAAGAACTACATTACTATTAAGGACTTTCTGAAGACCTTTTCCCCGATGTCTTCCGGTTCT
TCTGCCTGCGGAGCAGCTACCGCTCAGCCATCGACTACAGTGACAGCGCCATGCTCCAAGCTCAGCAGCTGCTCC
TGGGGCTGGGCTCTTTCTGGAGGACGCACGTGCCTACATGAAGGGGCAGCTGGCCTGCGGCTCCGTCAGGGAAG
CGATGCTGTGGGAGAGGCTCTCCAGCACCAAGAGGGCCGTGAAGGCGGCCTTGGCAGATGATTTTGACACACCCA
GGGTGGTTGATGCCATCCTGGGCCTTGACACACCACGGGAATGGACAGCTCAGGGCGTCCCTGAAGGAACCTGAAG
GGCCGAGAAGTCCTGCTGTGTTTGGTGCCATCATCTCTTACTTTGAACAGTTTTTTGAAACTGTTGGAATTTCTC
TGGCAAATCAACAGTACGTTTCAGGAGACGGCAGCGAGGCTACCTTGATGGTGTGGTGGACGAGCTGGTGCGGT
TCCGGCAGAAGGTCCGGCAGTTTGCCTGGCCATGCCCAGGGCCACGGGGGACGCCCCGGCGGCAGCAGCTCCTAG
AAAGGCAGCCCCTGCTGGAAGCATGCGACACCCTGCGCCGGGGCCTGACTGCCACGGCATCAACATCAAGGACA
GAAGCAGTACAACATCCACGTGGGAAC TGCTGGATCAAAGGACAAAAGACCAAAAATCAGCGGGCTAGAGGATGGA
GCACAGCCATGAACCTGCTCACGACAAGACGCACCCATGCTTCTCAGGGTCAAGGCTTTATGTTAAAGCTTCCTG
TCGGGGCTGCTAGGTCAGCATTAAGTAAGGCAACCAACAGTG

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FIGURE 3939

MLRTTRGPGGLGPPILLQAALGLGRAGWHWPAGRAASGGRGRAWLQPTGRETGVQVYNSLTGRKEPLIVAHAEAASW
YSCGPTVYDHAHLGHACSYVRFDIIRRILTKVFGCSIVVMGITDVDDKIIKRANEMNISPASLASLYEEDFKQD
MAALKVLPPTVYLRVTENIPQIISFIEGIIARGNAYSTAKGNVYFDLKSREGDKYKLVGVVPGPVGEPADSDKRH
ASDFALWKAAPQEVFWASPWGPGRPGWHIECSAIASMVFGSQLDIHSGGIDLAFPHHENEIAQCEVFHQCEQWG
NYFLHSGHLHAKGKEEKMSKSLKNYITIKDFLKTFSQDVFRFFCLRSSYRSAIDYSDSAMLQAQQLLLGLGSFLE
DARAYMKGQLACGSVREAMLWERLSSTKRAVKAALADDFDTPRVVDAILGLAHHGNGQLRASLKEPEGPRSPAVF
GAIISYFEQFFETVGLISLANQQYVSGDGSEATLHGVDDELVRFRQKVRQFALAMPEATGDARRQQLLERQPLLEA
CDTLRRGLTAHGINIKDRSSTTSTWELLDQRTKDQKSAG

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FIGURE 3940

CGGGGGCTGGCGGCTGCGGCTCGGCGGAGAGTGCGGC**ATG**CGCTCGGAAAAGGAGGGGGCCGGAGGCCTTCGGGC
GGCCGTTGCCGCGCGGGGGCCGAGCGGGAGGGAGAAGCTGTGCGCCCTAGAAGTGCAGTTCCACCGCGACTCGCA
GCAGCAGGAGGCTGAGACGCCGCCAACTTCGTCTCTCCGGTTGCGGGGGCGGTGCGGGCAAACCTCGCGAGGAGAA
GAGGACGGCCCTGAGCAAGGTGGTTCATCCGCCGCTGCCTCCGGGGCTCACCAAGGAGCAGCTGGAGGAGCAGCT
GCGCCCGCTGCCAGCACACGACTACTTCGAGTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAG
AGCATACATTAATTTTAGGAATCCTGATGACATCCTTCTTTTTTAGAGATCGTTTTTGATGGATATATCTTCCTTGA
CAGCAAAGGCCTAGAAIATCCTGCAGTGGTAGAGTTTGCTCCATTCCAGAAGATAGCCAAAAAGAAGCTGAGAAA
AAAAGATGCCAAGACTGGAAGCATCGAAGATGATCCAGAATATAAGAAGTTTTTAGAAACCTACTGTGTGGAGGA
AGAGAAGACCAGTGCCAACCCCTGAGACTCTGCTGGGGGAGATGGAGGCGAAGACAAGAGAGCTCATTGCTAGAAG
AACCACACCTCTTTTGAATATATTTAAAAATAGAAAATTAGAAAAGCAGAGAATTCGAGAAGAGAAGCGAGAAGA
ACGGAGGAGGAGAGAGTTAGAAAAGAAACGTTTGCGGGAAGAGGAAAAAAGAAGAAGAAGAAGAAGAAAGATG
CAAAAAAAGAGACAGATAAACAGAAGAAAATTGCAGAGAAAGAAGTAAGGATTAAGCTTCTTAAGAAACCAGA
AAAGGGAGAGGAACCAACCACAGAGAAACCAAAAGAAAGAGGAGAGGAGATTGATACTGGAGGTGGCAAGCAGGA
ATCCTGTGCCCCCGGTGCAGTCGTAAAAGCCAGGCCCATGGAAGGCTCGCTGGAGGAGCCCCAGGAGACGTCACA
CAGCGGCAGTGATAAAGAGCACAGGGATGTGGAGAGATCTCAAGAACAAGAATCTGAAGCACAAAGATACCATGT
GGATGACGGCAGGAGGCACAGAGCTCACCACGAGCCTGAACGGCTTTCCAGAAGGAGTGAGGATGAGCAGAGATG
GGGGAAGGACCTGGCCAAGACAGAGGGAAGAAGGGGAGCCAGGACAGCGGGGCTCCGGGGGAGGCCATGGAGAG
ACTGGGAAGAGCGCAGAGGTGTGACGACAGTCCAGCACCCAGAAAAGAGCGACTGGCAAACAAGGACCGGCCAGC
CTTGACGCTGTATGATCCAGGAGCTCGCTTCCGAGCGCGAGAGTGTGGCGGAAACAGGAGGATCTGCAAGGCAGA
AGGTTTCGGGACTGGTCCTGAGAAGAGGGAAGAGGCAGAG**TGAG**STCACTGCACGCACCTGGCCTCCATGGACGAG
CAAGGGCATCCCAGAAACGTGTAAATGACCCCGAGTGTGACTGGGAAGGAGAACTTATTCCTTACCAGGAACTG
GAAGCTAAAAATACAGAGGGTGACGTAGAAACACGCAGAAACCATTCTAAAGAAAGTAGTGATCTTGTATTAAAT
TGAGCAGAATTCTCACAGATTTTACCATTCTGTATAAACTAGTATTTGTTGTTTAGCCAAAACAGAAAATGAT
TTCCACTGGACAGTAGAAAAATATGTGTAAAATAGGGAAGAAAGTTAGTATTGGATCAGTGTGAGTCTGAAGCA
CTTTCAGTGCTGTGAGAACGACATCCACTTTGGGTTTTCATTTCGTTTGTAAAGCAGAGGAGCTGTCAGTCACTCGTG
CTTCTCGGTGGCCTCTGAGCCATGGTGTGCGAGTGAAGAGTAGTTCTTGTTTGTACAACTTTGTGAGTCAGCCA
TGCCCGCAAAGCGTGCTGTGTTTTAGTCCTGGTAGGAATATTTATCAGAGTTCACACTATATAAAACCCAACAGC
TTCAACTATTGCCCTTTCAACAGTTTTGCCACTGACCGGATAGAAACGGTTTCAGTCTCTGGATGGATGTGTTTG
TGGTTTGTAAACCATTACGGTTTTAAACCATGGTTTTAAGAATTTGCCCAAATAACAGAAATTTTGTTTCGGGAAGGGA
TAACTAGATATAGCATACAGAGCCTGTTTTTGAGTTTTAGATACTTTATTTGTAAATAACTTAAATAGCTTTC
TGAAACCGTGCAATTCTGTAGTTTCTTCCTTTCAGTGAAATTGCTAAATGTCAATGTATTTTTGGCACTGCGATTT
TAACCATTTATTAAATAAAAAATTTGTAAAGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3941

MRSEKEGAGGLRAAVAARGPSGREKLSALEVQFHRDSQQQEAETPPTSSSGCGGGAGKPREEKRTALSKVVIRRL
PPGLTKEQLEEQLRPLPAHDYFEFFAADLSLYPHLYSRAYINFRNPDDILLFRDRFDGYIFLDSKGLEYPAVVEF
APFQKIAKKKLRKKDAKTGSIEDDPEYKKFLETYCVEEKTSANPETLLGEMEAKTRELIARRTTPLLEYIKNRK
LEKQRIREEKREERRRRELEKKRLREEEKRRRREEERCKKKETDKQKKIAEKEVRIKLLKKPEKGEEPTTEKPKE
RGEEIDTGGGKQESCAPGAVVKARPMEGSLEEPQETSHSGSDKEHRDVERSQQESEAQRYHVDDGRRHRAHHEP
ERLSRRSEDEQRWGKGPGQDRGKKGSQDSGAPGEAMERLGRAQRCDDSPAPRKERLANKDRPALQLYDPGARFRA
RECGGNRRICKAEGSGTGPEKREEAE

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FIGURE 3942

CGGGGGCTGGCGGCTGCGGCTCGGCGGAGAGTGCGGC**ATC**CGCTCGGAAAAGGAGGGGGCCGGAGGCCTTCGGGC
GGCCGTTGCCGCGCGGGGCCCCGAGCGGGAGGGAGAAGCTGTCGGCCCTAGAAGTGCAGTTCCACCGGACTCGCA
GCAGCAGGAGGCTGAGACGCCGCCAACTTCGTCCTCCGGTTGCGGGGGCGGTGCGGGCAAACCTCGCGAGGAGAA
GAGGACGGCCCTGAGCAAGGTGGTCATCCGCCGCCTGCCTCCGGGGCCTCACCAAGGAGCAGCTGGAGGAGCAGCT
GCGCCCCGTGCCAGCACACGACTACTTCGAGTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAG
AGCATACATTAATTTTAGGAATCCTGATGACATCCTTCTTTTAGAGATCGTTTTGATGGATATATCTTCCTTGA
CAGCAAAGATCCAGAATATAAGAAGTTTTTAGAAACCTACTGTGTGGAGGAAGAGAAGACCAGTGCCAACCTGA
GACTCTGCTGGGGGAGATGGAGGCGAAGACAAGAGAGCTCATTGCTAGAAGAACCACACCTCTTTTGGAATATAT
TAAAAATAGAAAATTAGAAAAGCAGAGAATTCGAGAAGAGAAGCGAGAAGAACGGAGGAGGAGAGAGTTAGAAAA
GAAACGTTTGCGGGAAGAGGAAAAAAGAAGAAGAAGAAGAAGAAAGATGCAAAAAAAGAGACAGATAAACA
GAAGAAAATTGCAGAGAAAGAAGTAAGGATTAAGCTTCTTAAGAAAACAGAAAAGGGAGAGGAACCAACCACAGA
GAAACCAAAAGAAAGAGGAGAGGAGATTGATACTGGAGGTGGCAAGCAGGAATCCTGTGCCCCCGGTGCAGTCGT
AAAAGCCAGGCCCATGGAAGGCTCGCTGGAGGAGCCCCAGGAGACGTCACACAGCGGCAGTGATAAAGAGCACAG
GGATGTGGAGAGATCTCAAGAACAAAGATCTGAAGCACAAAGATACCATGTGGATGACGGCAGGAGGCACAGAGC
TCACCACGAGCCTGAACGGCTTTCAGAAAGGAGTGAGGATGAGCAGAGATGGGGGAAAGGACCTGGCCAAGACAG
AGGGAAGAAGGGGAGCCAGGACAGCGGGGCTCCGGGGGAGGCCATGGAGAGACTGGGAAGAGCGCAGAGGTGTGA
CGACAGTCCAGCACCCAGAAAAGAGCGACTGGCAAACAAGGACCGCCAGCCTTGACAGCTGTATGATCCAGGAGC
TCGCTTCCGAGCGCGAGAGTGTGGCGGAAACAGGAGGATCTGCAAGGCAGAAGGTTGCGGGACTGGTCCTGAGAA
GAGGGAAGAGGCAGAG**TGAG**TCAGTGCACGCACCTGGCCTCCATGGACGAGCAAGGGCATCCAGAAACGTGTAA
ATGACCCCGAGTGTGACTGGGAAGGAGAACCTTATTCCTTACCAGGAAACTGGAAGCTAAAAATACAGAGGGTGAC
GTAGAAACACGCAGAAACCATTTCTAAAGAAAGTAGTGATCTTGTATTAAATTGAGCAGAATTCTCACAGATTTTA
CCATTCTGTATTATAAACTAGTATTTGTTGTTTAGCCAAAACAGAAAATGATTTCCACTGGACAGTAGAAAAATAT
GTGTAAATAGGGAAGAAAGTTAGTATTGGATCAGTGTGAGTCCTGAAGCACTTTCAGTGCTGTGAGAACGACAT
CCACTTTGGGTTTCATTTCGTTTGTAGCAGAGGAGCTGTGAGTCACTCGTGCTTCTCGGTGGCCTCTGAGCCATG
GTGTCGAGTGAAGAGTAGTTCTTGTTGTTTACAACCTTTGTGAGTCAGCCATGCCCGCAAAGCGTGCTGTGTTTT
AGTCCTGGTAGGAATATTTATCAGAGTTCACACTATATAAAACCAACAGCTTCAACTATTGCCCTTTCAACAGT
TTTGCCACTGACCGGATAGAAACGGTTTCAGTCTCTGGATGGATGTGTTTGTGGTTTGTAAACCATTACGGTTTAA
ACCATGGTTTAAAGATTTGCCCAAATAACAGAAATTTGTTGCGGAAGGGATAAACTAGATATAGCATACAGAGC
CTGTTTTTGAAGTTTTAGATACTTTATTTGTAAATAACTTAAATAGCTTTCTGAAACCGTGCAATCTGTAGTTTC
TTCCTTTCAGTGAAATTGCTAAATGTCAATGTATTTTTGGCACTGCGATTTTAACCATTATTAAATAAAATTT
TGTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3943

MRSEKEGAGGLRAAVAARGPSGREKLSALEVQFHRDSQQQEAETPPTSSSGCGGGAGKPREEKRTALSKVVIRRL
PPGLTKEQLEEQLRPLPAHDYFEFFAADLSLYPHLYSRAYINFRNPDDILLFRDRFDGYIFLDSKDPEYKKFLET
YCVVEEKT SANPETLLGEMEAKTRELIARRTTPLLEYIKNRKLEKQRIREEKREERRRRELEKKRLREEEKR
EEERCKKKETDKQKKIAEKEVRIKLLKKPEKGEEPTTEKPKERGEEDTGGGKQESCAPGAVVKARPMEGSLEEP
QETSHSGSDKEHRDVERSQQESEAQRYHVDDGRRHRAHHEPERLSRRSEDEQRWGKGPQDRGKKSQDSGAPG
EAMERLGRAQRCDDSPAPRKERLANKDRPALQLYDPGARFRARECGGNRRICKAEGSGTGPEKREEAE

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FIGURE 3944

CGGAAGTGCGGATCCCAGCGGCGGTCGTGTAGCTGAGCAGGCCTGGGGCTTGGTTCTATGTCCCTGTGGCTATGT
TTCCAGTGTCTCTTGGGTGTTTCCAAGAGCAACAAGAAACGAATAAATCTCTGCCCCGAGCGCCTCCACCCAG
AGACCCGGACCAAGTTCACACAGGACAATCTGTGCCACGCCCAGCGCGAGCGCCTGGACTCGGCCAACCTGTGGG
TGCTGGTGGACTGCATCCTTCGCGACACCTCCGAGGACCTGGGACTCCAGTGTGACGCCGTGAACCTGGCCTTCG
GGCGCCGCTGTGAGGAACTGGAGGACGCGCGGCACAAGCTGCAGCACCACCTGCACAAGATGCTGCGGGAAATCA
CAGATCAGGAACACAACCTTGGTGGCACTGAAGGAGGCCATCAAGGACAAGGAGGAACCTCTGCACATAGCCCAGA
CCCGGCTGTAGCTGCTCTCACACCGGCCAACATGCAGCTGTGCCGCGATGCAGCCAGTTCAGGTACTGCCTGG
GCCTCTGAGGCAGTCCCAGGTGCCCCATCCACCTCCTCGCTGCGACCCCTCTCCAATAAACACTCCAATCTCCAC
ACACACATCCCCACAGGTGCTGAGAGGGGAGGGAGACTCTGCGGCCACACACAACATGCAAGCACGCCTTAAAC
ACACAGATATAGACATGACACTGGGCAGGTCATGGGTGCGGGGGCCTCCCCGTGCCAGGGACCTGTGCCCACGTGG
TCTACCCCCACCCTGTGCTACCTCATCTTCCCGGGAGGAAGCTCCTTCAGACAAGGTGAGCTCCTGGAGGCCACG
GGGCCAGAGAGGCCAGAGAGGGCCATTCCCTGCTGCCCTGAGGGTGTCTGTCCACCTCTGGTGGAAAGTATGAC
CTACGCCTGGGCTACAGGCATAGATGGGCCGTCTTTTGTTCCTTGTTAACGGATGCCTGGTGGCCCCCTTCTG
AGCCTAAGTACCTTTCTTCCCTGCCCTCAGTTCCTTCAAGGAACCTGGGTGCCTCCTTCCGTCAAATATCA
GGAATGGAAAGAACTGAGCCTGGTCGGCTGAGGCCAGTCCTGTCTGTCAGGGTCGAGATTGCACGCGGGTCACT
CATTCCCACTCAGGCCCCGCGCTCCCTGGGAGGACCCTCGTAATTTATGCTCTGCCCTAGAGCCGCTTTCCTGGTA
GGAATCCTTTTCATGGCGTCTTCCCAGGACCTCCTGCCAGCTCCCATTGGGAGTTTTGGGTCCCCTCCACCCAGTA
GGTGCATACTTCTGCCCTCCCCAGCCCCAGCTCACACCCCCAACACCCCAAGCTGGTGAGTGAGGTGGAGGAG
CTGTACAAGTCCATCACAGCGCTGCGGGAGAAGCTTCTACAAGCGGAGCAGTCCCTGCGCAACCTCAAGGACATC
CACATGAGCCTGGAGAAGGACGTCACTGCCATGACCAACAGTCTCTTCATCGACCGCCAGAAGTGCATGGCCCAT
CGTACTTGCTACCCACCATTTCTGCAGCTGGCTGGCTACCAGTGAGCAGCGGCACGGTGCTTCCCCCAATCCCC
CAAATAACAGTGCGTTAGCTTTC

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FIGURE 3945

MFPVSSGCFQEQQETNKSLPRSASTPETRTKFTQDNLCHAQRERLDSANLWVLVDCILRDTSEDLGLQCDAVNLA
FGRRC EELEDARHKLQHHLHKMLREITDQEHNLVALKEAIKDKEEPLHIAQTRL

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FIGURE 3946A

CTGACCACACACACTCCTCACTCCCCTGGCCCTGATGGGCGGCAGACACCATGGTGCAGACGGATGTGCTCCTAC
CAGAGCCAGCACCCGAGACAGTGTACCCCTGCGAGCTGCCCTGCAAAGAGTATGACGTGGCCCGCAACATGGGCG
TCTACACGTCTCTCCAGCCTGGCCACCGCCAGCTGGAGGTGTGGTTCCAGAACTGCTATGCTCGCTACCACCAGGC
CTTCGCCGACTGCAACCAGTCGGAGCGGGAGCTGCAGGGGCGCGAGAGCCAGCAGCTGGCCGAGAGACCCAGGC
GCTGGCACAGCCGACACAGCAAGACTCCACGTGCAGGGTGGGCGAGCGACTGCAAGACACGCACAGCTGGAAGTC
AGAGCTGCAGCACGAGGTGGAGGTGCTGGCTGCAGAGACCGACCTGCTGCTGGCCCAGAAGCAACGGCTGGAGCG
TGCCCTGGATGCCATGGAGGTGCCCTTCTCCATCGCCACTGACAACATGCAGTGCAGCCAGCGCCACCAGCACGC
CAACCTTGTGCGTGA CTATGTGGAGACGGAGCTGCTGAAGGTGCCAGCAGCCTTGGGTGGCCAGGACTTGTGGGC
ACAGAGAGGAGGAGCCCCCGGCAGTTCAITGTGGACAAGCCACGTGGCTGCTGCAAGCACACGGGAGACCAGCCCT
CTGTGCGTGAGACACCTGAGTCCTGAAATCTGGCCCCCTTAGTGACAGGAGGCAGTTTTTGCCCCAGAAGGCCCTG
ACTTCCAAGCAGCTGTTTTCTCCTCTCCTCCAATACCTTTGAGTCCTGGCACAGTCATCCTGACCCTGGGCTCCCC
AGAGACCTCCCTGATTGGGACAGTTGCTCCCGAGGTGGAAACCCAGGTCTGGGCCAGCACTGCGGGTGTGGACA
GGTAGGGTGGGATAGGCTGGGAGCCACTGCTCCATTATCCTATACAGAGCCGGGGACACGAAGATCTGCACCC
ACAGGTCCCCTTCTCCTTGTACCTGTAACCTCCCAATCCAGCCCAGCTTGTCTATGGGGCAACCCCATAGGGTG
AGAGAGTAACTCAGTCCTGGCACTGATGCTGGCTCTGGAGAATTCCCTGAGCTCTCAGAGCCTGGGGCCTCCATG
AGAACCCTACAGGCCTGTAGACATTTGTGAAAGATGTGGGGTGGAGGCAGCTGGTCTCCTGCCATACCCCCAAA
TTCAGGCAAGAACCCTTGAATCCCTCCCCCCTTCATGCCTTCCCTCCTCCCTCCCTTCCCTTCTGCAGGCCTA
TCCCCCTGCACCTCTCAGTGCCTCAAGAACTGCTGCAGCTCCCGCAAACCTCTGCCTGCAACAAGGGTGCCTG
TGAAGTGATGGAGACACTGACAGTGCAGGAAGAGGCAAACCCAGGGACAGAGGGGTGCAGGACTCGGGCCCTGGC
ACACAAGGAGGTGTTGACAAAGGCCTTCAGCAGCTGGGCCTCCTGGGATCCTACCAAGGACCGGATCTGGTGCT
CAGGGCGTCTCCTCCCTCAGGAAGCTGAGCCCATCCGGAACATTAGGAGCTGCTGAAGAGAGCCATCGTGCAAG
CAGTGAGCCAGATCCAGTGGGTGAGGGCTGCCCAAGGGATGACTCCTGACCCACCCACGGCTGGTCTTGGGGC
AAGGCATTGAACGACAGAACCCTGAAGCTCAGAGCCAGCAGGGGCTGTCCAGGTCACAGTGGGAGCACAGGGCT
GGGTGGGGGAGGTCTTGGCCAGCCTGAGTTTGTAGTGGCCAAAGCCCAGGGCCACAAGTATCTGCAGCCTCCCA
GCATGGGCGGCAGCTCTTCGTCACTGCTGAGCACAAGGACAGCCGGCCCCAGAACTCCCTCCTGAAGCGGGCATGA
AGGCCTAGCCTGCAGCATGGAGGGTCCCCAGTGGGGCCCTCCCTGGCCACACACCAAGGCCCTGCCCCACCTCGC
CCCAGACTGAACCGAGAGCACACGGAGATCTGCGAGATGGACTGGTTGGACAAGGTGGAGGCCTACAACCTCGAC
GAGACTTGCGGGCGCCACCACAGCCAGAGCACCGAGGTGCAGGCTCATCCGGCACTCCACCACCTTCCAAGAGAG
GGGGGCCCCAGCTCTGCCCCCGTGCTTGCCCTGGCTGTGGTCTCGCCTCCCTCTGCCTGGGGGCCCCAGCGGCGC
TGCTTCCCCCAGCCTGGCCCCAGAGGCCCTCGCCCCGAGGGCACTTGGGCAACTGTCTGCCCTGGCATGAGAAA
GCGTGCAAGACCTCCTCAAGTGCCCAGCGCTGCACAGCCTGGTTGCCCGTAGACAGGACAGGGTGGGATGCGGT
CAGCCCCAGGCGCCGGCAGGATTGCATTTCCACCGAAGGCCAGCAGAGGGAGCACGACCACCGCCCACTTGAGCA
TGGCAAACCTCCTGGCCCCGAGCGCCTCCACCCAGAGACCCGGACCAAGTTCACACAGGACAATCTGTGCCACG
CCCAGCGCAGCGCCTGGACTCGGCCAACCTGTGGGTGCTGGTGGACTGCATCCTTCGCGACACCTCCGAGGACC
TGGGACTCCAGTGTGACGCCGTGAACCTGGCCTTCGGGCGCCGCTGTGAGGAACTGGAGGACGCGCGGCACAAGC
TGCAGCACACCTGCACAAGGTGGGGCACCTGAACCCGAAGACAGCTCCGGCGCCTGCCACCACTCTGCCCC
CTCTCATCACCTGGCCTGGGCCCTCAACACCTTTCTCCTCTGTCCCACTTATCCCAGGGACCCAGAAAGCAAGT
GTCACCTCTCCGTAAACCTATGTAAAACCAGGTGACACTGGGTATGATCGCAGTGTGTTGCAACCCCATGACTG
AGCAGGAGGAGCTGTGGGGAGGATGGAGGCAGGAGCTGGTCTGGGGAGCATTGACTGCCTGGGAGGTCCCCAAGA
GTCTTGGCTGGCAGGCAGGGCTCTGACTCTAGGGCCTCAGCATGGCCTTTACCACCTCTGAGTCCCCAGTCTCT
GAGCAGGATTTGGGTCTTGGTGACCACCAAGGATGGGGGTTCTTGGACCAGAGCTAAGAGACAACAGGCTGCCTG
ACTCTCCAGAGCCCGCTGGGGGCCCTGTGCACATTGTTCCCTCATCCACGCCTCCCCAGAGCCACTGGTCAGGA
CCACCCTCTGGACACAGCCCCAGGAGCTGGGTAGGACCAGACTGGTCTCCACATTCATATGCCCGGCATGGGG
GCACAGGCCCAAGGGGCACTGTCTGTCTGCAGATGCTGCGGGAATACAGATCAGGAACACAACGTGGTGGCA
CTGAAGGAGGCCATCAAGGACAAGGAGGAACCTCTGCACATAGCCAGACCCGGCTGTACCTGCTCTCACACCGG
CCCAACATGCAGCTGTGCCGGAAGCAGCCAGTTCAGGTACTGCCTGGGCCTCTGAGGCAGTCCCAGGTGCCCC
CGTCCACCTCCTCGCTGTGACCCCTCTCATAAACACTCCAATCTCCACACACACATCCCCACAGGTGCTGAGAG
GGGAGGGAGAGTTTGGCGCCACACACAACACGCAAGCACGCCTTAAACACACAGATATAGACATGACACTGGGCA

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FIGURE 3946B

GGTCATGGGTCGGGGGCCTTCCAGTGCCAGGGACCTGTGCCCACGTGGTCTCACCCCACCCTGTGCTACCTCATC
TTCCCGGGAGGAAGCTCCTTCAGACAAGGTGAGCTCCTGGAGGCCACGGGGACAGAGAGGCCAGAGAGGGCCATT
CCCTGCTGCCTTGAGGGTGCTGTCCCCACCTCTGGTGGAAGTATGACCTACGCCTGGGCTACAGGCATAGATGG
GCCGTCTTTTGTTCCTTGTTAACGGATGCCTGGTGGCCCCCTTCTGAGCCTAAGTACCTTTCTTCCCTTCCCTG
CCCCTCAGTTCCTTCAAGGAACTGGGTGCCTCCTTCCGTCAAATATCAGGAATGAAAAGAACTGAGCCTGGTCGG
CTGAGGCCAGTCCTGTCCTGTCAGGGTCGAGATTGCACGCGGGTCACTCATTCCCCTGAGGCCCCGCGCTCCCTG
GGAGGACCCTCGTAATTTATGCTCTGCCCTAGAGCCGCTTTCTGGTGGGATCCTTTCATGGCGTCTTCCCAGGA
CCTCCTGCCAGCTCCCATTTGGGAGTTTTGGGTCCCCTGCACCCCGGTAGGTGCATACTTCTGCCCTCCCCAGCCC
CAGCTCACACACCCAACACCCCCAAGCTGGTGAGTGAGGTGGAGGAGCTGAACATGTCCATCACAGCGCTGTGGG
AGAAGCTTCTAGAAGGGGAGCAGTCCCTTTGCAACCTCGAGGACATCCACATGAGCCTGGAGAAGGATGTTACCG
CCATGACCAACAGTCTCTTCATCGACCGCCAGAAGTGCATGGCCCCATCGTACTTGCTACACCCCCATCCTGCAGC
TGGCTGGCTACCAGTGAGCAGCGGCACGGTGCTTCCCCCAATCCCCCAAATAAACAGTGCATTAGCTTTC

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FIGURE 3947

MFPVSSGCFQEQQETNKS LPRSASTPETRTKFTQDNLCHAQRERLDSANLWVLVDCILRDTSEDLGLQCDVNL A
FGRRC EELEDVRHKLQHHLHKVGHP EPRRRLRRLPTTL PFLITWPGPSTPFSSVPLIPRDPRSKCHLSVNLCKTR

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FIGURE 3948

ATGCTTCCGGCTCCCGCTCTGGAGACACGGGCCGGCCCCCTGCGTGTGGCACGGGCGGCCGGGAGGGCGTCCCCG
GCCCCGGCGCTGCTCCCGCGTGTGTCTTGGGGTTGACCAGAGGGCCCCGGGCGCTCCGTGTGTGGCTGCGATGGTG
GCGTTTTTGGGGACAGGCGTCCCTCGGCGCCTCTGCGGGCCCGAGGAGGAGCGGCTGGCGGGTGGGGGGAGTGTG
ACCCACCCCTCGTTACGCGACCCCCGAGCGGTCGGCGTCCCCCACTTCTTAGAGGGACAAGTGGCGTTCAGCCAC
CCGAGATTGAGCAATAACAGGTCTGTGATGCCCTTAGATGTCCGGGGCTGCACGCGCGCTACACTGACTGGCTCA
GCGTGTGCCTACCCTACGCCGGCAGGCGCGGGTAACCCGTTGAACCCCATTCGTGATGGGGATCGGGGATTGCAA
TTATTCCCCATGAACGAGGAATTCCCACTGGCCTTTGCCGGGCGACCCCAGGGGAACCGCGTTGATGCTGCCTTC
GGATCCTCCGGCGAAGACTTCCACCGGATGCCCCGAAACTCATACCCAAGGGGCAGCTCGTCACCAGGGATGTG
GAAGTACTCTACATCATCTCACACGGCTTTACCACTTTCACCTCCGTCATCGACAGAATTTCACAACTCTACGTT
TCCCTTTCATAA

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FIGURE 3949

CGGGAGAAAGCCCCGCCCCCGGGCGCCGCTCCCACTCCTGATTGGCCGGGCCAGCCCGGGGAGGCCCGGGCGGGAC
CCCCGCCCCGCTCTCAGCTATAAAGATAGCCCCGGCATGACAGCCGCGGCGAAGCTCTTCTAGTTTCATCTGCTGG
CCGGCTCTCAGTCCCCGTGGCGCCCCCTTTCTCTTGTCCCAGAGCGCTCTCGACTCCACCATGCCAAGGGGATT
CCTGGTGAAGCGAACTAAACGGACAGGCGGCTTGTACCGAGTTCGCCCTTGGGAGCGTGTCTTCCCTCTGCTGGG
GCCCCAGGGGGCGCCGCCCTTCTTGGAGGAGGCTCCCAGCGCCTCCTTGCCCGGCGCGGAGCGGGCGACACCCCC
CACCCGAGAGGAACCAGGAAAGGGGTGACGGCGGAGGCGGCCCGGGAACAGTCGGGGTGCCTATGTCGGGCGGC
TGGGGTGAGCCCCGGGGACGGGCGGGCGGGAAGGCGCGGAGTGGCGGGCGGGTGGCAGGGAAGGTCCCGGGCCAG
CCCCAGCCCCAGCCCCAGTCCAGCGAAGCCGGCAGGCGCAGAGCTGCGTCGGGCGTTTCTGGAGCGCTGCCTCAG
CTCGCCCGTCTCCGCCGAGTCTTTCCCCGGGGGCGCCGCCCGCTGGCCGCTTTCTCTGCTCCGTGGCGCCAGC
AGCCGCACCGACCCCGGGGGAGCAGTTTCTGCTGCCGCTTTCGGGCGCCGTTCCAGAGCCCGCGCTTCAGCCGGA
CCCTGCGCCCCCTCTCGGCCGCCCTTCAGAGTCTGAAGCGGGCGGCCGGCGGCGAGCGCCGCGGCAAGGCACCCAC
GGA CTGCGCGTCTGGACCCGCGGCCGCGGGAATCAAGAAGCCAAAGGCCATGAGGAAGTTGAGCTTTGCCGATGA
GGTGACCACATCCCCTGTCTGGGCTGAAGATCAAGGAGGAGGAGCCCGAGCGCCGTCCCGGGGCTTGGGGGG
CAGCCGCACGCCACTGGGGGAGTTCATCTGCCAGCTGTGCAAGGAGCAGTACGCAGACCCCTTCGCGCTGGCCCA
GCACCGCTGCTCCCGCATCGTGCGCTAGAGTACCGCTGCCCTGAGTGCACAAAGGTGTTAGCTGTCTCTGCGAA
CCTGGCCTCCCATCGCCGCTGGCATAAGCCGCGTCTGCGGCTGCAAACGCCGCCACAGTCTCTCCGCCGACGG
GAAGCCGCCTTCTTCGTCTCTTCTGCTCTCCCGGACTCCGGGGCCATTGCATCTTTTCTGGCGGAGGGAAAGGA
GAACAGCCGAATAGAGCGGACTGCGGATCAGCACCCGCAGGCCAGGGACAGCTCCGGGGCGGATCAGCACCCGGA
CAGCGCCCCGAGGCAGGGCCTCCAGGTGCTGACGCATCCAGAGCCACCGCTGCCTCAGGGCCCTACACGGAGGG
GGTGTGGGGCGCCGGGTACCTGTGCCGGGAGTACCAGTGGTGGCAGGGGATCCGAGATTTTCTGTGTGCCATA
TTGCCACAAAAAGTTTCTGTGCCAAGCCTATCTGCGCAAGCACCTGAGCACTCACGAGGCGGGCTCGGCCCGTGC
GCTAGCGCCGGGCTTTGGCTCCGAACGCGGTGCCCACTTGCCCTTCGCTTGCCCATGTGCGGAGCGCACTTCCC
TACAGCAGATATCAGGGAGAAGCACCGGCTGTGGCATGCTGTCCGCGAGGAGTGTCTCTGCCGCTCTGGCGGG
GGCTCTCCCGAAACGTCGGGCCCTAGCGGGCCATCTGACGGGAGTGCCAGCAAATTTTCTCGTGCAAGCACTG
CCCGTCCACTTTTTTTAGCTCTCCAGGGCTGACCCGGCACATCAATAAGTGCCACCCCTCAGAAAGCCGGCAAGT
GCTGCTGCTGCAGATGCCACTGCGGCCTGGCTGCTGAGGGACGAGAGACCAGGATGATTTCGAGGTTGGCCTTAG
AGGAAACAGATCATGGGAATTTCTGTGGGGCTTTCTTCAACTTGCAAGTTTACTTTTCATTCTCTATGTTTTA
ATCCCTTAAAATTCTCCCTGTAGTCAATGTTCCACCAGAGGAGCGGACAGTGAAATGTAATATCCCTCTCTAGAG
CAGGTATGTATATGGTATAAACCTTGAGATCAAAGACTGTCAGCTTTAAATCCTTCTCACTTTCCCACTAAAAAT
AGGATTTTTCCCTTAAAACCTCTGGAGACCCTAACGAATCCTATATGATTTGTAATTCCTATGGAAAGTCGCGGT
GAATGCGTGATGTCTCAATGTCCACAAAGGATTCTGGCTACCCTTTGGTAGCCAATGTTTTTTTTGTCTTGTC
TCACAGGCGCCTATACAGCTTCTGTCTCAATAGGGTCAGATATTTTGCACTGTATATTCTGTGAATTAAGTTA
TGTGATTGGTGTCAAACCTTAAGGAGATTCAAGACCTGGCAGAAAATGTAAGAGGATTTTGTGCTTTTGGGGTG
CATGGGGATCTCCCTGTAAACCTTCTTTGCCCAATTATATGTACATGTCCATTCTTAAGTTGGTGTGGAGG
TGGGGAGGATGCTACTTTACTGGAGTTGAGACACCCCTAAAATTCTCACCCCTCAGCTATTTTGTGGGCAGTATT
CAGGAAGAGCTACTTCAAACCTTCTTTAAATGGCTTTTTTGAAATACAGAAGTCGTTTCTCAAGTTTGACTGT
TTTAATGGGGTTTCACCCAAATTGTTAATGCTTCTGCTGTAAATGTCATACTGTGTATTTCATTATGAAAATATG
TACAGCTTAAGGAAGATGTTAACACCTGTAATCCACTAAGGAAGTGAATGGCAATTGCTCAATATTCAGTATTT
TCTTTTCAGCGGCAACTTGTTTTGATTTTTTAAAAAACCATTTTCAGTGTACATTGTGTACTAATTCCTACTA
GCCAGTTTGGGACATTGGCTGAGCACTGCCTGACAGAAAGCCCGTATTTGTAAGATGCTTACCACCAAATAAATG
TACATAGACTGTG

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FIGURE 3950

TGCCGCCGTCCCGCCCGCCAGCGCCCCAGCGAGGAAGCAGCGCGCAGCCCGCGGGCCAGCGCACCCGCAGCAGCG
CCCGCAGCTCGTCCGCGCCATGTTCCAGGCGGCGGAGCGCCCCCAGGAGTGGGCCATGGAGGGCCCCCGCGACGG
GCTGAAGAAGGAGCGGGTACTGGACGACCGCCACGACAGCGGCCTGGACTCCATGAAAGACGAGGAGTACGAGCA
GATGGTCAAGGAGCTGCAGGAGATCCGCCTCGAGCCGCAGGAGGTGCCGCGCGGCTCGGAGCCCTGGAAGCAGCA
GCTCACCGAGGACGGGGACTCGTTCCTGCACTTGGCCATCATCCATGAAGAAAAGGCACTGACCATGGAAGTGAT
CCGCCAGGTGAAGGGAGACCTGGCCTTCCTCAACTTCCAGAAACAACCTGCAGCAGACTCCACTCCACTTGGCTGT
GATACCAACCAGCCAGAAATTGCTGAGGCACTTCTGGGAGCTGGCTGTGATCCTGAGCTCCGAGACTTTCGAGG
AAATACCCCCCTACACCTTGCCGTGTGAGCAGGGCTGCCTGGCCAGCGTGGGAGTCCTGACTCAGTCCTGCACCAC
CCCGCACCTCCACTCCATCCTGAAGGCTACCAACTACAATGGCCACACGTGTCTACACTTAGCCTCTATCCATGG
CTACCTGGGCATCGTGGAGCTTTTGGTGTCTTGGGTGCTGATGTCAATGCTCAGGAGCCCTGTAATGGCCGGAC
TGCCCTTCACCTCGCAGTGGACCTGCAAAATCCTGACCTGGTGTCACTCCTGTTGAAGTGTGGGGCTGATGTCAA
CAGAGTTACCTACCAGGGCTATTCTCCCTACCAGCTCACCTGGGGCCGCCAAGCACCCGGATACAGCAGCAGCT
GGGCCAGCTGACACTAGAAAACCTTCAGATGCTGCCAGAGAGTGAGGATGAGGAGAGCTATGACACAGAGTCAGA
GTTACCGGAGTTCACAGAGGACGAGCTGCCCTATGATGACTGTGTGTTTGGAGGCCAGCGTCTGACGTTATGAGC
GCAAAGGGGCTGAAAGAACATGGACTTGTATATTTGTACAAAAAAAAGTTTTATTTTTCTAAAAAAGAAAAAA
GAAGAAAAAATTTAAAGGTGTACTTATATCCACACTGCACACTGCCTGGCCAAAACGTCTTATTGTGGTAGGA
TCAGCCCTCATTTTGTGCTTTTGTGAACTTTTGTAGGGGACGAGAAAGATCATTGAAATTCTGAGAAAACCTC
TTTTAAACCTCACCTTTGTGGGGTTTTTGGAGAAGGTTATCAAAAATTCATGGAAGGACCACATTTTATATTTA
TTGTGCTTCGAGTGAAGTACCTGTCAAGGTTTGTGTTACCTCCTGTAAATGGTGTACATAATGTATTGTTGGTAAT
TATTTTGGTACTTTTATGATGTATATTTATTAAACAGATTTTACAAATG

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FIGURE 3951

GAGTTCGGCATGCAAGAGCGGAAGAAACGCGGCTGGTACCCCGGAAGCAGTCGCTGCAACTTCCGGGAGGTGCTT
GTGTGCCTGGTGCGGGAGCTACGGGGCCCAGGGATTGTGTTTAAAGTAGTGCTTCTACCAACATGTCCCGTGGTT
CCAGCGCCGGTTTTGACCGCCACATTACCATTTTTTACCCGAGGGTCGGCTCTACCAAGTAGAATATGCTTTTA
AGGCTATTAACCAGGGTGGCCTTACATCAGTAGCTGTCAGAGGGAAAGACTGTGCAGTAATTGTCACACAGAAGA
AAGTACCTGACAAATTATTGGATTCCAGCACAGTGA CTCACTTATTCAAGATAACTGAAAACATTGGTTGTGTGA
TGACCGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAATACAAGT
ATGGCTATGAGATTCTGTGGACATGCTGTGTAAAAGAATTGCCGATATTTCTCAGGTCTACACACAGAATGCTG
AAATGAGGCCTCTTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCTCAGGTATATAAGTGTG
ATCCTGCAGGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAAACTGAGTCAACCAGCTTCCTTG
AAAAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGAAACTGCAATTACATGCCTGTCTACTG
TTCTATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTAGTGACAGTTGAAAATCCTAAATTCAGGATTC
TTACAGAAGCAGAGATTGATGCTCACCTTGTTGCTCTAGCAGAGAGAGACTAAACATTGTCGTTAGTTTACCAGA
TCCGTGATGCCACTTACCTGTGTGTTTGGTAACAACAAACCAACATCATGGAGGTCCTGGATTGAAAAGGAGC
CTCTCCCACTCCTCCTACCACCGAAGTGGTTAGGACTCTATATAAATAAAAACAAGGCTTTTGG

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FIGURE 3952

MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKLLDSSTVTHLFKITEN
IGCVMTGMTADSRSQVRARYEAANWKYKYGYEIPVDMLCKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPQ
VYKCDPAGYYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENP
KFRILTEAEIDAHLLVALAERD

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FIGURE 3953

CTCTCGGCTTTCGGCTTGGAGGAGGCCAAGGTGCAACTTCTTTGGTCATTCCGCACCAGCCGCCTCCACCATGC
CGCCAAAGTTCGACCCCAACGAAATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGAAGTCGGTGCCACTTCTG
CCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACATTGCCAAGGCAACGGGTG
ACTGGAAGGGCCTGAGGATTACAGTGAACTGACCATTGAGAACAGACAGGCCCAGATTGAAGTGGTGCCCTTCTG
CCTCTGCCCTAATCATCAAAGCTCTTAAGGAACCAAGACACAGAAAGAAATAGAAAAACATTAAACACCGTG
GGAATATCACTTTTGATGAGATCGTCAACATTGCTTGACAGATGCGGCACTGATCCTTAGCCAGAGAACTCTCTG
GAACCATTAAAGAGATCCTGGGGACTGCCAGTCTGTGGGCTGTAAACGTTGATGGCCGCCACCCTCATGACATCA
TAGATCACATCAACATTGGTGCTGTGGAATGCCAGCCAGTTAAGCACAAAGGAAAATATTTTCAGTAAAGAATCA
TTTGACAACTGGTGA

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FIGURE 3954

MPPKFDPN EIKVVYL RCTGGEVGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVP
SASALI I KALKEPPRRHRKKRKT LNTVGISLLMRSSTLLDRCGTD SLARELSGTIKEILGTAQSVGCNVDGRHPHD
IIDHINIGAVECPAS

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FIGURE 3955

GAAGAGGCGAGAACGACCCCCGGACTGACCAAAGCCCGCGCGCAGCTGCATCCCGCATCCAGCACCTACATCCCG
CCACCGTCGTGGCCGTCACCA**ATG**CCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCGCAGAGAAGATCCGCGAGGTTGTCTGCCAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAGAAAGT
CCCCTGTAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAAGCTGATGCCCAGGAGGAGGGATTCCCTG
ACTCTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTCGTTTTTATGTCCTCTTC
TCCTTTTCCATCTTTCAGCA**TAG**ACTTAACTCCCTTGAGCCGAGACATCTGTTGGGACCTGACCCCAAGTCATTG
ATTACCAAGTGTGTCAGGCAATCTGGACTTTCAGTGATGCCACTGAGATGGCACCTGTCAAAGAGCAGTGGTTC
CATTCTAGATTGTGGATCTTCAGATAAATTCTGCCATTTTCACTTCCCTGAAAGTCAGGGTCGGCTTGTG
AAAAGTTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACTTTCCCTGTTTCAGAGCATCAGAT
GAAGACTTCATTGGGTTTTATAGTGGCTTTCGTATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTG
TATACTGTTAACAATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 3956

MPKRKAEGDAKGDKAKVKDEPQRRSARLSAKPAPPKPEPKPRKSPVKKGEKVPKGKKGKADAE EEGFPDSDTHGH
LGTKALWYRK TNSFLCP LLLFHL SA

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FIGURE 3957

ACTTTACGCAGGCGCGTTAGGTCCTAGTCGCTATGCGTGTGCTTGTGGGTGGCGGGACAGGCTTCATTGGGACAG
CCCTAACCCAGCTGCTGAATGCCAGAGGCCACGAAGTGACGTTGGTCTCCCGAAAGCCCGGGCCGGCCGGATCA
CGTGGGATGAGCTCGCTGCATCGGGGCTGCCGAGCTGCGATGCCGCCGTCAACCTGGCCGGAGAGAACATCCTCA
ACCCTCTCCGAAGATGGAATGAAACCTTCCAAAAAGAGGTAATCGGCAGCCGCCTAGAGACCACCCAATTGCTGG
CTAAAGCCATCACCAAAGCCCCACAACCCCCAAGGCCTGGGTCTTAGTCCACAGGTGTAGCTTACTACCAGCCCA
GTCTGACTGCGGAGTATGATGAAGACAGCCCAGGAGGGGACTTTGACTTTTTCTCCAACCTCGTAACCAAATGGG
AAGCTGCAGCCAGGCTTCCTGGAGATTCTACACGCCAGGTGGTGGTGCGCTCAGGGGTTGTGCTGGGCCGTGGGG
GTGGTGCCATGGGCCACATGCTGCTGCCCTTTCGCCTGGGCCTGGGGGGCCCCATCGGCTCAGGCCACCAATTCT
TCCCCTGGATACACATCGGGGACCTGGCAGGAATCCTGACCCATGCCCTTGAAGCAAACCACGTGCACGGGGTCC
TGAATGGAGTGGCTCCATCCTCCGCCACTAATGCTGAGTTTGCCCGAGACCTTGGGTGCTGCCCTGGGCCGCCGAG
CCTTCATCCCTCTCCCCAGCGCTGTGGTGCAAGCTGTCTTTGGGCGACAGCGTGCCATCATGCTGCTGGAGGGCC
AGAAGGTGATCCACAGCGAACACTGGCCACTGGCTACCAGTATTCCCTCCCAGAGCTAGGGGCTGCCTTAAAGG
AAATTGTAGCCTAAGTAGGTCGTGGCAAGGGCCTGAGGCCTGTTCCCTCACAGGCTTCCAGGTTAGGCACTGTGAA
TAGGCTCAGCTCCTCTAGAGAGCTGAAGCCATCTGGTTCTTAGATTCCCTCTCCAGTCCTCTTTCCATTGTTCT
GTTGCTCCACCTTATTGTCTCAAGGCCGTAATCTCATCAGGTTGGGACATTAATCTTTTCAACTCCTTGTAAGAT
TTCCAGTTTGGTTTCTCTACATGTCCTGCAGCTGCCCCACTTCTCCTTTACGCTGTGTAGAGAATGCTCTGCAG
TTTAGGCAATAAAAATAAATTGTCTCACT

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FIGURE 3958

ATGTCGTGCGTCAAGTTATGGCCCAGCGGTGCCCCGCCCCCTTGGTGTCCATCGAGGAACTGGAGAACCAGGAG
CTCGTCGGCAAAGGCGGGTTTCGGCACAGTGTTCCGGGCGCAACATAGGAAGTGGGGCTACGATGTGGCGGTCAAG
ATCGTAAACTCGAAGGCGATATCCAGGGAGGTCAAGGCCATGGCAAGTCTGGATAACGAATTCGTGCTGCGCCTA
GAAGGGGTTATCGAGAAGGTGAACTGGGACCAAGATCCCAAGCCGGCTCTGGTGACTAAATTCATGGAGAACGGC
TCCTTGTCGGGGCTGCTGCAGTCCCAGTGCCCTCGGGCCTGGCCGCTCCTTTGCCGCCTGCTGAAAGAAGTGGTG
CTTGGGATGTTTTACCTGCACGACCAGAACCCGGTGCTCCTGCACCGGGACCTCAAGCCATCCAACGTCTTGCTG
GACCCAGAGCTGCACGTCAAGCTGGCAGATTTTGGCCTGTCCACATTTTCAGGGAGGCTCACAGTCAGGGACAGGG
TCCGGGGAGCCAGGGGGCACCCTGGGCTACTTGGCCCCAGAAGTGTGTTTAAACGTAAACCGGAAGGCCTCCACA
GCCAGTGACGTCTACAGCTTCGGGATCCTAATGTGGGCAGTGCTTGCTGGAAGAGAAGTTGAGTTGCCAACCGAA
CCATCACTCGTGTAACGAAGCAGTGTCGAACAGGCAGAACCCGGCCTTCATTGGCTGAGCTGCCCCAAGCCGGGCCT
GAGACTCCCGGCTTAGAAGGACTGAAGGAGCTAATGCAGCTCTGCTGGAGCAGTGAGCCCAAGGACAGACCCCTC
TTCCAGGAATGCCTACCAAAAAGTGAAGTCTTCCAGATGGTGGAGAACAATATGAATGCTGCTGTCTCCACG
GTAAAGGATTTTCTGTCTCAGCTCAGGAGCAGCAATAGGAGATTTTCTATCCAGAGTCAGGCCAAGGAGGGACA
GAAATGGATGGCTTTAGGAGAACCATAGAAAACAGCACTCTCGTAATGATGTCATGGTTTCTGAGTGGCTAAAC
AACTGAATCTAGAGGAGCCTCCAGCTCTGTTCTAAAAAATGCCCCGAGCCTTACCAAGAGGAGCAGGGCACAA
GAGGAGCAGGTTCCACAAGCCTGGACAGCAGGCACATCTTCAGATTGATGGCCCAACCTCCCAGACTCCAGAG
ACCTCAACTTTTCAAAAACAGATGCCAGCCCTACCTCAACTGGAACACCAAGTCCTGGACCCCGAGGGAATCAG
GGGGCTGAGAGACAAGGCATGAACTGGTCCTGCAGGACCCCGGAGCCAAATCCAGTAACAGGGCGACCGCTCGTT
AACATATACAAGTCTGCTGTTGGGTGCAAGTTGGAGACAACAATACTTGAATATGCAACAGACAAGTGCCTTGCCC
ACATGGGGCTTGGCACCTTCGGGCAAGGGGAGGGGCTTGAGCAGCCCCCACCAGTAGGTTTCGCAAGAAGGCCCT
AAAGATCCTGAAGCCTGGAGCAGGCCACAGGGTTGGTATAATCATAGCGGGAAATAA

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FIGURE 3959

GGGGCAAGGGAAGCTAGTAGCGGAGCCGGAAGTGAGGCACCCTCGGGCTCGAGACAGCGGCGACGTTTAAAGCTG
AGCGACCCAGTGCCACTGGAGACGGTCAGCTTCTCCACTCAGGCTCCTCCAGCCCGAGCCAGAAGACCCCTCCC
CCAGAATTCTGGGGGCCGATGGAAGGGAGCCGAGTCAGATCGCGAGGTACCCAGAGCCGACAGACCGGAGCGACA
GGGAGTTGCCAGAAGCCCCGCCCCCTAGGAGTGATCGGAAAGCCTCACCCATCCGGGTGAGGAACCCGGAGGGACC
GCCTCCGGGCGGAGCCCGCCGACCATGGCTACGCCCCCTGGTGGCGGGTCCCGCAGCTCTACGCTTCGCCGCCGCG
GCTAGCTGGCAGGTTGTGCGCGGACGCTGCGTGGAACATTTTCCGCGAGTACTGGAGTTTCTGCGATCTCTGCGC
GCTGTTGCCCTGGCTTGGTTTCGCTACCGGCACCACGAACGCCTTTGTATGGGCCTAAAGGCCAAGGTGGTGGTG
GAGCTGATCCTGCAGGGCCGGCCTTGGGCCCAAGTCCTGAAAGCCCTGAATCACCACTTTCCAGAATCTGGACCT
ATAGTGCGGGATCCCAAGGCTACAAAAGCAGGATCTGAGGAAGATTTTGGAGGCACAGGAAACTTTTTACCAGCAG
GTGAAGCAGCTGTCAGAGGCTCCTGTGGATTTGGCCTCGAAGCTGCAGGAACCTTGAACAAGAGTATGGGGAACCC
TTTCTGGCTGCCATGGAAGAGCTGCTTTTTGAGTACTTGTGTCAGCTGGAGAAAAGCACTGCCTACACCGCAGGCA
CAGCAGCTTCAGGATGTGCTGAGTTGGATGCAGCCTGGAGTCTCTATCACCTCTTCTCTTGCCTGGAGACAATAT
GGTGTGGACATGGGGTGGCTGCTTCCAGAGTGCTCTGTTACTGACTCAGTGAACCTGGCTGAGCCCATGGAACAG
AATCCTCCTCAGCAACAAAGACTAGCACTCCACAATCCCCTGCCAAAAGCCAAGCCTGGCACACATCTTCCTCAG
GGACCATCTTCAAGGACGCACCCAGAACCTCTAGCTGGCCGACACTTCAATCTGGCCCCCTTAGGCCGACGAAGA
GTTCACTCCCAATGGGCCTCCACTAGGGGAGGCCATAAGGAGCGCCCCACAGTCATGCTGTTTCCCTTTAGGAAT
CTCGGCTCACCAACCCAGGTCATATCTAAGCCTGAGAGCAAGGAAGAACATGCGATATACACAGCAGACCTAGCC
ATGGGCACAAGAGCAGCCTCCACTGGGAAGTCTAAGAGTCCATGCCAGACCCTGGGGGAAGGGCTCTGAAGGAG
AACCCAGTTGACTTGCCTGCCACAGAGCAAAAAGGAGAATTGCTTGGATTGCTACATGGACCCCTGAGACTATCA
TTATTACCTCCTAGGGCCAGGAAGCCAGTGTGTCCTCCGTCTCTGTGCAGCTCCGTCATTACCATAGGGGACTTG
GTTTTAGACTCTGATGAGGAAGAAAATGGCCAGGGGAAGGAAAGGAATCTCTGGAAAACCTATCAGAAGACAAAG
TTTGACACCTTGATACCCACTCTCTGTGAATACCTACCCCTTCTGGCCACGGTGCCATACCTGTTTCTTCTGT
GACTGTAGAGACAGTTCTAGACCTTTGTGATAGAACTAAAATGCTCTCTGTACTCTAGTCTCCTGCCTCCTCAGC
TCTGCAAGTAGTTTAGTAGGAATGAAGTGGAAGTCCAGGCTTGGATTGCCTAACTACACTGCTAAAAATATTTGT
AATCCTTAATAATTAACTTTGGATTTGTT

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FIGURE 3960

CCATGGAGTCAGCCGGGCTAGAGCAGCTCCTACGGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCTGGGCCA
CGGAACAGCTCCAGATCGTTCCTCGGGCCCCCGCCGCTTTGCCGGCTCTCTGCGACCTGCTAGCCTCGGCGGGCCG
ACCCCCAGATCCGCCAGTTTTCGGGCCGTGCTGACCCGCAGACGACTGAACACCCGCTGGCGACGGCTGGCGGGCGG
AGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGCACTGTGTGAGCCTCAGCC
TGGCCCAGCTCTCAGCCACCATTTCGAAAGGAAGGCTTGGAGGCCTGGCCACAGCTTTTGCAGCTGCTTCAGC
ACAGTACCCACAGCCCCCACAGCCCAGAGAGAGAGATGGGGCTTTTGCTGCTAAGTGTGGTGGTGACCTCCCGGC
CCGAGGCCTTCCAACCCCCACCACCGGGAGCTTCTTCGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTG
GGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTC
GGATGTTGGTGCCCAAGCTGATCATGGCCATGCAGACTCTGATCCCCATAGATGAGGCAAAGGCCTGTGAGGCCC
TTGAGGCCTTTGGATGAACTGTTGGAGTCAGAGGTGCCGGTCATCACCCCTACCTCTCTGAAGTCTTCACATTCT
GCCTGGAGGTAGCTAGAAATGTGGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGG
TCAAAGTCAAGAGCAAGGCCCTTACTGAAGAATCGTCTCCTGCCACCCCTTGCTGCACACCCCTTTTCCCCATTGTGG
CTGCTGAGCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTGAGAAGAGGAAGAGTTGGAGATTGAGCTGA
TGGGGGAGACTCCCAAGCATTTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCGAGAAGCTCT
GTCCCCAGCTGATGCCCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCCATACCAGCGCAAAGCTGGACTCCTGG
TGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCCACTGCTGCAGATTGTGT
GCAAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTTGCCCTGGGCCAGTTCTCAGAAAACC
TACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCCTACTTGAAGTCGGTGCCTCTTG
GACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTTGTGGAGAACCTAGGGCCCAAGGTGCAGC
CCTACCTTCCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCCGGGCCAAGGAGCTGG
CTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCAGGTCTCGCTGCTGCCCTACTTCCCTGCCATCATGGAGC
ACCTGCGGGAATTCTGTAAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGG
TGCTGGCACGAGCAGTGGGGGAGCCCATGAGGCCGTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCCTCTGCG
ACCAGGTAGACGACGCTGACTTGCGGCGCTGCACGTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGG
GCCTGGCGCCCCACTTGGAACAGATCACACGCTCATGCTGCTGTCACTGCGTTCCACCGAGGGCATTGTGCCTC
AGTATGACGGGAGCAGCTCCTTCCTTCTGTTTGACGATGAGAGTGATGGGGAAGAAGAGGAGGAGCTCATGGATG
AGGATGTGGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGAGGAATGCCTTCTTCGATGAGAAGGAAG
ACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCAGTGTGGCCTTCCTTCCATACATGAAAGTGTCTTTG
AAGAAGTATTTAAACTGCTGGAGTGCCCTCACCTGAATGTGCGGAAGGCAGCCCCATGAGGCTCTGGGTGAGTTTT
GCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCCCTCGGAACCCAAACACTGCTGCTTTGCAGGCTGCCCTGGCCC
GAGTCGTGCCATCCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCCC
TGACAGGGGTGCTCCGCAGCTGTGGGACCCCTCACACTGAAGCCCCCTGGGCGCCTCGCTGAGCTCTGTGGCGTGC
TCAAGGCTGTGCTGCAGAGGAAGACAGCCTGTGAGGATACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGG
CTGAATACGACGCCATGTTGCTGGAGCACGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACT
CCTTTGCCCCATTCTTTGCCGTTTCCTGCCATTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGGCAGAGA
AGTCCTTTGCAGTGGGGACCTTGGCAGAGACTATTGAGGCCTGGGTGCTGCCTCAGCCCAGTTTGTGTCTCGGC
TGCTCCCTGTGCTGTTGAGCACCGCCCAAGAGGCAGACCCCGAGGTGCGAAGCAATGCCATCTTCGGGATGGGCG
TGCTGGCAGAGCATGGGGGCCACCCTGCCAGGAACACTTCCCCAAGCTGCTGGGGCTCCTTTTTCCCTCCTGG
CGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGGCACTTGCCCGCCTGTTGATGGCCAGTCCCACCA
GGAAACCAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTCA
CCATTGGGCGCCTCTTCAGCTTCTGTACCAGAGCAGCCCTGACCAGGTTATAGATGTGGCTCCCGAGCTTCTGC
GTATCTGCAGCCTCATTCTGGCTGACAACAAGATCCCACCAGACACCAAGGCCGCACTGTTGCTGCTCCTGACGT
TCCTGGCCAAACAGCACACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCC
AGGCTGTACTGGGCCTCTCTCCTAGACTGCAGGCTGCAGCCAGTCCAGAGAGAATAGAGCCTGCCCA

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FIGURE 3961

MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTRRRLNTRWRRRLAAE
QRESLKSLILTALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLLQHSTHSPHSPEREMGLLLLSVVVTSRP
EAFQPHHRELLRLLNETLGEVGSPLLFYSLRTLTTMAPYLISTEDVPLARMLVPKLIMAMQTLIPIDEAKACEAL
EALDELLESEVPVITPYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVKSALLKNRLLPPLLHTLFP IVA
AEPPPGQLDPEDQDSEEELEIELMGETPKHFVAVQVVDMLALHLPPEKLCPLMPMLEEALRSESPYQRKAGLLV
LAVLSDGAGDHIRQRLLPPLLQIVCKGLEDP SQVVRNAALFALGQFSENLPQPHISSYSREVMPLLLAYLKSVP LG
HTHHLAKACYALENFVENLGPVQPYLPPELMECMLQLLRNPSSPRAKELAVSALGAIATAAQVSLLPYFPAIMEH
LREFLLTGREDLQPVQIQSLET LGVLARAVGEPMRPLAECCQLGLGLCDQVDDADLRRCYSLFAALSGLMGEG
LAPHLEQITTLMLLSLRSTEGIVPQYDGSSSFLLFDDSDGEEEEELMDEDVEEEDDSEISGYSVENAFFDEKED
TCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALAR
VVPSYMQAVNRERERQVVMVLEALTGVLRSCGTLTLKPPGRLAELCGVLKAVLQRKTACQDTDEEEEEEDDDQA
EYDAMLLEHAGEAIPALAAAAGGDSFAPFFAGFLPLLVCCTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRL
LPVLLSTAQEAADPEVRSNAIFGMGVLAEHGGHPAQEHFPKLLGLLFP LLARERHDRVDRNICGALARLLMASPTR
KPEPQVLAALLHALPLKEDLEEWTIGRLF SFLYQSSPDQVIDVAPELLRICSLILADNKIPDTKAALLLLLT
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

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FIGURE 3962

ATCTAATGAGGAGCGAGGTGCGGTGCCCCGAAGCGCTCGCTTCCCGCGGTGCGATCTAGTCTGCAGTAGGCGGC
CCGGGGCCACACCGCGGCCGCCAAGCCAGTGCAAGGCCAGGGGGCTGACATCGCTCCCAGCGCTCGAGGACCG
AGGCCTGCTGTGGAGGACACCGTGCTCCCTCGGGACCTGCTCTGGATTCCGGCCCCGACGTCCCCTTGGAGCTCT
GCATCTCCAACCTGGAACCCAACCCAGAAGTCTCAAGTTTGACGCATCACGTGGCGTGCGGATCCACTGAGGGTC
CACAGAGAGGGGCGCCCATCTCCTGCGTCTCAGTTATCCTGGTGTTGGGAATTCTGTGCCCTAAAGAATTCCGAC
TCAGATCCGAACGGGGATCTGGTGGAATCGAGGGTGAAAGACCAGAGGGGACA**ATG**TTCTACTATCCCAACGTGCT
TCAGCGCCACACCGGTGCTTTGCCACCATCTGGCTGGCGGCGACTCGCGGCAGCCGGTTGGTGAAGCGCGAATA
CCTGAGGGTGAAATGTGGTGAAAACCTGCGAGGAAATCCTCAATTACGTGCTGGTACGAGTGCAACCCCCCGCAGCC
CGGCCTGCCGCGGCCCCGCTTCTCCCTCTATCTCTCAGCCCCAACTTCAGATCGGTGTGATCCGCGTCTATTCTCA
ACAATGCCAGTACCTCGCGGAGGACATCCAGCACATCTTGAGCGCCTCCACCGTGCCAGCTGCAGATCCGAAT
AGATATGGAGACTGAGCTACCCAGCCTGCTGCTTCCCTAACACCTGGCCATGATGGAGACCCTAGAAGATGCTCC
AGATCCCTTTTTTTGGGATGATGTCTGTGGATCCCAGACTTCCTAGTCCTTTTCGATATCCCTCAGATTGCACACCT
CTTAGAGGCTGCAATCCCAGAGAGAGTTGAAGAGATCCCTCCTGAAGTTCCTACAGAGCCCAGGGAGCCAGAGAG
GATTCCGGTCACTGTGCTGCCACCTGAGGCCATCACGATCCTGGAGGCAGAGCCCATACGGATGCTGGAGATTGA
GGGTGAACGGGAGCTCCCAGAGGTCAGCCGCCGAGAAGTGGACCTGCTGATCGCAGAGGAAGAAGAAGCTATCTT
GTTAGAAATCCCGCGGCTCCACCTCCAGCTCCTGCAGAGGTGGAAGGAATAGGAGAGGCACTGGGTCTGAGGA
GCTGAGGCTGACAGGCTGGGAACCTGGGGCCCTACTCATGGAGGTGACCCCCCGGAGGAGCTGCGTCTGCCAGC
CCCACCCAGCCCAGAGAGGAGGCCCCAGTCCCCCACCTCCTCGCCGCCCGCTCGTCCCGGTTACTGTTCTG
GGACAAGGAGACTCAGATCTCCCCGAGAAATTCAGGAACAAGTCAAACCAGAGCCCCTGCTGGGAATGTCC
TATGGTGCAGCCGCCCGAGAGGACCATCAGAGGCCCTGCGGAGTTGTTTCAGAACCCCAACTCTCTCTGGCTGGCT
ACCCCTGAACTACTGGGTCTCTGGACCCATTGTGCCAGCCACCCCCAAAAGCCCTCAGGCGAGAGCTGCCTGA
GGAGGCAGCCGCTGAGGAGGAAAGGAGAAAGATTGAAGTTCCAAGTGAGATTGAGGTCCCAGGGAGGCCCTGGA
GCCAGTGTTCCCTTATGGTGTCTTTAGAGATCTCCCTAGAGGCAGCTGAAGAGGAGAAGTCCCGCATCAGCCT
CATCCCACCAGAAGAACGGTGCGCCTGGCCTGAGGTGGAGGCGCCAGAAGCTCCTGCATTGCCCGTGGTGCCTGA
ACTCCCTGAGGTGCCCATGGAGATGCCTTTGGTGCTGCCCCAGAGCTCGAGCTGCTCTCACTGGAAGCAGTGCA
CAGGGCAGTGGCACTGGAGCTGCAGGCTAACAGGGAGCCCGACTTCAGCAGCCTGGTGTACCTCTCAGCCCCCG
CAGGATGGCTGCCCGGGTCTTCTACCTGCTCCTGGTGCTCTCAGCGCAACAGATTCTTCAGTGAAACAAGAAAA
GCCATATGGTCGCCTCCTGATCCAGCGGGGCCAGATTCCACT**TG**AGGTTAGAGTCCATTTACAAAGCTGCCAGG
AAACCGGCCACTTCTAGTAAACCAGTCGTGCCTCACTGGGTCTGCTTACCTCATTTCTGAATGTGCATTTCCA
GCCTTCTTGCTCTCAGAGCTATTGTTCAAGCAGAAAACAAGCTGCTTTTATTACAGT

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FIGURE 3963

MFYYPNVLQRHTGCFATIWLAAATRGSRVLVKREYLRVNVVKTCEEILNYVLVRVQPPQGLPRPRFSLYLSAQLQI
GVIRVYSQQCQYLAEDIQHILERLHRAQLQIRIDMETELPSLLLPNHLAMMETLEDAPDPFFGMMSVDPRLPSFF
DIPQIRHLLEAAIPERVEEIPPEVPTPREPERIPVTVLPPEAITILEAEPIRMLEIEGERELPEVSRRELDLLI
AEEEEAILLEIPRLPPPAPAEVEGIGEALGPEELRLTGWEPGALLMEVTPPEELRLPAPPSPERRPPVPPPPRRR
RRRRLLFWDKETQISPEKFQEQQLQTRAHCWECPMVQPPERTIRGPAELFRTPTLSGWLPELLGLWTHCAQPPPK
ALRRELPEEAAAAEEERRKIEVPSEIEVPREALEPSVPLMVSLEISLEAAAAEEKSRLSLIPPEERWAWPEVEAPEA
PALPVPELPEVPMEMPLVLPPPELELLSLEAVHRAVALELQANREPDFSSLVSPLSPRRMAARVFYLLLVLSAQQ
ILHVKQEKPYGRLLIQPGPRFH

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FIGURE 3964

CCCGCCTTCCATACCTCCCCGGCTCCGCTCGGTTCTTGGCCACCCCGCAGCCCCTGCCAGGTGCC**ATG**CCGCA
TTGTACCGCCCTGGCCTGCGGCTTAACTGGCATGGGCTGAGCCCCTTGGGCTGGCCATCATGCCGTAGCATCCAG
ACCCTGCGAGTGCTTAGTGAGATCTGGGCCAGCTTCCCACTGGCATTTCGAGATTTTGTAGAGCACAGTGCCCGC
CTGTGCCAACCAGAGGGCATCCACATCTGTGATGGAAGTGGGCTGAGAATACTGCCACACTGACCCTGCTGGAG
CAGCAGGGCCTCATCCGAAAGCTCCCCAAGTACAATAACTGCTGGCTGGCCCGCACAGACCCCAAGGATGTGGCA
CGAGTAGAGAGCAAGACGGTGATTGTAACTCCTTCTCAGCGGGACACGGTACAACCTCCCGCCTGGTGGGGCCCGT
GGGCAGCTGGGCAACTGGATGTCCCCAGCTGATTTCCAGCGAGCTGTGGATGAGAGGTTTCCAGGCTGCATGCAG
GGCCGCACCATGTATGTGCTTCCATTACAGCATGGGTCTGTGGGCTCCCGCTGTCCCGCATCGGGGTGCAGCTC
ACTGACTCAGCCTATGTGGTGGCAAGCATGCGTATTATGACCCGACTGGGGACACCTGTGCTTCAGGCCCTGGGA
GATGGTGACTTTTGTCAAGTGCTGCACTCCGTGGGCCAGCCCCTGACAGGACAAGGGGAGCCAGTGAGCCAGTGG
CCGTGCAACCCAGAGAAAAACCCTGATTGGCCACGTGCCCCAGCAGCGGGAGATCATCTCTTCGGCAGCGGCTAT
GGTGGCAACTCCCTGCTGGGCAAGAAGTGCTTTGCCCTACGCATCGCCTCTCGGCTGGCCCGGGATGAGGGCTGG
CTGGCAGAGCACATGCTGATCCTGGGCATCACCAGCCCTGCAGGGAAGAAGCGCTATGTGGCAGCCGCCTTCCCT
AGTGCCTGTGGCAAGACCAACCTGGCTATGATGCGGCCTGCACTGCCAGGCTGGAAAGTGGAGTGTGTGGGGGAT
GATATTGCTTGGATGAGGTTTGACAGTGAAGGTCGACTCCGGGCCATCAACCCTGAGAACGGCTTCTTTGGGGTT
GCCCCTGGTACCTCTGCCACCACCAATCCCAACGCCATGGCTACAATCCAGAGTAACACTATTTTTACCAATGTG
GCTGAGACCAGTGATGGTGGCGTGTACTGGGAGGGCATTGACCAGCCTCTTCCACCTGGTGTACTGTGACCTCC
TGGCTGGGCAAACCCTGGAAACCTGGTGACAAGGAGCCCTGTGCACATCCCAACTCTCGATTTTGTGCCCCGGCT
CGCCAGTGCCCCATCATGGACCCAGCCTGGGAGGGCCCCAGAGGGTGTCCCCATTGACGCCATCATCTTTGGTGGC
CGCAGACCCAAAGGGGTACCCCTGGTATACGAGGCCTTCAACTGGCGTCATGGGGTGTGTGTGGGCAGCGCCATG
CGCTCTGAGTCCACTGCTGCAGCAGAACACAAAGGGAAGATCATCATGCACGACCCATTTGCCATGCGGCCCTTT
TTTGGCTACAACCTTCGGGCACTACCTGGAACACTGGCTGAGCATGGAAGGGCGCAAGGGGGCCCAGCTGCCCCGT
ATCTTCCATGTCAACTGGTTCCGGCGTGACGAGGCAGGGCACTTCTGTGGCCAGGCTTTGGGGAGAATGCTCGG
GTGCTAGACTGGATCTGCCGGCGGTTAGAGGGGGAGGACAGTGCCCGAGAGACACCCATTGGGCTGGTGCCAAAG
GAAGGAGCCTTGATCTCAGCGGCCTCAGAGCTATAGACACCACTCAGCTGTTCTCCCTCCCCAAGGACTTCTGG
GAACAGGAGGTTTCGTGACATTCGGAGCTACCTGACAGAGCAGGTCAACCAGGATCTGCCCAAAGAGGTGTTGGCT
GAGCTTGAGGCCCTGGAGAGACGTGTGCACAAAATG**TGA**CTGAGGCCCTAGTCTAGCAAGAGGACATAGCACCC
TCATCTGGGAATAGGGAAGGCACCTTGAGAAAATATGAGCAATTTGATATTAACTAACATCTTCAATGTGCCAT
AGACCTTCCCACAAAGACTGTCCAATAATAAGAGATGCTTATCTATTTT

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FIGURE 3965

MAALYRPGRLRNWHGLSPLGWPSCRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCQPEGIHICDGTEAENTATLT
LLEQQGLIRKLPKYNNCWLARTDPKDVARVESKTVIVTFSQRD TVQLPPGGARGQLGNWMSPADFORAVDERFPG
CMQGRTMYVLPPFSMGPVGSPLSRIGVQLTDSAYVVASMRIMTRLGTPVLQALGDGDFVKCLHSVGQPLTGQGEPV
SQWPCNPEKTLIGHVPDQREIISFGSGYGGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITSPAGKKRYVAA
AFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDSEGRRLRAINPENGFFGVAPGTSATTNPAMATIQSNTIF
TNVAETSDGGVYWEGIDQPLPPGVTVTSWLGKPWKPGDKEPCAHPNSRFCAPARQCPIMDPAWEAPEGVPIDAI I
FGGRRPKGVPLVYEAFNWRHGVFVGSAMRSESTAAAEHKGKIIMHDPFAMRPFFGYNFGHYLEHWLSMEGRKGAQ
LPRI FHVNWFRRDEAGHFLWPGFGENARVLDWICRRLEGEDSARETPIGLVPKEGALDLSGLRAIDTTQLFSLPK
DFWEQEVDRDIRSYLTEQVNQDLPKEVLAELEALERRVHKM

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FIGURE 3966

TACATTGGGTCTACTGCACAAATTACAGGGCTCCAAGTGTCTTATGAGAGCAGGACTTGGGCTGACCATGTCTCT
CTGCCCTCACCCATGCTCTGCTCTGATTTCAGATCCTAAGTGTGAACGTGAAGTCCCCAGCCCTGCTGCTGAGCC
AGTTGCTGCCCTACATGGAGAACAGGTATGGCAGGGCGGGGGTGGGGACCAGTCGGAGTTGGGGACCTGAGGTGG
GCACAGAAATACAGTCGGTAGCACAGCCAGTAGTGGGTAGAGGACAGAAGAGGTCTGGGATCTCCACATCCCTCA
TCTTCTTGTCTGCTGCCCTCCCCATCTGTGTGGCTGCCATTCCCAATTCCAGTGGCTGCAGGATGAGAGTAGTATTCC
AGGGGCCCAGGCATAGCCTCCTTGGCCTTGACATCAGCAGGTTTGGGACAAGGCTATGCTTTAACTCCTTGACCT
TGTGGGCTGGTCATTGTACCTTACCTGCTCTCTGTTCTTACCAACTTAAAACCAATGACAGGGTTAGCCCCATT
CCTCTCCATAGGAAAAAGCCTGTCCCAGACCTCTCCTCATGCCTGCGCTTGGTCTCCAGGGACCTGCCTGTGTT
CCAGGTCCTGCAGATCTGACTGTACCCCTCACAGACACACCCTTAGGAACTGGCCAGGGGCTGTCTTCAGTAGAA
GGAAAGTTCCTGACTGTCACTTCTGGTCTCCCTTACCCCATCTGCTCCTTAGAGGTTGCTCATTGATAGGCACTC
ACCATCAGCCTTGGGTGCCTCTTCACAAAGCCCACCCTGCCCTCTCCTTCAAGCACCTGGCAAGAGAGGAAGCAG
AAGATAAGGGTTCTGAGCATGGACATCGTATTTATGAGAAATAGGCATGGAATCCTAGCTCTGCCGTGTATTGGC
TGGTACTAAACCTTTCTGAGCCTCAGTTTTCTGAACTCTGAGATGGGGACAGTAATAGGACCTGTGTTGCTTCTG
TGAGGGTTGCATCATTTAATGAACTCATGATAGTGTACCATCAGTGGTAAGCTCTTAGCTTCAGCTTCTCTTAT
GTTTGTCTTGTCTCAGGAGGGGTGCTGTCTCCTGGTCTCTTCCATTGCAGCTTATAATCCAGTAGTGGTAAGTG
CTTGGTCCTTGTGCTCCTGAGTGGTATAGGGTGAGGGCAACTTTGTTCTTTTCCCTCAGAGCCTTACAGACAAAG
TGCCTGGGACAGACCCCCACCATCCTCCTGCTGCCCTGGGCTGAGCTTGTCTCCATGTGGGTGGGAGGGCTGCTG
GGCCTGTGAGATCCCTGTAGGTGAGAAATCCAAGTATGCTTTCCCCACTCTCCCATATCCTAATCACTCTGTC
AATTCCTTCCCAGGCGCTGGGTGTCTACAATGTCAGCAAGACAGCGCTGCTGGGTCTCACTAGAACACTGGCAT
TGGAGCTGGCCCCCAAGGACATCCGGGTAACTGCGTGGTTCCAGGAATTATCAAACTGACTTCAGCAAAGTGG
TGAGGATTGGGTGTGTCTTCCATCTCCCAGTCTGGCTCAGTGGGAACCTTCCCAGTGAATAAGGGATCAAGGGG
TGACTGAATCCTTAGGTCAGCATGCCTATGACTGAGGTCTCATTGTTCTCTGAACTCAGCCATGGTGCAGTCCA
TCCATCCTGAAAAGATGCTCCTTCTTTTGAGAAGGGCAAAGCTGCCCTAGGTGTTCTGCCTGGTGGCCTTCCCGG
GGCCTGCCCATCTTGTTTTAGTAGCACTGACTCCTTCATTTCTTCCCTTTGCCAGTTTCATGGGAATGAGTCT
CTCTGGAAGAACTTCAAGGAACATCATCAGCTGCAGAGGCAAGTGGGGTTTGGAGATTGGTGGTCCATGTGTGG
CTAGGCAGGGGCAGTTGAGTCTATTGCAAGAGCAGACCCCTCCCTGTCTCATCTGGCCATTGTTTTTGCTGAAATCT
GGAGTCCACATGGCCCTGGAGGGTGCAAGTAGCCCTGCTGCATCCACCTTGTTCCTCCCATGGAGCCCACTCCCACC
TGTCATCCGTGAGCCCCAGAGCAGCAGAATCAGAGTACAAGATGCTTGACACTGTGTCCTTCTTCCATCCAGGAT
TGGGGAGTCAGAGGACTGTGCAGGAATCGTGTCTTCCCTGTGCTCTCCAGATGCCAGCTACGTCAACGGGGAGAA
CATTGCGGTGGCAGGCTACTCCACTCGGCTCTGAGAGGAGTGGGGGCGGCTGCGTAGCTGTGGTCCCAGGCCCAG
GAGCCTGAGGGGGTGTCTAGGTGATCATTTGGATCTGGAGGCAGAGTCTGCCATTCTGCCAGACTAGCAATTTGG
GGGCTTACTCATGCTAGGCTTGAGGAAGAAGAAAAACGCTTCGGCATTCTCCTTAGGACTTATCTGCTTGTAGAT
TTGGCTGATCCAATTAACATGTGGGGTTCTTGGTGTGGGTCTGGGGAGCTGAAGGATTTTATGGAGCTGGTGCTT
TGGAGGAATCTTAAGGGAAAGGAGTAGAAGCTCAGGCCTTTGAAGGATTTAGCTCCTCCTCTCTGTAATTTGTG
CTTTAAGCATTTTTTTTCTAAATAAACTCAAATTTATCCTC

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FIGURE 3967

GGTTCCTTCCACGCTGTGGAAGCTTTGTTCTTTTGGTCTTCATGATAAAATCTTGCTGCTGCTCACTCGTTGGGT
CCGTGCCACCTTTAAGAGCTGTAACACTCACCGCGAAGGTCTGCAACTTCACTCCTGGGGCCAGCAAGACCACGA
ATGCACCGAGAGGAATGAACAACCTCTGGACACACCATCTTTAAGAACCGTAATACTCACCGCAAGGGTCTGCAAC
TTCATTCTTGAAGTCAGTGAGGCCAAGAACCCATCAATTCCGTACACATTTTGGTGACTTTGAAGAGACTGTCAC
CTATCACCAAGTGGTGAGACTATTGCCAAGCAGTGAGACTATTGCCAAGTGGTGAGACCATCACCAAGCGGTGAG
ACTATCACCTATCGCCAAGTGGCCTGATTGAGCAGGAAGCATCTCAGACACCAACCACTATGCTGTCAGCAGTTG
CCCGGGGCTACCAGGGCTGGTTTCATCCCTGTGCTAGGCTTTCTGTGAGGATGAGCAGCACCGGGATAGACAGGA
AGGGCGTCCTGGCTAACC GG GTAGCCGTGGTCACGGGGTCCACCAAGTGGGATCGGCTTTGCCATCGCCCGACGTC
TGGCCCGGGACGGGGCCCCACGTGGTCATCAGCAGCCGGAAGCAGCAGAACGTGGACCGGGCCATGGCCAAGCTGC
AGGGGGAGGGGCTGAGTGTGGCGGGCATTGTGTGCCACGTGGGGAAGGCTGAGGACCGGGAGCAGCTGGTGGCCA
AGGCCCTGGAGCACTGTGGGGGCGTCGACTTCCTGGTGTGTCAGCGCAGGGGTCAACCCTCTGGTAGGGAGCACTC
TGGGGACCAAGTGAGCAGATCTGGGACAAGATCCTAAGTGTGAACGTGAAGTCCCCAGCCCTGCTGCTGAGCCAGT
TGCTGCCCTACATGGAGAACAGGAGGGGTGCTGTATCCTGGTCTCTTCCATTGCAGCTTATAATCCAGTAGTGG
CGCTGGGTGTCTACAATGTCAGCAAGACAGCGCTGCTGGGTCTCACTAGAACACTGGCATTGGAGCTGGCCCCCA
AGGACATCCGGGTAAACTGCGTGGTTCCAGGAATTATCAAACTGACTTCAGCAAAGTGTTTCATGGGAATGAGT
CTCTCTGGAAGAACTTCAAGGAACATCATCAGCTGCAGAGGATTGGGGAGTCAGAGGACTGTGCAGGAATCGTGT
CCTTCCTGTGCTCTCCAGATGCCAGCTACGTCAACGGGGAGAACATTGCGGTGGCAGGCTACTCCACTCGGCTCT
GAGAGGAGTGGGGGCGGCTGCGTAGCTGTGGTCCCAGGCCAGGAGCCTGAGGGGGTGTCTAGGTGATCATTG
ATCTGGAGGCAGAGTCTGCCATTCTGCCAGACTAGCAATTTGGGGGCTTACTCATGCTAGGCTTGAGGAAGAAGA
AAAACGCTTCGGCATTCTCC

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FIGURE 3968

TCTTGTGCCCCGGGCGCGGTGGGGAGGCCGGGGAGGGGGCCCCGGGGGGCGCAGGGGACTACGGGAACGGCCTGGA
GTCTGAGGAACTGGAGCCTGAGGAGCTGCTGCTGGAGCCCGAGCCGGAGCCCCGAGCCCGAAGAGGAGCCGCCCG
GCCCCGCGCCCCCCCCGGGAGCTCCGGGCCCTGGGCCTGGTTTCGGGAGCCCCCGGCAGCCAAGAGGAGGAGGAGGA
GCCGGGACTGGTTCGAGGGTGACCCGGGGGACGGCGCCATTGAGGACCCGGTGAGGGAAGGAGGGCGAGCGAGCAG
GCCGGCGGCTGGCCGGCCGGGTCACTGGAGGCCAGAGCTCGGGCGAGCGGGTGGCAGGCGGGGGGTGGGGTTGG
GCGGGGAATAACGTGGCTGGGGCCGGGTCTGGGCCGGGGATGGGTCAGCGATCACTACAAGGGGCCCGACTGGCTT
GATTCGGGCGTCACGGTTGCCTAGTGTTGTTCTAGAGAGGGTAGCTTTTCTTTTATCACGACCCTCGCATGGGGC
GAGGGAAATGGCCGAGCATGGCTGAGGCCGCGCTCTGGCCGAGAGCAGGGCACAGCCCCTGCGTTGGTTCCCTCTT
AAGCTGTCCTCCATACCCTCCCCACTTATATTAGGAGCTGGAAGCTATCAAAGCTCGAGTCAGGGAGATGGAGGA
AGAAGCTGAGAAGCTAAAGGAGCTACAGAACGAGGTAGAGAAGCAGATGAATATGAGTCCACCTCCAGGCAATGC
TGGCCCGGTGATCATGTCCATTGAGGAGAAGATGGAGGCTGATGCCCGTTCCATCTATGTTGGCAATGTGGACTA
TGGTGCAACAGCAGAAGAGCTGGAAGCTCACTTTCATGGCTGTGGTTCAGTCAACCGTGTTACCATACTGTGTGA
CAAATTTAGTGGCCATCCCAAAGGGTTTGCCTATATAGAGTTCTCAGACAAAGAGTCAGTGAGGACTTCCTTGGC
CTTAGATGAGTCCCTATTTAGAGGAAGGCAATCAAGGTGATCCCCAAACGAACCAACAGACCAGGCATCAGCAC
AACAGACCGGGGTTTTCCACGAGCCCGCTACCGCGCCCGGACCACCAACTACAACAGCTCCCGCTCTCGATTCTA
CAGTGGTTTTTAACAGCAGGCCCCGGGGTCGCGTCTACAGGTCAGGATAGATGGGCTGCTCCTCTTTCCCCCGCCT
CCCGTG

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FIGURE 3969A

CACGCTCAGAGCAGACCGCTAGCAGGAGGCAGGATGTGATAGTCTAAGACCCTGGAAGCTGACGGCCAGAGGGAG
GGAAGGGTGGTCACAGAGGAGAGGCCAAAGCAACGGGAGGTGGAGGATCCTGGAGGTGTCTGCAAGGAGAATACAC
AGCAGCGAGGGGCTGCAGAAGCGGACCCAGCGACTTCTGCGCTGACGCGGGGCGGGCGGGAGAGAGGAAGAGAGG
GGAGCGCGGTGGCGCTGCGAGCTGGCCCCGCCGGGGAAGGGGCTGCC**ATGT**CCCGTGAGCGGGCCCCCGGGCACCG
ACATTCCCCGCAACCTGAGCTTCATCGCGCGCTAACGGAGCGCGCCTACTACCGTAGCCAGCGGGCCAGCCTCG
AGGAGGAGCCGGAGGAGGAGCCAGGCGAGGGCGGGACGCGGTTCTGGGGCCCGATCCCGCGCTCACGCACCGAGTC
GGGGCCGCCGGGCCCCGATCTGCACCAGCCGGAGGCGGGCGGGGCCCCGGGCGCCCCGACCCGTAGCCAGACACCC
GCAAGAGAGTGCCTTTCGCCGACGCACTGGGGTTGGAGCTGGCTGTCTGCGCCGCTTCCGTCCCGGTGAGCTGC
CCCCGGTGCCCCGCCACGTGCAGATCCAATTGCAGAGGGACGCCCTCCGCCACTTCGCGCCCTGCCAGCCCCGCG
CCCGCGGCCTCCAGGAGGCGCGCGCCGCCCTGGAGCCGGCCAGCGAGCCCGGCTTCGCCGCCCGCTTGCTGACGC
AGCGCATCTGCCTGGAACGCGCCGAGGCGGGCCCCGCTGGGCGTGCCGGGAGCGCGCGCTGGTGACCTGGCCT
ACGAGAAGCGCGTGAGCGTGCGCTGGAGCGCCGACGGCTGGCGGAGCCAACGCGAGGCGCCAGCCGCTACGCCG
GTCCGGCCCCCGCCCCCGCGCGCGCCGACCGCTTCGCCTTCGCCCTGCCCGCGCCGCCGATTGGGGGCGCCCTGC
TCTTCGCCTTGCGCTACCGTGTGACAGGTACAGAGTCTGGGACAACAACGGCGGCCGTGACTATGCTCTACGTG
GGCCCGAGCACCCGGGCACTGGCGGAGCTCCGGAGCCGACGGGCTGGATCCACTTTATCT**TGAG**ACGAGGCGCCTG
CGGCCGACGGCGGAAAACACCAAAGGCACCCGGGGGCGGGGCGACCCGATGTGGCGGGGAGGAGTAGGAGAGACC
AGGATTGGCGGGAGCGGTCCAAGGGAGTCAAGCCGGGGAGGGCGAAAAGGGAACCTGGCCACTGCTCCTTGCTCC
TTGGCATTATGACGGGATTCCCTTGTACCTCTGACAGTTCTTGCTGCGGTGTCCGCGGACTGGCTGGGGAGTG
ATGACAGAAGGGATGGAACCCCTATTTCTTTTCTCCAAGACCATGGTTGGTCTGCTTCCCTCACTCGGGCTCCT
TGACAGTCTTCTAGAAGAGAGAAGGAGGAAAAGAAGCAGTTCTTGATGTTACAAATGAACAAGGATCTCCCAGCC
TTAGTCTTTGAGAAAAGATGGCTGAAAGAGAGGAACTCTCCAAGTCATTCCGCAAACAAATGCCCATTTAAACAT
CATCCTTGCTTTGTGAAGAAAACAGGAAGAATGTATGTACCATGTGGATCACCTTCAGTTCAAAGTTGCAGCAA
AGTGAAGAAAAGAACTACTGGAAGCCACCCAGCAATGCACTGTTTAGTCATCAATTAGGAGCCCATGGGAGGATA
ATAGGGAGACTGGGTGGAGGCTCAGTGTGTAATAATCTCTTGCTAATGTATGTGTGTCACTGCCATGTTGTATG
AACAATAGTGAGGGCTCACATTTACTTAACTTGTGTGCGCAAATCTGGGTTTTTCTTCTTTCCAGAACTATG
ACTCGATCATAAAATCTGTTTTGTTTGCATGCATGCCAAAACAACCCTGTAAGTAGAACATTGTCAATTATCTCT
GTTTTAGAGATGAGGAAAACAGGCTCAGAGAAGCTCAGAAATTTGTTCAAGATCGCACAGCTAGTAAATGGCAGAA
GTAGGATTGTGAACCCAGGGAATCTCCAGAGCCTCTGTGTAACCATGATGTTATATTTTTTTTCTCTTTAAAAA
CAAAATTTAAACCTTGCTATAATCTCTTATTAGGAAATGATCATAGTTTCTGACTGTGCTCTGCCTTCCCATCC
TGCCAATCTCCTGGACTGGCTTGAGAGAAGACAGGGGGCCCCGAGCTTCATCTGTGACTCGAAGGAGTTTGCTGC
TGTCTCCTGTGTGCTAGTGTCCCATCTATGCAGGATCAGCACAGGACCCCCCTCACCTTCCCACTTACACTCTAGCC
TTTCCATACATTGGAATTTCTCTCCTGGCCCTAGCCAGCGCTCCACACCTGTTGGTGTGCCACCTCCCTCCCTCTT
CCCCACTGGCCTTGAAACAGGCAAACCCCCCTAATGTGCGCACTAGGTTGGGTCCGTGACTAGGACACCTGCTAGA
GGGTCTGTGCTTGGGCCTTTTCTAGGAATCCCGATGTTACTGGGTAAGTGCCAACCTCTGTGGGCAGAATGCTAAT
GATAATCCTGTTCCCTGACCTCTTCTCAGAAGTACCCTGGCTCACTCTCCCAATCTCAGCTTTATAGAACAAAC
ATTTTGGTCTTGATTATTCCCATATCAAGCTGCCCCAGGGCTTCGGTAAGCTGTTAGTTGCCCCACTGCCTCAAG
GCTGGGTCTGGCTGAGCTACTTCTTAGGCACACAAATAGTGGGTGTCTCCTTGGAACCTGACACAAAACCTATCAG
TGCTACCAAGCCTTGTAATAATAGGGAGGAACTAATATTTCTTGAGTGGCTTCTGAGTGCCTGGTGCTTTTCGCGG
CTCTCTGGAGAGATTCTTGCCCTGATGGCTTTGGTGTGTACTCTCTCCCAGGACTTCAGCACTGAGATTTTCC
CAACCCCTGGCTTTTCTCACCTTGGGTTGAGTTGATCCGGCACTACCACAAACCCACCATCTGCAAACCAAC
CAAGATTAGGCAGTATGCCCTTTCCGTCTTGCACTGCTCTTCCAAAACCTCCATCTGTATTTCTCACACCCTCAG
TAAGCAAAGCTGAGTGTGCATGGACAGAGCTGCATCCACTGCTTTCTCCAGCGGGTGCAGTCTAATCTGACACG
GGGAACACTAGGAGTTTAGCGGAATCTTCAGCCACCCTATTAATGTGTTACGCATTAGGCATTGTAGTGGAACCT
CCTCTGATGGCTCATGACTATATGAACAGGAGCAATTTGGAATATAACATGTCAGCTGTGGACTGGGAAGTGCCG
TGAGAGAAAACACTACCTGGGTCATAGGCTTGGGTCCCTGAGGCAACCCAGCAGGGACACTGTTGCCCATTTCTC
TCATCCAGACTGCAGGTGTCTTCTACACCTCCCTGTCCCATAGCCTCCGTCTGTTTTTTGTTTGTGTTTTT
CTTTGTGAATGTAGAAAAACATTTTCATCATGAGCCCTAGCTCCTCAGTTTTTCCACCTAACACCCACATTCCCTTG
TTTCTAACTGCCGTGTTTTTCTGGAGCCTGCTGGGATCTTTGCAGTTTGCAAGTTCATAGAATCAGACATGAAAAG

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FIGURE 3969B

GCTTCTCTTCCGACGTCATTGGTTCCTGGCTCCTTTACAGATGAGAACACAGGTCCAGAGGTGAGAAATGACTCT
AGCAGGGTCATAGAATTTGTTAGTGCAGCTCAAGATGGGACTTAACTCAGGCCTCCTGATCACCATTCCCAGG
CTAGGAAACAGGTCTCTGCTCGGTGTGGTGGTTCATACCTGTAATCGCAACACTTTGGGAGGCTGAGGCAGGAGC
ATTGCTTGAGCCCAGGAGTTCGAGACCAGTCTGAGCAACATAGTGGGACCCTGTCTCTACAAAACTTTTAAAT
TAGCTGGGCATGGTGGCACACATCTGTATTCCCAGCTACTCAGGAAGCTGAGACAGGAGGATCGCTTGAGCCCAG
GAGTTGGAGGTACTGAGCTATGATCGCACCCTGCACTCCAGCTTGGTGACAGTGAGACCCTCAAAAAAAAAA
GAAAAGAAAGAGGTCTCTACACAAGCCCGTGATTCTTCATGGCAAGGGATAACATCAGAAATGTTTCATTTTCTG
CTATTAGTTTCCATTCCCTTTCCCCATCCAGGCATAAAGAGAAACAAAAGACAATGATGGTATTCTCTGTGTCTC
AGCTTTGGCACTTTTGTGATGTTGCTAAGGAGCAGTGACCTTGCTAAAAAGACTGAATAATCCACCCACTGAAT
AGCTAACCTGGGGAGGAAATGAAAATTTCTTTGTGGATCTCCCCAAATCCATTGTTGTCACCAGGCCCTCCCAG
AACCTCCTCAGTTCCTTCACAGTGCAACCCTGTGTACTTGGCCCGCAACCCAATAGTATTGTGCCTCACTTCACC
TTCCATGGGCAACTGCCCTCCCTTCTGGACATAAAACCTCATATTTTAAATAAAGTTGAAATATGAAAAG

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FIGURE 3970

MSRERPPGTDIPRNLSFIAALTERAYYRSQRPSLEEPEEEEPGEGGTRFGARSRAHAPSRGRRARSAPAGGGGAR
APRSRSPDTRKRVRFADALGLELAVRRFRPGELPRVPRHVQIQORDALRHFAPCQPRARGLQEARAALEPASE
PGFAARLLTQRICLERAEAGPLGVAGSARVVDLAYEKRVSVRWSADGWRSQREAPAAYAGPAPPPPRADRFARL
PAPPIGGALLFALRYRVTGHEFWDNNGGRDYALRGPEHPGSGGAPEPQGWIHFI

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FIGURE 3971

GGCTCCTTCCCCTTCCCGGGCCTTTCAGCTTGGTCTTTCCGGGCCTCGCTTCCCCCAGCCCCTGCGCCCGGCCCG
AACGAGAGGTTCCGGAGCCCCGGCGCGGGCGGGTCTGGGGTGTAGACGCTGCTGGCCAGCCCCTCCCCAGCCGAG
GTTCTCGGCACCGCCTTGAGAGCTTCAGCTGCCCCAGGATTAGAATCCCAAGAAAATCAA**ATGG**CATCCGGGGAT
TTCTGCTCACCTGGAGAAGGGATGGAAATACTTCAACAAGTGTGCAGCAAACAACCTTCCTCCTTGTAACCTGAGT
AAAGAGGACCTGTTACAGAACCCATACTTCAGCAAGCTTCTCCTGAATCTCTCACAGCATGTGGATGAGAGTGGC
TTAAGCCTCACCTAGCAAAGGAGCAGGCTCAGGCATGGAAGGAAGTTTCGACTGCATAAGACAACATGGTTGAGG
TCTGAGATTTTACACAGAGTCATTCAAGAGTTGCTTGTGGACTACTATGTGAAGATACAAGACACAAATGTAAC
TCTGAGGACAAAAAGTTTCATGAGACCCCTTGAACAGCGGCTGCTTGTAACCTGAACCTGATGCGGCTCTTAGGTCTCT
AGCCAGGAGAGGGAGATACCTCCACTGCTGGGGCTGGAGAAAGCGGACCTTCTGGAACTCATGCCACTCACAGAG
GATTTTGTGTGGATGAGGGCTCGGCTACAGCAAGAAGTAGAGGAGCAGCTCAAAAAGAAATGTTTCACTCTGCTC
TGCTACTATGATCCCAATTCAGATGCTGACAGTGAAACCGTGAAGGCAGCAAAGGTGTGGAACTCGCAGAGGTC
CTGGTGGGTGAGCAGCAGCAGTGCCAGGATGCCAAGAGCCAGCAGAAGGAGCAGATGTTGCTGCTGGAGAAGAAG
AGTGCTGCTTACTCCCAGGTGCTTCTCCGCTGCCTCACTTTGCTGCAGAGGCTTCTTCAAGAACACCGGCTGAAG
ACTCAATCCGAGCTAGACCGCATCAATGCCAGTACCTGGAAGTCAAGTGCGGTGCTATGATCCTTAAGCTGAGG
ATGGAGGAGCTAAAGATTTTGTCCGACACTTACACTGTTGAGAAAGTGAAGTTCATCGTCTGATTAGGGACCGT
TTGGAGGGAGCCATTACCTACAGGAGCAGGACATGGAGAACTCAAGACAGGTCCTGAACTCCTATGAGGTCCTT
GGGGAGGAGTTTGACAGGCTGGTGAAAGAGTACACCGTACTCAAGCAGGCAACAGAGAACAAGCGGTGGGCCCTC
CAGGAGTTCAGCAAGGTCTACCGT**TGAG**CTCTGGCAGGGCCAGGAGACATGGCTTCTGCATAGCTGCTGCCTCCT
AATCTTCCTGCTAGTGGGACCACCTTCACCTGGGGCTGCCTTCAGTGCAAGGGAGTGTTGGAATGCTTACGCTTG
AAACACTGCAGTCATTTAGGCACTCTCCTGGTTTCTCTTTATTTTTTATGACTGGGCCTCTTCTGGAAAATCTAG
CAAGGAGATTTATATAATTTTTATGCATAGCTGTGTGTCAGTGTGAGCCCTGTATTGTATTGATTATCTCCTGA
ATAAAGTTATGATATTATATCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3972

MASGDFCSPGEGMEILQQVCSKQLPPCNLSKEDLLQNPYFSKLLLNLSQHVDSEGLSLTLAKEQAQAWKEVRLHK
TTWLRSEILHRVIEQLLDYVVKIQDTNVTSEDKKFHETLEQRLLVTELMRLLGPSQEREIPPLLGLEKADLLEL
MPLTEDFVWMRARLQQEVEEQLKKKCFLLCYDPNSDADSETVKAQVWKLAEVLVGEQQQCQDAKSQQKEQML
LLEKKSAAYSQVLLRCLTLLQRLLQEHRLKTQSELDRIINAQYLEVKCGAMILKLRMEELKILSDTYTVEKVEVHR
LIRDRLEGAIHLQEQDMENSRQVLNSYEVLGEEFDRLVKEYTVLKQATENKRWALQEFKVVYR

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FIGURE 3973

GCGACTCGTCCCGCCTTCTGCGGGCACTAGTTTGACTTTGTGATTGGCTACTAGTATCAAGGAATCCCGGCGTGGA
CAGCGCGAGGAGAAAG**ATG**GCGGCGATGGCGGTGCGGGGTGCTGGTGGGAGCCGCGTGTCCAGCGGGAGGGACCT
GAATTGCGTCCCCGAAATAGCTGACACACTAGGGGCTGTGGCCAAGCAGGGGTTTGATTTCCTCTGCATGCCTGT
CTTCCATCCGCGTTTCAAGAGGGAGTTCATTTCAGGAACCTGCTAAGAATCGGCCCCGGTCCCCAGACACGATCAGA
CCTACTGCTGTCAGGAAGGGACTGGAATACGCTAATTGTGGGAAAGCTTCTCCATGGATTTCGTCCAGACTCAAA
AGTGGAGAAGATTTCGAGGAACCTCCGAGGCGGCCATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCC
AGCTTTCCTGCTGCCCCCTTAATCAGGAAGATAACACCAACCTGGCCAGAGTTTGGACCAACCACATCCACACTGG
CCATCACTCTTCCATGTTCTGGATGCGGGTACCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAA
TGCACCAACTACACACACAGAGGAGTACAGTGGGGAGGAGAAAACGTGGATGTGGTGGCACAACCTTCCGGACTTT
GTGTGACTATAGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTCAATTGATCG
CTGGCTTGGGGAGCCCATCAAAGCAGCCATTCTCCCCACTAGCATTTTCTGACCAATAAGAAGGGATTTCTGT
TCTTTCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATCACAGGCACCAA
CCACCACTCAGAGAAGGAGTTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAACCCTCCACCTAA
TGCCTATGAACCTTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATGGACAATCTGGA
ATCTCAGACATATGAAGTGTGTTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATGTCT
GCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGTGGGAGCAGGACGGGGACC
CCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGGCGGATAAAGCTGTATGCTGTGGAGAAAAACCC
AAATGCCGTGGTGACGCTAGAGAACTGGCAGTTTGAAGAATGGGGAAGCCAAGTGACCGTAGTCTCATCAGACAT
GAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTGAGTGAGCTTCTGGGCTCATTTGCTGACAATGAATT
GTCGCTGAGTGCCTGGATGGAGCCCAGCACTTCCTAAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTC
CTTCTGGCTCCCATCTCTTCCCTCCAAGCTGTACAATGAGGTCCGAGCCTGTAGGGAGAAGGACCGTGACCCTGA
GGCCCAGTTTGAGATGCCTTATGTGGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCCAGCCCTGTTTCAC
CTTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGAATTTCTGTGGAGGTGAA
CACAGTACTACATGGCTTTGCCGGCTACTTTGAGACTGTGCTTTATCAGGACATCACTCTGAGTATCCGTCCAGA
GACTCACTCTCCTGGGATGTTCTCATGGTTTCCCATCCTCTTCCCTATTAAGCAGCCCATAACGGTACGTGAAGG
CCAAACCATCTGTGTGCGTTTCTGGCGATGCAGCAATTCCAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACC
AGTCTGTTCTGCTATTCTATAACCCACAGGCCGCTCATATACCATTGGCCTCT**TAG**CCCTGCGTGCCAAGTGTCCA
GAGCCTTGAAGCAGCTTCAGGTTCTGCTCCTGTAGTACAGAAGGTGCAGTACATCTATGGGCTGTGATTCCCC
CTTGCCCATCAGAGAGGAGCATTTCAATCTGCTTTCTGCTTACATCAAGGTGGGCAAGGGATTATAATTAATT
GCAGGGCTCAAGCCACCAATCTATGAAGACCTCAGGCCAGGGGGTGAGGAATTAGTGCTGGATTTGAAGCTACGC
ACTCAGCCTCAAGAACTCCCTGGAATATCCCTGAGAACATGGGGTTTGAACGGATTTTCAGCCTTTTTCTGTTCT
TGTTTTGATGGTTTTGTGTAAGAGGAAATACCAATAAAGTTATAGCCCTTTACTGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 3974

MAAMAVGGAGGSRVSSGRDLNCVPEIADTLGAVAKQGDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSDLLLSG
RDWNTLIVGKLSPWIRPDSKVEKIRRNSEAAMLQELNFGAYLGLPAFLLPLNQEDNTNLARVLTNHIHTGHHSSM
FWMRVPLVAPEDLRDDI IENAPTHHTEEYSGEEKTWMMWWHNFRTLCDYSKRIAAVALEIGADLP SNHVIDRWLGEP
IKAAILPTSIFLTNKKGFPVLSKMHQRLIFRLLKLEVQFIITGTNNHSEKEFC SYLQYLEYLSQNRPPPNAYELF
AKGYEDYLQSPLQPLMDNLESQTYEVFEKDPIKYSQYQQAIYKCLLDRVPEEEKDTNVQVLMVLGAGRGPLVNAS
LRAAKQADRRIKLYAVEKNPNAVVTLENWQFEWGSQVTVVSSDMREWVAPEKADIIVSELLGSFADNELSPECL
DGAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVVR LHNFHQLSAPQPCFTTSHPN
RDP MIDNNRYCTLEFPVEVNTVLHGFAGYFETVLYQDITLSIRPETHSPGMFSWFPILFP IKQPITVREGQTICV
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

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FIGURE 3975

GGTTCTGGAAGACGGCAGAGCTGCCGCCATTTTGC GGGAAGAGGAGGCTCTGTACCTGCAGTGCTGCTTTTCTTG
CCTAGACTCTAGGAACTATCCGAGCTCCACTCCCCACAACATACTCAAAGGAACGGAGAGAACC GGGGACCCCCCT
GCGGGGACCCGGAAC TGATCTGACAGGATGGCATCTGATGACTTTGACATAGTGATTGAGGCCATGCTGGAAGCT
CCCTATAAAAAAGAAGAGGATGAGCAACAAAGGAAAGAAGTTAAAAAGGATTATCCTAGCAATACCACCAGCAGC
ACCAGCAACAGTGGCAATGAGACCAGTGGGAAGCAGCACCATCGGGGAGACAAGCAATCGTAGTCGAGATCGGGAT
CGGTATAGACGGAGAAATAGTCGGAGCCGAAGTCCAGGTCCGGCAGTGTCGTCACCGTAGCCGTAGCTGGGATCGT
CGACATGGTAGTGAGTCGCGAAGTCGGGACCATCGTTCGTGAGGATCGTGTGCATTACAGGAGTCCTCCACTTGCC
ACTGGTTATAGGTATGGACACAGTAAGAGTCCTCATTTTCAGAGAGAAGAGCCCAGTCAGGGAGCCAGTTGATAAT
CTGAGTCCTGAGGAGCGTGATGCCCGCACAGTTTTTCTGTATGCAGTTAGCTGCCCCGAATTCGGCCTCGAGATCTG
GAGGACTTTTTTCTCTGCTGTAGGCAAGGTTTCGCGATGTACGTATCATCTCAGATCGGAAC TCACGTCGTTCTAAG
GGCATTGCCTACGTGGAATTCTGTGAAATCCAGTCTGTGCCACTGGCCATTGGGCTGACTGGGCAGCGGTTGCTG
GGAGTGCCTATCATTGTACAGGCTTCACAGGCAGAGAAAAACCGACTGGCAGCCATGGCCAACAACCTGCAAAAAG
GGCAATGGTGGACCAATGCGCCTCTATGTGGGTTCCCTGCAC TTCAATATCACTGAAGACATGCTCCGGGGCATC
TTTGAGCCCTTTGGTAAAATTGATAATATTGTCTGTATGAAGGACTCAGATACAGGCCGCTCTAAAGGTTATGGT
TTCATCACGTTCTCTGATTCTGAGTGTGCCCGGCGGGCCCTGGAACAGTTGAATGGGTTTGAGCTTGCTGGTCTGA
CCTATGAGGGTTGGCCATGTGACTGAGCGACTGGATGGTGGCACAGACATCACTTTTCCTGATGGGGACCAGGAG
CTGGATCTGGGATCAGCAGGTGGACGTTTTTCAGCTCATGGCAAAACTGGCAGAAGGCGCTGGAATCCAAC TGCCA
AGCACTGCTGCTGCTGCTGCTGCCGCCGCCGCCAGGCTGCTGCCTTGCAACTGAATGGAGCAGTTCCCTTGGGG
GCCCTGAATCCAGCAGCTCTGACTGCTCTGAGTCCAGCCCTGAACCTTGCCCTCCAGTGTTTTCCAGCTCTCCAGC
CTCTTTACCCCCCAGACCATGTAAATCAGTGGCACAGTATACTGCCTCCTTGTCCTCTGGATCCTGCCACTTCA
CATCTACTCTTCCATGGCCCCATTTCTCCATTTTGTGGACCAAGCCATCCTGAGGGCATGGACATTGTCTCTGAG
GAAATTGGGGCCACCCTTAAGATACCAAGAAAAGCTCCTGCCCATGGTCCCACTGGAAATGGACTCTGCTGAGCA
AAGCCACCAGTTGAAGAGAACAGAATCCACACCTGCATTGAATACCTGTTTCTCCATGTGTATCGTCTCTGAGAT
TACCTTCTTGCCCTTTCCAACACCTTAGTGATTCTCAATTTCTCCCCCATGGGAAGGCCATAGGGCATACTGA
AGGAAGTACCTCTCTCCTTTTCTGTACCTTTAACCTTTAGTCTGTCAAGGAAAACCCTTAGGACCTCTGAATC
AAGAGGACTGAGTTTGTGGGTGAACCTTGAAGGTGCTCTTTCTGCTACAAGGGCCCTGGGAGATAGCATGGACGT
GCATTGAGAAGCCAGCCTCAGACCTTAGCTTGAAGCAGCTTGAGGCCAGACCTACTGTAGCCTCAGCATCTTGCT
AGGAGGCATGGAAGTGATCTATCCTGCCAGGAGGCCTCAGAGTGATCTGTCCTGCCAGGAGGTGTGAGAGTGATC
TGTCTGTGAGGCATTTAGGGGGCTTTCAGGAATTTAGTAAAAGGTGGAGTATGCCTTTCCAGTATCTTCCATCTT
CCTTTGTATACTTGTCTTCCCTCCCATTTCCCTCCCTTTGGCCCCGAGGTAGGAGGATGGAGGGAGGCTGCTACTCT
ACCACTTCCTGTGTGCCTCTACTGTGGCCTCAACCCTGGCAATTATAGCTACTCCCATCCCTTACCTGGGCATGT
GTGAGCCCTTCTCACTGGATTTTATACCCTTGTGTCTGTGTACATAAATATATATACATATATATATACATAAAA
ACTTTGTAC

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FIGURE 3976

CAGACCCCAGTTTCGCCGACTAAGCAGAAGAAAGATCAAAAACCGGAAAAGAGGAGAAGAGCAAACAGGCACCTTG
AGGAACAATCCCCTTTAACTCCAAGCCGACAGCGGTCTAGGAATTCAAGTTCAGTGCCTACCGAAGACAAAGGCG
CCCCGAGGGAGTGGCGGTGCGACCCAGGGCGTGGGCCCGGCCGCGGAGCCACACTGCCCGGCTGACCCGGTGG
TCTCGGACC**ATG**TCTCCC GCCCAAGACCCCCCGTTGTCTCCTGCTCCCCCTGCTCACGCTCGGCACCGCGCTC
GCCTCCCTCGGCTCGGCCCAAAGCAGCAGCTTCAGCCCCGAAGCCTGGCTACAGCAATATGGCTACCTGCCTCCC
GGGACCTACGTACCCACACACAGCGCTCACCCAGTCACTCTCAGCGGCCATCGCTGCCATGCAGAAGTTTTAC
GGCTTGCAAGTAACAGGCAAAGCTGATGCAGACACCATGAAGGCCATGAGGCGCCCCCGATGTGGTGTTCAGAC
AAGTTTGGGGCTGAGATCAAGGCCAATGTTTGAAGGAAGCGCTACGCCATCCAGGGTCTCAAATGGCAACATAAT
GAAATCACTTTCTGCATCCAGAATTACACCCCAAGGTGGGCGAGTATGCCACATACGAGGCCATTTCGCAAGGCG
TTCCGCGTGTGGGAGAGTGCCACACCCTGCGCTTCCGCGAGGTGCCCTATGCCTACATCCGTGAGGGCCATGAG
AAGCAGGCCGACATCATGATCTTCTTTGCCGAGGGCTTCCATGGCGACAGCACGCCCTTCGATGGTGAGGGCGGC
TTCTGGGCCATGCCTACTTCCCAGGCCCAACATTGGAGGAGACACCCACTTTGACTCTGCCGAGCCTTGGACT
GTCAGGAATGAGGATCTGAATGGAAATGACATCTTCTGGTGGCTGTGCACGAGCTGGGCCATGCCCTGGGGCTC
GAGCATTCAGTGACCCCTCGGCCATCATGGCACCCCTTTTACCAGTGATGGACACGGAGAATTTTGTGTGCC
GATGATGACCGCCGGGGCATCCAGCAACTTTATGGGGGTGAGTCAGGGTTCCCACCAAGATGCCCCCTCAACCC
AGGACTACCTCCCGGCCTTCTGTTCCTGATAAACCCAAAACCCACCTATGGGCCCAACATCTGTGACGGGAAC
TTTGACACCGTGGCCATGCTCCGAGGGGAGATGTTTGTCTTCAAGGAGCGCTGGTTCTGGCGGGTGAGGAATAAC
CAAGTGATGGATGGATAACCAATGCCATTGGCCAGTTCTGGCGGGGCTGCCTGCGTCCATCAACACTGCCTAC
GAGAGGAAGGATGGCAAATTCGTCTTCTTCAAAGGAGACAAGCATTGGGTGTTTGATGAGGCGTCCCTGGAACCT
GGCTACCCCAAGCACATTAAGGAGCTGGGCCGAGGGCTGCCTACCGACAAGATTGATGCTGCTCTCTTCTGGATG
CCCAATGGAAAGACCTACTTCTTCCGTGGAACAAGTACTACCGTTTCAACGAAGAGCTCAGGGCAGTGGATAGC
GAGTACCCCAAGAACATCAAAGTCTGGGAAGGGATCCCTGAGTCTCCAGAGGGTCATTATGGGCAGCGATGAA
GTCTTCACTTACTTCTACAAGGGGAACAATACTGGAAATTCAACAACCAGAAGCTGAAGGTAGAACC GGCTAC
CCCAAGTCAGCCCTGAGGGACTGGATGGGCTGCCATCGGGAGGCCGCGCGGATGAGGGGACTGAGGAGGAGACG
GAGGTGATCATCATTGAGGTGGACGAGGAGGGCGGCGGGCGGTGAGCGCGGTGCCGTGGTGCTGCCCGTGCTG
CTGCTGCTCCTGGTGCTGGCGGTGGGCCTTGCACTTCTTCTTTCAGACGCCATGGGACCCCCAGGCGACTGCTC
TACTGCCAGCGTTCCCTGCTGGACAAGGTCT**TGAC**CGCCACCGCCGCGCCCGCCACTCCTACCACAAGGACTTTGC
CTCTGAAGGCCAGTGGCAGCAGGTGGTGGTGGTGGGCTGCTCCCATCGTCCCGAGCCCCCTCCCGCAGCCTCC
TTGCTTCTCTCTGTCCCTGGCTGGCCTCCTTACCCTGACCGCTCCCTCCCTCCTGCCCGGCATTGCATCTT
CCCTAGATAGGTCCCTGAGGGCTGAGTGGGAGGGCGGCCCTTTCCAGCCTCTGCCCTCAGGGGAACCCTGTAG
CTTTGTGTCTGTCCAGCCCCATCTGAATGTGTTGGGGGCTCTGCACTTGAAGGCAGGACCCTCAGACCTCGCTGG
TAAAGGTCAAATGGGGTCACTGTCTCCTTTTCCATCCCTGACATACCTTAACCTCTGAACCTCTGACCTCAGGAG
GCTCTGGGCACTCCAGCCCTGAAAAGCCCCAGGTGTACCCAATTGGCAGCCTCTCACTACTCTTTCTGGCTAAAAG
GAATCTAATCTTGTTGAGGGTAGAGACCCTGAGACAGTGTGAGGGGGTGGGGACTGCCAAGCCACCCTAAGACCT
TGGGAGGAAAACCTCAGAGAGGGTCTTCGTTGCTCAGTCAGTCAAGTTCCTCGAGATCTGCCTCTGCCTCACCTA
CCCCAGGGAACCTCCAAGGAAGGAGCCTGAGCCACTGGGGACTAAGTGGGCAGAAGAAACCCTTGGCAGCCCTGT
GCCTCTCGAATGTTAGCCTTGATGGGGCTTTCACAGTTAGAAGAGCTGAAACCAGGGGTGCAGCTGTGAGGTAG
GGTGGGGCCGGTGGGAGAGGCCCGGGTCAGAGCCCTGGGGGTGAGCCTGAAGGCCACAGAGAAAGAACCTTGCCC
AAACTCAGGCAGCTGGGGCTGAGGCCCAAAGGCAGAACAGCCAGAGGGGGCAGGAGGGGACCAAAAAGGAAAATG
AGGACGTGCAGCAGCATTGGAAGGCTGGGGCCGGGCAGGCCAGGCCAAGCCAAGCAGGGGGCCACAGGGTGGGCT
GTGGAGCTCTCAGGAAGGGCCCTGAGGAAGGCACACTTGCTCCTGTTGGTCCCTGTCCTTGCTGCCAGGCAGCG
TGGAGGGGAAGGGTAGGGCAGCCAGAGAAAGGAGCAGAGAAGGCACACAAACGAGGAATGAGGGGCTTCACGAGA
GGCCACAGGGCCTGGCTGGCCACGCTGTCCCGCCTGCTCACCATCTCAGTGAGGGGCAGGAGCTGGGGCTCGCT
TAGGCTGGGTCCACGCTTCCCTGGTGCCAGCACCCCTCAAGCCTGTCTCACCAGTGGCCTGCCCTCTCGCTCCCC
CACCCAGCCACCCATTGAAGTCTCCTTGGGCCACCAAAGGTGGTGGCCATGGTACCGGGGACTTGGGAGAGTGA
GACCCAGTGGAGGGAGCAAGAGGAGAGGGATGTCCGGGGGGTGGGGCACGGGGTAGGGGAAATGGGGTGAACGGT
GCTGGCAGTTCCGGCTAGATTTCTGTCTTGTGTTTTTTGTTTTGTTTAAATGTATATTTTTTATTATAATTATTA
TATATGAATTCCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3977

MSPAPRPPRCLLLPLLLTLGTALASLGSASSSFSPAWLQQYGYLPPGDLRHTHTQRSPQSLSAATIAAMQKFYGLQ
VTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKRYAIQGLKWOHNEITFCIQNYTPKVGEYATYEAIRKAFRV
WESATPLRFREVPYAYIREGHEKQADIMIFFAEGFHGDSTPFDEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRN
EDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQQLYGGESGFPTKMPPQPRTT
SRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVFKERWFWVRNNQVMDGYPMPIGQFWRGLPASINTAYERK
DGKFVFFKGDKHVWFDEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGNKYYRFNEELRAVDSEYP
KNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFNQKLKVEPGYPKSALRDWMGCPSGGRPDEGTEETEVI
IIEVDEEGGGAVSAAAVVLPVLLLLLVLAAGLAVFFFRRHGTPRRLLYCQRSLLDKV

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FIGURE 3978

TCCTGCTCAGC**ATG**GCTGCTTTAGGGACTGTTCTCTTCACAGGTGTCCGGAGGCTGCACTGCAGCGTAGCCGCTT
GGGCGGGCGGCCAGTGGCGACTACAGCAGGGACTGGCTGCCAACCCTCCGGCTACGGGCCCCCTTACCGAGCTCC
CAGACTGGTCATATGCGGATGGCCGCCCTGCTCCCCCAATGAAAGGCCAGCTTCGAAGAAAAGCTGAAAGGGAGA
CGTTTGCAAGACGAGTTGTACTGCTGTCACAGGAAATGGACGCTGGATTACAAGCATGGCAGCTCAGGCAGCAGA
AGTTGCAGGAAGAACAAGGAAGCAGGAAAATGCTCTTAAACCCAAAGGGGCTTCACTGAAGAGCCCACTTCCAA
GTCAAT**TAAAA**AGCAACTCCTGCCTCCCTTCCTCACCCCTGTCTCTGGATTTCTTTTCTATCACCTAGATGCTTCAT
CCAGCCAGAAGATAGCCTTCACGTTCCCATCTGTCTTCAGAGAAAAAGAGCTGGGACACCAAGAACAAGCTGTT
AGATCACTGCCTGGGAGGCTTGGCTTAGTACTCTCATCTCTGGTTCCATTCCAGTTCAGCTAAGTCTTGCTTTAA
AATTTTTACCTCCTAGCTGGGTGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGAT
CACAAGATCAGGAGTTCGAGACCAGCCTGGCCAACCCAGCCTGGTCAACATGGTGAAACCCTGTCCCTACTAAAG
ATACAAACAATTAGCCGGGCGTGGTGGGGTGCGCTTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCG
CTTAAACTCGGGAGGTAGAGGTTGCAGTGAGCCAAGGTCACACCATTCGACTCCAACCTGGGCGACAGGGCGAGA
CTCCGTCTCAAAAAAAAAAAAAAAAAATTTACCTCCTTTGCAGGCCATAGGACTAGCCCAACTATGAGAAATAGCTGT
TCTGTGAACGTGAAAAGGGGACAGCAGTTTTTCCAGTTTTGGCCAGGCAGTCAAGCCTTTAACAGCTCATGCACA
GTTTAGGCCATGTACAGCTGGCATCTAATAAATGTTTTTCATGAAAAAGA

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FIGURE 3979

MAALGTVLFTGVRRLHCSVAAWAGGQWRLQQGLAANPSGYGPLTELDPWSYADGRPAPPMKGQLRRKAERETFAR
RVVLLSQEMDAGLQAWQLRQQKLQEEQRKQENALKPKGASLKSPLPSQ

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FIGURE 3980

AGCTGTTGCAGCATGAGCGATACGCTTGGTTCTCCTAACTAGCACCTTCCCCTCTCCCCTGACTCAGCTGGTAGC
CCCTCCTCCCCGCACCTGCCCAAAGGTCAGTGGACAGGCATTTGTCTGGCCTTCCCTTTTACTGCTGGCTGGGAA
GGAGGAGCATCAGACCACAGATCCTGGAAGGCAATGCCAGGAAGCTGGTGAAGGGTTTCCTCTCCTCCACCATGGTTGACAGCAC
TTATATCCAGGACCAAGGAGGCAATGCCAGGAAGCTGGTGAAGGGTTTCCTCTCCTCCACCATGGTTGACAGCAC
TGAGTATGAAGTGGCCTCCCAGCCTGAGGTGGAAACCTCCCCTTTGGGTGATGGGGCCAGCCCAGGGCCGGAGCA
GGTGAAGCTGAAGAAGGAGATCTCACTGCTTAACGGCGTGTGCCTGATTGTGGGGAACATGATCGGCTCGGGCAT
CTTTGTTTCCCCCAAGGGTGTGCTCATATACAGTGCCTCCTTTGGTCTCTCTCTGGTCACTCGGGCTGTGCGGGG
CCTCTTCTCCGTCTTTGGGGCCCTTTGTTATGCGGAACTGGGCACCACCATTAAAGAAATCTGGGGCCAGCTATGC
CTATATCCTGGAGGCCTTTGGAGGATTCCCTTGCTTTTCATCAGACTCTGGACCTCCCTGCTCATCATTGAGCCAC
CAGCCAGGCCATCATTGCCATCACCTTTGCCAACTACATGGTACAGCCTCTCTTCCCGAGCTGCTTCGCCCCCTTA
TGCTGCCAGCCGCTGCTGGCTGCTGCCTGCATTTGTCTCTTAAACCTTCATTAACTGTGCCTATGTCAAATGGGG
AACCCTGGTACAAGATATTTTACCTATGCTAAAGTATTGGCACTGATCGCGTTCATCGTTGCAGGCATTGTTAG
ACTTGGCCAGGGAGCCTCTACTCATTTTGAAGAATTCCTTTGAGGGTTCATCATTTGCAGTGGGTGACATTGCCCT
GGCACTGTACTCAGCTCTGTTCTCCTACTCAGGCTGGGACACCCTCAACTATGTCACTGAAGAGATCAAGAATCC
TGAGAGGAACCTGCCCCCTCTCCATTGGCATCTCCATGCCCATTGTCACCATCATCTATATCTTGACCAATGTGGC
CTATTATACTGTGCTAGACATGAGAGACATCTTGGCCAGTGATGCTGTTGCTGTGACTTTTGCAGATCAGATATT
TGGAATATTTAACTGGATAATTCCACTGTCAGTTGCATTATCCTGTTTTGGTGGCCTCAATGCCTCCATTGTGGC
TGCTTCTAGGCTTTTCTTTGTGGGCTCAAGAGAAGGCCATCTCCCTGATGCCATCTGCATGATCCATGTTGAGCG
GTTACACACAGTGCCTTCTCTGCTCTTCAATGGTATCATGGCATTGATCTACTTGTGCGTGGAAGACATCTTCCA
GCTCATTAATACTACTACAGCTTCAGCTACTGGTTCTTTGTGGGGCTTTCTATTGTGGGTGAGCTTTATCTGCGCTG
GAAGGAGCCTGATCGACCTCGTCCCCTCAAGCTCAGCGTTTTCTTCCCGATTGTCTTCTGCCTCTGCACCATCTT
CCTGGTGGCTGTTCCACTTTACAGTGATACTATCAACTCCCTCATCGGCATTGCCATTGCCCTCTCAGGCCTGCC
CTTTTACTTCCCTCATCATCAGAGTGCCAGAACATAAGCGACCGCTTTACCTCCGAAGGATCGTGGGGTCTGCCAC
AAGGTACCTCCAGGTCCTGTGTATGTCAGTTGCTGCAGAAATGGATTTGGAAGATGGAGGAGAGATGCCCAAGCA
ACGGGATCCCAAATCTAACTAAACACCATCTGGAATCCTGATGTGGAAAGCAGGGGTTTCTGGTCTACTGGCTAG
AGCTAAGGAAGTTGAAAAGGAAAGCTCACTTCTTTGGAGGCACCTGTCCAGAAAGCCTGGCCTAGGCAGCTTCAAC
CTTTGAACTTACTTTTTGAAATGAAAAGTAATTTATTTGTTTTGCTACATACTGTTCCAGACTTTTAAAGGGGAC
AATGAAGGTGACTGTGGGGAGGAGCATGTCAGGTTTGGGCTTGGTTGTTTTAGAAGCACCTGGGTGTGCCTACCT
ACTCCTCTTTTCTTTTAAAGGGCCCAATGCTCCAATTTCTGTCTCCTTTAGAGAGACATGAACTATCACA
GGTGTGGATGACAATAAAAGTTTATGTTTCCT

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FIGURE 3981

ATGGTAACGTGGCTTTACAGATTTTACCCACTTCAAATATGGCCGCCAAGCTCCGTTCTCTTTTACCGCCTGAT
CTACGGCTACAATTCTGGCTTCATGCCCCGCTCCAAAAGTGCTTCCTCTCGAGGGGTTGTGGTTCTTACTGCGCA
GGCGCAAAAGCAAGTCCTCTTCCGGGCAAAATGGCGATGGGACTAATGTGCGGACGCCGGGAGCTTCTGCGCTTG
CTACAGTCCGGGCGTCGGGTCCACAGCGTCGCAGGGCCCTCGCAATGGCTTGGGAAACCGCTGACCACACGGCTC
CTATTCCCAGTAGCCCCGTGCTGCTGTCGCCCACACTACCTCTTCCTTGCGGGCTTCCGGCCCCCGCAGCCTCAGT
ACCTCTGCTATCTCTTTTGCAGAAGTCCAGGTTTCAGGCCCCCTCCTGTTGTTGCTGCAACTCCCTCACCCACAGCA
GTACCTGAGGTGGCTTCTGGAGAGACTGCAGATGTAGTCCAAACTGCTGCAGAGCAGAGCTTCGCTGAACTGGGG
CTGGGGTGCATACACCCAGTGGGACTGATCCAGAATTTACTGGAAATTTATGCATGTTGATCTGGGCCTACCTTGG
TGGGGGGCCATTGCTGCATGTACAGTCTTTGCCCGCTGCCTGATTTTTCTCTCATCGTGACGGGCCAGCGAGAG
GCAGCCAGGATCCACAATCACTTGCCAGAGATCCAGAAGTTTTCCAGTCGAATCAGAGAGGCCAAGTTAGCAGGA
GACCATATTGAGTATTACAAGGCTTCCTCGGAGATGGCACTTTACCAGAAAAAACATGGTATTAACTCTATAAA
CCTCTCATTCTCCCTGTGACTCAGGCCCAATCTTCATCTCCTTCTTCATTGCTTTGAGAGAGATGGCCAACCTT
CCTGTGCCCAGCCTGCAGACAGGTGGCCTCTGGTGGTTCCAGGATCTCACGGTATCCGATCCCATCTACATATTA
CCACTGGCAGTCACTGCTACAATGTGGGCTGTTCTTGAGCTAGGTGCTGAGACAGGTGTGCAAAGTTCTGACCTT
CAGTGGATGAGAAATGTCATCAGAATGATGCCCCCTGATAACCTTGCCCATACCATGCATTTCCCCACGGCAGTG
TTTATGTACTGGCTCTCCTCCAATTTGTTTTCCCTGGTCCAAGTATCCTGTCTCCGGATTCCAGCAGTACGCACT
GTACTTAAATCCCCCAGCGTGTGTACATGACCTGGACAAATTACCTCCACGGGAAGGCTTCCTAGAGAGCTTC
AAAAAAGGCTGGAAAAATGCTGAAATGACGCGTCAGCTGCGAGAGCGTGAACAACGCATGCGGAATCAGTTGGAG
CTAGCAGCCAGGGGTCTTTACGACAGACCTTTACCCACAACCCTCTCCTACAACCTGGAAAGGATAACCCTCCC
AATATCCCTAGCAGCAGCAGCAAACCAAAGTCAAAGTATCCCTGGCACGACACACTTGGCTGA

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FIGURE 3982

MVTWLYRFLPTS NMAAKLRSLPPDLRLQFWLHARLQKCFLSRGCSYCAGAKASPLPGKMAMGLMCGRRELLRL
LQSGRRVHSVAGPSQWL GKPLTTRLLFPVAPCCCRPHYLFLAASGPRSLSTS AISFAEVQVQAPPVVAATPSPTA
VPEVASGETADVQTAAEQSFAELGLGSYTPVGLIQNLLEFMHVDLGLPWWGAIAACTVFARCLIFPLIVTGORE
AARIHNHLPEIQKFSSRIREAKLAGDHIEYYKASSEMALYQKKHGIKLYKPLILPVTQAPIFISFFIALREMANL
PVPSLQTGGLWWFQDLTVSDPIYILPLAVTATMWAVLELGAETGVQSSDLQWMRNVIRMMPLITLPITMHFPTAV
FMYWLSSNLFSLVQVSCLRIPAVRTVLKIPQRVVHDLDKLPPREGFLESFKKGWKN AEMTRQLREREQMRNQLE
LAARGPLRQTFTHNPLLQPGKDNPPNIPSSSSKPKSKYPWHDTLG

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FIGURE 3983

CTCCCGGGTCAGCTGGTGCTGGCGTCAGGCGCTGGGCGGGCTCGCCAGGACCTGGCAAGGCTTGTTTACTATGGC
CGATGATCTGGAGCAGCAGTCTCAAGGCTGGCTGAGTAGCTGGCTGCCCACGTGGCGCCCCACTTCCATGTCTCA
GCTGAAGAATGTGGAAGCCAGGATCCTCCAGTGTCTCCAGAATAAGTTCTTGCCAGATATGTATCCCTCCCCAA
CCAGAATAAGATCTGGACGGTGACTGTGAGCCCCGAGCAAAACGACCGCACCCCCCTTGGTGATGGTGCATGGTTT
TGGGGGCGGCGTGGGTCTCTGGATCCTCAACATGGACTCACTGAGTGCCCGCCGCACACTGCACACCTTCGATCT
GCTTGGCTTCGGGCGAAGCTCAAGGCCAGCATTCCCAAGGGACCCGGAGGGGGCTGAGGATGAGTTTGTGACATC
GATAGAGACATGGCGGGGAGACCATGGGGATCCCCAGCATGATCCTCCTGGGGCACAGTTTGGGAGGATTCTTGGC
CACTTCTTACTCAATCAAGTACCCCTGATAGAGTTAAACACCTCATCCTGGTGAGCCATGGGGCTTTCCCCCTCCG
ACCAACTAACCCAGTGAGATCCGTGCACCCCCAGCCTGGGTCAAAGCCGTGGCATCTGTCCTAGGACGTTCCAA
TCCATTGGCTGTTCTTCGAGTAGCTGGGCCCTGGGGGCTGGTCTGGTGACGATTCCGGCCGGACTTCAAACG
CAAGTTTGACAGACTTCTTTGAAGATGATACCATATCAGAGTATATTTACCACTGCAACGCACAGAATCCCAGTGG
TGAGACAGCATTCAAAGCCATGATGGAGTCCTTTGGCTGGGCCCCGGCGCCCTATGCTGGAGCGAATTCATTGAT
TCGAAAAGATGTGCCTATCACTATGATCTACGGGTCCGACACCTGGATAGATACCAGTACGGGAAAAAAGGTGAA
GATGCAGCGGCCGGATTCTATGTCCGAGACATGGAGATTAAGGGTGCTCCCACCATGTCTATGCTGACCAGCC
ACACATCTTCAATGCTGTGGTGGAGGAGATCTGCGACTCAGTTGATTGAGCTGCTCTCTGAAGAGGAAGAGGAGA
AAGCCAGAGAGTCACTCTTACCTCCCTGTCTGCTTACTCACCCACTCTGTCTTTTCTCACCACCTAACATGTGC
CAGCCAGGCAGAGTCTTGTGCTGTTCCAGAACAGGACGACAGTGAAAAGAACACTCTTGACCCTACACTGAAGG
CTGAAGGCAGAAGCCACAAGAGGCCCTTGAGTGCCACCCCCAGGGAAGAACATAAAGGGTTGCACAATGCCACCCA
TCCACTCCTTGCCAAGTGTTACCCAGATGGTGGAGGATGTGAAGGGATTGCACCAAGCCACATTCACTCTCTCTG
TGGCCTTTCTTCTCTGGGCAAAGAAGGGCTTCCAGTGGCCTTTCTCACTCTGTAGTGTTTGTGGGGATAGGTT
CCATGCAAGAACACCTTCTCTCCATCCCCCACTTACCCCATCCCATACCAAGTTCCATCCAGGGTCTGCTTAA
CTGCCAAGAGCAGGTCTTGAGTTCCCTTACCTGCAGAGTCCTTTTCATGACCTAGGAGGTCTTATTCAAAGCC
CTCATTGACAGAGGAGGAAAACAGGCCAAGGCAGGACATGGCTGGACCATGGTGATACAGCTCTGTGTGATTCAAG
TTCTGGCAGAGCTTGTAAGGCTAGAGCCCAGGTCTGCCGACACCCCTGTGCTTGTTGCACACTTGATTTGCTAAGG
CTGGAGACAGGCACCATTGCCATGGGGCTGGTCTAGTCACTGGCCGAGGATAAGCCCGTCCCTGTCCACATTC
TAGCCCCACTATGCGGGGGTGCTGTTGTCTGCTGTCTCATCCCCAGCTGCCTAAGCTAGGGACACTCAAGT
GCTTCCTTCTTGGCCCCATCTTCTCCCACTGGAGGCCTCTGAGCCTCCCCTGTGCCTTGGGCCCTGAAGCCCC
ATATGTAGTATAGAGCAAAGGTGGCTCCTGGTGAAGAGAGGGTGGAAAAGGCCCTTCAGCCCCAGGGCCATGTCTG
GGTTCTCCATGCCCATCAGTCTCTGCAGTTTCTCTACCTGCCCCCAGAGCTGAGGCCATCTGCAAGCCCCCTGCC
ATGGCCCAATGGGGAGCCTCCAGCCACAAGTTCCCTGTCTTATCAGCCACTGGGTGGTTCCCACTGCATGACCC
TCTATCCCTGCCATCTGTCCCCATGGTTTCCAGCTCAATCCACCCCTGACCATCTGTGAGCTTTTTTCCCAGGGA
GCCGTTTCAGGGGTTCTGGGCAGTAGGCTGGGCCTGGCCTCAGAACCTGGTGGCTCCTGCCTGCTCCTTCACTTT
TGTAACCATCCCCTTACCAGAATGGTATTAACCTCTGGTGCTTTGTACTACTGGTCCAGCTGCCTTGGGCTC
CTTTTCTATATTAATAAAGAAACGAGTAAAAATT

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FIGURE 3984

CATCCGGTGTGGTCGACGGGTCCTCCAAGAGTTTGGGGCGCGGACCGGAGTACCTTGCGTGCAGTT**ATGT**CGGCG
TCGGTAGTGTCTGTCAATTCGCGGTTCTTAGAAGAGTACTTGAGCTCCACTCCGCAGCGTCTGAAGTTGCTGGAC
GCGTACCTGCTGTATATACTGCTGACCGGGGCGCTGCAGTTCGGTTACTGTCTCCTCGTGGGGACCTTCCCCTTC
AACTCTTTTCTCTCGGGCTTCACTCTTGTGTGGGGAGTTTCATCCTAGCGGTTTGCTGAGAATACAGATCAAC
CCACAGAACAAAGCGGATTTCCAAGGCATCTCCCCAGAGCGAGCCTTTGCTGATTTTCTCTTTGCCAGCACCATC
CTGCACCTTGTTGTCATGAACTTTGTGGCT**TGA**ATCATTCTCATTTACTTAATTGAGGAGTAGGAGACTAAAAGA
ATGTTCACTCTTTGAATTTCTGGATAAGAGTTCTGGAGATGGCAGCTTATTGGACACATGGATTTTCTTCAGAT
TTGACACTTACTGCTAGCTCTGCTTTTTATGACAGGAGAAAAAGCCCAGAGTTCAGTGTGTGTCAGAACAACTTTC
TAACAAACATTTATTAATCCAGCCTCTGCCTTTTATTAAATGTAACCTTTTGCTTTCCAAATTAAAGAACTCCAT
GCCACTCCTCAAAAAAAAAAAAAA

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FIGURE 3985

MSASVVSVISRFLEEYLSSTPQRLKLLDAYLLYILLTGALQFGYCLLVGTFFNSFLSGFISCVGSFILAVCLRI
QINPQNKADFQGISPERAFADFLFASTILHLVVMNFVG

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FIGURE 3986

GTGTTGGTTTCAGAGGAGGGACCAGGCAGAAGGTGGTTGAGAGGCAGAGCTGCCCCCTGAGTGAGCCATGCAGAGGA
TCTCCTCCCTCATCCATCTCTCTCTCTTCTGGGCAGGAGTCATGTCAGCCATTGAGTTGGTGCCTGAACACCAAA
CAGTGCCTGTGTCAATAGGGGTCCCTGCCACCCTCAGGTGCTCCATGAAAGGAGAAGCGATCGGTAACTACTATA
TCAACTGGTACAGGAAGACCCAAGATATCCAGAACCCTGACCCTGCCGTGTACCAGCTGAGAGACTCTAAATCCA
GTGACAAGTCTGTCTGCCTATTCACCGATTTTGATTCTCAAACAAATGTGTCACAAAGTAAGGATTCTGATGTGT
ATATCACAGACAAAACCTGTGCTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGTGGCCTGGAGCAACA
AATCTGACTTTGCATGTGCAAACGCCTTCAACAACAGCATTATTCCAGAAGACACCTTCTTCCCCAGCCCAGAAA
GTTCTGTGATGTCAAGCTGGTCGAGAAAAGCTTTGAAACAGATACGAACCTAAACTTTCAAACCTGTCAAGTGA
TTGGGTTCCGAATCCTCCTCCTGAAAGTGGCCGGGTTTAATCTGCTCATGACGCTGCGGCTGTGGTCCAGCTGAG
ATCTGCAAGATTGTAAGACAGCCTGTGCTCCCTCGCTCCTTCTCTGCAATTGCCCCCTCTTCTCCCTCTCCAAACA
GAGGGAACCTCTCCTACCCCCAAGGAGGTGAAAGCTGCTACCACCTCTGTGCCCCCCCGGCAATGCACCAACTGGA
TCCTACCCGAATTTATGATTAAGATTGCTGAAGAGCTGCCAAACACTGCTGCCACCCCCTCTGTTCCCTTATTGC
TGCTTGTCACTGCCTGACATTACGGCAGAGGCAAGGCTGCTGCAGCTCCGCTGGCTGTGCACATTCCCTCCTGC
TCCCCAGAGACTGCCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGGTCCCGGAGA
ATGTTGTGAGGGGTTTATTTTTTTTTTAATAGTGTTCAATAAGAAAGACATAGTATTCTTCTTCTCAAGACGTGGG
GGGAAATTATCTCATTATCGAGGCCCTGCTATGCTGTGTGCTCTGGGCGTGTGTATGTCCTGCTGCCGATGCCTT
CATTAAATGATTTGGAAGAGC

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FIGURE 3987

CCTTATTCGAGAGGTGTCAGGGCTGGGAGACTAGGATGTCGGACACGTGGAGCTCTATCCAGGCCCACAAGAAGC
AGCTGGACTCTCTGCGGGAGAGGCTGCAGCGGAGGCGGAAGCAGGACTCGGGGCACTTGGCAGCAGACGTTGCC
CTTCTGCAAGTAGTTCGCGGTTCTCCTCACGCTGGGCCTCGGTTCTTCCAGCTCACTTTTACCGGACGGACGCT
TGAGCCCCACCCTCGTCCGCCTTGCCCACTCCTCTTCAGACTGCGAGGACGTCGCCTTTGTGAGGCTGCTCAGCC
CCCTATCCCGCGAAGCAGCAAGAACCCCTTTTTGTTGCTGCTTTG

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FIGURE 3988

GAGAATTGGCTATATCCTGGAGCGAGTGCTGGGAGGTGCTAGTCCGCCGCGCCTTATTCGAGAGGTGTCAGGGCT
GGGAGACTAGG**ATG**TCGGACACGTGGAGCTCTATCCAGGCCCAAGAAGCAGCTGGACTCTCTGCGGGAGAGGC
TGCAGCGGAGGCGGAAGCAGGACTCGGGGCACTTGGATCTACGGAATCCAGAGGCAGCATTGTCTCCAACCTTCC
GTAGTGACAGCCCACTGTCCTACTGCACCCACCTCTGGTGGCCCTAAGCCCAGCACAGCTTCAGCAGTTCTGAAT
TAGCTACAGATCCTGAGTTAGAGAAGAAGTTGCTACACCACCTCTCTGATCTGGCCTTAACATTGCCCCACTGATG
CTGTGTCCATCTGTCTTGCCATCTCCACGCCAGATGCTCCTGCCACTCAAGATGGGGTAGAAAGCCTCCTGCAGA
AGTTTGCAGCTCAGGAGTTGATTGAGGTAAAGCGAGGTCTCCTACAAGATGATGCACATCCTACTCTTGTAACCT
ATGCTGACCATTCCAAGCTCTCTGCCATGATGGGTGCTGTGGCAGAAAAGAAGGGCCCTGGGGAGGTAGCAGGGA
CTGTACAGGGCAGAAAGCGGCGTGCAGAACAGGACTCGACTACAGTAGCTGCCTTTGCCAGTTTCGTTAGTCTCTG
GTCTGAACTCTTCAGCATCGGAACCAGCAAAGGAGCCAGCCAAGAAATCAAGGAAACATGCTGCCTCAGATGTTG
ATCTGGAGATAGAGAGCCTTCTGAACCAACAGTCCACTAAGGAACAACAGAGCAAGAAGGTCAGTCAGGAGATCC
TAGAGCTATTAAATACTACAACAGCCAAGGAACAATCCATTGTTGAAAAATTTTCGCTCTCGAGGTCTGGGCCCCAAG
TGCAAGAATTCTGTGACTATGGAACCAAGGAGGAGTGATGAAAGCCAGTGATGCTGATCGACCCTGTCGCAAGC
TGCACTTCAGACGAATTATCAATAAACACACTGATGAGTCTTTAGGTGACTGCTCTTTCCTTAATACATGTTTCC
ACATGGATACCTGCAAGTATGTTCACTATGAAATTGATGCTTGATGGATTCTGAGGCCCTGGCAGCAAAGACC
ACACGCCAAGCCAGGAGCTTGCTCTTACACAGAGTGTCGGAGGTGATTCCAGTGCAGACCGACTCTTCCCACCTC
AGTGGATCTGTTGTGATATCCGCTACCTGGACGTGATGATCTTGGGCAAGTTTGCAGTTGTGATGGCTGACCCAC
CCTGGGATATTACATGGAAGTGCCTATGGGACCCTGACAGATGATGAGATGCGCAGGCTCAACATACCCGTAC
TACAGGATGATGGCTTTCTCTTCTCTGGGTACAGGCAGGGCCATGGAGTTGGGGAGAGAATGTCTAAATCTCT
GGGGGTATGAACGGGTAGATGAAATTATTTGGGTGAAGACAAATCAACTGCAACGCATCATTTCGGACAGGCCGTA
CAGGTCACTGGTTGAACCATGGGAAGGAACACTGCTTGGTTGGTGTCAAAGGAAATCCCCAAGGCTTCAACCAGG
GTCTGGATTGTGATGTGATCGTAGCTGAGGTTTCGTTCCACCAGTCATAAACCAGATGAAATCTATGGCATGATTG
AAAGACTATCTCCTGGCACTCGCAAGATTGAGTTATTTGGACGACCACACAATGTGCAACCCAACTGGATCACCC
TTGGAAACCAACTGGATGGGATCCACCTACTAGACCCAGATGTGGTTGCACGGTTCAAGCAAAGGTACCCAGATG
GTATCATCTCTAAACCTAAGAATTTA**TAGA**AGCACTTCCTTACAGAGCTAAGAATCCATAGCCATGGCTCTGTAA
GCTAAACCTGAAGAGTGATATTTGTACAATAGCTTTCTTCTTTATTTAAATAAACATTTGTATTGTAAAAA
AAAAA

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FIGURE 3989

MSDTWSSIQAHKKQLDSLRLRERLQRRRKQDSGHLDLRNPEAALSPTFRSDSPVPTAPTSGGPKPSTASAVPELATD
PELEKKLLHHLSDLALTLPTDAVSICLAISTPDAPATQDGVESLLQKFAAQELIEVKRGLLQDDAHPTLVITYADH
SKLSAMMGAVAEKKGPGEVAGTVTGQKRRAEQDSTTVAAFASSLVSGLNSSASEPAKEPAKKSARKHAASDVLEI
ESLLNQOSTKEQQSKKVSQEILELLNNTTAKESIVEKFRSRGRAQVQEFCDYGTKEECMKASDADRPCRKLHFR
RIINKHTDESLGDCSFLNTCFHMDTCKYVHYEIDACMDSEAPGSKDHTPSQELALTQSVGGDSSADRLFPPQWIC
CDIRYLDVVSILGKFAVVMADPPWDIHMELPYGTLTDDEMRRNLNIPVLQDDGFLFLWVTGRAMELGRECLNLWGYE
RVDEIIWVKTNQLQRIIRTGRTGHWLNHGKEHCLVGKGNPQGFNQGLDCDVIVAEVRSTSHKPDEIYGMIERLS
PGTRKIELFGRPHNVQPNWITLGNQLDGIHLDPDVVARFKQRYPDGIISKPKNL

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FIGURE 3990

TTTTGTGAAGAGACGAAGACTGAGCGGTTGTGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAG
AACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCCTCCCCTTCTTGTGAGATTTTTTTGATCTTCAGCTA
CATTTTCGGCTTTGTGAGAAACCTTACCATCAAACACGATGGCCAGCAACGTTACCAACAAGACAGATCCTCGCT
CCATGAACTCCCGTGATTTCATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTT
CGAAGTATGGCAAAATTGTGGGCTGCTCTGTTTCATAAGGGCTTTGCCTTCGTTTCAGTATGTTAATGAGAGAAATG
CCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGC
CAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGGTCAGTAACAGAACACCCTT
CTCCGTCCCCTCTACTCAGCTCCTCTTTTGACTTGGACTATGACTTTCAACGGGACTATTATGATAGGATGTACA
GTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCGTGTATCAG
GAAACACTTCACGAAGGGGCAAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAAATG
AAAGGAGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTCTCCTGGAAAAC
CTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCAGTAGAGATGAAGAATGATAAGTCAGAAGAGGAGCAGAGC
AGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTGAGGAG
GGGGACCTACTGGATGATGATGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGATCAAGGATGATGAAAAA
GAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATAGTGGGGTTTAG
AAATCTTATCCCATTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTTACCAGATCCTCTCCCCTAGTA
TCTTCAGCACATGCTCACTGTTCTCCCATCCTTGTCTTCCCATGTTTCAATTAATTCATATTGCCCCGCGCCTAG
TCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTGAAGTCTTACCCTGTAATTTTTTGCTTTTAATTTGA
TACCTCTTTATGACTTAACAATAAAAAGGATGTATGGTTTTTATCAACTGTCTCCAAAATAATCTCTTGTTATGC
AGGGAGTACAGTTCTTTTCATTCATACATAAGTTTCAGTAGTTGCTTCCCTAACTGCAAAGGCAATCTCATTTAGT
TGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCCTCACATTAGTGTGCTGTGTGGGGCA
GTTCAACACAAATGTAACAATGTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCCTCTAGAAAAATAATT
AGTGTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGTATTTTTGTGAACAGCCTGATGTTTGGGA
CCTTTTTTCCTCAAAATAAACAAGTCCTTATTAAACCAGGAATTTGGAG

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FIGURE 3991

CGGCCCCCGCATTCCTCCCGCCCCACCTCCCGCCTTGTTGTCCAACCTCTCCCGGAGCAGCCGGAGAGCAGGCG
TCGGGACGCAGCAAAGAGAGGAGAGGCCACCATGGCGGAGCTGCAGGAGGTGCAGATCACAGAGGAGAAGCCACT
GTTGCCAGGACAGACGCCTGAGGCGGCCAAGGAGGCTGAGTTAGCTGCCCGAATCCTCCTGGACCAGGGACAGAC
TCACTCTGTGGAGACACCATAACGGCTCTGTCACTTTCACTGTCTATGGCACCCCCAAACCCAAACGCCCAGCGAT
CCTTACCTACCACGATGTGGGACTCAACTATAAATCTTGCTTCCAGCCACTGTTTCAGTTCGAGGACATGCAGGA
AATCATTCAGAACTTTGTGCGGGTTCATGTGGATGCCCCCTGGAATGGAAGAGGGGAGCCCCCTGTGTTCCCTTTGGG
ATATCAGTACCCATCTCTGGACCAGCTTGACAGATGATCCCTTGCGTCCTGCAGTACCTAAATTTCTCTACAAT
AATTGGAGTTGGTGTGGAGCTGGAGCCTACATCCTGGCGAGATATGCTCTTAACCACCCGGACACTGTTGAAGG
TCTTGTCTCATCAACATTGATCCCAATGCCAAGGGTTGGATGGATTGGGCAGCCACACAAGCTAACAGGCCTCAC
CTCTTCCATTCCGGAGATGATCCTTGGACATCTTTTCAGCCAGGAAGAGCTCTCTGGAAATTTCTGAGTTGATACA
AAAGTACAGAAATATCATTACACATGCACCAACCTGGATAACATTGAATTGTACTGGAACAGCTACAACAACCG
CCGAGACCTGAACTTTGAGCGTGGAGGTGATATCACCTCAGGTGTCTGTGATGCTGGTGGTAGGAGACCAAGC
ACCTCATGAAGATGCAGTGGTGGAAATGTAACCTCAAACTGGACCCACCCAGACCTCGTTCCTCAAGATGGCTGA
CTCCGGAGGTGAGCCCCAGCTGACTCAGCCAGGCAAGCTGACCGAGGCCCTCAAGTACTTCTGCAAGGCATGGG
CTACATGGCCTCATCTGCATGACTCGCCTGTCCCGGTCTCGTACAGCCTCTCTGACCAGTGCAGCATCCGTTGA
TGGCAACCGGTCCCGCTCTCGCACCTGTCCAGAGCAGCGAGTCTGGAACCTTTCTTCGGGGCCCCCGGGGCA
CACCATGGAGGTCTCCTGTTGAATGGCCCTTGTGCCCCTAGAGTGGGACCCAGCCCTCACCTCCCCAGAGCTAA
CCTGGGAGGTGCTGAAGGGGCATTGGGCCACCGTAAGCAAGGGAAAAAGGGCAGATCATGCGGGGAGATGACCTT
GATCTTTGATTGCTACCCTAACCTTGACCTTTAACCCGTGATTCCCCCAGCTCCTGGAAGAGATGTCCTAATAT
CTCTTAGGGACCCAGACCCCTAAATTTCTCCTCCTCCCCATTTTGATGTTAAGGTGGAGAGGGCATATGCATCCT
CTGTCTGATCTAGGTGTCTATAGCTGAGGGGTAAGAGGTTGTTGTAGTTGTCCTGGTGCCTCCATCAGACTCTC
CCTACTTGTCCCATATTTGCAAGGGGAGGGGATTTGGGGCTGGGGCTCCATTACCAAAGCTGAGGTGGCTTCTC
ATTAACCCTTTAGGACTCTGAAGGGTATGGACCTACGTGAATGTGTGTCAGGGGGAGACTTGCTGGTGGGTAGT
GGTCCTCAGGATGTGATAGAAACATCCAGTGTAAGGAAGTTGGAATGGGAGTTGGCGGGCAGTGAACGAGTG
TGGGGAAGGATTGGTGTGGGGCAACAGGAAGGGGCTGGGGCCGTTTGGCTGCACTAACTTTGGTAGCTCAGTG
TGCATCTAGAGTGGGACTGGGGAGGGAGCTAAGCTTGGGCTGGGCTGCTTGGGGCTTGGCATAGGGTGGAAGGG
CTACCCTGGGGCTCTGACCACACTGTAGTATGTGTGGAGGGTGCCCTCCCGTCTCCCACTTCTGCTATAACA
ATAAACTGTAGAGGAATCTGAGTACCGTT

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FIGURE 3992

GCTGCCCCTGAACCCCAGAACAACCAGCTGGATCAGTTCTCACAGGAGCTACAGGCCGGAGACTGGGAAACATGG
TTCCAAACTGTTCACTTCCCAAATTTGTCTGCTTCTTCTGTTGGGGCTTCTGGCTGTGGAGGGCTCACTCCATG
TCAAACCTCCACAGTTTACCTGGGCTCAATGGTTTGAAACCCAGCACATCAATATGACCTCCCAGCAATGCACCA
ATGCAATGCAGGTCAATTAACAATTATCAACGGCGATGCAAAAACCAAAATACTTTCCTTCTTACAACTTTTGCTA
ACGTAGTTAATGTTTGTGGTAACCCAAATATGACCTGTCCTAGTAACAAAACCTCGCAAAAATTGTCACCACAGTG
GAAGCCAGGTGCCTTTAATCCACTGTAACCTCACAACCTCCAAGTCCACAGAATATTTCAAACCTGCAGGTATGCGC
AGACACCAGCAAACATGTTCTATATAGTTGCATGTGACAACAGAGATCAACGACGAGACCCTCCACAGTATCCGG
TGGTTCCAGTTCACCTGGATAGAATCATCTAAGCTCCTGTATCAGCACTCCTCATCATCACTCATCTGCCAAGCT
CCTCAATCATAGCCAAGATCCCATCTCTCCATATACITTTGGGTATCAGCATCTGTCCTCATCAGTCTCCATACCC
CTTCAGCTTTCCTGAGCTGAAGTGCCTTGTGAACCCTGCAATAAACTGCTTTGCAAATTC

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FIGURE 3993

MVPKLFTSQICLLLLLGLLAVEGSLHVKPPQFTWAQWFETQHINMTSQQCTNAMQVINNYQRRCKNQNTFLLTTF
ANVVNVCGNPNMTCPSNKTRKNCHHSGSQVPLIHCNLTTPSQNISNCRYAQTTPANMFYIVACDNRDQRRDPPQY
PVVPVHLDRII

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FIGURE 3994

AGAGACTTGGGTTTTGCTCCCTAGGAGCCCTGGAATAGCTTTGGCCAGAATCCCTATCTCCCATTAGAACCTCT
CCTTTGCGTCCTTTGTAAACCTCCAAGTCTACTTGGTGAAAACGCCCACGAAGAAGTAACAAGGACTTTGTTTCCT
AGTGTGCCAGGTTTGGGCACCAGTGCTGTAGTGGCTTTCTCTGCTGCTCCTTGTGCATCAGCAGACAGATGTGGT
TCACATAGGAAGAAAGACTAACGTAGGCAAAGATTTGCTCTTTCTTCAGCAGCCCTAGAAAGACGGCGGCCTGGG
TGATTCACTCCTTCCTCACGTCCTTGATTTTATTTGAACTGAGCTCCAGATGCTCCTCCACCCCTTTTCCTC
TTGGAAGCCAAACCCCTTTGTAATCTGTATAAGGTCCACACCCCGGGAGCTGAGTGATTGCAGAACTGGCCTTC
CATCTCTCTCAGACACCAAGCTGCAGATCCAGGCTTTTCTGGGAAAGTGAGGCCACCATGGCTCTGGAGAAGTCT
CTTGTCGGCTCCTTCTGCTTGCTGATACTGCTGGTGCTGGGCTGGGTCCAGCCTTCCCTGGGCAAGGAATCC
CGGGCCAAGAAATTCCAGCGGCAGCATATGGACTCAGACAGTTCCCCCAGCAGCAGCTCCACCTACTGTAACCAA
ATGATGAGGCGCCGGAATATGACACAGGGGCGGTGCAAACCAAGTGAACACCTTTGTGCACGAGCCCCTGGTAGAT
GTCCAGAATGTCTGTTTCCAGGAAAAGGTCACCTGCAAGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGC
ATGCACATCACAGACTGCCGCCTGACAAACGGCTCCAGGTACCCCACTGTGCATACCGGACCAGCCCGAAGGAG
AGACACATCATTGTGGCCTGTGAAGGGAGCCCATATGTGCCAGTCCACTTTGATGCTTCTGTGGAGGACTCTACC
TAAGGTCAGAGCAGCGAGATACCCACCTCCCTCAACCTCATCCTCTCCACAGCTGCCTCTTCCCTCTTCCTTCC
CTGCTGTGAAAGAAGTAACTACAGTTAGGGCTCCTATTCAACACACACATGCTTCCCTTTCTGAGTCCCATCCC
TGCGTGATTTTGGGGGTGAAGAGTGGGTGTGAGGTGGGCCCCATGTTAACCCCTCCACTCTTTCTTTCAATAAA
ACGCAGTTGCAAACACCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3995

MALEKSLVRLLLLVLILLVLGWVQPSLGKESRAKKFQRQHMDSDSSPSSSSTYCNQMMRRRNMTQGRCKPVNTFV
HEPLVDVQNVCFQEKVTCKNGQGNCYKSNSSMHITDCRLTNGSRYPNCAVRTSPKERHIIVACEGSPYVPVHFDA
SVEDST

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FIGURE 3996

AACTGTGCGAACCAGACCCGGCAGCCTTGCTCAGTTCAGCATAGCGGAGCGGATCCGATCGGATCGGAGCGGATC
GGAGCACACCGGAGCAGGCTCATCGAGAAGGCGTCTGCGAGACCATGGAGAACGGATACACCTATGAAGATTATA
AGAACACTGCAGAATGGCTTCTGTCTCACACTAAGCACCGACCTCAAGTTGCAATAATCTGTGGTTCTGGATTAG
GAGGTCTGACTGATAAATTAAGTCAAGGCCAGATCTTTGACTACGGTGAAATCCCCAAGTTTCCCCGAAGTACAG
TGCCAGGTCATGCTGGCCGACTGGTGTGTTGGGTTTCTGAATGGCAGGGCCTGTGTGATGATGCAGGGCAGGTTCC
ACATGTATGAAGGGTACCCACTCTGGAAGGTGACATTTCCAGTGAGGGTTTTCCACCTTCTGGGTGTGGACACCC
TGGTAGTCACCAATGCAGCAGGAGGGCTGAACCCCAAGTTTGAGGTTGGAGATATCATGCTGATCCGTGACCATA
TCAACCTACCTGGTTTTAGTGGTCAGAACCCTCTCAGAGGGCCCAATGATGAAAGGTTTGGAGATCGTTTTCCCTG
CCATGTCTGATGCCTACGACCGGACTATGAGGCAGAGGGCTCTCAGTACCTGGAAACAAATGGGGGAGCAACGTG
AGCTACAGGAAGGCACCTATGTGATGGTGGCAGGCCCCAGCTTTGAGACTGTGGCAGAATGTCGTGTGCTGCAGA
AGCTGGGAGCAGACGCTGTTGGCATGAGTACAGTACCAGAAGTTATCGTTGCACGGCACTGTGGACTTCGAGTCT
TTGGCTTCTCACTCATCACTAACAAGGTCATCATGGATTATGAAAGCCTGGAGAAGGCCAACCATGAAGAAGTCT
TAGCAGCTGGCAAACAAGCTGCACAGAAATTGGAACAGTTTGTCTCCATTCTTATGGCCAGCATTCCACTCCCTG
ACAAAGCCAGTTGACCTGCCTTGGAGTCGTCTGGCATCTCCACACAAGACCCAAGTAGCTGCTACCTTCTTTGG
CCCCTTGCTGGAGTCATGTGCCTCTGTCTTAGGTTGTAGCAGAAAGGAAAAGATTCTGTCTTACCTTTCCC
ACTTTCTTCTACCAGACCCTTCTGGTGGCAGATCCTCTTCTCAAAGCTGGGATTACAGGTGTGAGCATAGTGAGA
CCTTGGCGCTACAAAATAAAGCTGTTCTCATTCTGTTCTTTCTTACACAAGAGCTGGAGCCCGTGCCCTACCAC
ACATCTGTGGAGATGCCCAGGATTTGACTCGGGCCTTAGAACTTTGCATAGCAGCTGCTACTAGCTCTTTGAGAT
AATACATTCCGAGGGGCTCAGTTCTGCCTTATCTAAATCACCAGAGACCAAACAAGGACTAATCCAATACCTCTT
GGA

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FIGURE 3997

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGACCCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGACAGATAC
GGGGTTGCTCTTTTGCTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGTCAGGACCCCTTAATTA
AGATCCTCAATTGGCTGGAGGGCAGATCTCGCGAGTAGGGCAACGCGGTAAAAATATTGCTTCGGTGGGTGACGC
GGTACAGCTGCCCCAAGGGCGTTTCGTAACGGGAATGCCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGGG
ATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAATGACAAAGAGGCAGCAGGAG
AGGGCCCAGCCCTGTATGAGGACCCCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCACACTCAAGATCT
GCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGGGTAAAGGAAGAAGCCCCAG
ATATACTGTGCCTTCAAGAGACCAAATGTTTCAGAGAACAACTACCAGCTGAACTTCAGGAGCTGCCTGGACTCT
CTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTTCCCGCCAGTGCCAC
TCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGT
TTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGCGCTGGGATG
AAGCCTTTTCGCAAGTTCTGAAGGGCCTGGCTTCCCGAAAGCCCTTGTGCTGTGTGGAGACCTCAATGTGGCAC
ATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAGAATGCTGGCTTCACGCCACAAGAGCGCCAAGGCT
TCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCTATGCCTACA
CCTTTTGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTTGTGTGCTCCACT
CTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCCTATCACCTAT
ACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCAACTACCATTCTCTTT
AAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAACTAGGAATCCTCCAACCAGGCTCCTGTGAT
AGAGTTCTTTTAAGCCCAAGATTTTTTATTTGAGGGTTTTTTGTTTTTAAAAAAAATTGAACAAAGACTACTA
ATGACTTTGTTTGAATTATCCACATGAAAATAAAGAGCCATAGTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 3998

MPKRGKKGAVAEDGDEL RTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGF GELLQAVPLADSFRLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 3999

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCAACCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGCAATAC
GGGGTTGCTCTTTTGTCTATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAACGCGGTAAAAATATTGCTTCGGT
GGGTGACGCGGTACAGCTGCCCCAAGGGCGTTCGTAACGGGAATCCGAAGCGTGCGGAAAAAGGGAGCGGTGGCGG
AAGACGGGGATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAATGACAAAGAGG
CAGCAGGAGAGGGCCCAGCCCTGTATGAGGACCCCCAGATCAGAAAAACCTCACCCAGTGGCAAACCTGCCACAC
TCAAGATCTGCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAAGAAAGGATTAGATTGGGTAAAGGAAG
AAGCCCCAGATATACTGTGCCTTCAAGAGACCAAATGTTTCAGAGAAACAACTACCAGCTGAACCTTCAGGAGCTGC
CTGGACTCTCTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTTCCCGCC
AGTGCCCACTCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAAT
TTGACTCGTTTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGC
GCTGGGATGAAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTGTGGAGACCTCA
ATGTGGCACATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAATGCTGGCTTCACGCCACAAGAGC
GCCAAGGCTTCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCT
ATGCCTACACCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTTGT
TGTCCCACTCTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCCTA
TCACCCTATACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCACTACCAT
TCCTTCTTTAAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAACTAGGAATCCTCCAACCAGGC
TCCTGTGATAGAGTTCTTTTAAGCCCAAGATTTTTTATTTGAGGGTTTTTGTTTTTTAAAAAAAATTGAACAA
AGACTACTAATGACTTTGTTTGAATTATCCACATGAAATAAAGAGCCATAGTTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4000

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGFCELLQAVPLADSFRLHLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 4001

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCACCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGACAGATAC
GGGGTTGCTCTTTTGGTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGCAACGCGGTAAAAATA
TTGCTTCGGTGGGTGACGCGGTACAGCTGCCCAAGGGCGTTCGTAACGGGAATGCCGAAGCGTGGGAAAAAGGGA
GCGGTGGCGGAAGACGGGGATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAAT
GACAAAGAGGCAGCAGGAGAGGGGCCAGCCCTGTATGAGGACCCCCCAGATCAGAAAACCTCACCCAGTGGCAAA
CCTGCCCACTCAAGATCTGCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGG
GTAAAGGAAGAAGCCCCAGATATACTGTGCCTTCAAGAGACCAAAATGTTTCAGAGAACAACTACCAGCTGAACTT
CAGGAGCTGCCTGGACTCTCTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTG
CTTCCCGCCAGTGCCCACTCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATT
GTGGCTGAATTTGACTCGTTTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAG
TACCGGCAGCGCTGGGATGAAGCCTTCGCAAGTTCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTGT
GGAGACCTCAATGTGGCACATGAAGAAATTGACCTTCGCAACCCCCAAGGGGAACAAAAGAATGCTGGCTTCACG
CCACAAGAGCGCCAAGGCTTCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCC
AACACACCCTATGCCTACACCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGAT
TACTTTTTGTTGTCCCACTCTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGAT
CACTGTCTATCACCTATACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCT
CAACTACCATTCTCTTTAAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAACTAGGAATCCT
CCAACCAGGCTCCTGTGATAGAGTTCTTTTAAGCCAAGATTTTTTATTTGAGGGTTTTTTGTTTTTTAAAAAAA
AATTGAACAAAGACTACTAATGACTTTGTTTGAATTATCCACATGAAAATAAAGAGCCATAGTTTCAAAAAAAA
AAAAA

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FIGURE 4002

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNV DGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGF GELLQAVPLADSFRLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 4003

AGTGTATCTGCAGGCTGGCCAGCTTCTCTGCGCTCCGGAAGCTGCGGCCACGCGGACTAGTGAGGACCTC
CACAGCTCCTGACATTGCCAGGAGTCTCTGTCGGCGTTTTCTCCCAGCCTCCGCC**ATG**CCGGCGGTGCTGGGTTTT
GAAGGCAGCGCCAATAAGATTGGCGTGGGCGTGGTGCGGGATGGCAAGGTGCTGGCGAACCCGCGGCGGACTTAC
GTCACGCCTCCTGGCACAGGATTCTTCCAGGTGATACAGCCAGGCATCACCGAGCTGTTATCTTAGACCTGCTG
CAGGAGGCACTAACAGAGTCTGGATTAACTCCAGGATATCGACTGCATTGCATACACCAAGGGCCCTGGCATG
GGTGCCCCACTGGTTTTCTGTGGCTGTTGTGGCCCGTACTGTGGCCCACTGTGGAATAAGCCATTGGTGGGTGTG
AACCCTGTATAGGCCACATTGAGATGGGCCGCCTCATCACTGGAGCCACCAGCCCAACCGTGTTGTATGTGAGT
GGAGGAAATACGCAGGTGATTGCATACTCGGAACATCGTTACCGTATCTTTGGGGAAACCATCGATATTGCAGTG
GGTAATTGTCTGGATCGTTTTGTCTCGAGTGCTGAAGATTCTTAACGACCCAAGTCCAGGATACAACATTGAACAG
ATGGCAAAGCGAGGCAAGAAGCTAGTTGAGCTGCCATACACTGTAAAGGGGATGGACGTCTCATTCTCAGGGATC
CTGTCTTTTCATTGAGGATGTAGCCCATCGGATGCTGGCCACAGGCGAGTGTA CTCTGAGGATCTGTGTTTTCTCC
CTGCAGGAAACTGTGTTTGCAATGCTGGTAGAGATCACAGAGCGAGCCATGGCACATTGTGGCTCCCAGGAGGCC
CTCATTGTGGGAGGAGTGGGGTGTAATGTGAGGCTACAGGAGATGATGGCAACAATGTGCCAGGAACGTGGAGCC
CGGCTTTTTGTCTACAGATGAGAGATTCTGTATTGACAATGGAGCGATGATAGCCAGGCTGGCTGGGAGATGTTT
CGGGCTGGACACAGGACCCCACTCAGTGATTCTGGGGTTACACAGAGGTATCGGACAGATGAAGTAGAGGTGACC
TGGAGGGACT**TAA**TAAGATCAACAGAATCAGAGTAGATAGTTCCTTAATCGGAACCCAAAGGACCCCGTGCCTCAA
TCTCTATCCTGATGTCTATGGGAGTCTTAGCAAAAGCTATAGACTCCAAGCAAGGCTTGGGGTCTTTTATGGAACCC
CAGGATGACTCAGCAATAAAATATTTTTGGTTTTTTGGTTTTTGTA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4004

MPAVLGFEGSANKIGVGVRDGVLANPRRTYVTPPGTGFLPGDTARHHRAVILDLLQEALTESGLTSQDIDCIA
YTKGPGMGAPLVSVAVVARTVAQLWNKPLVGVNHCIGHIEMGRITGATSPTVLYVSGGNTQVIAYSEHRYRIFG
ETIDIAVGNCLDRFARVLKISNDPSPGYNIEQMAKRGKKLVELPYTVKGMDVSFSGILSFIEDVAHRMLATGECT
PEDLCFSLQETVFMALVEITERAMAHCGSQEALIVGGVGCNVRLQEMMATMCQERGARLFATDERFCIDNGAMIA
QAGWEMFRAGHRTPLSDSGVTQRYRTDEVEVTWRD

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FIGURE 4005A

GGAATCGGACGCCCCAGGCATATACAAGCTGAGTTTCAGCCATGGAAAACTCCATGGGCATGTGTCTGCCCATC
CAGACATCCTCTCCTTGAGAAACCGGTGCCTGGCTATGCTCCCTGACTTACAGCCCTTGAGAAACTACATCAGC
ATGTATCTACCCACTCAGATATCCTCTCCTTGAAGAACCAGTGCCTAGCCACGCTTCTTGACCTGAAGACCATGG
AAAAACCACATGGATATGTGTCTGCCCACCCAGACATCCTCTCCTTGAGAAACCAGTGCCCTGGCCACACTTTCTG
ACCTGAAGACCATGGAGAAACCACATGGACATGTTTCTGCCCACCCAGACATCCTCTCCTTGAGAAACCGGTGCC
TGGCCACCTCTCTAGTCTAAAGAGCACTGTGTCTGCCAGCCCCCTGTTCCAGAGTCTACAGATATCTCACATGA
CGCAAGCTGATTTGTACCGTGTGAACAACAGCAATTGCCTGCTCTCTGAGCCTCCAAGTTGGAGGGCTCAGCATT
TCTCTAAGGGACTAGACCTTTCAACCTGCCCTATAGCCCTGAAATCCATCTCTGCCACAGAGACAGCTCAGGAAG
CAACTTTGGGTGCTTGGTTTGATTTCAGAAGAGAAGAAAGGGGCAGAGACCCAAATGCCTTCTTATAGTCTGAGCT
TGGGAGAGGAGGAGGAGGTGGAGGATCTGGCCGTGAAGCTCACCTCTGGAGACTCTGAATCTCATCCAGAGCCTA
CTGACCATGTCTTTCAGGAAAAGAAGATGGCTCTACTGAGCTTGCTGTGCTCTACTCTGGTCTCAGAAGTAAACA
TGAACAATACATCTGACCCCCACCTGGCTGCCATTTTTGAAATCTGTCTGAACTTGCCCTCCTGGAGCCTGAGT
TTATCCTCAAGGCATCTTTGTATGCCAGGCAGCAGCTGAACGTCCGGAATGTGGCCAATAACATCTTGGCCATTG
CTGCTTTCTTGCCGGCGTGTGCCCCCACCTGCGACGATAATTTCTGTGCCATTGTCCAGCTGCCTTCTGACTGGA
TCCAGGTGGCTGAGCTTTACCAGAGCCTGGCTGAGGGAGATAAGAATAAGCTGGTGCCCTGCCCGCTGTCTCC
GTACTGCCATGACGGACAAATTTGCCAGTTTGACGAGTACCAGCTGGCTAAGTACAACCCTCGGAAGCACCGGG
CCAAGAGACACCCCCCGCCGGCCACCCGCTCTCCAGGGATGGAGCCTCCATTTTCTCACAGATGTTTTCCAAGGT
ACATAGGGTTTTCTCAGAGAAGAGCAGAGAAAGTTTTGAGAAGGCCGGTGATACAGTGTGAGAGAAAAGAATCCTC
CAAGGTTACCCCTGAAGAAGCTGGTTACGCGACTGCACATCCACAAGCCTGCCAGCACGTTCAAGCCCTGCTGG
GTTACAGATACCCCTCCAACCTACAGCTCTTTTCTCGAAGTCGCTTCTGCGCCTTGGGATTCTAGCAGAGCTG
GGAAGAGGATGAAGCTGTCTAGGCCAGAGACCTGGGAGCGGGAGCTGAGCCTACGGGGGAACAAAGCGTCGGTCT
GGGAGGAACCTCATTGAAAATGGGAAGCTTCCCTTCATGGCCATGCTTCGGAACCTGTGCAACCTGCTGCGGGTTG
GAATCAGTTCCCGCCACCATGAGCTCATTTCTCCAGAGACTCCAGCATGCGAAGTCGGTGATCCACAGTCGGCAGT
TTCCATTAGATTTCTTAACGCCCATGATGCCATTGATGCCCTCGAGGCTCAACTCAGAAATCAAGCATTGCCCT
TTCTTCGAATATAACACTGATGAGGCGGATACTAAGTAGAAATGAAAAGAACCGTCCCAGGCGGAGGTTTTCTTT
GCCACCTAAGCCGTGAGCAGCTTCGGATGGCAATGAGGATACCTGTGTTGTATGAGCAGCTCAAGAGGGAGAAGC
TGAGAGTACACAAGGCCAGACAGTGGAAATATGATGGTGAGATGCTGAACAGGTACCGACAGGCCCTAGAGACAG
CTGTGAACCTCTCTGTGAAGCACAGCCTGCCCCGTGCTGCCAGGCCGCACTGTCTTGGTCTATCTGACAGATGCTA
ATGCAGACAGGCTCTGTCCAAAGAGCAACCCACAAGGGCCCCCGCTGAACTATGCACTGCTGTTGATTGGGATGA
TGATCACGAGGGCGGAGCAGGTGGACGTCGTGCTGTGTGGAGGTGACACTCTGAAGACTGCAGTGCTTAAGGCAG
AAGAAGGCATCCTGAAGACTGCCATCAAGCTCCAGGCTCAAGTCCAGGAGTTTGATGAAAATGATGGATGGTCCC
TGAATACTTTTGGGAAATACCTGCTGTCTCTGGCTGGCCAAAGGGTTCTGTGGACAGGGTCTATCTCCTTGCC
AAAGCATGGATGATGGAATGATAAATGTGGCCAAACAGCTTTACTGGCAGCGTGTGAATTCCAAGTGCCTCTTTG
TTGGTATCCTCCTAAGAAGGGTACAATACCTGTCAACAGATTTGAATCCCAATGATGTGACACTCTCAGGCTGTA
CTGATGCGATACTGAAGTTTATTGCAGAGCATGGGGCTCCCATCTTCTGGAACATGTGGGCCAAATGGACAAAA
TATTCAAGATTCCACCACCCCCAGGAAAGACAGGGGTCCAGTCTCTCCGGCCACTGGAAGAGGACACTCCAAGCC
CCTTGCTCCTGTTTCCCAGCAAGGATGGCGCAGCATCCGGCTTTTCAATTTCACTCCACTTCCGAGACATGCATG
GGGAGCGGGACCTGCTGCTGAGGTCTGTGCTGCCAGCACTGCAGGCCCGAGCGGCCCTCACCGTATCAGCCTTC
ACGGAATCGACCTCCGCTGGGGCGTCACTGAGGAGGAGACCCGTAGGAACAGACAACCTGGAAGTGTGCTTGGGG
AGGTGGAGAACGCACAGCTGTTTGTGGGGATTCTGGGCTCCCGTTATGGATACATTCCCCCAGCTACAACCTTC
CTGACCATCCACACTTCCACTGGGCCCAGCAGTACCCTTCAGGGCGCTCTGTGACAGAGATGGAGGTGATGCAGT
TCCTGAACCGGAACCAACGTCTGCAGCCCTCTGCCAAAGCTCTCATCTACTTCCGGGATTCCAGCTTCTCAGCT
CTGTGCCAGATGCCTGGAAATCTGACTTTGTTTCTGAGTCTGAAGAGGCCGCACGTCCGATCTCAGAACTGAAGA
GCTACCTAAGCAGACAGAAAGGGATCACCTGCCGCAGATACCCCTGTGAGTGGGGGGGTGTGGCAGCTGGCCGGC
CCTATGTTGGCGGGCTGGAGGAGTTTGGGCAGTTGGTTCTGCAGGATGTATGGAATATGATCCAGAAGCTCTACC
TGCAGCCTGGGGCCCTGCTGGAGCAGCAGTGTCCATCCCAGACGATGACTTGGTCCAGGCCACCTTCCAGCAGC
TGCAGAAGCCACCGAGTCTGCCCCGCCACGCCTTCTTCAGGACACAGTGCAACGGCTGATGCTGCCCCACGGAA
GGCTGAGCCTGGTGACGGGGCAGTCAGGACAGGGCAAGACAGCCTTCTGGCATCTCTTGTGTGAGCCCTGCAGG

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FIGURE 4005B

CTCCTGATGGGGCCAAGGTGGCATCATTAGTCTTCTTCCACTTTTTCTGGGGCTCGTCCTGACCAGGGTCTTGCCC
TCACTCTGCTCAGACGCCCTCTGTACCTATCTGCGTGGCCAACATAAAGAGCCAGGTGCCCTCCCCAGCACCTACC
GAAGCCTGGTGTGGGAGCTGCAGCAGAGGCTGCTGCCAAGTCTGCTGAGTCCCTGCATCCTGGCCAGACCCAGG
TCCTGATCATCGATGGGGCTGATAGGTTAGTGGACCAGAATGGGCAGCTGATTTTCACTGGATCCCAAAGAAGC
TTCCCCGGTGTGTACACCTGGTGTGCTGAGTGTGTCTAGTGTATGCAGGCCTAGGGGAGACCCTTGAGCAGAGCCAGG
GTGCCCACGTGCTGGCCTTGGGGCCTCTGGAGGCCTCTGCTCGGGCCCGGCTGGTGAGAGAGGAGCTGGCCCTGT
ACGGGAAGCGGCTGGAGGAGTCACCATTTAACAACCAGATGCGACTGCTGCTGGTGAAGCGGGAATCAGGCCGGC
CGCTCTACCTGCGCTTGGTCACCGATCACCTGAGGCTCTTACGCTGTATGAGCAGGTGTCTGAGAGACTCCGGA
CCCTGCCCTGCCACTGTCCCCCTGCTGCTGCAGCACATCCTGAGCACACTGGAGAAGGAGCACGGGCCTGATGTCC
TTCCCCAGGCCTTGACTGCCCTAGAAGTCACACGGAGTGGTTTACTGTGGACCAGCTGCACGGAGTGTGAGTG
TGTGGCGGACACTACCGAAGGGGACTAAGAGCTGGGAAGAAGCAGTGGCTGCTGGTAACAGTGGAGACCCCTACC
CCATGGGCCCCTTTGCCTGCCTCGTCCAGAGTCTGCGCAGTTTGTAGGGGAGGGCCCTCTGGAGCGCCCTGGTG
CCCGGCTGTGCCTCCCTGATGGGCCCCCTGAGAACAGCAGCTAAACGTTGCTATGGGAAGAGGCCAGGGCTAGAGG
ACACGGCACACATCCTCATTGCAGCTCAGCTCTGGAAGACATGTGACGCTGATGCCTCAGGCACCTTCCGAAGTT
GCCCTCCTGAGGCTCTGGGAGACCTGCCTTACCACCTGCTCCAGAGCGGGAACCGTGGACTTCTTTTCAAGTTCC
TTACCAACCTCCATGTGGTGGCTGCACACTTGAATTGGGTCTGGTCTCTCGGCTCTTGGAGGCCCATGCCCTCT
ATGCTTCTTCACTCCCCAAGAGGAACAAAAGCTCCCCGAGGCTGACGTTGAGTGTTCGCACCTTCTTGAGGC
AGCAGGCTTCAATCCTCAGCCAGTACCCCCGGCTCCTGCCCCAGCAGGCAGCCAACCAGCCCCTGGACTCACCTC
TTTGCCACCAAGCCTCGCTGCTCTCCCGGAGATGGCACCTCCAACACACACTACGATGGCTTAATAAACCCCGGA
CCATGAAAAATCAGCAAAGCTCCAGCCTGTCTCTGGCAGTTTCTCATCCCCTACTGCTGTGGCCTTCTCCACCA
ATGGGCAAAGAGCAGCTGTGGGCACTGCCAATGGGACAGTTTACCTGTTGGACCTGAGAACTTGGCAGGAGGAGA
AGTCTGTGGTGTGAGTGGCTGTGATGGAATCTCTGCTTGTGTTCCTCTCCGATGATACACTCTTTCTTACTGCCT
TCGACGGGCTCCTGGAGCTCTGGGACCTGCAGCATGGTTGTGCGGTGCTGCAGACTAAGGCTCACCAGTACCAAA
TCACTGGCTGCTGCCTGAGCCCAGACTGCCGGCTGCTAGCCACCGTGTGCTTGGGAGGATGCCTAAAGCTGTGGG
ACACAGTCCGTGGGCAGCTGGCCTTCCAGCACACCTACCCCAAGTCCCTGAACTGTGTTGCCTTCCACCCAGAGG
GGCAGGTAATAGCCACAGGCAGCTGGGCTGGCAGCATCAGCTTCTTCCAGGTGGATGGGCTCAAAGTCACCAAGG
ACCTGGGGGACCCCGGAGCCTCTATCCGTACCTTGGCCTTCAATGTGCCTGGGGGGGTTGTGGCTGTGGGCCGGC
TGGACAGTATGGTGGAGCTGTGGGCCTGGCGAGAAGGGGCACGGCTGGCTGCCTTCCCTGCCCACCATGGCTTTG
TTGCTGCTGCGCTTTTCTGCTATGCGGGTTGCCAGTTACTGACGGCTGGAGAGGATGGCAAGGTTTCAAGGTGTGGT
CAGGGTCTCTGGGTGCGCCCCGTGGGCACCTGGGTTCCTTTCTCTCTCTCTCTGCCCCCTCTCTGTGGCACTCAGCC
CAGATGGTGATCGGGTGGCTGTTGGATATCGAGCGGATGGCATTAGGATCTACAAAATCTCTTCAAGTTCCCAGG
GGGCTCAGGGTCAGGCAGTGTGGCAGTGTCCGCCCTGGCCTGGCTAAGCCCCAAGGTATTGGTGTGAGTGGTG
CAGAAGATGGGTCCCTTGAGGGCTGGGCACTCAAGGAATGCTCCCTTCACTCCCTCTGGCTCCTGTCCAGATTCC
AGAAGCCTGTGCTAGGACTGGCCACTTCCCAGGAGCTCTTGGCTTCTGCCTCAGAGGATTTACAGTGCAGCTGT
GGCCAAGGCAGCTGCTGACGCGGCCACACAAGGCAGAAGACTTTCCCTGTGGCACTGAGCTGCGGGGACATGAGG
GCCCTGTGAGCTGCTGTAGTTTTCAGCACTGATGGAGGCAGCCTGGCCACCGGGGGCCGGGATCGGAGTCTCCTCT
GCTGGGACGTGAGGACACCCAAAACCCCTGTTTTGATCCACTCCTTCCCTGCCTGTACCGTGACTGGGTCACTG
GCTGTGCCTGGACCAAAGATAACCTACTGATATCCTGCTCCAGTGATGGCTCTGTGGGGCTCTGGGACCCAGAGT
CAGGACAGCGGCTTGGTCAGTTCTGGGTTCATCAGAGTGTGTGAGCGCTGTGGCAGCTGTGGAGGAGCACGTGG
TGTCTGTGAGCCGGGATGGGACCTTGAAAGTGTGGGACCATCAAGGCGTGGAGCTGACCAGCATCCCTGCTCACT
CAGGACCCATTAGCCACTGTGCAGCTGCCATGGAGCCCCGTGCAGCTGGACAGCCTGGGTGAGAGCTTCTGGTGG
TAACCGTCGGGCTAGATGGGGCCACACGGTTATGGCATCCACTCTTGGTGTGCCAAACCCACACCCCTCCTGGGAC
ACAGCGGGCCAGTCCGTGCTGCTGCTGTTTTCAGAAACCTCAGGCCTCATGCTGACCGCCTCTGAGGATGGTTCTG
TACGGCTCTGGCAGGTTCCTAAGGAAGCAGATGACACATGTATACCAAGGAGTTCTGCAGCCGTCAGTGTGTGG
CTTGGGCACACAGATGGTTCCATGGCAGTATCTGGAAATCAAGCTGGGGAACTAATCTTGTGGCAGGAAGCTAAGG
CTGTGGCCACAGCACAGGCTCCAGGCCACATTGGTGTCTGATCTGGTCTCGGCACACACCTTTTTTGTCTCTCA
GTGCTGATGAGAAAATCAGCGAGTGGCAAGTGAAGTGCAGGAAGGGTTCGGCACCCGGAAATTTGAGTCTTACC
TGAACCGAATTCTACAGGAGGACTTAGGGGTGCTGACAAGTCTGGATTGGGCTCCTGATGGTCACTTTCTCATCT

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FIGURE 4005C

TGGCCAAAGCAGATTTGAAGTTACTTTGCATGAAGCCAGGGGATGCTCCATCTGAAATCTGGAGCAGCTATACAG
AAAATCCTATGATATTGTCCACCCACAAGGAGTATGGCATATTTGTCCTGCAGCCCAAGGATCCTGGAGTTCTTT
CTTTCTTGAGGCAAAAGGAATCAGGAGAGTTTGAAGAGAGGCTGAACTTTGATATAAACTTAGAGAATCCTAGTA
GGACCCTAATATCGATAACTCAAGCCAAACCTGAATCTGAGTCCTCATTTTTGTGTGCCAGCTCTGATGGGATCC
TATGGAACCTGGCCAAATGCAGCCCAGAAGGAGAATGGACCACAGGTAACATGTGGCAGAAAAAAGCAAACACTC
CAGAAACCCAAACTCCAGGGACAGACCCATCTACCTGCAGGGAATCTGATGCCAGCATGGATAGTGATGCCAGCA
TGGATAGTGAGCCAACACCACATCTAAAGACACGGCAGCGTAGAAAAGATTCACCTCGGGCTCTGTACAGCCCTCC
ATGTGCTACCTGAGTTGCTGGTGACAGCTTCGAAGGACAGAGATGTTAAGCTATGGGAGAGACCCAGTATGCAGC
TGCTGGGCCTGTTCCGATGCGAAGGGTCAGTGAGCTGCCTGGAACCTTGGCTGGGCGCTAACTCCACCCTGCAGC
TTGCCGTGGGAGACGTGCAGGGCAATGTGTACTTTCTGAATTGGGAATGAAGATGTGCCACTCGGGAATAATGAT
ACCCCTTGTGCTAGAGATGCAAAGCCTGAAGACACTGGTAGCTTTTAATAATTATAAAATTAATAATTTCTTGAT
AATTATAAAAATGAAGTGTCAAAAAATCTCAAGTGTAGGCCTGCCTGTGTTCTCATGTGGATTTAGAACAGGAGG
ATATTCTATGTGTATGTATATGTACATTCTAATGTGTGTCTCTTCTTATTCAACATTAATCCTTACTAGAACCAC
AAGAAAGTGAATGAAATCTTTAGTAGGTACTCTTTTGAACTAGGTTTTAGAAATTCTTGCATCACTCGCGGGCCC
TAGGACCCTAGGATGCCATTCTTGCCAGGAGGAGGAATGAGAGTGATGTTGGCCAACATTCAATTTGAACAGAGC
ATGGAAGACCTTTCAGTTCATCGGGAAAGAATGAGGGAGGGAGAATAAGTCAGTCATGCATCAGGGCATTAGAA
AGAGCTATGTTTCTGTACAGAGACAGCCCTTTTCTCAGAACTACCCAGAGGAGGCCGGGCATGGTGGCTCACGC
TTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCACGAGGTCAGGAGATCAAGACCATCCTGGCTAACA
TAGTGAAACCCTGTCTCTACTAAAAAATACAAAAAGTTAGCCAGG

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FIGURE 4006

GGGGCTCCACTTTCTTTCCCTCTCCGTTTTTGGTGGGCTGGTTGGAGATGAAATCCACTGAGGAGGGAAGTCCAGC
ACCCTGTGTGCCAGTCCTGAACTGGCCCATCTGTAGACCCCCTGAAAATCATATGGGCTTGGATTTGGATATTCT
CAACAGAAAGGGTTAAAGGCTGATGGTACCTAAAGCCTGGTACTTGAATTTTGATCAAGATAAGCTGCCTTAAGT
TCTCTTCATTACACAAATGATCCTAGATAATTGATAGATCCTGTGGTTCAACTGGATTTCTAGATAGAAGCTGGA
TTCATGTGATGCCAGAGGAGTAAAATTTCAAGAGACTGAAACCAGATCTGAGTTTCGCTGTTCCAGTCTGGACCT
CTTTGGAGCTGTAAATCCTGGATATACTGTAGATGAGTACTGCGTTTTTCTTTTATGGACTCTCTTCAGCTTCTG
GAGACCTCACTATCCTATTATGTCCTTTGTGTGAAGACATGCTGCTTTGTAATTATCGAAAGTGTCGCATCAAACT
CTCTGGCTATGCATGGGTCACTGCCTGCTCTCACATCTTCTGTGATCAGCATGGCAGTGGTGAGTTTAGTCGCTC
ACCAGCTATCTGTCTGCTGCAACAGTACCCTTTCTGGAAAGCTAGATATTGTCCGCACAGAACTCAGTCCATC
AGAGGAATATAAAGCTATGGTATTGGCAGGACTGCGACCAGAGATCGTGTTGGACATTAGCTCCCGAGCGCTGGC
CTTCTGGACATATCAGGTACATCAGGAACGTCTCTATCAAGAATACAATTTAGCAAGGCTGAGGGCCATCTGAA
ACAGATGGAGAAGATATATACTCAGCAAATACAAAGCAAGGATGTAGAATTGACCTCTATGAAAGGGGAGGTTAC
CTCCATGAAGAAAGTACTAGAAGAATACAAGAAAAAGTTTCAAGTACATCTCTGAGAACTTATGGAGCGCAATCG
TCAGTATCAAAAGCTCCAAGGCCTCTATGATAGCCTTAGGCTACGAAACATCACTATTGCTAACCATGAAGGCAC
CCTTGAACCATCCATGATTGCACAGTCTGGTGTCTTGGCTTCCCATTAGGTAACAACCTCCAAGTTTCTTTGGA
TAATACACCTGTTTCGAAATCGGGGCGATGGAGATGGAGATTTTCAGTTCAGACCATTTTTTGCGGGTTCTCCAC
AGCACCTGAACCCAGCAACAGCTTTTTTTAGTTTTGTCTCTCCAAGTCGTGAATTAGAGCAGCAGCAAGTTTCTAG
CAGGGCCTTCAAAGTAAAAAGAATTTGAGCCACGCATAGTGTACGCACCTGTGATCCCAGCTACTTAGGAGGTT
GAGGCTGGGAGGATCACTTGAGCCCAGGAGTCTGAGGCTTTAGTGATCTAAGATCATGCCACTGCACTCCAGCCT
GGGCAACAGAGTGAGACCCTGTTTCTAAAAAAAATAAAGATAATTTAGCTAACTTCAAAAAAAAAAAAAAAAAAA
AAC

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FIGURE 4007

MSLCEDMLLCNYRKCRIKLSGYAWVTACSHIFCDQHGSGEFSRSPAICPACNSTLSGKLDIVRTELSPSEYKAM
VLAGLRPEIVLDISSRALAFWTYQVHQRLYQEYNFSKAEGHLKQMEKIYTQQIQSKDVELTSMKGEVTSMKKVL
EEYKKKFSDISEKLMERNRQYQKLQGLYDSLRLRNITIANHEGTLEPSMIAQSGVLGFPLGNNSKFPLDNTFVRN
RGDGDGDFQFRPFFAGSPTAPEPSNSFFSFVSPSRELEQQQVSSRAFKVKRI

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FIGURE 4008

GAGTGGCCGGGAGATGATGGCTGATGAAGAGGAAGAAGTCAAGCCGATCTTGCAGAAATTGCAGGAACTCGTGGA
TCAGCTCTACTCATTTCGAGACTGCTATTTTCGAGACACATAGTGTGAGGATGCTGGGAGGAAGCAACAGGATGT
GCAGAAGGAGATGGAGAAAACCCTACAGCAGATGGAAGAAGTAGTGGGTTCTGTCCAGGGCAAGGCACAAGTTCT
AATGCTAACTGGGAAAGCACTAAATGTGACTCCTGACTATAGCCCTAAGGCTGAGGAGCTTCTGTCAAAGGCTGT
GAAGCTGGAGCCCGAGCTGGTGGGAAGCCTGGAACCAGCTGGGTGAGGTGTACTGGAAAAAAGGGGATGTTGCAGC
TGCCACACCTGCTTCTCAGGAGCCCTCACCCATTGCAGGAACAAAGTCTCCTTGCAAAACCTGTCAATGGTGCT
TCGTGAGCTGCGGACTGACACTGAAGATGAACATTCTCACCATGTTCATGGACAGTGTCCGACAGGCTAAGTTGGC
TGTTTCAGATGGATGTCCATGATGGCCGCTCCTGGTATATTCTTGGAATTCATATCTTTCCCTTTACTTCTCTAC
TGGCCAGAACCCTAAGATCTCCCAGCAAGCCCTCAGTGCCTATGCCCCAAGCAGAGAAAGTTGACAGAAAAGCTTC
TAGCAATCCTGACCTTCATCTGAACAGGGCGACGTTGCATAAATATGAAGAGAGTTATGGGGAGGCCCTGGAGGG
CTTCTCTCGGGCTGCAGCCCTGGACCCTGCCTGGCCAGAGCCCCGGCAACGAGAGCAACAACCTTCTGGAATTCCT
GGATAGATTAACCAGCCTCCTTGAGAGTAAGGGAAAGGTGAAGACCAAAAAGCTGCAGAGCATGCTGGGAAGCTT
GCGCCCAGCCCATCTAGGCCCTTGACGTGATGGGCACTATCAGTCAGCCTCTGGGCAGAAAGTGACCCTGGAGCT
CAAGCCACTGAGTACGCTTCAGCCTGGGGTGAACAGCGGTGCCGTATCCTGGGAAAGGTGGTATTTAGCCTCAC
CACAGAGGAGAAAGTCCCCCTTTACATTTGGCCTGGTAGATTTCAGATGGACCTTGCTATGCAGTGTGGTGTACAA
TATAGTGCAGAGCTGGGGAGTGCTCATTGGAGACTCTGTAGCCATTCTGAGCCCAACCTGCGGCTTCACCGAAT
TCAGCACAAGGAAAGGACTATTCTTTTCCAGTGTTCGAGTGGAGACGCCCCCTCCTGCTAGTGGTGAATGGGAA
GCCTCAGGGATCCAGCAGCCAGGCTGTTGCCACAGTGGCATCGCGACCACAGTGTGATGACTTTGACTTGCAT
GCTCAACAGGGAGTGGAGGAGAGGAGACAAGGCTCTGGACAGCCGGTCCAGCCACATCCAGTGATTTCAGCAGGGA
TGGGAGGAATGTTTTAAATGAAGACTTTCTTTTCCCTGCCTGTATTACACTTCGTATCTCTTCTCTCTCCTCTG
TCCTCATCATGTTCCAGCTCTCTACAGGGCCACATACTCTTCTGGCATATCTCTCCTGTCTCTTCCACTGCTCTC
TATGTTTTTAAGCAAAGAGCATGGAATTGGTAGAAGTCTTGGGATCTTGCCATGGGACAGAGTCCCCAAGGTTCT
GTTGTTGCCTCCTTCCTAAGCCTCATATGTATATATCAGTTCAGTATTTATTGCTAAAGGAGGGGGCTTAATTTT
GTAATGGCTTTTATTTTTTAGCAATTTTTATTTTTATTTTTGAACTTTAGGTCCTTCCTCTTCTTTGGGGCTGGAA
CAGAATTAAATTTGTTTGG

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FIGURE 4009

MMADEEEEEVKPILQKLQELVDQLYSFRDCYFETHSVEDAGRKQQDVQKEMEKTLOQMEEVVGSVQGKAQVLMITG
KALNVTPDYSPKAEELLSKAVKLEPELVEAWNQLGEVYWKKGDVAAAHTCFSGALTHCRNKVSLQNLSMVLRLR
TDTEDEHSHHVMDSVRQAKLAVQMDVHDGRSWYILGNSYLSLYFSTGQNPKISQQALSAYAQAQAEKVDRKASSNPD
LHLNRATLHKYEESYGEALEGFSRAAALDPAPPEPRQREQQLEFLDRLTSLLESKGKVKTKKLQSMGLSLRPAH
LGPCSDGHYQSASGQKVTLELKLPLSTLQPGVN SGAVILGKVVFSLTTEEKVPFTFGLVDS DGPCYAVMVYNIVQS
WGV LIGDSVAIPEPNLRLHRIQHKGDYSFSSVRVETPLLLVVNGKPQGSSSQAVATVASRPQCE

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FIGURE 4010

GCTGCTCTCCTGATCATGGCTTCTCCGAGTTCTTTACCTACTATTGCCCTCCATCTTCCTCCCCCGTCTGGTCA
GAGCCGCTGTACAGTCTGAGGCCCCGAGCACGCGGAGAGCGGTTGCAGGACGACTCGGTGGAAACAGTCACGTCC
ATAGAACAGGCAAAAGTAGAAGAAAAGATCCAAGAGGTCTTCAGTTCTTACAAGTTCAACCACCTTGTACCAAGG
CTTGTTTTTGAGAGGGAGAACACTTCCATTATCTGAAAAGAGGCCTTCGACAACTGACAGATGCCTATGAGTGT
CTGGATGCCAGCCGCCCATGGCTCTGCTATTGGATCCTGCACAGCTTGGAAGTGTAGATGAACCCATCCCCCAG
ATAGTGGCTACAGATGTGTGTCAGTTCTTGAGCTGTGTGTCAGAGCCCAGAAGGTGGCTTTGGAGGAGGACCCGGT
CAGTATCCACACCTTGCACCCACATATGCAGCAGTCAATGCATTGTGCATCATTGGCACCGAGGAGGCCTATGAC
ATCATTAAACAGAGAGAAGCTTCTTCAGTATTTGTACTCCCTGAAGCAACCTGACGGCTCCTTTCTCATGCATGTC
GGAGGTGAGGTGGATGTGAGAAGCGCATACTGTGCTGCCTCCGTAGCCTCGCTGACCAACATCATCACTCCAGAC
CTCTTTGAGGGCACTGCTGAATGGATAGCAAGGTGTGAGAACTGGGAAGGTGGCATTGGCGGGGTACCAGGGATG
GAAGCCCATGGTGGCTATACCTTCTGTGGCTGGCCGCGCTGGTAATCCTCAAGAGGGAACGTTCCCTTGAACCTG
AAGAGCTTATTACAATGGGTGACAAGCCGGCAGATGCGATTTGAAGGAGGATTTCAAGGGCCGCTGCAACAAGCTG
GTGGATGGCTGCTACTCCTTCTGGCAGGCGGGGCTCCTGCCCCGCTCCACCGCGCACTGCACGCCCCAAGGTGAC
CCTGCCCTTAGCATGAGCCACTGGATGTTCCATCAGCAGGCCCTGCAGGAGTACATCCTGATGTGCTGCCAGTGC
CCTGCGGGGGGCTTCTGGATAAACCTGGCAAGTCGCGTGATTTCTACCACACCTGCTACTGCCTGAGCGGCCTG
TCCATAGCCCAGCACTTCGGCAGCGGAGCCATGTTGCATGATGTGGTCTCTGGGTGTGCCGAAAACGCTCTGCAG
CCCCTCACCCAGTGTACAACATTGGACCAGACAAGGTGATCCAGGCCACTACATACTTTCTACAGAAGCCAGTC
CCAGGTTTTTGAGGAGCTTAAGGATGAGACATCGGCAGAGCCTGCAACCGACTAGAGGACCTGGGTCCCGGCAGCT
CTTTGCTCACCCATCTCCCCAGTCAGACAAGGTTTTATACGTTTCAATACATACTGCATTCTGTGCTACACAAGCC
TTAGCCTCAGTGGAGCTGTGGTTCTCTTGGTACTTTCTTGTCAAAACAAAACCAATGGCTCTGGGTTTGAGAACA
CAGTGGCTGGTTTTTAAAAATTCTTTCCACACCTGTCAAACCAAAAATCTATCAGCCACGTTGGTGTGGTTGGTGA
ACAGTGCATGCCAGGAGGAAGCAGTCCCTCCTCACCAGCTCTCCAGCCAGGACGATCACACAGAGATGAATGGCA
TCTGAGTATTACGGCATCCAGAGCCACTGCTGACTCCCACTTGACGCCACCATTAGTCACCAGACTGGGTGCC
CTCCGATGGGTGGAATAAGTCTGCTTCATGCCAAGGCTGGGCTTTGGGTCCCACCAAGATGAGTTCTCTGTAAGA
CTGTGGTGGAGTTGCACCAGGAGGTGCCTCTGCCTCTCGACTTGACCCCTGGTCATTTGTAAGGGAAAAGAGCTG
GAGGTGGGGAGAGAAAGATCTCCTTCAGTTGGGAGTCTTCCACTTCAACACTGGAGAACTGAGCCTTGATCTC
TCCAGGGTCCAAGGCCACGCTTGTTGCACAGGCAAGACTTGCTTCAGCCCCAGGTGTGGTGACTTAGACCTAGGA
AACCAATTATGAGTGGAAAGTGACCCTCTAGTTCAACTGTGCCAGAGGAAAACAGCCCTCCAGTGCCACCTGCCT
CACTCCTCCCTATCATGTACCGTGAAAACCCCTCTGATGGCCTCAAGGCAGTGCCTGCAGGCCGAGGCCCTTCT
GGGGGTTTTCTATCTTTCTTCCACCAGACTCCAAGCCCACTCTCCTCCAAGACTGTGTTGTCTTTTCTACCAAGA
GTATTAACACTACTAAGTCTTTACCTTAACTTATGACTCAGGATTTATTACGTCCTGCCACTCTAGGCTCAC
AGGAATAAAATCAAGTGCTAGACACACTGGCTGCTACTAAGGCACTAGCCTCTGTAGCTGGTGGTGGCAGCGTGG
GGTGCCGCCCAGCGTGTGGTCTGGCAGTGCCTCTGCTGTGCTGCACATTGAGCCCTTTCTCAGTCAGTGGAG
TATCAAGTTGGGCCATCTGTCTACTGACCTGGCCTTATGTAAGCAGCTGTGGGCTGCGGGCAGACAGGAGCTCA
GAGATGCAGCATGAGGCGCTTAGAAAAACCTGGCCATTTGCTGCCTCTAATTCCCTTTTGCTTTGCCATATTGGG
CTATGTATTACCTCCTTGAAATAATAAAGAATAACATTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4011

MASPSSFTYYCPPSSSPVWSEPLYSLRPEHARERLQDDSVETVTSIEQAKVEEKIQEVFSSYKFNHLVPRVLQR
EKHFHYLKRGLRQLTDAYECLDASRPWLCYWILHSLELLDEPIPQIVATDVCQFLELCQSPEGGFGGGPGQYPHL
APTYAAVNALCIIGTEEAYDIINREKLLQYLYSLKQPDGSFLMHVGGEVDVRSAYCAASVASLTNIITPDLFEGT
AEWIARCQNWEGGIGGVPGMEAHGGYTFCGLAALVILKRERSLNLSLLQWVTSRQMRFEGGFQGRCNKLVDGCY
SFWQAGLLPLLHRALHAQGDPAISMHWMFHQQALQEYILMCCQCPAGGLLDKPGKSRDFYHTCYCLSGLSIAQH
FGSGAMLHDVVLGVPENALQPTHPVYNIGPDKVIQATTYFLQKPVPGFEEKDETSAPATD

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FIGURE 4012

CGGCCTCTCTGCGGGGCTCACTCTGCGCTTCACCA**ATG**GCTTTTCATTGCCAAGTCCTTCTATGACCTCAGTGCCAT
CAGCCTGGATGGGGAGAAGGTAGATTTCAATACGTTCCGGGGCAGGGCCGTGCTGATTGAGAATGTGGCTTCGCT
CTGAGGCACAACCACCCGGGACTTCACCCAGCTCAACGAGCTGCAATGCCGCTTTCCAGGCGCCTGGTGGTCCCT
TGGCTTCCCTTGCAACCAATTTGGACATCAGGAGAACTGTCAGAATGAGGAGATCCTGAACAGTCTCAAGTATGT
CCGTCTGGGGGTGGATACCAGCCCACCTTCACCCCTTGTCAAAAATGTGAGGTGAATGGGCAGAACGAGCATCC
TGTCTTCGCCTACCTGAAGGACAAGCTCCCCTACCCTTATGATGACCCATTTTCCCTCATGACCGATCCCAAGCT
CATCATTGGAGCCCTGTGCGCCGCTCAGATGTGGCCTGGAACCTTGAGAAGTTCCTCATAGGGCCGGAGGGAGA
GCCCTTCCGACGCTACAGCCGCACCTTCCCAACCATCAACATTGAGCCTGACATCAAGCGCCTCCTTAAAGTTGC
CATA**TAG**ATGTGAACTGCTCAACACACAGATCTCCTACTCCATCCAGTCCTGAGGAGCCTTAGGATGCAGCATGC
CTTCAGGAGACACTGCTGGACCTCAGCATTCCCTTGATATCAGTCCCCTTCACTGCAGAGCCTTGCCCTTCCCT
CTGCCTGTTTCTTTCTCTCCCAACCCTCTGGTTGGTGATTCAACTTGGGCTCCAAGACTTGGGTAAGCTCTG
GGCCTTCACAGAATGATGGCACCTTCCTAAACCCTCATGGGTGGTGTCTGAGAGGCGTGAAGGGCCTGGAGCCAC
TCTGCTAGAAGAGACCAATAAAGGGCAGGTGTGGAAACGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4013

MAFIAKSFYDLSAISLDGEKVDNFNFRGRAVLLRMWLRSEGTTTRDFTQLNELQCRFPRLVVLGFPCNQFGHQE
NCQNEEILNSLKYVRPGGGYQPTFTLVQKCEVNGQNEHPVFAYLKDKLPYPYDDPFSLMTDPKLIWSPVRRSDV
AWNFEKFLIGPEGEFFRRYSRTFPTINIEPDIKRLKVAI

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FIGURE 4014A

GTTTGATATCTACACTCAGTATTGCAACAATTACCCCAACTCCGTGGCCGCCCTGACGGAATGCATGCGGGACAA
GCAGCAGGCCAAGTTCTTTTCGGGACCGGCAGGAGCTGCTACAGCACTCGCTGCCCTTGGGCTCCTACCTGCTGAA
GCCAGTCCAGCGCATCCTCAAGTACCACCTGCTGCTCCAGGAAATTGCCAAGCATTTTTGATGAAGAAGAGGATGG
CTTTGAGGTGGTGGAGGATGCCATTGACACCATGACCTGTGTGGCCTGGTACATCAACGACATGAAGAGGAGGCCA
TGAGCACGCGGTCCGGCTCCAGGAGATTGAGTCACTCCTCATCAACTGGAAGGGGCCCCGACCTGACCACCTACGG
GGAGCTTGTCTGAGGGGCACATTCCGCGTGCATCGCGTGCCTCAATGAAAGGACCTTTTTCTCTTTTGACAAAAC
ACTGCTTATCACCAAGAAGCGGGGCGATCACTTTGTCTACAAGGGCAACATCCCGGTAACCAGGCCCTGCCCCAT
CTCCTCTGCCATCTTCTCTCTCTCCCAAAGGATCTGGGCTCCCCCTTCTTGTCTGCTTCTTGGGGCTCCAGCACCA
CCCTTCTGAGATCACCTCCCTGCTTCCCCAGGCTGTCAACCTTGTGCTTGACTGTCTTTTCCCTCTGCCCCTAG
TGCTCCTCCCTGATGCTGATCGAAAGCACCAGAGACTCCCTGTGCTTCACTGTCAACCACTACAAGCACAGCAAG
CAGCAGTACAGCATCCAGGCCAAGACAGTGGAGGAGAAACGGAACTGGACTCACCACATCAAGAGGCTCATCCTA
GAGAACCACCATGCCACCATTCCCCAGAAGGCCAAGGAAGCCATCTTGAAATGGATTCTATTATCCCAATCGG
TACCGCTGCAGCCCAGAGCGGTGAAGAAGGCTTGGTCTCCAGGATGAGGTGTCCACCAATGTGCGCCAGGGG
CGCCGGCAATCTGAGCCAACCAAACACCTGCTCAGGCAACTCAACGAGAAAGGTGAGTGTGTGAGGTGGCCAGCC
ATTCACAGTGAGCGGGGAGGAGGAGGGAGGGGAAGCAGCCGACAACCTGGGGTGTGACCTGAGGGTGGAGG
ATTGTGAGAATAGTGTAGAGGGAACCTGCTCCATTCCCCCAGAAGAGGGCTCGCCCCCTGGCTGGCTGAGGA
GAGGGGCTGGAGCTCTCCCCATGCACAGGCCTCATGCCCTTCTCTCGGAAACAATGAGAGCCGAGCAACAGGC
ACAGACCTGCGCTGCTCTGTGGCCCCCTGGGGCCCTGCTCTGTGAGTCACTCTTTTGAAAGCCAGGAGACTAGGT
GAGGGTTCTGGGAGCAGGAGCCCCAGTGAGGACTTCCCCAGGGAGCTGTCCAGAGGTCTTTTTCTGCTTACTG
ATCTCTTCCCCCTCCCCCTGCCCTCGCCCGTGTGCTGGGGGACCCGGTGGTGATGTCTGCAGCCCGAGCAG
CAGGAATGAAGGGAAAGGGGCGCAGGGAGTCTGAAAGCTCCAGGAGCAGCAGAAGGCCAGTGCCCGGTCTCCAA
CCAGTACTGAGAAGCGCATGAGCTTCGAGTCCATTTCTTCCCTGCCAGAGGTTGAGCCGACCCTGAGGCTGGGA
GTGAGCAAGAGGTATTTTCTGCTGTGGAAGGGCCAGTGCCAGGAGACGCCTTCAGACACAGAATCTCCAGAAG
TCCTGGAGACACAGCTTGATGCCCCACCAGGGCCTTCTGGGGATGGACCCCCCAGGTGACATGGTGGACTTCGTGG
CAGCTGAGAGCACTGAGGACCTTAAGGCCCTGAGCAGCGAGGAGGAAGAAGAAATGGGAGGTGCCGCCAGGAGC
CTGAGAGCCTTCTGCCACCTCTGTGCTGGACCAGGCCAGCGTCAATTGCGGAGCGATTTGTGAGCAGCTTCTCTC
GGCGGAGCAGCGTGGCACAGGAGGACAGCAAGTCCAGTGGCTTTGGGAGCCCGCGGCTGGTCAGCCGGAGCAGCA
GCGTGCTCAGCCTGGAGGGCAGCGAGAAGGGCCTGGCCCGGCATGGCAGTGCCACAGACTCCCTCAGCTGTGAGC
TCTCCCCAGAAGTGAGCATCAGTGTGGGGGTGGCCACAGAGGACAGCCCTTCTGTCAATGGGATGGAGCCCCCAA
GCCAGGCTGCCAGTGAGGCTGACCGGTCTTCTGCAAGAAGAAGGAATCAGCACTCTCCACCCGAGACCGGC
TGTTGCTAGACAAGATTAAGAGCTATTAAGAAATGCAGAACACCATGATGCAGGCTTCAGCGTCCGTCGCCGGG
AGAGCCTCTCCTACATCCCCAAAGGACTGGTAAGAACTCCATCTCCAGGTTCAACAGCCTTCCCCGGCCAGACC
CAGAGCCAGTACCTCCAGTGGGGAGCAAGAGACAGGTGGGCTCCCGGCCGACTTCGTGGGGCCTGTTTGAGCTCC
CAGGACCAAGCCAGGCAGTCAAAGGGGACCCACCTCCCATCTCAGATGCTGAGTTCCGCCCCTCTTCAGAAATTG
TGAAGATCTGGGAGGGAATGGAGTCTTCCGAGGGAGCCCTGGGAAGGGGCCAGGCCAGGGCCAGGCCAATGGCT
TTGACCTGCATGAGCCACTCTTCATCCTGGAGGAGCATGAGCTGGGAGCCATCACAGAGGAGTCGGCCACTGCCT
CCCCGAAAGCTCCTCTCCCACTGAGGGGCGCAGCCCGGCCACCTGGCCCCGGGAGCTGAAAGAGCTGGTGAAGG
AGCTGAGCAGCAGTACCCAGGGGAGCTGGTGGCCCCACTGCACCCCCGCATCGTGCAGCTCTCCACGTAATGG
ACAGCCACGTGAGCGAGCGCGTCAAGAACAAGGTCTACCAGCTGGCCCCGAGTACAGCCTCCGGATCAAGAGCA
ACAAGCCAGTGATGGCCAGGCCACCACTGCAGTGGGAAAAGGTGGCCCCCTGAGAGGGATGGGAAGAGCCCCACTG
TGCCCTGTCTACAGGAAGAGGCTGGAGAGCCATTAGGTGGCAAAGGTAAGAGGAAGCCGGTGTGTCTCTATTG
ACTATGAGCAGCTGATGGCCAGGAGCACAGCCCTCCCAAGCCCTCCTCGGCTGGGGAGATGTCACCACAGCGTT
TCTTCTTCAACCCGTCTGCTGTGAGCCAGAGGACCCTCGCCTGGGGGCGGCCCTCCGCCCCGAGCCCCCTCA
GCCCCACAGAGACCTTCAGCTGGCCCCAGCTCCGTGAGCTCTGCTCCAAGTATGCCTCCCGCGATGAGGCACGCC
GAGCAGGGGGCGGCCGGCCCCGCGGCCACCCGTCAACAGGAGCCACTCGGTGCCGGAGAATGGTAGAGCCAC
CTCTGTGCGGGCAGGGTGGGCCGCTGCCGCGACCTGAGCACCAGAGGGGGCCGGGGAGGCGGAGAGGCTGCCCAAT
CCCCTGGGCCTCTGCCCCAGAGCAAGCCGGATGGAGGCGAGACCCTGTATGTCACTGCAGACCTCACCTGGAGG
ACAACCGGCGGGTGATTGTGATGGAGAAGGGACCCCTTCCAGCCCCACTGCAGGGCTGGAGGAGAGCAGTGGCC

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FIGURE 4014B

AGGGACCAAGCTCACCGGTGGCCCTGCTGGGGCAGGTTTCAGGACTTCCAGCAGTCTGCAGAGTGCCAGCCGAAGG
AAGAGGGTTCCAGGGACCCGGCAGACCCGAGCCAGCAGGGCAGAGTGAGAAACCTTAGAGAGAAGTTCCAGGCCT
TGA ACTCTGT CGGTTGATGCTGACTCCTGGGGGAGGGAGGAGTCATGTTGGAGGTTGGGGAAGAACCTGGGCATC
CTTCCCCTCAAGCCTGGGCTCATGGAGCCCCTGCCCAGGGCCCTCAGGTGGGCGGAAAGTCCATCCCCTCCGCCC
TTCAGGAAGGATGCTCCCGTGTGCAGGGGTCTCCTGCCTGTGCCATCCACTGGGGCTCGAGACAATTTCCCACTC
ACCTGTGAGGCCGGTGTGGCTGCTTCCCTTGTAATAGTTGTTCTCTGGTAAGAAGCCAAATATTTAAGCTCACT
TCTTCCAGAGAGAGGAAGCTCTGCTCAGGCCTCCAGCGTTGGCTGGCCATGGCCACAGCCAGATGGAGGAGCCC
ATCCCAGGAGACTCAGGCAGTGGCCTGGAGAGGCTTTGTTCTGTAAACGGTGCCTTTTCTTAGGGTCCAGGCAGG
AATGAAGCCAATAATTTATTGCTTTCATTCTGTGGTATGATGTGCGTGTGCGTGAGTGTGTGGCCCCTGTTTAT
TCCCCTCCTGTCAAGAATGAAGTGGATTCAAGTTCAGGTACTTTTGAGGGTTGTTGTGCTGACCCTGTGGTTGTCTG
CTGATGTACACACATTTCAATTATTGCCAATGGTGCAATAACCACTGCTGACCAACCCA

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FIGURE 4015

MGKGRRESESSRSSRRPSGRSPTSTEKRMSEFESSISLPEVEPDPEAGSEQEVFSAVEGPSAEETPSDTESEVLE
TQLDAHQGLLGMDPPGDMVDFVAAESTEDLKALSSEEEEEEMGGAAQEPESLLPPSVLDQASVIAERFVSSFSSRRS
SVAQEDSKSSGFGSPRLVSRSSSVLSLEGSEKGLARHGSA TDSLSCQLSPEVDISVGVATEDSPSVNGMEPPSPG
CPVEPD RSSCKKKESALSTRDRLLLDKIKSYENAEHHDAGFSVRRRESLSYIPKGLVRNSISRFNLSLPRPDPEP
VPPVGSKRQVGSRPTSWALFELPGPSQAVKGDPPPISDAEFRPSSEIVKIWEGMESSGGSPGKGPQGQANGFDL
HEPLFILEEHHELGAITEESATASPESSSPTTEGRSPAHLARELKELVKELSSSTQGELVAPLHPRIVQLSHVMDSH
VSERVKNKVYQLARQYSLRIKSNKPVMPARPLQWEKVAPERD GKSP TVPCLQEEAGEPLGGKGKRKPVLSLFDYE
QLMAQEHSPPKPSSAGEMSPQRFFFNPSAVSQRTTSPGGRPSARSPLSPTETFSWPDVRELCSKYASRDEARRAG
GGRPRGPPVNRSHSVPENMVEPPLSGRVGRCRSLSTKRGRGGGEAAQSPGPLPQSKPDGGETLYVTADLTLEDNR
RVIVMEKGPLPSPTAGLEESSGQGPSSPVALLGQVQDFQQAECQPKKEGSRDPADPSQQGRVRNLREKFQALNS
VG

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FIGURE 4016A

CACGAGGCAGCACTCTCTTCGTCGCTTCGGCCAGTGTGTCTGGGCTGGGCCCTGACAAGCCACCTGAGGAGAGGGCT
CGGAGCCGGGCCCCGGACCCCGGCGATTGCCGCCGCTTCTCTCTAGTCTCACGAGGGGTTTCCCGCCTCGCACCC
CCACCTCTGGACTTGCCTTTCTCTCTCTCCGCGTGTGGAGGGAGCCAGCGCTTAGGCCGGAGCGAGCCTGGG
GGCCGCCCGCCGTGAAGACATCGCGGGGACCGATTACCA**ATG**GAGGGCGCCGGCGGCGGAACGACAAGAAAAAG
ATAAGTTCTGAACGTGCAAAAGAAAAGTCTCGAGATGCAGCCAGATCTCGGCGAAGTAAAGAATCTGAAGTTTTT
TATGAGCTTGCTCATCAGTTGCCACTTCCACATAATGTGAGTTCGCATCTTGATAAGGCCCTCTGTGATGAGGCTT
ACCATCAGCTATTTGCGTGTGAGGAACTTCTGGATGCTGGTGATTTGGATATTGAAGATGACATGAAAGCACAG
ATGAATTGCTTTTATTTGAAAGCCTTGGATGGTTTTGTTATGGTTCTCACAGATGATGGTGACATGATTTACATT
TCTGATAATGTGAACAAATACATGGGATTAACTCAGTTTGAACAACTGGACACAGTGTGTTTGATTTTACTCAT
CCATGTGACCATGAGGAAATGAGAGAAATGCTTACACACAGAAATGGCCTTGTGAAAAAGGGTAAAGAACAAAAC
ACACAGCGAAGCTTTTTTCTCAGAAATGAAGTGTACCCTAACTAGCCGAGGAAGAACTATGAACATAAAGTCTGCA
ACATGGAAGGTATTGCACTGCACAGGCCACATTACAGTATATGATACCAACAGTAACCAACCTCAGTGTGGGTAT
AAGAAACCACCTATGACCTGCTTGGTGCTGATTTGTGAACCCATTCCCTCACCCATCAAATATTGAAATTCCTTTA
GATAGCAAGACTTTCTCAGTCGACACAGCCTGGATATGAAATTTCTTATTGTGATGAAAGAATTACCGAATTG
ATGGGATATGAGCCAGAAGAAGTCTTAGGCCGCTCAATTTATGAATATTATCATGCTTTGGACTCTGATCATCTG
ACCAAACTCATCATGATATGTTTACTAAAGGACAAGTCACCACAGGACAGTACAGGATGCTTGCCAAAAGAGGT
GGATATGTCTGGGTTGAACTCAAGCAACTGTCATATATAACACCAAGAATTCTCAACCACAGTGCATTGTATGT
GTGAATTACGTTGTGAGTGGTATTATTACAGCAGCACTTGATTTTCTCCCTTCAACAAACAGAATGTGTCCTTAA
CCGGTTGAATCTTCAGATATGAAAATGACTCAGCTATTACCAAAGTTGAATCAGAAGATAAAGTAGCCTCTTT
GACAACTTAAGAAGGAACCTGATGCTTTAACTTTGCTGGCCCCAGCCGCTGGAGACACAATCATATCTTTAGAT
TTTGGCAGCAACGACACAGAACTGATGACCAGCAACTTGAGGAAGTACCATTATATAATGATGTAATGCTCCCC
TCACCAACGAAAAATTACAGAATATAAATTTGGCAATGTCTCCATTACCCACCGCTGAAACGCCAAAGCCACTT
CGAAGTAGTGCTGACCCTGCACTCAATCAAGAAGTTGCATTAAATTAGAACCAATCCAGAGTCACTGGAACCTT
TCTTTTACCATGCCCCAGATTACAGGATCAGACACCTAGTCCTTCCGATGGAAGCACTAGACAAAGTTCACCTGAG
CCTAATAGTCCCAGTGAATATTGTTTTTATGTGGATAGTGATATGGTCAATGAATTCAAGTTGGAATTGGTAGAA
AAACTTTTTTGCTGAAGACACAGAAGCAAAGAAGCCATTTTCTACTCAGGACACAGATTTAGACTTGAGATGTTA
GCTCCCTATATCCCAATGGATGATGACTTCCAGTTACGTTTCTTCGATCAGTTGTCACCATTAGAAAGCAGTTCC
GCAAGCCCTGAAAGCGCAAGTCTCAAAGCACAGTTACAGTATTCCAGCAGACTCAAATACAAGAACCTACTGCT
AATGCCACCCTACCCTGACCACCCTGATGAATTAACCAAGTACAGTACAAAAGACCGTATGGAAGACATTAAATA
TTGATTGCATCTCCATCTCTACCCACATACATAAAGAACTACTAGTGCCACATCATCACCATATAGAGATACT
CAAAGTCGGACAGCCTCACCAAAACAGAGCAGGAAAAGGAGTCATAGAACAGACAGAAAAATCTCATCCAAGAAGC
CCTAACGTGTTATCTGTGCTTTGAGTCAAAGAAGTACAGTTCTGAGGAAGAACTAAATCCAAAGATACTAGCT
TTGCAGAATGCTCAGAGAAAGCGAAAAATGGAACATGATGGTTCACTTTTTCAAGCAGTAGGAATTGGAACATTA
TTACAGCAGCCAGACGATCATGCAGCTACTACATCACTTTCTTGAAACGTGTAAAAGGATGCAATCTAGTGAA
CAGAAATGGAATGGAGCAAAAGACAATTATTTAATACCCTCTGATTTAGCATGTAGACTGCTGGGGCAATCAATG
GATGAAAGTGGATTACCACAGCTGACCAGTTATGATTGTGAAGTTAATGCTCCTATACAAGGCAGCAGAAACCTA
CTGCAGGGTGAAGAATTACTCAGAGCTTTGGATCAAGTTAACT**TGAG**CTTTTTCTTAATTTCAATTCCTTTTTTTGG
ACACTGGTGGCTCACTACCTAAAGCAGTCTATTTATATTTTCTACATCTAATTTTAGAAGCCTGGCTACAATACT
GCACAACTTGGTTAGTTCAATTTTGTATCCCTTTCTACTTAATTTACATTAATGCTCTTTTTTAGTATGTTCT
TTAATGCTGGATCACAGACAGCTCATTTCTCAGTTTTTTGGTATTTAAACCATGCAATGCACTAGCATCATTT
TAAAAATGCACCTTTTTATTTATTTATTTTGGCTAGGGAGTTTATCCCTTTTTCGAATATTTTTTAAGAAGAT
GCCAATATAATTTTTGTAAGAAGGCAGTAACCTTTCATCATGATCATAGGCAGTTGAAAAATTTTACACCTTTT
TTTTACATTTTACATAAATAATAATGCTTTGCCAGCAGTACGTGGTAGCCACAATGCACAATATATTTCTTA
AAAAATACCAGCAGTTACTCATGGAATATATCTGCGTTTATAAACTAGTTTTTAAGAAGAAATTTTTTTTGGC
CTATGAAATTGTTAAACCTGGAACATGACATTGTTAATCATATAATAATGATTCTTAAATGCTGTATGGTTTATT
ATTTAAATGGGTAAAGCCATTTACATAATATAGAAAGATATGCATATATCTAGAAGGTATGTGGCATTATTTTGG
ATAAAATTTCTCAATTCAGAGAAATCATCTGATGTTTCTATAGTCACTTTGCCAGCTCAAAAAGAAAACAATACCCT
ATGTAGTTGTGGAAGTTTATGCTAATATTGTGTAACCTGATATTAAACCTAAATGTTCTGCCTACCCTGTTGGTAT

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FIGURE 4016B

AAAGATATTTTGAGCAGACTGTAAACAAGAAAAAAAAAATCATGCATTCTTAGCAAATTGCCTAGTATGTTAAT
TTGCTCAAATACAATGTTTGATTTTATGCACTTTGTCGCTATTAACATCCTTTTTTTCATGTAGATTTCAATAA
TTGAGTAATTTTAGAAGCATTATTTTAGGAATATATAGTTGTCACAGTAAATATCTTGTTTTTCTATGTACATT
GTACAAATTTTTCATTCTTTTGCTCTTTGTGGTTGGATCTAACACTAACTGTATTGTTTTGTTACATCAAATAA
ACATCTTCTGTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4017

MEGAGGANDKKKISSERRKEKSRDAARRRSKESEVFYELAHQLPLPHNVSSHLDKASVMRLTISYLRVRKLLDA
GDLIEDDMKAQMNCFYLKALDGFVMVLTDGDMIYISDNVNKYMGLTQFELTGHSVFDFTHPCDHEEMREMLTH
RNGLVKKGKEQNTQRSFFLRMKCTLTSGRTMNIKSATWKVLHCTGHIHVYDTNSNQPCGYKKPPMTCLVLICE
PIPHPSNIEIPLDSKTFLSRHSMDKFSYCDERITELMGYEPEELLGRSIYEYYHALDSHDLTKTHHDMFTKGQV
TTGQYRMLAKRGGYVWVETQATVIYNTKNSQPQCIVCVNYVVSGIIQHDLIFSLQQTECVLKPVESSDMKMTQLF
TKVESEDTSLSLFDKLLKEPDALTLLAPAAGDTIISLDFGSNDTETDDQQLEEVPLYNDVMLPSPNEKLQININLAM
SPLPTAETPKPLRSSADPALNQEVALKLEPNPESLELSFTMPQIQDQTPSPSDGSTRQSSPEPNPSEYCFYVDS
DMVNEFKLELVEKLFAEDTEAKNPFSTQDLDLEMLAPYIPMDDDFQLRSFDQLSPLESSSASPESASPQSTVT
VFQQTQIQEPTANATTTTATDELKTVTKDRMEDIKILIASPSPTHHKETTSATSSPYRDTQSRTASPNRAGKG
VIEQTEKSHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTSL
SWKRVKGCKSSEQNGMEQKTIILIPSDLACRLQGSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQV
N

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FIGURE 4018

GGGAAGTGTGCTGTTGGAGCCGCTGTGGTTGCTGTCCGTGTAGTGAAAGCGCGTGCCTTTGTTTGTGTCCCTGGCCA
TGTGTCCCTGGCCATGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCCCTGCGTGGGAGTGCCGAAATCGTGGA
CGAGTTCTTCTCATTCGGCATCAACAGCATTATATATCAGCGTGGCATTATCCATCTGAAATCTTTACTCGAGT
GCAGAAATACGGACTCACCTTGCTTGTAAGTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGGAACA
ACTAAAAGATTGGTTATACAAGTGTTCAGTTCAGAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGT
CCTGGAAAGATGACAGTTTGATATTGAGTGTGATAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAGTCTCA
GAAAGCTATTCAGGATGAAATCCGTTTCAGTCATCAGACAGATCACAGCTACAGTGACATTTCTGCCACTGTTGGA
AGTTTCTTGTTTCATTTGATCTGCTGATTTACACAGACAAAGATTTGGTTGTACCTGAAAAATGGGAAGAGTCGGG
ACCACAGTTTATTACCAATTCTGAGGAAGTCTGCCTTTGTTTCAATTTACTACTACAATCCACAAAGTAAATAGCAT
GGTGGCCTACAAAATTCCTGTCAATGACTGAAGATGACATGAGGAAATAATGTAATTGTAATTTTGAAATGTGGT
TTTCCTGAAATCAAGTCATCTATAGTTGATATGTTTTATTTTCATTGGTTAATTTATACATGGAGAAAACCAAAAT
GATACTTACTGAACTGTGTGTAATTGTTTCCTTTTGTTTTTTTGGTACCTATTTGACTCACCATGGAGTTAACATC
ATGAATTTATTGTGCATTATTCAAAGGAACAGGAGGTTTTTTTTTTGTCAACATTGTGATGTATATTCCTTTG
AAGATAGTAACTGTAGATGGAAAACTTGTGCTATAAAGCTAAGTGCTTTCCTAAATCAGATGTTTTGGTCAAGT
AGCTTGACTCAGTATAGGTAGGGAGATATTTAATTATAAAATACAGCAAAGGAAGTCTAAATATTCAGAATCTTT
GTTAAAGTCCTGAAAGTAACTAATAATCTATAAACAATGAAATATTGCTGTGTAGCTCCTTTTGACCTTCATTTT
ATGCATAATTTTCCCTATCGAATCAGTTTCCAATTATTTGACTTTAATTTATGTAACCTGAACCTGTGAAGGGAT
GGATATTTGTACTGCTTGATGTTCTGTGATACAGAAGTCTTAAAAATTTTTTTTTGTGTTTTATAAAATCAAGTT
TTAAGTGA

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FIGURE 4019

GGAGCCGCTGTGGTTGCTGTCCGTGTAGTGAAAGCGCGTGCCTTTGTTTGTGTCCCTGGCCATGTGTCCCTGGCC
ATGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCTGCGTGGGAGTGCCGAAATCGTGGACGAGTTCTTCTCA
TTCGGCATCAACAGCATTTTATATCAGCGTGGCATTATCCATCTGAAATCTTTACTCGAGTGCAGAAATACGGA
CTCACCTTGCTTGTAACACTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGGAACTAAAGTGCAC
CCAGAGAAAAGTCTCAGAAAGCTATTCAGGATGAAATCCGTTTCAGTCATCAGACAGATCACAGCTACAGTGACAT
TTCTGCCACTGTTGGAAGTTTCTTGTTCAATTGATCTGCTGATTTACACAGACAAAGATTTGGTTGTACCTGAAA
AATGGGAAGAGTCGGGACCACAGTTTATTACCAATTCTGAGGAAGTCTGCCTTTGTTCAATTTACTACTACAATCC
ACAAAGTAAATAGCATGGTGGCCTACAAAATTCCTGTCAATGACTGAAGATGACATGAGGAAATAATGTAATTGT
AATTTTGAAATGTGGTTTTCTGAAATCAAGTCATCTATAGTTGATATGTTTTATTTTCAT

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FIGURE 4020

ATGATGTCTTATCTTAAGCAACCGCCTTACGCAGTCAATGGGCTGAGTCTGACCACTTCGGGTATGGACTTGCTG
CACCCCTCCGTGGGCTACCCGGGGCCCTGGGCTTCTTGTCCTCGCAGCCACCCCCGGAAACAGCGCCGGGAGAGG
ACGACGTTCACTCGGGCGCAGCTAGATGTGCTGGAAGCACTGTTTGCCAAGACCCGGTACCCAGACATCTTCATG
CGAGAGGAGGTGGCACTGAAAATCAACTTGCCCGAGTCGAGGGTGCAGGTATGGTTTAAGAATCGAAGAGCTAAG
TGCCGCCAACAAACAGCAACAACAGCAGAATGGAGGTCAAAACAAAGTGAGACCTGCCAAAAAGAAGACATCTCCA
GCTCGGGAAGTGAGTTCAGAGAGTGGAACAAGTGGCCAATTCACTCCCCCTCTAGCACCTCAGTCCCGACCATT
GCCAGCAGCAGTGCTCCTGTGTCTATCTGGAGCCCAGCTTCCATCTCCCCACTGTCAGATCCCTTGTCACCTCC
TCTTCCTGCATGCAGAGGTCCTATCCCATGACCTATACTCAGGCTTCAGGTTATAGTCAAGGATATGCTGGCTCA
ACTTCCTACTTTGGGGGCATGGACTGTGGATCATATTTGACCCCTATGCATCACCAGCTTCCCGGACCAGGGGCC
ACACTCAGTCCCATGGGTACCAATGCAGTCACCAGCCATCTCAATCAGTCCCCAGCTTCTCTTTCCACCCAGGGA
TATGGAGCTTCAAGCTTGGGTTTTAACTCAACCACTGATTGCTTGATTATAAGGACCAAACCTGCCTCCTGGAAG
CTTAACCTCAATGCTGACTGCTTGATTATAAAGATCAGACATCCTCGTGAAATTCCAGGTTTTGTGA

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FIGURE 4021

MMSYLKQPPYAVNGLSLTTSGMDLLHPSVGYPGPWASCPAATPRKQRRERTTFTRAQLDVLEALFAKTRYPDIFM
REEVALKINLPESRVQVWFKNRRRAKCRQQQQQQONGGQNKVRPAKKKTSPAREVSSESGETSGQFTPPSSTSVPTI
ASSAPVSIWSPASISPLSDPLSTSSSCMQRSYPMTYTQASGYSQGYAGSTSYFGGMDCGSYLTPMHQLPGPGA
TLSPMGTNAVTSHLNQSPASLSTQGYGASSLGFNSTTDCLDYKDQTASWKLNFNADCLDYKDQTSSWKQVL

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FIGURE 4022

CCAGCCAACGAGCGGAAAATGGCAGACAATTTTTTCGCTCCATGATGCGTTATCTGGGTCTGGAAACCCAAACCCT
CAAGGATGGCCTGGCGCATGGGGGAACCAGCCTGCTGGGGCAGGGGGCTACCCAGGGGCTTCCTATCCTGGGGCC
TACCCCGGGCAGGCACCCCCAGGGGCTTATCCTGGACAGGCACCTCCAGGCGCCTACCATGGAGCACCTGGAGCT
TATCCCGGAGCACCTGCACCTGGAGTCTACCCAGGGCCACCCAGCGGCCCTGGGGCCTACCCATCTTCTGGACAG
CCAAGTGCCCCCGGAGCCTACCCCTGCCACTGGCCCCCTATGGCGCCCCTGCTGGGCCACTGATTGTGCCTTATAAC
CTGCCTTTGCCTGGGGGAGTGGTGCCTCGCATGCTGATAACAATTCTGGGCACGGTGAAGCCCAATGCAAACAGA
ATTGCTTTAGATTTCCAAAGAGGGAATGATGTTGCCTTCCACTTTAACCACGCTTCAATGAGAACAACAGGAGA
GTCATTGTTTGCAATACAAAGCTGGATAATAACTGGGGAAGGGAAGAAAAGACAGTCGGTTTTCCCATTTGAAAAGT
GGGAAACCATTCAAAAATACAAGTACTGGTTGAACCTGACCACTTCAAGGTTGCAGTGAATGATGCTCACTTGTTG
CAGTACAATCATCGGGTTAAAAAACTCAATGAAATCAGCAAACTGGGAATTTCTGGTGACATAGACCTCACCAGT
GCTTCATATACCATGATATAATCTGAAAGGGGCAGATTAAAAAAAAAAAAAAAAAGAATCTAAACCTTACATGTGTA
AAGGTTTCATGTTCACTGTGAGTGAAAATTTTTACATTCAATATCCCTCTTGTAAGTCATCTACTTAATAAA
TATTACAGTGAAAG

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FIGURE 4023

MADNFSLHDALSGSGNPNPQGWP
GAWGNQPAGAGGYPGASYPGAYPGQ
APPGAYPGQAPPGAYHGAPGAYPGAP
APGVYPGPPSGPGAYPSSGQPSAP
GAYPATGPYGAPAGPLIVPYNLPLP
GGVVRMLITILGTVKPNANRIALDFQ
RGNDVAFHFNPRFNENNRVIVCNTK
LDNNWGREERQSVFPFESGKPFKIQ
VLVEPDHFKVAVNDAHLLQYNHRV
KKLNEISKLGISGDIDLTSASYTMI

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FIGURE 4024

CTGCGCCGCCTTTCTCCGCTGGCAACGGCGCCGCTCCCCGCTCCTCCTCCCCAGCCATGGCGTTACGTTGCGGG
CCTTCTGCTACATGCTGGCGCTGCTGCTCACTGCCGCGCTCATCTTCTTCGCCATTTGGCACATTATAGCATTTG
ATGAGCTGAAGACTGATTACAAGAATCCTATAGACCAGTGTAATACCCTGAATCCCCTTGTAATCCCAGAGTACC
TCATCCACGCTTTCTTCTGTGTCATGTTTCTTTGTGTCAGCAGAGTGGCTTACACTGGGTCTCAATATGCCCCCTCT
TGGCATATCATATTTGGAGGTATATGAGTAGACCAGTGATGAGTGGCCCAGGACTCTATGACCCTACAACCATCA
TGAATGCAGATATTCTAGCATATTGTCAGAAGGAAGGATGGTGCAAATTAGCTTTTTATCTTCTAGCATTTTTTTT
ACTACCTATATGGCATGATCTATGTTTTGGTGAGCTCTTAGAACAACACACAGAAGAATTGGTCCAGTTAAGTGC
ATGCAAAAAGCCACCAAAATGAAGGGATTCTATCCAGCAAGATCCTGTCCAAGAGTAGCCTGTGGAATCTGATCAG
TTACTTTAAAAAATGACTCCTTATTTTTTAAATGTTTCCACATTTTTTGCTTGTGGAAAGACTGTTTTTCATATGTT
ATACTCAGATAAAGATTTTAAATGGTATTACGTATAAATTAATATAAAATGATTACCTCTGGTGTTGACAGGTTT
GAACTTGCACCTTCTTAAGGAACAGCCATAATCCTCTGAATGATGCATTAATTACTGACTGTCCTAGTACATTGGA
AGCTTTTGTTTATAGGAACCTTGTAGGGCTCATTTTGGTTTCATTGAAACAGTATCTAATTATAAATTAGCTGTAG
ATATCAGGTGCTTCTGATGAAGTAAAATGTATATCTGACTAGTGGGAACTTCATGGGTTTCCTCATCTGTCAT
GTCGATGATTATATATGGATACATTTACAAAAATAAAAAGCGGGAATTTCCCTTCGCTTGAATATTATCCCTGT
ATATTGCATGAATGAGAGATTTCCCATATTTCCATCAGAGTAATAAATATACTTGCTTTAATTCTTAAGCATAAG
TAAACATGATATAAAAATATATGCTGAATTACTTGTGAAGAATGCATTTAAAGCTATTTTAAATGTGTTTTTATT
TGTAAGACATTACTTATTAAGAAATTGGTTATTATGCTTACTGTTCTAATCTGGTGGTAAAGGTATTCTTAAGAA
TTTGCAGGTACTACAGATTTTCAAACTGAATGAGAGAAAATTGTATAACCATCCTGCTGTTCTTTAGTGCAAT
ACAATAAACTCTGAAATTAAG

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FIGURE 4025A

ATGGAGGGGGACCGGGTGGCCGGGCGGCCGGTGCTGTCGTCGTTACCA GTGCTACTGCTGCTGCCGTTGCTAATG
TTGCGGGCCGCGGCGCTGCACCCAGACGAGCTCTTCCCACACGGGGAGTCGTGGGGGGACCAGCTCCTGCAGGAA
GGCGACGACGAAAGCTCAGCCGTGGTGAAGCTGGCGAATCCCCTGCACTTCTACGAAGCCCGATTAGCAACCTC
TACGTGGGCACCAACGGCATCATCTCCACTCAGGACTTCCCCAGGGAAACGCAGTATGTGGACTATGATTTCCCC
ACCGACTTCCCGGCCATCGCCCCTTTTCTGGCGGACATCGACACGAGCCACGGCAGAGGCCGAGTCCTGTACCGA
GAGGACACCTCCCCCGCAGTGCTGGGCCTGGCCGCCCGCTATGTGCGCGCTGGCTTCCCGCGCTCTGCGCGCTTT
ACCCCCACCCACGCCTTCCTGGCCACCTGGGAGCAGGTAGGCGCTTACGAGGAGGTCAAGCGCGGGGCGCTGCC
TCGGGAGAGCTGAACACTTTCCAGGCAGTTTTGGCATCTGATGGGTCTGATAGCTACGCCCTCTTTCTTTATCCT
GCCAACGGCCTGCAGTTCCCTTGGAACCCGCCCAAAGAGTCTTACAATGTCCAGCTTCAGCTTCAGCTCGGGTG
GGCTTCTGCCGAGGGGAGGCTGATGATCTGAAGTCAGAAGGACCATATTTTCAGCTTGACTAGCACTGAACAGTCT
GTGAAAAATCTCTATCAACTAAGCAACCTGGGGATCCCTGGAGTGTGGGCTTTCCATATCGGCAGCACTTCCCCG
TTGGACAATGTCAGGCCAGCTGCAGTTGGAGACCTTTCCGCTGCCCACTCTTCTGTTCCCCTGGGACGTTCCCTC
AGCCATGCTACAGCCCTGGAAAGTGAATAATGAGGACAATTTGGATTACTATGATGTGAATGAGGAGGAAGCT
GAATACCTTCCGGGTGAACCAGAGGAGGCATTGAATGGCCACAGCAGCATTGATGTTTCCCTTCCAATCCAAAGTG
GATACAAAGCCTTTAGAGGAATCTTCCACCTTGATCCTCACACCAAAGAAGGAACATCTCTGGGAGAGGTAGGG
GGCCAGATTTAAAAGGCCAAGTTGAGCCCTGGGATGAGAGAGAGACCAGAAGCCCAGCTCCACCAGAGGTAGAC
AGAGATTCACTGGCTCCTTCCTGGGAAACCCACCACCGTACCCCGAAAACGGAAGCATCCAGCCCTACCCAGAT
GGAGGGCCAGTGCCCTTCGGAAATGGATGTTCCCCCAGCTCATCCTGAAGAAGAAATTGTTCTTCGAAGTTACCTT
GCTTCAGGTACACTACACCCTTAAGTCGAGGGACGTATGAGGTGGGACTGGAAGACAACATAGGTTCCAACACC
GAGGTCTTCACGTATAATGCTGCCAACAAGGAAACCTGTGAACACAACCACAGACAATGCTCCCGGCATGCCTTC
TGCACGGACTATGCCACTGGCTTCTGCTGCCACTGCCAATCCAAGTTTTATGGAAATGGGAAGCACTGTCTGCCT
GAAGGGGCACCTCACCGAGTGAATGGGAAAGTGAGTGGCCACCTCCACGTGGGCCATACACCCGTGCACTTCACT
GATGTGGACCTGCATGCGTATATCGTGGGCAATGATGGCAGAGCCTACACGGCCATCAGCCACATCCCACAGCCA
GCAGCCCAGGCCCTCCTCCCCCTCACACCAATTGGAGGCCTGTTTGGCTGGCTCTTTGCTTTAGAAAAACCTGGC
TCTGAGAACGGCTTCAGCCTCGCAGGTGCTGCCTTTACCCATGACATGGAAGTTACATTCTACCCGGGAGAGGAG
ACGGTTCGTATCACTCAAACCTGCTGAGGGACTTGACCCAGAGAACTACCTGAGCATTAAAGACCAACATTCAAGGC
CAGGTGCCTTACGTCTCAGCAAATTTACAGCCACATCTCTCCCTACAAGGAGCTGTACCACTACTCCGACTCC
ACTGTGACCTCTACAAGTTCAGAGACTACTCTCTGACTTTTGGTGCAATCAACCAAACATGGTCTTACCGCATC
CACCAGAACATCACTTACCAGGTGTGCAGGCACGCCCCCAGACACCCGTCTTCCCCACCACCCAGCAGCTGAAC
GTGGACCGGGTCTTTGCCTTGTATAATGACGAAGAAAGAGTGCTTAGATTTGCTGTGACCAATCAAATTGGCCCCG
GTCAAAGAGGATTACAGACCCCACTCCGGGGAATCCTTGCTATGATGGGAGCCACATGTGTGACACAACAGCACGG
TGCCATCCAGGGACAGGTGTAGATTACACCTGTGAGTGCATCTGGGTACCAGGGAGATGGACGGAACGTGTGTG
GATGAAAATGAATGTGCAACTGGCTTTCATCGCTGTGGCCCCAACTCTGTATGTATCAACTTGCCTGGAAGCTAC
AGGTGTGAGTGCCGGAGTGGTTATGAGTTTGCAGATGACCGGCATACTTGCACTCTTGATCACCACCTGCCAAC
CCCTGTGAGGATGGCAGTCATACCTGTGCTCCTGCTGGGCAGGCCCGGTGTGTTACCATGGAGGCAGCACGTTT
AGCTGTGCCTGCCTGCCTGGTTATGCCGGCGATGGGCACCAGTGCAGTGTAGATGAATGCTCAGAAAACAGA
TGTCACCCTGCAGCTACCTGCTACAATACTCCTGGTTCTTCTCCTGCCGTTGTCAACCCGGATATTATGGGGAT
GGATTTCACTGCATACCTGACTCCACCTCAAGCCTGACACCCTGTGAACAACAGCAGCGCCATGCCCAGGCCAG
TATGCCTACCCTGGGGCCCGGTTCCACATCCCCCAATGCGACGAGCAGGGCAACTTCCTGCCCCCTACAGTGTCT
GGCAGCACTGGTTTTCTGCTGGTGCCTGGACCTGATGGTCATGAAGTTCTGGTACCCAGACTCCACCTGGCTCC
ACCCCGCCTCACTGTGGACCATCACAGAGCCACCCAGAGGCCCCCGACCATCTGTGAGCGCTGGAGGGAAAAC
CTGCTGGAGCACTACGGTGGCACCCCCCGAGATGACCACTGCTGCCCCAGTGCGATGACCTGGGCCACTTCATC
CCCCTGCACTGCCACGAAAGAGCGACTTCTGCTGGTGTGTGGACAAAGATGGCAGAGAGGTGCAGGGCACCCGC
TCCCAGCCAGGCACCCACCTGCGTGTATACCCACCGTCTGCTCCACCCATGGTCCGGCCCCACGCCCGGCCAGAT
GTGACCCCTCCATCTGTGGGCACCTTCTGCTCTATACTCAGGGCCAGCAGATTGGCTACTTACCCCTCAATGGC
ACCAGGCTTCAGAAGGATGCAGCTAAGACCCCTGCTGTCTCTGATGGCTCCATAATCGTGGGAATTGATTACGAC
TGCCGGGAGAGGATGGTGTACTGGACAGATGTTGCTGGACGGACAATCAGCCGTGCCGGTCTGGAACCTGGGAGCA
GAGCCTGAGACGATCGTGAATTCAGGTCTGATAAGCCCTGAAGGACTTGCCATAGACCACATCCGCAGAACAATG

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FIGURE 4025B

TACTGGACGGACAGTGTCTGGATAAGATAGAGAGCGCCCTGCTGGATGGCTCTGAGCGCAAGGTCCTCTTCTAC
ACAGATCTGGTGAATCCCCGTGCCATCGCTGTGGATCCAATCCGAGGCAACTTGTACTGGACAGACTGGAATAGA
GAAGCTCCTAAAATTGAAACGTCATCTTTAGATGGAGAAAACAGAAGAATTCTGATCAATACAGACATTGGATTG
CCCAATGGCTTAACTTTTGACCCCTTTCTCTAAACTGCTCTGCTGGGCAGATGCAGGAACCAAAAACTGGAGTGT
ACACTACCTGATGGAACCTGGACGGCGTGTCAATTCAAACAACCTCAAGTACCCCTTCAGCATCGTAAGCTATGCA
GATCACTTCTACCACACAGACTGGAGGAGGGATGGTGTGTATCAGTAAATAAACATAGTGGCCAGTTTACTGAT
GAGTATCTCCCAGAACACGATCTCACCTCTACGGGATAACTGCAGTCTACCCCTACTGCCAACAGGAAGAAAAG
TAAGTACAGTAATGTAAAGGAAGACTTGGAGTTTACAATCAGAACCTGGACCCCTAAAGAACAGTGACTGCAAAAGG
CAAAGAAAGTAAAAAAGGAATTGGCCATTAGACGTTTCTGAGCATCCAAGATGAACATTTTGTAGTGCAAAAAGA
CTTTTGTGAAAAGCTGATACCTCAATCTTTACTACTGTATTTTTTAAAAATGAAGGTTGTTATTGCAAGTTTAAAA
AGGTAACAGAATTTTAACTGTTGCTTATTAAAGCAACATCTTGTAACATTTATCATTAAATATTTAAAAGATCAA
ATTCATTCAACTAAGAATTAGAGTTTAAAGACTCTAAACCTGATTTTTTGCCATGGATTCCTTCTGGCCAAGAAATT
AAAGCACATGTGATCAATATAACAATATAATCCTAAACCTTGACAGTTGGAGAAGCCAATGCAGAACTGATGGGA
AAGGACCAATTATTTATAGTTTCCCAACAAAAGTTCTAAGATTTTTTACCTCTGCATCAGTGCATTTCTATTTAT
ATCAAAAGGTGCTAAAATGATTCAATTTGCATTTTCTGATCCTGTAGTGCCCTCTATAGAAGTACCCACAGAAAGT
AAAGTATCACATTTATAAATACCAAAGATGTAACAATTTTAAAATTTCTAGATTACTCCAATAAAGTGTTTTAA
GTTT

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FIGURE 4026

MEGDRVAGRPVLSLSPVLLLLLPLLMLRAAALHPDELFPHGESWGDQLLQEGDDESSAVVKLANPLHFYEARE'SNL
YVGTNGIISTQDFPRETQYVDYDFPTDFPAIAPFLADIDTSHGRGRVLYREDTSPAVLGLAARYVRAGFPRSARF
TPTHAFLATWEQVGAYEEVKRGALPSGELNTFQAVLASDGSYSALFLYPANGLQFLGTRPKESYNVQLQLPARV
GFCRGEADDLKSEGPYFSLTSTEQSVKNLYQLSNLGIPGVWAFHIGSTSPLDNVRPAAVGDLSAAHSSVPLGRSF
SHATALES DY NEDNLDYDVNEEEAEYLPGEPEEALNGHSSIDVSFQSKVDTKPLEESSTLDPHTKEGTS LG EVG
GPD LKGQVEPWDERETRSPAPPEVDRDSLAPSWETPPYPENGSIQPYPDGGPVPSEMDVPPAHPEEEIVLRSYP
ASGHTTPLSRGTIEVGLEDNIGSNTEVFTYNAANKETCEHNHRQCSRHAFC TDYATGFCCHCQSKFYGNKGHCLP
EGAPHRVNGKVS GHLHVGH TPVHFTD VDLHAYIVGNDGRAYTAISHIPQPAQAALLPLTPIGGLFGWLF ALEKPG
SENGFSLAGAAFTHDMEVTFYPGEETVRITQTAEGLDPENYLSIKTNIQGQVPYVSANFTAHISPYKELYHYSDS
TVTSTSSRDYSLTFGAINQTWSYRIHQNITYQVCRHAPRHPSFPTTQQLNVDRVFALYNDEERVLRFAVTNQIGP
VKEDSDPTPGNPCYDGS HMC DTTARCHPGTGVDYTCECASGYQGDGRNCVDENECATGFHRCGPNSVCINLP GSY
RCECRSGYEFADDRHTCILITPPANPCEDGSHTCAPAGQARCVHHGGSTFSCACLPGYAGDGHQCTDVDECS ENR
CHPAATCYNTPGSFSCRCQPGYYG DGFQCIPDSTSSLT PCEQQQRHAQAQYAYPGARFHIPQCDEQGNFLPLQCH
GSTGFCWCVDPDGHEVP GTQT PPGSTPPHCGPSPEPTQRPTTICERWREN LLEHYGGTPRDDQYVPQCDDLG HFI
PLQCHGKSDFCWCVDKDGREVGQTRS QPGTTPACIPTVAPPMVRPTPRPDVTPPSVGTFLLYTQGGQIGYLP L NG
TRLQKDAAKTLLSLHGSIIVGIDYDCRERMVYWTDVAGRTISRAGLELGAEPETIVNSGLISPEGLAIDHIRRTM
YWTDSVLDKIESALLDGSEKVL FYTDLVNPRAIAVDPIRG NLYWTDWNREAPKIETSSLDGENRRILINTDIGL
PNGLTFDPF SKLLCWADAGTKKLECTLPDGTGRRVIQNNLKYPFSIVSYADHFYHTDWR RDGVVSVNKHSGQFTD
EYLPEQRSHLYGITAVYPYCPTGRK

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FIGURE 4027

GCGGCCACCGCTTTTAAGCCACGATTGGCGAAGGCCGCCGTCATTTCCGAGCGACTCAGCGCCTGCCCGCCCTCT
CGCCGCGTCGCCGGTGCCTGCGCCTCCCGCTCCACCTCGCTTCTTCTCTCCCGGCCGAGGCCCGGGGGACCAGAG
CGAGAAGCGGGGACCATGTTCGACGCAAGTTGACGGCTCTCGACTACCACAACCCCGCCGGCTTCAACTGCAAA
GATGAAACAGAATTTAGAACTTCATCGTTTGGCTTGAAGACCAGAAAAATCAGGCACTACAAGATTGAAGACAGA
GGGAATTTAAGAAACATCCACAGCAGCGACTGGCCCAAGTTCTTTGAAAAGTATCTCAGAGATGTTCACTGTCCT
TTCAAGATTCAAGATCGACAAGAAGCTATTCCTGGCTTCTTGGTTTAGCTGTTAGACTTGAATATGGAGATAAT
GCTGAAAAATACAAGGATTTAGTACCTGATAATTCAAAAATGCTGACAATGCAACTAAAAATGCAGAACCATTG
ATCAATTTGGATGTAAATAATCCTGATTTTAAGGCTGGTGTGATGGCTTTGGCTAACCTGCTTCAGATTTCAGCGT
CATGATGATTACCTGGTAATGCTTAAGGCAATTCGGATTTTGGTTTCAGGAGCGCCTGACACAGGATGCAGTTGCT
AAGGCAAATCAAACAAAAGAGGGCTTACCTGTTGCTTTAGACAAACATATTCTTGGTTTTGACACAGGAGATGCA
GTTCTTAATGAAGCTGCTCAAATTCTGCGATTGCTGCACATAGAGGAGCTCAGAGAGCTACAGACAAAAATCAAC
GAAGCCATAGTAGCTGTTTCAGGCAATTATTGCTGATCCAAAGACAGACCACAGACTGGGAAAAGTTGGAAGATGA

ACACTTGAGGACTTCAGCTTCTCACCTACTTAGTACAGTTGGGAACCATACACTTCTGGCATGTTTGGAAATCAA
AATGTCACATTCTCGGGGGAGGAAGCCAGAAAATTGGGTATGTTCTAGAGATTTACCACCATTGCTTATTGCTT
TTTTCTTTAATAAAGTTTAGGAAAGTAGAA

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FIGURE 4028

MFRRKLTALDYHNPAGFNCKDETEFRNFIVWLEDQKIRHYKIEDRGNLRNIHSSDWPKFFEKYLRDVHCPFKIQD
RQEAIHWLLGLAVRLEYGDNAEKYKDLVPDNSKTADNATKNAEPLINLDVNNPDFKAGVMALANLLQIQRHDDYL
VMLKAIRILVQERLTQDAVAKANQKEGLPVALDKHILGFDTGDAVLNEAAQILRLHIEELRELQTKINEAIVA
VQAIADPKTDHRLGKVGR

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FIGURE 4029

CCGCACTTCCAGCTCTCTGCGCAGCCCGCCGCGCAGCCCGCCGCCCCAGCCATGGCGAAGCCCCTGACGGACCAG
GAGAAGCGGCGGCAGATCAGCATCCGCGGCATCGTGGGCGTGGAGAACGTGGCAGAGCTGAAGAAGAGTTTCAAC
CGGCACCTGCACTTCACGCTGGTCAAGGACCGCAACGTGGCCACCACCCGCGACTACTACTTCGCGCTGGCGCAC
ACGGTGC GCGACCACTGGTGGGGCGCTGGATCCGCACGCAGCAGCACTACTACGACAAGTGCCCCAAGAGGGTA
TATTACCTCTCTCTGGAATTTTACATGGGCCGAACATTACAGAACACCATGATCAACCTCGGTCTGCAAAATGCC
TGTGATGAGGCCATTTACCAGCTTGGATTGGATATAGAAGAGTTAGAAGAAATTGAAGAAGATGCTGGACTTGGC
AATGGTGGTCTTGGGAGACTTGCTGCCTGCTTCTTGGATTCCATGGCAACCCTGGGACTTGACAGCCTATGGATAC
GGCATTTCGGTATGAATATGGGATTTTCAATCAGAAGATCCGAGATGGATGGCAGGTAGAAGAAGCAGATGATTGG
CTCAGATATGGAAACCCTTGGGAGAAGTCCC GCCCAGAATTCAATGCTGCCTGTGCACCTTCTATGGAAAAGTAGAA
CACACCAACACCGGGACCAAGTGGATTGACACTCAAGTGGTCTCTGGCTCTGCCATATGACACCCCCGTGCCCCGC
TACATGAATAACACTGTCAACACCATGCGCCTCTGGTCTGCTCGGGCACC AAATGACTTTAACCTCAGAGACTTT
AATGTTGGAGACTACATTCAGGCTGTGCTGGACCGAAACCTGGCCGAGAACATCTCCCGGGTCTCTATCCCAAT
GACAATTTTTTTGAAGGGAAGGAGCTAAGATTGAAGCAGGAATACTTTGTGGTGGCTGCAACCTTGCAAGATATC
ATCCGCCGTTTTCAAAGCCTCCAAGTTTGGCTCCACCCGTGGTGCAGGAACCTGTGTTTGATGCCTTCCCGGATCAG
GTGGCCATCCAGCTGAATGATACTCACCTGCACTCGCGATCCCTGAGCTGATGAGGATTTTTGTGGATATTGAA
AAACTGCCCTGGTCCAAGGCATGGGAGCTCACCCAGAAGACCTTCGCCTACACCAACCACACAGTGCTCCCGGAA
GCCCTGGAGCGCTGGCCCGTGGACCTGGTGGAGAAGCTGCTCCCTCGACATTTGGAAATCATTTATGAGATAAAT
CAGAAGCATTTAGATAGAATTGTGGCCTTGTTTTCTAAAGATGTGGACCGTCTGAGAAGGATGTCTCTGATAGAA
GAGGAAGGAAGCAAAAGGATCAACATGGCCCATCTCTGCATTGTGGTTCCCATGCTGTGAATGGCGTGGCTAAA
ATCCACTCAGACATCGTGAAGACTAAAGTATTCAAGGACTTCAGTGAGCTAGAACCTGACAAGTTTTCAGAATAAA
ACCAATGGGATCACTCCAAGGCGCTGGCTCCTACTCTGCAACCCAGGACTTGACAGAGCTCATAGCAGAGAAAATT
GGAGAAGACTATGTGAAAGACCTGAGCCAGCTGACGAAGCTCCACAGCTTCCTGGGTGATGATGTCTTCTCCGG
GAACTCGCCAAGGTGAAGCAGGAGAATAAGCTGAAGTTTTCTCAGTTCTGGAGACGGAGTACAAAGTGAAGATC
AACCCATCCTCCATGTTTGATGTCCAGGTGAAGAGGATACATGAGTACAAGCGACAGCTCTTGAAGTGTCTGCAT
GTGATCACGATGTACAACCGCATTAAGAAAGACCCTAAGAAGTTATTCTGTGCCAAGGACAGTTATCATTGGTGGT
AAAGCTGCCCCAGGATATCACATGGCCAAAATGATCATAAAGCTGATCACTTCAGTGGCAGATGTGGTGAACAAT
GACCCTATGGTTGGAAGCAAGTTGAAAGTCATCTTCTTGGAGAACTACAGAGTATCTCTTGCTGAAAAAGTCATT
CCAGCCACAGATCTGTGAGAGCAGATTTCCACTGCAGGCACCGAAGCCTCGGGGACAGGCAATATGAAGTTTCATG
CTAAATGGGGCCCTAACTATCGGGACCATGGATGGGGCCAATGTGGAAATGGCAGAAGAAGCTGGGGAAGAGAAC
CTGTTTCATCTTTGGCATGAGGATAGATGATGTGGCTGCTTTGGACAAGAAAAGGTACGAGGCAAAAGAATACTAT
GAGGCACTTCCAGAGCTGAAGCTGGTTCATTGATCAAATTGACAATGGCTTTTTTTTCTCCCAAGCAGCCTGACCTC
TTCAAAGATATCATCAACATGCTATTTTTATCATGACAGGTTTAAAGTCTTTGCAGACTACGAAGCCTATGTCAAG
TGTCAAGATAAAGTGAGTCAGCTGTACATGAATCCAAAGGCCTGGAACACAATGGTACTCAAAAACATAGCTGCC
TCGGGGAAATTCTCCAGTGACCGAACAATTAAAGAATATGCCCAAACATCTGGAACGTGGAACCTTCAGATCTA
AAGATTTCTCTATCCAATGAATCTAACAAGTCAATGGAAATTGAACTCTACAATGTCTCTAGAAAACATAGCTT
CTTACTGAACTTGAACAT

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FIGURE 4030

MAKPLTDQEKRRQISIRGIVGVENV AELKKSFNRLHFTLVKDRNVATTRDYYFALAHTVRDHLVGRWIRTQQHY
YDKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEEEIEEDAGLGNGGLGRLAACFLDSMAT
LGLAAYGYGIRYEGIFNQKIRDGWQVEEADDWLRYGNPWEKSRPEFMPLPVHFGYKVEHTNTGTKWIDTQVVLAL
PYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYIQAVLDRNLAENISRVLYPNDFEFEGKELRLKQEYFV
VAATLQDIIRRFKASKFGSTRGAGTVFDAFPDQVAIQLNTHPALAIPELMRIFVDIEKLPWSKAWELTQKTFAY
TNHTVLPEALERWPDIVEKLLPRHLEIIYEINQKHLDRIVALFPKDVDRLRRMSLIEEEGSKRINMAHLCIVGS
HAVNGVAKIHSDIVKTKVFKDFSELEPDKFQNKTNGITPRRWLLCNPGLAELIAEKIGEDYVKDLSQLTKLHSF
LGDDVFLRELAKVKQENKLKFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDKPKLFV
PRTVIIGGKAAPGYHMAKMIIKLITSVADVNNNDPMVGSKLVIFLENYRVSLAEKVIPATDLSEQISTAGTEAS
GTGNMKFMLNGALTIGTMDGANVEMAEAGEENLFI FGMRIDDVAALDKKGYEAKYEEALPELKLVIDQIDNGF
FSPKQPDLFKDIINMLFYHDFKVFADYEAYVKCQDKVSQLYMNP KAWNTMVLKNIAASGKFSSDRTIKEYAQNI
WNVEPSDLKISLSNESNKVNGN

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FIGURE 4031

CATGCGTGGGCCAGCTTCTTCCTTTTACCTCGTTGCACTGCTGAGAGCAAGATGGGTCACCAGCAGCTGTACTGG
AGCCACCCGCGAAAAATTCGGCCAGGGTTCTCGCTCTTGTCGTGTCTGTTCAAACCGGCACGGTCTGATCCGAAAA
TATGGCCTCAATATGTGCCGCCAGTGTTTTCCGTCAGTACGCGAAGGATATCGGTTTCATTAAGAAAGACCTGAGC
TGTCTTCCTTGGCACTGCCTATGGAGGTGACACCCATCTCCTCCATCATGGCCATCCTGAGACCGCTCGCGAAGC
CCAAGATCATCAAAAAGAGCACCAAGTTCCTGGAACCAGTCAGACTGATATGTCAAAATTAAGGGTAACTGGT
GGAAACACAGAGGTATTAACAACAGGGTTCATAGAAGGTTTGAGGGCCAGATCTATGCCCAACATTGGTTATGGG
AGAAACAAAAAGACAAAGCACATACTGCCAGTGGCTTCTGGAAGTTCCCTGGTCCACAACGTTAAGGAGCTGGAA
GTACTGCTGGTGAGCAACAAATCTTACTGTGTTGAGATCACTCATGATGTTTCTTCCAAGAACTGCAAAGCCATC
TTGGAAAGAGCAGCCAGGTGGTCATCAGAGTCACCAATGCCAATGCCAGCCTGCACAGTGCAGAAAGTGAATAG
ACAGTGAATGTGTTTGTGTTTATTGGGGTTTAAATAAAACCAATAAAACTGTAAAAAC

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FIGURE 4032

GTAGCGGGAGCGGAGAGCGGACCCCAGAGAGCCCTGAGCAGCCCCACCGCCGCGCCGGCCTAGTTACCGTCACA
CCCCGGGAGGAGCCGCAGCTGCCGCAGCCGGCCGCAGTCACCATCACCGCAACCATGAGCAGCGAGGCCGAGACC
CAGCAGCCGCCCCGCGCCCCCGCCCTCAGCGCCGCGGACACCAAGCCCGGCACTACCGGCAGCGGCGCAGGGAGC
GGTGGCCCCGGGCGGCTCACATCGGCGGCGCCTGCCGGCGGGGCACAAAAAGGTCATCGCAACGAAGGTTTTGGGA
ACGGTAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCCACAGGAACGACACCAAGGAAGATGTATTTGTA
CACCACACTGCCATGAAGAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTT
GATGTTGTTGAAGGAGAAAAAGGTGCGAAGGCAGCAAATGTTACAGGTCCTGGTGGTGTTCAGTTCAAGGCAGT
AAATATGCAGCAGACCGTAACCATTATAGACGCTATCCACGTCCTAGGGGTCCTCCACGCAATTACCAGCAAAAT
TACCAGAATAGTGAGAGTGGGGAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGCCAGGCCCAACAACGCCGG
CCCTACCGCAGGCGAAGGTTCCACCTTACTACATGCGGAGACCCCTATGGGCGTCGACCACAGTATTCCAACCCCT
CCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCGAGGAGAACAAGGTAGACCAGTGAGGCAGAAT
ATGTATCGGGGATATAGACCACGATTCCGCAGAGGCCCTCCTCTCCAAAGACAGCCTAGAGAGGACGGCAATGAA
GAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAAT
TACCGACGCCGACGCCCAGAAAACCCTAAACCACAAGATGGCAAAGAGACAAAAGCAGCCAATCCACCAGCTGAG
AATTCGTCCGCTCCCGAGGCTGAGCAGGGCGGGGCTTGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGGT
TTAGTCATCCAACAAGAAGAAATAATGAAATTCCAGCAATAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTA
AATGCTTGCAATTTTGCCCGTTGACCAGATAAATAGATCTGCATTATCTATGCAGCATGGGGTTTTTATTATTTT
ACCTAAAGACGTCTCTTTTTTGGTAATAACAAACGTGTTTTTTAAAAAAGCCTGGTTTTTCTGAATACGCCTTTAA
AGG

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FIGURE 4033

AAGAATAACCCAGGAAGTACCTTCGCAATTCCAACCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAAC
CAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGAGGC
CCTCCTCTCCAAAGACAGCCTAGAGAGGACGGCAATGAAGAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGT
CAGCAGCCACCTCAACGTCGGTACCGCCGCAACTTCAATTACCGACGCCGACGCCCAGAAAACCCTAAACCACAA
GATGGCAAAGAGACAAAAGCAGCCAATCCACCAGCTGAGAATTCGTCCGCTCCCGAGGCTGAGCAGGGCGGGGCT
TGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATAATGAAATTCCAG
CÀATAAGAAATGAACAAAAGATTGATCTGCATTATCTATGCAGCATGGGGTTTTTATTATTTTTTACCTAAAGACG
TCTCTTTTTTGGTAATAACAAACGTGTTTTTT

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FIGURE 4034

CGGGAGCGGAGAGCGGACCCCAGAGAGCCCTGAGCAGCCCCACCGCCGCCCGGCCTAGTTACCGTCACACCCC
GGGAGGAGCCGCAGCTGCCGCAGCCGGCCGAGTCACCATCACCGCAACCATGAGCAGCGAGGCCGAGACCCAGC
AGCGCGGCGCCTGCCGGCGGGCACAAAAAGGTCATCGCAACGAAGGTTTTGGGAACGGTAAAATGGTTCAATGTA
AGGAACGGATATGGTTTCATCCACAGGAACGACACCAAGGAAGATGTATTTGTACACCACACTGCCATGAAGAAG
AATAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAG
GGTGCGAAGGCAGCAAATGTTACAGGTCCTGGTGGTGTTCCAGTTCAAGGCAGTAAATATGCAGCAGACCGTAAC
CATTATAGACGCTATCCACGTCCTAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAATAGTGAGAGTGGG
GAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGCCAGGCCCAACAACGCCGGCCCTACCGCAGGCCGAAGGTTC
CCACCTTACTACATGCGGAGACCCTATGGGCGTCGACCACAGTATTCCAACCCTCCTGTGCAGGGAGAAGTGATG
GAGGGTGCTGACAACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCA
CGATTCCGCAGAGGCCCTCCTCTCCAAAGAC

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FIGURE 4035

GCGAGGCGCGGGGAAGGCGCACCTGGGGTGGCCCTGGCGTGCGGGCGGCGACATGGAGGACGGCGTGCTCAAGGA
GGGCTTCCTGGTCAAGAGGGGGCCACATTGTCCACAACCTGGAAGGCGCGATGGTTTCATCCTTCGGCAGAACACGCT
GGTGTACTACAAGCTTGAGGGGGGTTCGGAGAGTGACCCCTCCCAAGGGCCGGATCCTCCTGGATGGCTGCACCAT
CACCTGCCCCCTGCCTGGAGTATGAAAACCGACCGCTCCTCATTAAGCTGAAGACTCAAACATCCACGGAGTACTT
CCTGGAGGCCTGTTCTCGAGAGGAGCGGGATGCCTGGGCCTTTGAGATCACCGGGGCTATTTCATGCAGGGCAGCC
GGGGAAGGTCCAGCAGCTGCACAGCCTGAGAACTCCTTCAAGCTGCCCCCGCACATCAGCCTGCATCGCATTGT
GGACAAGATGCACGATAGCAACACCGGAATCCGTTCAAGCCCCAACATGGAGCAGGGAAGCACCTATAAAAAAGAC
CTTCCTCGGCTCCTCCCTGGTGGACTGGCTCATCTCCAACAGCTTCACGGCCAGCCGTCTGGAGGCGGTGACCCT
GGCCTCCATGCTCATGGAGGAGAACTTCCTCAGGCCTGTGGGTGTCCGAAGCATGGGAGCCATTTCGCTCTGGGGA
TCTGGCCGAGCAGTTCCCTGGATGACTCCACAGCCCTGTACACTTTTGCTGAGAGCTACAAAAAGAAGATAAGCCC
CAAGGAAGAAATTAGCCTGAGCACTGTGGAGTTAAGTGGCACGGTGGTGAAACAAGGCTACCTGGCCAAGCAGGG
ACACAAGAGGAAAAAACTGGAAGGTGCGTCGCTTTGTTCTAAGGAAGGATCCAGCTTTCCTGCATTACTATGACCC
TTCCAAAGAAGAGAACAGGCCAGTGGGTGGGTTTTCTCTTCGTGGTTCACTCGTGTCTGCTCTGGAAGATAATGG
CGTTCCTCCACTGGGGTTAAAGGGAATGTCCAGGGAAACCTCTTCAAAGTGATTACTAAGGATGACACACACTATTA
CATTGAGGCCAGCAGCAAGGCTGAGCGAGCCGAGTGGATTGAAGCTATCAAAAAGCTAACATTGACAAGGACCTGA
GGGAACCAGGATTCCCTCCCTCCTACCAGATGACACAGACAAGAGTTCCCTGGAGAATGGGAGTGTTAAGACTTTTG
ACTTCTTTGTAAGTTTTGTACTGCTTTGGAGAGTGAATGCTGCCAAGAGTTCCTCAGATTACAAACAGCAGTGGT
GCCATTTCTTTCCCATCTTCATGTTACAAACCTGGAAAGGCTAGAACAGCCATTAGGCGTCAGCATCTTGACTT
TTCCCCAGCATCACAAACAGCCATTTCTCGGGCACCAAAGTAGGTTCCCTTTGTTGGAACAATTACACTGGCCA
TGCCATAATGTTGAATAAACTCTCTTCTTATGAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4036

MEDGVLKEGFLVKRGHIVHNWKARWFLRQNTLVYYKLEGGRRVTPPKGRILLDGCTITCPCLEYENRPLLIK
TQTSTEYFLEACSREERDAWAFEITGAIHAGQPGKVQQLHSLRNSFKLPPHISLHRIVDKMHDSNTGIRSSPNME
QGSTYKKTFLGSSLVDWLISNSFTASRLEAVTLASMLMEENFLRPVGVRSMGAIRSGDLAEQFLDDSTALYTFAE
SYKKKISPKEEISLSTVELSGTVVKQGYLAKQGHKRKNWKVRRFVLRKDP AFLHYDPSKEENRPVGGFSLRGSL
VSALEDNGVPTGVKGNVQGNLFKVITKDDTHYYIQASSKAERAEWIEAIKKLT

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FIGURE 4037

GCTGGAGCATCCCGCTCTGGTGCCGCTGCAGCCGGCAGAGATGGTTGAGCTCATGTTCCCGCTGTTGCTCCTCCT
TCTGCCCTTCCTTCTGTATATGGCTGCGCCCCAAATCAGGAAAAATGCTGTCCAGTGGGGTGTGTACATCAACTGT
TCAGCTTCCTGGGAAAAGTAGTTGTGGTCACAGGAGCTAATACAGGTATCGGGAAGGAGACAGCCAAAGAGCTGGC
TCAGAGAGGAGCTCGAGTATATTTAGCTTGCCGGGATGTGGAAAAGGGGGAATTGGTGGCCAAAGAGATCCAGAC
CACGACAGGGAACCAGCAGGTGTTGGTGCGGAACTGGACCTGTCTGATACTAAGTCTATTTCGAGCTTTTGCTAA
GGGCTTCTTAGCTGAGGAAAAGCACCTCCACGTTTTGATCAACAATGCAGGAGTGATGATGTGTCCGTACTCGAA
GACAGCAGATGGCTTTGAGATGCACA¹TAGGAGTCAACCACTTGGGTCACTTCCTCCTAACCCATCTGCTGCTAGA
GAACTAAAGGAATCAGCCCCATCAAGGATAGTAAATGTGTCTTCCCTCGCACATCACCTGGGAAGGATCCACTT
CCATAACCTGCAGGGCGAGAAATTCTACAATGCAGGCCTGGCCTACTGTACAGCAAGCTAGCCAACATCCTCTT
CACCCAGGAACTGGCCCGGAGACTAAAAGGCTCTGGCGTTACGACGTATTCTGTACACCCTGGCACAGTCCAATC
TGAAGTGGTTCGGCACTCATCTTTCATGAGATGGATGTGGTGGCTTTTCTCTTTTTTCATCAAGACTCCTCAGCA
GGGAGCCCAGACCAGCCTGCACTGTGCCTTAACAGAAGGTCTTGAGATTCTAAGTGGGAATCATTTTCAGTGAAGT
TCATGTGGCATGGGTGTCTGTCCAAGCTCGTAATGAGACTATAGCAAGGCGGCTGTGGGACGTCAAGTTGTGACCT
GCTGGGCCTCCCAATAGACTAACAGGCAGTGCCAGTTGGACCCAAGAGAAGACTGCAGCAGACTACACAGTACTT
CTTGTCAAAATGATTCTCCTTCAAGTTTTCAAACCTTTAGCACAAAGAGAGCAAAACCTTCCAGCCTTGCCCTG
CTTGGTGTCCAGTTAAACTCAGTGTACTGCCAGATTCTGTCTAAATGTCTGTCTCATGTCCAGATTTACTTTGCTTC
TGTTACTGCCAGAGTTACTAGAGATATCATAATAGGATAAGAAGACCCCTCATATGACCTGCACAGCTCATTTTCC
TTCTGAAAGAACTACTACCTAGGAGAATCTAAGCTATAGCAGGGATGATTTATGCAAATTTGAACTAGCTTCTT
TGTTACAATTCAGTTCTCCTCCAACCAACCAGTCTTCACTTCAAGAGGGCCACACTGCAACCTCAGCTTAACATG
AATAACAAAGACTGGCTCAGGAGCAGGGCTTGCCAGGCATGGTGGATCACCGGAGGTCAGTAGTTCAAGACCAG
CCTGGCCAACATGGTGAAACCCACCTCTACTAAAAATGTGTATATCTTGTGTGTCTTCTGTTTATGTGTGC
CAAGGGAGTATTTTACAAAAGTTCAAAACAGCCACAATAATCAGAGATGGAGCAAACCAAGTGCATCCAGTCTTT
ATGCAAATGAAATGCTGCAAAGGGAAGCAGATTCTGTATATGTTGGTAACTACCCACCAAGAGCACATGGGTAGC
AGGGAAGAAGTAAAAAAAGAGAAGGAGAATACTGGAAGATAATGCACAAAATGAAGGGACTAGTTAAGGATTAAC
TAGCCCTTTAAGGATTAAGTAGTTAAGGATTAATAGCAAAAGATATTAATATGCTAACATAGCTATGGAGGAAT
TGAGGGCAAGCACCCAGGACTGATGAGGTCTTAACAAAACCAGTGTGGCAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAATCCTAAAAACAAAACAAAACAAAACAAATTCTTCATTTCAGAAAAATTATCTTAGGGACTGATATTGGTA
ATTATGGTCAATTTAATAATATTTTGGGGCATTTCCTTACATTGTCTTGACAAGATTAAAATGTCTGTGCCAAAA
TTTTGTATTTTATTTGGAGACTTCTTATCAAAAGTAATGCTGCCAAAGGAAGTCTAAGGAATTAGTAGTGTTCCT
ATCACTTGTGTTGGAGTGTGCTATTCTAAAAGATTTTGATTTCTGGAATGACAATTATATTTTAACTTTGGTGGG
GGAAAGAGTTATAGGACCACAGTCTTCACTTCTGATACTTGTAATAATCTTTTATTGCACTTGTTTTGACCAT
TAAGCTATATGTTTAGAAATGGTCATTTTACGGAAAAATTAGAAAAATTCTGATAATAGTGCAGAATAAATGAAT
TAATGTTTTACTTAATTTATATTGAAGTGTCAATGACAAATAAAAAATTCTTTTGATTATTTTTTGTTCATTT
ACCAGAATAAAAACTAAGAATTAAAAGTTTGATTACAGTCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4038

MVELMFPLLLLLLPFLLYMAAPQIRKMLSSGVCTSTVQLPGKVVVVTGANTGIGKETAKELAQRGARVYLACRDV
EKGELVAKEIQTTTGNQQVLVRKLDLSDTKSIRAFAGFLAEEKHLHVLIINNAGVMMCPYSKTADGFEMHIGVNH
LGHFLLTHLLLEKLKESAPSRIVNVSSLAHHLGRIHFHNLOGEKFYNAGLAYCHSKLANILFTQELARRLKGSGV
TTYSVHPGTVQSELVRHSSFMRWMWWLFSFFIKTPQOGAQTSLHCALTEGLEILSGNHFSCHVAWVSVQARNET
IARRLWDVSCDLLGLPID

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FIGURE 4039

GAAGCCATAGTCGGCGAGCAACGCTGGAGCATCCCGCTCTGGTGCCGCTGCAGCCGGCAGAGATGGTTGAGCTCA
TGTTCCCGCTGTTGCTCCTCCTTCTGCCCTTCTTCTGTATATGGCTGCGCCCCAAATCAGGTCTGTGCAAATGT
ATTGCCCTTCTCTTGAGAAATTCTTGTGCGGGGCGGGAGGGAAACATAGAATCCCCACCAAAGCTTTCTTGGAAAA
CTCCCCCTGGGGGGGCTCCAAGATGGCGGAGCCCAGAGTTCGGTGGGTGGAGGCGAGGTCCAGCTGTCTTGGGTG
CCAGGAGGACACCCGAGACCCAGGCGGTGAGAAAGGGCGGCAGTCCGGGGGCACACTGCTTTTCCCTGGCCTGTT
TTTCTTTTGTCTAAGCACCCCTGATTCTGGCTCCAGGGAATCCCGAGGGTAAGGCTACCTCAAACGCTTGAGTT
TCGGACTCTTCAATGGGATATGGCCCGACGCTGTTTTCCCTTATTCCCCACGCCTTAAACCAGCCTTCGAGGTA
CAAAGGAGCGATTCCACATTTGCCCCCTCTGAAACTGATAGCAATCGTAACATCTGCGGCCCCATCCTTGCTCTCT
CGTTGCTGTTACAATCGCTTGTTCTGTGGGCGGATGTTGTAAAGGAGAAAAAGTGAAGGAAGAGTGTTTGGTTA
TGAGCTCTATCCTGCCTTGCGAGCAGGAGCACGGGGGATCTGAGTTAGGAGCTAGGGTACTGGGGCGGTGAGGGC
TGGGAGAATGGTGGGAAGGTATTGACCAGGTGATAGATCAATCAGCCCAAGGCTGGCCAAGTGCCCCAGTGAATC
AGCAGCGGGCTGTAAAAACGGGCAGCCTGCTTATTGGTTCTAAGTAAATCACCAGTGGTGACGGACCAGTGACTGA
ATAGACAGACACACTCCTTCCCCAGGTGGGCGGTCTTAGTCCCAATAGAACTGAAGCCAGGCCAGATCACAGTC
ATTTCTTACCACAGTCACCTACTTTCTTCTTTTATTTTTATTTTCTCTTCTTCTTCTGCTGCCCTCTTCCAGT
TATATTTTTTCTGCCCTTCTGAACACTCAGTTCTCCACCTCTAGGCACACATGGTTTCTCACACTCAGATGAAAA
CACTGCTTTTTATCTTTTTTCACTACAAGATCCTCTTATCCACATAGAATCTCAATGAAAAGTTGAACCAGAAC
TGAAAATAGTGCTCATACCCAGAGGGATTTTTCTGGAAAAAATATATATGTGTGTATATATATATATATA
TGTGTGTGTGTATATATATATATATGTGTGTGTGTGTATATATATATATATATATATATATATATATATAT
CCAACCTCAGCAGGGTTATGGGAGTCGGGCCAGAGCTGGACTTTTATAGTTGTCTCTTTCATTCTGCTGGTTAAG
GAGAAGAAAGAACTAAGTACAGGTCTACTAAGTTGTCACTCCTGGAGCTACATACAGTAAGGGGATGTGGGAAA
CAGCCTAGAGGCTTGTTTTCTGAGGAGGAGGTGATGGTTTGTGGGGACCATGAGTTAATCTGCCTCCCTGTCTAG
CATTTTCGCACTATGCAGGTAGCTTCAATGGCTAAGAGTATGTACCTTGCAATTCCAAGTTCAATGAAAAAGGCT
GAAATGCTCTTTAAGAATGCATCTCCTGGTCAACAGATTGTTTTAACCAGAGTCCCAACATTGCCAAGAAGAGAA
TAGGCCAGTCTGAGAACCACCAATCTGTGTTTGTGCATTCAATTCATTTGGAAAAGGCAATATAGTATAGTACTTA
GAAACAAGCACTCTAGGCTGGGCTTGGTGACTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGA
TCACCTGAGGTGAGGAGTTTCGAGACCATCCTGGCCAGCGTGGTGAAACCCTGTCTCTACTAAAAATACAAAAATT
AGCTGGGCGTGGTGGCGCATGGGTGAGGGGGTGAGGGATGAGAATCGCTTGAACCTGGGAGATGGGGGTTGCAGT
GGAGGTGGAGGTTGCAGTGAGCCGAGATCACACCATTGCACTCCAGCCTGGGCAACAAGAGCAAACTCTGTCTC

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FIGURE 4040

CGCTGTGCGCCGCCAGTAGCAGCCTTCGCCAGCAGCGCCGCGGCGGAACCGGGCGCAGGGGAGCGAGCCCGGCCCC
GCCAGCCCAGCCCAGCCCAGCCCTACTCCCTCCCCACGCCAGGGCAGCAGCCGTTGCTCAGAGAGAAGGTGGAGG
AAGAAATCCAGACCCTAGCACGCGCGCACCATC**ATG**GACCATTATGATTCTCAGCAAACCAACGATTACATGCAG
CCAGAAGAGGACTGGGACCGGGACCTGCTCCTGGACCCGGCCTGGGAGAAGCAGCAGAGAAAGACATTACGGCA
TGGTGTAACCTCCACCTCCGGAAGGCGGGGACACAGATCGAGAACATCGAAGAGGACTTCCGGGATGGCCTGAAG
CTCATGCTGCTGCTGGAGGTCACTCTCAGGTGAACGCTTGGCCAAGCCAGAGCGAGGCAAGATGAGAGTGCACAAG
ATCTCCAACGTCAACAAGGCCCTGGATTTCATAGCCAGCAAAGGCGTCAAACCTGGTGTCCATCGGAGCCGAAGAA
ATCGTGGATGGGAATGTGAAGATGACCCTGGGCATGATCTGGACCATCATCCTGCGCTTTTGCCATCCAGGACATC
TCCGTGGAAGAGACTTCAGCCAAGGAAGGGCTGCTCCTGTGGTGTGAGAGAAAGACAGCCCTTACAAAAATGTC
AACATCCAGAACTTCCACATAAGCTGGAAGGATGGCCTCGGCTTCTGTGCTTTGATCCACCGACACCGGCCCCGAG
CTGATTGACTACGGGAAGCTGCGGAAGGATGATCCACTCACAAATCTGAATACGGCTTTTGACGTGGCAGAGAAG
TACCTGGACATCCCCAAGATGCTGGATGCCGAAGACATCGTTGGAAGTGGCCGACCGGATGAGAAAGCCATCATG
ACTTACGTGTCTAGCTTCTACCACGCCTTCTCTGGAGCCAGAAAGGCGGAGACAGCAGCCAATCGCATCTGCAAG
GTGTTGGCCGTCAACCAGGAGAACGAGCAGCTTATGGAAGACTACGAGAAGCTGGCCAGTGATCTGTTGGAGTGG
ATCCGCCGCACAATCCCGTGGCTGGAGAACC GGGTGCCCCGAGAACACCATGCATGCCATGCAACAGAAGCTGGAG
GACTTCCGGGACTACCGGCGCCTGCACAAGCCGCCCAAGGTGCAGGAGAAGTGCCAGCTGGAGATCAACTTCAAC
ACGCTGCAGACCAAGCTGCGGCTCAGCAACCGGCCTGCCTTCATGCCCTCTGAGGGCAGGATGGTCTCGGACATC
AACAATGCCTGGGGCTGCCTGGAGCAGGTGGAGAAGGGCTATGAGGAGTGGTTGCTGAATGAGATCCGGAGGCTG
GAGCGACTGGACCACCTGGCAGAGAAGTTCGGGCAGAAGGCCTCCATCCACGAGGCTGGACTGACGGCAAAGAG
GCCATGCTGCGACAGAAGGACTATGAGACCGCCACCCTCTCGGAGATCAAGGCCCTGCTCAAGAAGCATGAGGCC
TTCGAGAGTGACCTGGCTGCCACCAGGACCGTGTGGAGCAGATTGCCGCCATCGCACAGGAGCTCAATGAGCTG
GACTATTATGACTACCCAGTGTCAACGCCCGTTGCCAAAAGATCTGTGACCAGTGGGACAATCTGGGGGCCCTA
ACTCAGAAGCGAAGGGAAGCTCTGGAGCGGACCGAGAAACTGCTGGAGACCATTGACCAGCTGTACTTGGAGTAT
GCCAAGCGGGCTGCACCCTTCAACAACCTGGATGGAGGGGGCCATGGAGGACCTGCAGGACACCTTCAATTGTGCAC
ACCATTGAGGAGATCCAGGGACTGACCACAGCCCATGAGCAGTTCAAGGCCACCCTCCCTGATGCCGACAAGGAG
CGCCTGGCCATCCTGGGCATCCACAATGAGGTGTCCAAGATTGTCCAGACCTACCACGTCAATATGGCGGGCACC
AACCCTTACACAACCATCACGCCTCAGGAGATCAATGGCAAATGGGACCACGTGCGGCAGCTGGTGCCTCGGAGG
GACCAAGCTCTGACGGAGGAGCATGCCCCAGCAGCAGACAATGAGAGGCTACGCAAGCAGTTTGGAGCCCAGGCC
AATGTCATCGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGAGGATCTCCATTGAGATGCATGGGACCCTG
GAGGACCAGCTCAGCCACCTGCGGCAGTATGAGAAGAGCATCGTCAACTACAAGCCAAAGATTGATCAGCTGGAG
GGCGACCACCAGCTCATCCAGGAGGCGCTCATCTTCGACAACAAGCACACCAACTACACCATGGAGCACATCCGT
GTGGGCTGGGAGCAGCTGCTCACCACCATCGCCAGGACCATCAATGAGGTAGAGAACCAGATCCTGACCCGGGAT
GCCAAGGGCATCAGCCAGGAGCAGATGAATGAGTTCCGGGCCTCCTTCAACCACTTTGACCGGGATCACTCCGGC
ACACTGGGTCCCGAGGAGTTCAAAGCCTGCCTCATCAGCTTGGGTTATGATATTGGCAACGACCCCGAGGAGAA
GCAGAATTTGCCCGCATCATGAGCATTGTGGACCCCAACCGCTGGGGGTAGTGACATTCCAGGCCTTCATTGAC
TTCATGTCCCGCGAGACAGCCGACACAGATACAGCAGACCAAGTCATGGCTTCCTTCAAGATCCTGGCTGGGGAC
AAGAACTACATTACCATGGACGAGCTGCGCCGCGAGCTGCCACCCGACCAGGCTGAGTACTGCATCGCGCGGATG
GCCCCCTACACCGGCCCCGACTCCGTGCCAGGTGCTCTGGACTACATGTCCTTCTCCACGGCGCTGTACGGCGAG
AGTGACCTC**TAA**TCCACCCCGCCCCGCGCCCTCGTCTTGTGCGCCGTGCCCTGCCTTGCACCTCCGCCGTGCCC
CATCTCCTGCCTGGGTTTCGGTTTCAGCTCCAGCCTCCACCCGGGTGAGCTGGGGCCACGTGGCATCGATCCTC
CCTGCCCCGGAAGTGACAGTTTACAAAATTATTTTCTGCCAAAAGAAAAAAGTTACGTTAAAAACCAAAAA
CTACATATTTTATTATAGAAAAAGTATTTTCTCCACCAGACAAATGGAAAAAAGAGGAAAGATTAACATTT
GCACCGAAATGTCCTTGTGTTTGTGCGACATAGGAAAAATAACCAAGCACAAAGTTATATTCCATCCTTTTTACTGA
TTTTTTTTTCTTCTATCTGTTCCATCTGCTGTATTCATTTCTCCAATCTCATGTCCATTTTGGTGTGGGAGTCGG
GGTAGGGGTACTCTTGTCAAAGGCACATTGGTGCGTGTGTGTTGCTAGCTCACTTGTCCATGAAAATATTTT
ATGATATTAAAGAAAATCTTTTG

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FIGURE 4041

MDHYDSQQTNDYMQPEEDWDRDLLLDPWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFRDGLKLMLLLEVISGE
RLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEIIVDGNVKMTLGMIWTIILRFQDISVEETSAKEGL
LLWCQRKTAPYKNVNIQNFHISWKDGLGFCALIHRRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAE
DIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLENR
VPENTMHAMQQKLEDFRDYRRLHKPPKVQEKQLEINFNTLQTKLRLSNRPAFMPSEGRMVSDINNAWGCLEQVE
KGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLRQKDYETATLSEIKALLKKHEAFESDLAAHQDR
VEQIAAIAQELNELDYDPSVSNARCQKICDQWDNLGALTQKRREALERTEKLETTIDQLYLEYAKRAAPFNNWM
EGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVN MAGTNPYTTITPQEI
NGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIEMHGTLEDQLSHLRQYE
KSIVNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMNE
FRASFNFDRDHSGLGPEEFKACLISLGYDIGNDPQGEAEFARIMSI VDPNRLGVVTFQAFIDFMSRETADTDT
ADQVMASFKILAGDKNYITMDELRRRELPPDQAEYCIARMAPYTGPDSPGALDYMSFSTALYGESDL

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FIGURE 4042

GCCTGCTGCCGCCTGGGCCCCGCCGAGCGGAGCTAGCGCCGCGCGCAGAGCACACGCTCGCGCTCCAGCTCCCCCT
CCTGCGCGGTTTCATGACTGTGTCCCCTGACCGCAGCCTCTGCGAGCCCCCGCCGAGGACCACGGCCCCGCTCCCC
GCCGCCGCGAGGGCCCCGAGCGAAGGAAGGAAGGGAGGCGCGCTGTGCGCCCCGCGGAGCCCCGGAACCCCGCTC
GCTGCCGGCTGCCAGCCTGGCTGGCACC**ATGCT**GCCCCGCGCGCTGCGCCCCGCTGCTCACGCCCCACTTGCTGC
TGGTGTGGTGCAGCTGTCCCCTGCTCGCGGCCACCGCACACAGGCCCCAGGTTTCTAATAAGTGACCGTGACC
CACAGTGCAACCTCCACTGCTCCAGGACTCAACCCAAACCCATCTGTGCCTCTGATGGCAGGTCTACGAGTCCA
TGTGTGAGTACCAGCGAGCCAAGTGCCGAGACCCGACCCTGGGCGTGGTGCATCGAGGTAGATGCAAAGATGCTG
GCCAGAGCAAGTGTGCGCTGGAGCGGGCTCAAGCCCTGGAGCAAGCCAAGAAGCCTCAGGAAGCTGTGTTTGTCC
CAGAGTGTGGCGAGGATGGCTCCTTTACCCAGGTGCAGTGCCATACTTACACTGGGTACTGCTGGTGTGTCAACC
CGGATGGGAAGCCCATCAGTGGCTCTTCTGTGCAGAATAAACTCCTGTATGTTTCAGGTTTCAGTCACCGACAAGC
CCTTGAGCCAGGGTAACCTCAGGAAGGAAAGATGACGGGTCTAAGCCGACACCCACGATGGAGACCCAGCCGGTGT
TCGATGGAGATGAAATCACAGCCCCAACTCTATGGATTAAACACTTGGTGATCAAGGACTCCAACTGAACAACA
CCAACATAAGAAATTCAGAGAAAGTCTATTTCGTGTGACCAGGAGAGGCAGAGTGCCCTGGAAGAGGCCCAGCAGA
ATCCCCGTGAGGGTATTGTTCATCCCTGAATGTGCCCTGGGGGACTCTATAAGCCAGTGCAATGCCACCGAGTCCA
CTGGCTACTGCTGGTGTGTGCTGGTGGACACAGGGCGCCCGCTGCCTGGGACCTCCACACGCTACGTGATGCCCA
GTTGTGAGAGCGACGCCAGGGCCAAGACTACAGAGGCGGATGACCCCTTCAAGGACAGGGAGCTACCAGGCTGTC
CAGAAGGGAAGAAAATGGAGTTTATCACCAGCCTACTGGATGCTCTCACCCTGACATGGTTTCAGGCCATTAACCT
CAGCAGCGCCCACTGGAGGTGGGAGGTTCTCAGAGCCAGACCCAGCCACACCCTGGAGGAGCGGGTAGTGCAGT
GGTATTTTCAGCCAGCTGGACAGCAATAGCAGCAACGACATTAACAAGCGGGAGATGAAGCCCTTCAAGCGCTACG
TGAAGAAGAAAGCCAAGCCCCAAGAAATGTGCCCGGCGTTTACCGACTACTGTGACCTGAACAAAGACAAGGTCA
TTTCACTGCCTGAGCTGAAGGGCTGCCTGGGTGTTAGCAAAGAAGGACGCTCGTCT**TAAG**GAGCAGAAAACCCAA
GGGCAGGTGGAGAGTCCAGGGAGGCAGGATGGATCACCAGACACCTAACCTTCAGCGTTGCCCATGGCCCTGCCA
CATCCCGTGTAACATAAGTGGTGGCCACCATGTTTGCAGTCTTTAATAACTCTTACTTGCGTGTGTTTGTGTTTGGT
TTCATTTTAAACACCAATATCTAATACCACAGTGGGAAAAGGAAAGGGAAAGAAAGACTTTATTCTCTCTCTTAT
TGTAAGTTTTTGGATCTGCTACTGACAACTTTTAGAGGGTTTTGGGGGGGTGGGGGAGGGTGTGTTGGGGCCTG
AGAAGAAAGAGATTTATATGCTGTATATAAATATATATGTAAATTGTATAGTTCTTTTGTACAGGCATTGGCATT
GCTGTTTGTGTTATTTCTCTCCCTCTGCCTGCTGTGGGTGGTGGGCACTCTGGACACATAGTCCAGCTTTCTAAAA
TCCAGGACTCTATCCTGGGCCTACTAA**ACT**TTCTGTTTGGAGACTGACCCCTTGTGTATAAAGACGGGAGTCCTGCA
ATTGTACTGCGGACTCCACGAGTTCTTTTCTGGTGGGAGGACTATATTGCCCATGCCATTAGTTGTCAAAATTG
ATAAGTCACTTGGCTCTCGGCCTTGTCCAGGGAGGTTGGGCTAAGGAGAGATGGAAACTGCCCTGGGAGAGGAAG
GGAGTCCAGATCCCATGAATAGCCACACAGGTACCGCTCTCAGAGGGTCCGTGCATTCTGCTCTCCGGACCC
CCAAAGGGCCCAGCATTGGTGGGTGCACCAAGTATCTTAGTGACCCTCGGAGCAAATTATCCACAAAGGATTTGCA
TTACGTCACTCGAAACGTTTTTCATCCATGCTTAGCATCTACTCTGTATAACGCATGAGAGGGGAGGCAAAGAAGA
AAAGGACACACGGAAGGGCCTTTAAAAAAGTAGATATTTAATATCTAAGCAGGGGAGGGGACAGGACAGAAAGCC
TGCAGTGAAGGGGTGCGGTGCCAACAGGGAACTCTTCACCTCCCTGCAAACCTACCAGTGAGGCTCCCAGAGACG
CAGCTGTCTCAGTGCCAGGGGCAGATTGGGTGTGACCTCTCCA

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FIGURE 4043

MLPARCARLLTPHLLLVLVQLSPARGHRTTGPRFLISDRDPQCNLHCSRTQPKPICASDGRSYESMCEYQRAKCR
DPTLGVVHRGRCKDAGQSKCRLERAQALEQAKKPQEA V F V P E C G E D G S F T Q V Q C H T Y T G Y C W C V T P D G K P I S G S S
VQNKTPVCSGSVTDKPLSQGN SGRKDDGSKPTPTMETQPVFDGDEITAPTLWIKHLVIKDSKLNNTNIRNSEKVY
SCDQERQSALEEAQQNPREGIVIECAPGGLYKPVQCHQSTGYCWCVLVD TGRPLPGTSTRYVMPSCESDARAKT
TEADDPFKDRELPGCP E G K K M E F I T S L L D A L T T D M V Q A I N S A A P T G G G R F S E P D P S H T L E E R V V H W Y F S Q L D S N S
SNDINKREMKPFKRYVKKKAKPKKCARRFTDYCDLNKDKVISLPELKGCLGVSKEGRLV

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FIGURE 4044

AAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCAGCTGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCCAAAAGA
GACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCATCCTCTATAAGCGGCTG
AAAGTGCCCTCCTGCGATTAACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC
CACAAGTACAGGCCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGTTGGCCCCGGCCGAGAAGAAAGCTGCTGGC
AAAGGGGACGTCCCGAAGAAGAGACCACCTGTCCTTCGAGCAGGAGTTAACAACCTGTCACCACCTTGGTGGAGAAC
AAGAAAGCTCAGCTGGTGGTGATTTACACGACATGGATCCCATCGAGGGGGAAGGCAAGACTGGGACGTCTAGT
CCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCAGAAGACAAAGGCGCTTTGGCTAAGCTGGT
GGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCCTGTTGGGTGGCAATGTCCTGGGTCC
TAAGTCTGTGGCTCGTATCGCCAAGCGCAAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTGGGTAAATGTA
CACTGTTGAGTTTTCTGTACATAAAAATAATTAAAATAATACAAATTTTCCTT

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FIGURE 4045

TGGGACAGGCAGCTCCGGGGTCCGCGGTTTCACATCGGAAACAAAACAGCGGCTGGTCTGGAAGGAACCTGAGCT
ACGAGCCGCGGCGGCAGCGGGGCGGCGGGGAAGCGTATACCTAATCTGGGAGCCTGCAAGTGACAACAGCCTTTG
CGGTCCTTAGACAGCTTGGCCTGGAGGAGAACACATGAAAGAAAGAACCTCAAGAGGCTTTGTTTTCTGTGAAAC
AGTATTTCTATACAGTTGCTCCAATGACAGAGTTACCTGCACCGTTGTCCTACTTCCAGAATGCACAGATGTCTG
AGGACAACCACCTGAGCAATACTGTACGTAGCCAGAATGACAATAGAGAACGGCAGGAGCACAAACGACAGACGGA
GCCTTGGCCACCCTGAGCCATTATCTAATGGACGACCCCAGGGTAACTCCCGGCAGGTGGTGGAGCAAGATGAGG
AAGAAGATGAGGAGCTGACATTGAAATATGGCGCCAAGCATGTGATCATGCTCTTTGTCCCTGTGACTCTCTGCA
TGGTGGTGGTCGTGGCTACCATTAAGTCAGTCAGCTTTTATACCCGGAAGGATGGGCAGCTAATCTATACCCCAT
TCACAGAAGATACCGAGACTGTGGGCCAGAGAGCCCTGCACTCAATTCTGAATGCTGCCATCATGATCAGTGTC
TTGTTGTTCATGACTATCCTCCTGGTGGTTCTGTATAAATACAGGTGCTATAAGGTATCCATGCCTGGCTTATTA
TATCATCTCTATTGTTGCTGTTCTTTTTTTCATTCACTTACTTGGGGGAAGTGTTTAAACCTATAACGTTGCTG
TGGACTACATTACTGTTGCACTCCTGATCTGGAATTTTGGTGTGGTGGGAATGATTTCCATTCACTGGAAAGGTC
CACTTCGACTCCAGCAGGCATATCTCATTATGATTAGTGCCCTCATGGCCCTGGTGTGTTTATCAAGTACCTCCCTG
AATGGACTGCGTGGCTCATCTTGGCTGTGATTTTCAGTATATGATTTAGTGGCTGTTTTGTGTCCGAAAGGTCCAC
TTCGTATGCTGGTTGAAACAGCTCAGGAGAGAAATGAAACGCTTTTCCAGCTCTCATTACTCCTCAACAATGG
TGTGGTTGGTGAATATGGCAGAAGGAGACCCGGAAGCTCAAAGGAGAGTATCCAAAATTCCAAGTATAATGCAG
AAAGCACAGAAAGGGAGTCACAAGACACTGTTGCAGAGAATGATGATGGCGGGTTCAGTGAGGAATGGGAAGCCC
AGAGGGACAGTCATCTAGGGCCTCATCGCTCTACACCTGAGTCACGAGCTGCTGTCCAGGAACCTTTCAGCAGTA
TCCTCGCTGGTGAAGACCCAGAGGAAAGGGGAGTAAACTTGGATTGGGAGATTTCACTTTCTACAGTGTTCTGG
TTGGTAAAGCCTCAGCAACAGCCAGTGGAGACTGGAACACAACCATAGCCTGTTTCGTAGCCATATTAATTGGTT
TGTGCCTTACATTATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAATCTCCATCACCTTTGGGC
TTGTTTTCTACTTTGCCACAGATTATCTTGTACAGCCTTTTATGGACCAATTAGCATTCCATCAATTTTATATCT
AGCATATTTGCGGTTAGAATCCCATGGATGTTTCTTCTTTGACTATAACAAAATCTGGGGAGGACAAAGGTGATT
TTCCTGTGTCCACATCTAACAAAGTCAAGATTCCCGGCTGGACTTTTGCAGCTTCCTTCCAAGTCTTCCTGACCA
CCTTGCACTATTGGACTTTGGAAGGAGGTGCCTATAGAAAACGATTTTGAACATACTTCATCGCAGTGGAAGTGTG
TCCCTCGGTGCAGAACTACCAGATTTGAGGGACGAGGTCAAGGAGATATGATAGGCCCGGAAGTTGCTGTGCCC
CATCAGCAGCTTGACGCGTGGTCACAGGACGATTTCACTGACACTGCGAACTCTCAGGACTACCGTTACCAAGAG
GTTAGGTGAAGTGGTTTAAACCAAACGGAACCTTTCATCTTAAACTACACGTTGAAAATCAACCCAATAATTCTG
TATTAAGTGAATTCTGAACTTTTCAGGAGGTACTGTGAGGAAGAGCAGGCACCAGCAGCAGAATGGGGAATGGAG
AGGTGGGCAGGGGTTCCAGCTTCCCTTTGATTTTTTGTGCTGCAGACTCATCCTTTTTAAATGAGACTTGTTTTCC
CTCTCTTTGAGTCAAGTCAAATATGTAGATTGCCTTTGGCAATTCTTCTTCTCAAGCACTGACACTCATTACCGT
CTGTGATTGCCATTTCTTCCCAAGGCCAGTCTGAACCTGAGGTTGCTTTATCCTAAAAGTTTTAACCTCAGGTTT
CAAATTCAGTAAATTTTGGAAACAGTACAGCTATTTCTCATCAATTCTCTATCATGTTGAAGTCAAATTTGGATT
TTCCACCAAATTTCTGAATTTGTAGACATACTTGTACGCTCACTTGCCCCAGATGCCTCCTCTGTCTCATTCTTC
TCTCCACACAAGCAGTCTTTTTCTACAGCCAGTAAGGCAGCTCTGTCTGTGCTAGCAGATGGTCCCATTATTCTA
GGGTCTTACTCTTTGTATGATGAAAAGAATGTGTTATGAATCGGTGCTGTCAGCCCTGCTGTCAGACCTTCTTCC
ACAGCAAATGAGATGTATGCCCAAAGACGGTAGAATTAAGAAGAGTAAATGGCTGTTGAAGC

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FIGURE 4046

GGCACGAGGGTAGCTTTCCAACATAAAGTGGAGGTTTCAACACAGGAGACTTTAAGCAAGTTCCAGTGTGTCTAT
ATTTGGTCTGGCTGATCGGCTGGACTCTGGCCTTCCCCGCTCACGTTAGCAGACAGCTCTGCCCTAGTGGGCGCT
TAGCCTGCGACGGCAGCCCGAGAGG**ATGT**CTAACAAGCTTCTTTCTCCCCACCCCCATTAGTTGTTCTCAGGTC
TGAATTCAAAATGGCCTCATCTCCTGCTGTCCTTCGAGCGTCCCGGCTGTACCAATGGAGCCTGAAGAGTTCCGGC
GCAGTTTCTGGGGTCTCCACAGCTGAGGCAGGTTGGTCAGATCATTAGGGTTCTGCTCGGATGGCGGCGACGCT
GATCCTGGAGCCTGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGAATCGCCGTGCGCGGCCTAGCCCCGGAGCA
GCCGGTCACGCTGCGCGCGTCCCTGCGCGACGAGAAGGGCGCGCTTTTCCAGGCCACGCGCGCTACCGCGCCGA
CACTCTTGGCGAGCTGGACCTGGAGCGCGCGCCGCGCTGGGCGGCAGCTTCGCGGGGCTTGAGCCCATGGGGCT
GCTCTGGGCCTTGAGCCCCGAGAAACCTTTGGTGCGGCTGGTGAAAGCGCGACGTGCGAACGCCCTTGCGCGTGG
GCTGGAGGTGCTGGATGGCCACGACCCGACCCCGGGCGGCTGCTGTGCCAGACGCGGCACGAGCGCTACTTCCT
CCCGCCCGGGTGCGGCGCGAGCCGGTGCGCGTGGGCCGGGTGCGAGGCACGCTCTTCCTGCCGCCAGAACCTGG
GCCCTTTCCTGGGATTGTGGACATGTTGGAAGTGGAGGTGGCCTGCTGGAGTATCGGGCTAGTCTGCTGGCTGG
GAAGGGTTTTGCTGTGATGGCTCTGGCTTATTATAACTATGAAGACCTCCCCAAGACCATGGAGACGCTCCATCT
GGAGTACTTTGAAGAAGCCATGAAGTACTTGCTCAGTCATCCCGAGGTAAAAGGTCCAGGAGTTGGGCTGCTTGG
AATTTCCAAAGGGGGTGAGCTCTGCCTTTCATGGCCTCTTTCCTGAAGGGCATCACGGCTGCTGTCGTCATCAA
CGGCTCTGTGGCCAATGTTGGGGGAACCTTACGCTACAAGGGCGAGACCCTGCCCCCTGTGGGCGTCAACAGAAA
TCGCATCAAGGTGACCAAAGATGGCTATGCAGACATTGTGGATGTCTGAACAGCCCTTTGGAAGGACCTGACCA
GAAGAGCTTCATTCTGTGGAAAGGGCAGAGAGCACCTTCTGTTCTGCTAGGTGAGGATGACCACAAGTGGAA
GAGTGAGTTCTATGCTAATGAGGCCTGTAAACGCTTGAGGCCCATGGGAGGAGAAAGCCCCAGATCATCTGTTA
CCCAGAGACAGGGCACTATATTGAGCCTCCTTACTTCCCCCTGTGTCGGGCTTCCCTGCATGCCTTGGTGGGCAG
TCCTATTATCTGGGGAGGGGAGCCCAGGGCTCATGTCATGGCTCAGGTGGATGCTTGGAACAAGTCCAGACTTT
CTTCCACAAACACTTGGGTGGCCACGAGGGGACAATCCCATCAAAAGT**GTAAA**ATTTTATTTGATCATGTGGCCTC
TCTGTTGCTAATCTCTCCTGGAAACATCTGCCACATTTAGTGTGTGTATGTGTATTTCATTCTTTTGTTTTAAATA
ACTAAAGTTTTTTCCCTCATTATTAAATGAATTTACCAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4047

MSNKLLSPHPHSVVL RSEFKMASSPAVLRASRLYQWSLKSSAQFLGSPQLRQVGQIIRV
PARMAATLILEPAGRC
CWDEPVRIAVRGLAPEQPVTLRASLRDEKGALFQAHARYRADTLGELDLERAPALGGSFAGLE
PMGLLWALEPEK
PLVRLVKRDVRTPLAVELEVLDGHD PDPGRLLCQTRHERYFLPPGVRREPVRVGRV
RGTFLFPPEPGPFPGIVDM
FGTGGGLLEYRASLLAGKGFVMA LAYNYEDLPKTMETLHLEYFEEAMNYLLSHPEVK
GPGVGLLGISKGGELC
LSMASFLKGITAAVVINGSVANVG GTLRYKGETLPPVG VNRNRIKVTKDGYADIV
DLNSPLEGPDQKSFIPVER
AESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRKPQIICYPETGHYIEPPYFPLCR
ASLHALVGSPIIWGGE
P
RAHVMAQVDAWKQLQTFFHKHLGGHEGTIPSKV

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FIGURE 4048

GGCACGAGGACAGGTCGCCTGACTGGGCTCCTCCCCGGGCCCCGCCCCGACAGGTTTGTCTTGTGACCGCGGGCGG
CCGCTGCTTCTTTCCCGAGCTTGGAACCTTCGTTATCCGCGATGCGTTTCCTGGCAGCTACATTCTGCTCCTGGC
GCTCAGCACCGCTGCCCAGGCCGAACCGGTGCAGTTCAAGGACTGCGGTTCTGTGGATGGAGTTATAAAGGAAGT
GAATGTGAGCCCATGCCCCACCCAACCCTGCCAGCTGAGCAAAGGACAGTCTTACAGCGTCAATGTCACCTTCAC
CAGCAATATTCAGTCTAAAAGCAGCAAGGCCGTGGTGCATGGCATCCTGATGGGCGTCCCAGTTCCCTTTCCCAT
TCCTGAGCCTGATGGTTGTAAGAGTGGAATTAAGTCCCTATCCAAAAAGACAAGACCTATAGCTACCTGAATAA
ACTACCAGTGAAAAGCGAATATCCCTCTATAAACTGGTGGTGGAGTGGCAACTTCAGGATGACAAAAACCAAAG
TCTCTTCTGCTGGGAAATCCCAGTACAGATCGTTTCTCATCTCTTAAGTGCCTCATTGAGTTCGGTGCATCTGGCC
AATGAGTCTGCTGAGACTCTTGACAGCACCTCCAGCTCTGCTGCTTCAACAACAGTGACTTGCTCTCCAATGGTA
TCCAGTGATTTCGTTGAAGAGGAGGTGCTCTGTAGCAGAACTGAGCTCCGGGTGGCTGGTTCTCAGTGGTTGTCT
CATGTCTCTTTTTCTGTCTTAGGTGGTTTCATTAAATGCAGCACTTGGTTAGCAGATGTTTAAATTTTTTTTTTAA
CAACATTAACCTTGTGGCCTCTTTCTACACCTGGAAATTTACTCTTGAATAAATAAAAACTCGTTTGTCTTGTCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4049

MRFLAATFLLLALSTAAQAEPVQFKDCGSVDGVIKEVNVSPCPTQPCQLSKGQSYSVNVTFTSNIQSKSSKAVVH
GILMGVPVPFPIPEPDGCKSGINCPIQKDKTYSYLNKLPVKSEYPSIKLVVEWQLQDDKNQSLFCWEIPVQIVSH
L

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FIGURE 4050A

GCTACACCTCCTCCAGGAATACCTCCCCCTGGAGTTCCACAAGGGATACCTCCTCAGTTAACAGCAGCCCCAGTT
CCACCAGCCTCCAGTTACAGAGCTCGCAAGTTCCAGAGAAACCTAGACCAGCACTGCTTCCTACTCCTGTGTCT
TTTGGTTCTGCCCCACCGACAACCTTACCATCCTCCGTTGCAATCAGCTGGTCCATCAGAACAAGTGAATTCAAAA
GCTCCTTTGAGCAAGTCTGCTCTGCCATACAGTTCAATTCTCATCTGATCAAGGACTTGGGGAGTCTTCAGCTGCT
CCATCTCAGCCAATCACTGCAGTGAAGGAC**ATG**CCAGTGAGATCAGGTGGCCTGCTTCCAGATCCTCCTAGAAGT
AGTTACTTTGGAAGTCCAAGAGGCCCAAGATTTGATGGTCTCGAAGATTTGAGGATTTAGGGTCAAGGTGTGAA
GGACCGAGACCCAAAGGGCCTCGTTTTGAAGGAAATCGCCCCGATGGGCCAAGACCCAGATATGAAGGTCAACCCA
GCAGAGGGCACTAAAAGCAAGTGGGGAATGATTCCCCCGGGGGCCAGCATCTCAATTTTATATTACCCCCAGTACA
TCCCTAAGTCCTCGACAGAGTGGACCACAGTGGAAAGGCCCCAAACCAGCTTTTGGACAGCAGCATCAGCAGCAA
CCTAAGTCACAAGCAGAACCTCTTTTCAGGAAACAAAGAACCATTAGCAGACACCAGTAGTAACCAGCAGAAGAAT
TTTAAAATGCAATCAGCTGCATTTTCCATTGCTGCAGATGTAAAGGATGTCAAGGCGGCTCAGTCAAATGAGAAT
CTAAGCGACTCTCAACAAGAGCCACCTAAAAGTGAAGTCTCGGAAGGGCCCCGTAGAGCCCTCTAATTGGGACCAG
AATGTTCAAAGTATGGAGACTCAAATCGACAAAGCCCCAAGCTGTTACTCAGCCTGTACCCCTTGCGAATAAGCCT
GTACCTGCTCAATCTACTTTTCCTTCAAACACAGGGGGGATGGAGGGAGGAACAGCAGTAGCAACATCATCATT
ACAGCAGATAATGATTTTAAACCTGTGGGTATTGGTCTACCCCATTCAGAAAACAACCAAGATAAAGGCCTGCCT
CGGCCAGATAATAGAGATAATAGATTAGAAGGCAATAGAGGCAACAGCTCATCTTACAGAGGTCTTGGGCAAAGC
AGAATGGAAGACACACGGGATAAAGGTCTAGTAAACAGAGGTGCGGGCCAGGCAATCAGTCGAGGGCCAGGATTG
GTCAAGCAAGAAGACTTTTCGGGATAAGATGATGGGTAGAAGAGAAGATAGTCGAGAGAAGATGAACAGAGGAGAA
GGTAGCCGGGACAGAGGGTTGGTGAGGCCTGGAAGCAGTCGGGAGAAAGTGCCAGGTGGTCTTCAAGGGAGCCAG
GACAGGGGTGCAGCTGGCAGCCGAGAAAGGGGACCACCTCGGAGGGCTGGCAGTCAGGAGAGGGGACCTCTTCGA
AGGGCTGGGAGTAGAGAGAGAATACCACCCCGAAGAGCTGGGAGCAGGGAGAGAGGACCACCTCGAGGGCCTGGC
AGTCGAGAAAGGGGACTGGGAAGATCAGATTTTGGTCTGTATAGAGGTCCATTACAGACCAGAACCAGGAGATGGT
GGGGAATAATGTATCCATATCACCGGGATGAGCCTCCTAGGGCTCCATGGAACCATGGAGAAGAGCGAGGGCAT
GAAGAGTTTCCATTAGATGGTAGAAATGCTCCAATGGAACGAGAAAGACTCGATGACTGGGATAGAGAGAGATAC
TGGAGAGAATGTGAACGTGACTATCAAGATGATACACTAGAGCTCTATAACAGAGAGGACAGGTTCTCAGCACCA
CCATCTCGGTCTCATGATGGAGATAGGCGAGGCCCTTGGTGGGATGATTGGGAGAGAGACCAGGATATGGATGAG
GACTACAATAGGGAAATGGAAAGGGACATGGACAGGGATGTGGATCGGATTTCAAGACCTATGGATATGTATGAT
AGAAGTTTGGATAATGAGTGGGACAGAGATTATGGGAGACCACTGGATGAACAAGAATCACAGTTTCGTGAACGG
GATATTCATCTCTTCCACCTTTACCGCCCCCTCCACCTCTTCCACCTTTGGATAGATATCGGGATGATAGATGG
AGAGAAGAAAGAAATCGAGAGCATGGGTATGATCGAGATTTCCGTGATAGGGGTGAGTTGAGGATTCGAGAGTAT
CCAGAAAGAGGAGATACATGGCGGGAAAAGCGAGATTATGTTTCTGACAGAATGGACTGGGAAAGAGAACGGTTG
TCAGACAGATGGTACCCATCTGATGTGGATAGACATTCCCCCATGGCGGAACATATGCCCTCCTACATCATTCC
TCAGAAATGATGGGGTCCGATGCAAGCTTAGACTCTGACCAAGGCCTTGGAGGGGTAAATGGTTCTCAGTCAGAGG
CAGCATGAAATCATTTTGAAGCTGCACAAGAAGCTGAAAATGCTTCGGGAACAGAAAGAACAGCTTCAAAGATG
AAAGACTTCGGGTCTGAGCCACAGATGGCTGACCATCTACCACCTCAGGAATCAAGATTGCAGAATACATCTTCA
AGACCTGGAATGTATCCGCCTCCAGGGTCGTATAGACCTCCCCCTCCTATGGGCAAACCACCAGGTTCAATTGTA
AGACCTCTGCTCCACCAGCAAGATCATCTGTTTCTGTGACCAGGCCACCTGTCCCAATACCACCACCTCCACCT
CCTCCACCTCTACCTCCTCCTCCTCCAGTGATAAAGCCACAACTTCAGCTGTAGAACAGGAACGATGGGATGAA
GATTCTTTCTATGGGCTCTGGGATACAAATGATGAACAAGGACTGAATTCAGAATTTAAGTCAGAACTGCAGCA
ATTCCATCTGCTCCAGTATTACCACCCCCACCTGTTCACTCTTCCATTCCCCCTCCTGGCCAGTGCCTATGGGT
ATGCCACCAATGTCCAAGCCACCACAGTACAACAGACTGTTGATTATGGCCATGGCCGAGATATATCCACTAAT
AAAGTTGAACAGATACCTTATGGAGAAAGAATAACTCTACGCCAGATCCACTACCTGAAAGATCAACTTTTGAG
ACAGAGCATGCAGGCCAACGTGATCGTTATGATAGAGAAAGAGATCGTGAGCCTTATTTTGATCGTCAAAGTAAT
GTCATAGCAGATCATCGAGATTTTAAAGGGATCGTGAGACACATAGAGATCGAGACCGGGATCGTGGTGTATT
GACTATGACCGGGATCGATTTGACAGAGAACGCCGACCCCGAGATGATAGAGCTCAGTCATATCGAGACAAAAA
GACCATTCTCATCCAGAAGAGGGGGTTTTGATAGGCCATCCTATGACCGGAAGTCTGACCGACCAGTCTATGAA
GGACCATCCATGTTTGGAGGAGAACGAAGGACTTATCCTGAGGAGCGAATGCCTCTGCCAGCTCCTTCACTGAGC
CACCAGCCTCCTCCAGCTCCACGAGTCGAGAAGAAGCCTGAATCAAAGAATGTGGACGATATTTTGAACCACCG

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FIGURE 4050B

GGCCGGGAGAGCAGACCTGAGAGAATTGTTGTTATAATGAGAGGATTACCTGGCAGTGGAAGACACATGTTGCA
AAACTTATTCGAGATAAGGAGGTAGAATTTGGAGGACCTGCACCCAGAGTTCTAAGCCTGGATGATTACTTCATC
ACTGAAGTGGAAAAAGAAGAAAAAGATCCAGATTCTGGAAAGAAAGTGAAAAAGAAGGTAATGGAATATGAATAT
GAAGCTGAGATGGAGGAGACTTACCGCACCAGCATGTTCAAAACTTTCAAAAAGACTCTGGATGATGGCTTTTTT
CCCTTCATCATCCTGGATGCCATCAATGACAGAGTTAGGCATTTTGACCAGTTTTGGAGTGCAGCAAAAACCAAG
GGATTTGAGGTATATTTGGCTGAAATGAGTGCAGATAACCAGACTTGTGGCAAGAGAAATATTCATGGAAGAAAG
CTTAAAGAAATAAATAAGATGGCTGATCACTGGGAACTGCACCTCGTCACATGATGCGTCTAGATATTCGTTCT
TTGCTGCAAGATGCTGCTATTGAAGAGGTAGAGATGGAAGATTTTGATGCAAAATATCGAAGAACAGAAAGAAGAA
AAGAAAGATGCAGAGGAAGAGGAAAGCGAACTGGTAGGAGACAGACCAACCACTTTGAACAGTGTCTCTTTATTA
AAATTCTTAAAGAAGGTTTAAATTCAGATCTGIGGTTAGACAACACTACTGTTGATATACACTTTAGTGGTAAAAGT
TTCCATAATCATCTTCAAGGAGACTTTTGGATACTCTTTATTTTTCCCCAGACCAAAAGAACCCTCTAATGTGGT
GTTAAGAGAAAGTTTTAAACAGAGTGCTAAGAAACTTACCCTGTACTCATCTATTTGTGGGTGGTTTTAGGGGAG
TATACCTTTTTAAGAAAATCAATTACATATGAAAGGGCATTCTTACATTCCAGCAGATATGTGGCACAGCCTACCC
AACATATGCATAATTGTCTCTTCTTTGCTACAAGATCTCCAATTTGAGTTTCTGTCAACAGAGGCAGAAGAAGT
TATTGAATGGGGAGGCAGAGGGTTGCCACTGGCTGCTAGATTTGTTCTTCTGCATTTTATCCTAAGTGACGGGGA
AAAATTAAATGACTGTGTAGGCAATGGATTTTGCTCAGGCTGATTAGAGGCTTACATAGTGTGAGTTTAAAGTTT
CTGTGTACCTAATGTAAAATGCTTTCGATCACACCTCTGTAGAGATGTTTGCTTTCCCTGTCAATTCAAGAATAT
GCGACCTATAGAGTTACGTTGACTTTTCAGTGTTTACTGAAGTACAGAGATTAGCAATGCCTTGGAATAGTGTG
CTTTTTAAATCCAGAATATTACTCGGTTTATTTAATACTTGAGCCCTTGCTAAAGTTGCTCCTCATATTCTTTTG
AAAATGTACAAAATGAGAACTCTGATTCCTACCCCTAGAGTATACAGAATCTCCAGGGAGTGGTCCCATCGAAC
CCGTGTGTGATATAGAGGACTCTTGATAAAAACGTGTTTATATAAAGATGGTGTCAACCTCTACATTCCAAGAT
TTCAAATGTGGATTAAAAATAAGTTTTAAAGT

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FIGURE 4051

MPVRS GGLLPDPPRSSYLESPRGPRFDGPRRFEDLGSRCGPRPKGPRFE GNRPDGPRPRYEGHPAEGTKSKWGM
IPRGPASQFYITPSTSLSPRQSGPQWKGPKPAFGQOHHQQPKSQAEP LSGNKEPLADTSSNQKNFKMQSAAFSI
AADVKDVKAAQSNENLSDSQQEPPKSEVSEGPVEPSNWDQNVQSMETQIDKAQAVTQPVPLANKPVPAQSTFFPSK
TGGMEGGTAVATSSLTADNDFKPVGIGLPHSENNQDKGLPRPDNRDNRL EGNRGNSSSYRGPQGSRMEDTRDKGL
VNRGRGQAISRGFGLVKQEDFRDKMMGRREDSREKMNREGSRRDRGLVRPGSSREKVP GGLQGSQDRGAAGSRER
GPPRRAGSQERGFLRRAGSRERIPRRAGSRERGPPRGPGSREERGLGRSDFGRDRGPFRPEPGDGGEKMYPHYRD
EPPRAPWNHGEERGHEEFPLDGRNAPMERERLDDWDRERYWRECERDYQDDTLELYNREDRFSAPPSRSHDGD RR
GPWWDDWERDQDMD EYNREMERDMDRDVDRI SRPMDMYDRSLDNEWDRDYGRPLDEQESQFRERDIPSLPPLPP
LPPLPPLDRYRDDRWREERNREHGYDRDFRDRGELRIREYPERGDTWREKRDYVPDRMDWERERLSDRWYPSD VD
RHSPMAEHMPSSHSSSEMMSDASLSDSQGLGGVMVLSQRQHEI IILKAAQELKMLREQKEQLQKMKDFGSE PQMA
DHLPPQESRLQNTSSRPGMYPPPGSYRPPPPMGKPPGSIVRPSAPPARSSVPVTRPPVP IPPPPPPPLPPPPPV
IKPQTSAVEQERWDEDSFYGLWDTNDEQGLNSEFKSETAAIP SAPVLPPPPVHSSIPPPGPVPMGMPPMSKPPPV
QQTVDYGHGRDISTNKVEQIPYGERITLRPDPLPERSTFETEHAGQRDRYDRERDREPYFDRQSNVIADHRDFKR
DRETHRDRDRDRGVIDYDRDRFDRERRPRDDRAQSYRDKKDHSSSRGGFDRPSYDRKSDRPVYEGPSMFGGERR
TYPEERMPLPAPSLSHQPPPA PRVEKKPESKNVDDILKPPGRESRPERIVVIMRGLPGSGKTHVAKLIRDKEVEF
GGPAPRVLSLDDYFITEVEKEEKDPDSGKKVKKKVM EY EYEAEMEETYRTSMFKTFKKTLDDGFFPFI ILDAIND
RVRHFDQFWSAAKTKGFEVYLAEMSADNQT CGKRNIHGRKLKEINKMADHWETAPRHMMRLDIRSLLODAAIEEV
EMEDFDANIEEQKEEKKDAEEEESELG YIPKSKWEMDTSEAKLDKLDGLRTGTRKRDWEAIASRMEDYLQLPDD
YDTRASEPGKKRVRWADLEEKKDADRKRAIGFVVGQTDWEKITDESGHLAEKALNRTKYI

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FIGURE 4052

GGCACGAGGCTGCTGTCTGCGGAGGAAACTGCATCGACGGACGGCCGCCAGCTACGGGAGGACCTGGAGTGGCA
CTGGGCGCCCGACGGACCATCCCCGGGACCCGCCTGCCCCCTCGGCGCCCCGCCCCGCGGGCCGCTCCCCGTCGG
GTTCCCCAGCCACAGCCTTACCTACGGGCTCCTGACTCCGCAAGGCTTCCAGAAGATGCTCGAACCACCGGCCGG
GGCCTCGGGGCAGCAGTGAGGGAGGCGTCCAGCCCCCACTCAGCTCTTCTCCTCCTGTGCCAGGGGCTCCCCGG
GGGATGAGCATGGTGGTTTTCCCTCGGAGCCCCCTGGCTCGGGACGTCTGAGAAGATGCCGGTTCATGAGGCTGTT
CCCTTGCTTCTGTCAGCTCCTGGCCGGGCTGGCGCTGCCTGCTGTGCCCCCAGCAGTGGGCCTTGTCTGCTGG
GAACGGCTCGTCAGAGGTGGAAGTGGTACCCTTCCAGGAAGTGTGGGGCCGCAGCTACTGCCGGGCGCTGGAGAG
GCTGGTGGACGTCTGTCCGAGTACCCAGCGAGGTGGAGCACATGTTTCAGCCCATCCTGTGTCTCCCTGCTGCG
CTGCACCGGCTGCTGCGGCGATGAGAATCTGCACTGTGTGCCGGTGGAGACGGCCAATGTCACCATGCAGCTCCT
AAAGATCCGTTTCTGGGGACCGGCCCTCCTACGTGGAGCTGACGTTCTCTCAGCACGTTTCGCTGCGAATGCCGGCC
TCTGCGGGAGAAGATGAAGCCGGAAAGGAGGAGACCCAAGGGCAGGGGGAAGAGGAGGAGAGAGAAGCAGAGACC
CACAGACTGCCACCTGTGCGGCGATGCTGTTCCCCGGAGGTAAACCCACCCCTTGGAGGAGAGAGACCCCGCACCC
GGCTCGTGTATTTATTACCGTCACACTCTTCAGTGACTCCTGCTGGTACCTGCCCTCTATTTATTAGCCAACGTG
TTCCCTGCTGAATGCCTCGCTCCCTTCAAGACGAGGGGCAGGGAAGGACAGGACCCTCAGGAATTCAGTGCCTTC
AACAACGTGAGAGAAAGAGAGAAGCCAGCCACAGACCCCTGGGAGCTTCCGCTTTGAAAGAAGCAAGACACGTGG
CCTCGTGAGGGGCAAGCTAGGCCCCAGAGGCCCTGGAGGTCTCCAGGGGCCCTGCAGAAGGAAAGAAGGGGGCCCT
GCTACCTGTTCTTGGGCCTCAGGCTCTGCACAGTCAAGCAGCCCTTGCTTTCGGAGCTCCTGTCCAAAAGTAGGG
ATGCGGATCCTGCTGGGGCCGCCACGGCCTGGCTGGTGGGAAGGCCGGCAGCGGGCGGAGGGGATCCAGCCACTT
CCCCCTCTTCTTCTGAAGATCAGAACATTTCAGCTCTGGAGAACAGTGGTTGCCTGGGGGCTTTTGCCACTCCTTG
TCCCCCGTGATCTCCCCTCACACTTTGCCATTTGCTTGTACTGGGACATTGTTCTTTCCGGCCAAGGTGCCACCA
CCCTGCCCCCCTAAGAGACACATACAGAGTGGGCCCCGGGCTGGAGAAAGAGCTGCCTGGATGAGAAACAGCTC
AGCCAGTGGGGATGAGGTACCCAGGGGAGGAGCCTGTGCGTCCCAGCTGAAGGCAGTGGCAGGGGAGCAGGTTCC
CCAAGGGCCCTGGCACCCCCACAAGCTGTCCCTGCAGGGCCATCTGACTGCCAAGCCAGATTCTCTTGAATAAAG
TATTCTAGTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4053

MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVDVVSEYPSEVEHMFSP
SCVSLLRCTGCCGDENLHCVVETANVTMQLLKIRSGDRPSYVELTFSQHVRCECRPLREKMKPERRRPKGRGKR
RREKQRPTDCHLCGDAVPRR

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FIGURE 4054

GATAGACCACCATCATGAACGACACAGTAACTATCCACACTAGAAAGTTCATGATCAACCGACGACTTCAGAGGA
AACAAACAGTCATTGATATCCTTCACCCTGGGAAGGCAACAGTGCCTAAGACAGAAATTTGGGAAAACTAGCCA
AAATGTACAAGACCACACTGGATGTCATCTTTGTATTTGCATTCAAACTCATTTTGGTGGTGGCAAGACAACCG
GCTTTGGCATGATTTATGATCCCCTGGATTATGCAAAGAAAAATGAACCCAAACATAGACTTGCAAGACATGGCC
TGTATGAGAAGAAAAAGACCTCAAGAAAGCAATGAGAGGAACGCAAGAACAGAATGAGGAAAGTCAGGGGGACTG
CAAAGGCCAATGTTGGTGCTGGCAAAAAGCTGAAGGAGTAAAGGTGCTGCAATGGTGTAATCTGTGGCCATTGTG
GATTTTTTACAAGAATATTAATAAACTAAACACTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4055

AAAAGCAAGCCAGGAGGTGCTTGCGGCCGCTTCTAGTAGTTTCCAGGCGCTGCCGGGCGGCTGGCACTAAGCGGT
CCTGAGGCTGTGGCTACGGCTGCTCCGGAGCTGGTGGCGCCGCGATAGGAGAGCCG**ATG**GCCAAGTGGGGTGAGG
GAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACAACCTGGCACTGGACGGAGAGAGATG
CTTCAAATTGGTCCACGGATAAGCTGAAAACACTGTTCTTGGCAGTGCAGGTTCAAAATGAAGAAGGCAAGTGTG
AGGTGACGGAAGTGAGTAAGCTTGATGGAGAGGCATCCATTAACAATCGCAAAGGGAACTTATCTTCTTTTATG
AATGGAGCGTCAAACTAACTGGACAGGTACTTCTAAGTCAGGAGTACAGTACAAAGGACATGTGGAGATCCCCA
ATTTGTCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCTGACACAAATC
TCGTGGCCTTAATGAAGGAAGAAGGGGTGAACTTCTAAGAGAAAGCAATGGGAATTTACATCAGCACCCCTCAAAA
CAGAGTTACCCAGGGCATGATCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGA
AACTGAGGAGCGCAAGGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTTGGAGTCAAAATCCCCACTT
GTAAGATCACTCTTAAGGAAACCTTCCTGACGTCACCAGAGGAGCTCTATAGAGTGTTTACCACCCAAGAGCTGG
TGCAGGCCTTTTACCCATGCTCCTGCAACATTAGAAGCAGACAGAGGTGGAAAGTTCCACATGGTAGATGGCAACG
TCTCTGGGGAATTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTTAAATCTTGGCCAGAGG
GACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTGTGCATGGAAGGTCGAGGCA
TCCCTGCTCCTGAGGAAGAGCGGACACGACAGGGCTGGCAGCGGTACTACTTTGAGGGCATTAAACAGACCTTTG
GCTATGGCGCACGCTTATTT**TAG**GGCCAGCGGCAGGGGACTCCAGCCTGCTGGACACTTCAGTCCAGCTCTCTCC
TGACTGGGGCTTGCGACTCACAGGATTGCATCGTCCCAGCTGCTAACTTGGGGCCGGGGCCCCTCCCTTCCACAT
ATACCTTGGGTTTGTGCATGTTTTCTGCTGGGTGGGTTTCAGAGGGCAATTTCTCTTTTATGTGTACATATGCTAA
ATAAACATAATTTAAAAAACAAAAA

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FIGURE 4056

MAKWGEGDPRWIVEERADATNVNNWHWTERDASNWSTDKLKTLFLAVQVQNEEGKCEVTEVSKLDGEASINNRKG
KLIFFFYEWSVKLNWTGTSKSGVQYKGHVEIPNLSDENSVDEVEISVSLAKDEPDNLVALMKEEGVKLLREAMGI
YISTLKTEFTQGMILPTMNGESVDPVGQPALKTEERKAKPAPSKTQARPVGVKIPTCKITLKETFLTSPEELYRV
FTTQELVQAFTHAPATLEADRGGKFHMDGNVSGETDLVPEKHIVMKWRFKSWPEGHFATITLTFIDKNGETEL
CMEGRGIPAPEEEERTRQGWQRYFFEGIKQTFGYGARLF

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FIGURE 4057

GTAGGAGTCCGCGGCAGCCTCCGGGTAAGCCAAGCGCCGCGCAGTGCTGAGTTCCCGCACGCCGCAGAGCCATGG
AGATCGGCACCGAGATCAGCCGCAAGATCCGGAGTGCCATTAAGGGGAAATTACAAGAATTAGGAGCTTATGTTG
ATGAAGAACTTCCTGATTACATTATGGTGATGGTGGCCAACAAGAAAAGTCAGGACCAAATGACAGAGGATCTGT
CCCTGTTTCTAGGGAACAACAATTTCGATTACCGTATGGCTTCATGGTGTATTAGATAAACTTCGCTCTGTTA
CAACTGAACCCCTCTAGTCTGAAGTCTTCTGATACCAACATCTTTGATAGTAACGTGCCTTCAAACAAGAGCAATT
TCAGTCGGGGAGATGAGAGGAGGCATGAAGCTGCAGTGCCACCACCTTGCCATTCTAGCGCGAGACCTGAAAAAA
GAGATTCCAGAGTTTCTACAAGTTCGCAGGAGTCAAAAACCAAAATGTCAGACAGACTTACGATGATGGAGCTG
CAACCCGACTAATGTCAACAGTGAAACCTTTGAGGGAGCCAGCACCCCTCTGAAGATGTGATTGATATTAAGCCAG
AACCAGATGATCTCATTGACGAAGACCTCAACTTTGTGTCAGGAGAATCCCTTATCTCAGAAAAAAACCTACAGTG
ACACTTACATATGGTTCTTCTCGCCCTTCTATTGAAATTTATCGACCACCTGCAAGTAGAAATGCAGATAGTGGT
GTTCATTTTAAACAGGTTGCAATTTCAACAGCAGCAGAATAGTATTCATGCTGCCAAGCAGCTTGATATGCAGAGT
AGTTGGGTATATGAAACAGGACGTTTGTGTGAACCAGAGGTGCTTAACAGCTTAGAAGAAACGTATAGTCCGTTT
TTTAGAAACAACCTCGGAGAAAATGAGTATGGAGGATGAAAACCTTTCCGGAAGAGAAAGTTGCCTGTGGTAAGTTCA
GTTGTTAAAGTAAAAAAATTCAATCATGATGGAGAAGAGGAGGAAGAAGATGATGATTACGGGTCTCGAACAGGA
AGCATCTCCAGCAGTGTGTCTGTGCCTGCAAAGCCTGAAAGGAGACCTTCTCTTCCACCTTCTAAACAAGCTAAC
AAGAATCTGATTTTGAAGGCTATATCTGAAGCTCAAGAATCCGTAACAAAAACAATACTACTCTACAGTTCCA
CAGAAACAGACACTTCCAGTTGCTCCCAGAACTCGAAGCTTCTCAAGAAGAATTGCTAGCAGAAGTGGTCCAGGGA
CAAAGTAGGACCCCCAGAATAAGTCCCCCATTAAGAAGAGGAAACAAAAGGAGATTCTGTAGAAAAAAATCAA
GCTGAGATGAGTGAAGTGAAGTGTGGCACAGAAACCAGAAAAACCTTTTGGAGCGCTGCAAGTACTGGCCTGCTTGT
AAAAATGGGGATGAGTGTGCCTACCATCACCCATCTCACCTGCAAAGCCTTCCCCAATTGTAAATTTGCTGAA
AAATGTTTGTGTTTGTACCCAAATTGTAAATATGATGCAAAGTGTACTAAACCAGATTGTCCCTTCACTCATGTG
AGTAGAAGAATTCAGTACTGTCTCCAAAACAGTTGCACCACCAGCACCACTTCCAGTAGTCAGCTCTGCCGT
TACTTCCCTGCTTGTAAAGAAGATGGAATGTCCCTTCTATCATCCAAAACATTGTAGGTTTAACACTCAATGTACA
AGACCGGACTGCACATTCTACCATCCCACCATTAATGTCCCACCACGACATGCCTTGAAATGGATTGACCTCAA
ACCAGCGAATAGCACCCAGTCTCTGCCTGGCAGAAGATCATGCAGTTTGGAAAGTTTTCATGTACTGATGAAAGATA
CTCTACAGAACTTGTCAAATCTTTGAAACTTGAATATATTGCTTTTATAATATGAAGTTTTATTGCCTATCT

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FIGURE 4058

MISLTKTSTLCRRIPYLRKKPTVTLTYGSSRPSIETIYRPPASRNADSGVHLNRLQFQQQQNSIHAAKQLDMQSSW
VYETGRLCEPEVLNSLEETYSPPFRNNSEKMSMEDENFRKRKLPVVSSVVKVKKFNHDGEEEEEDDDYGSRTGSI
SSSVSVPAKPERRPSLPPSKQANKNLILKAISEAQESVTKTTNYSTVPQKQTLPVAPRTRTSQEELLAENVVQGQS
RTPRISPPIKEEETKGDSVEKNQAEMSELSVAQKPEKLLERCKYWPCKNGDECAYHHPISPCKAFPNCCKFAEKC
LFVHPNCKYDAKCTKPDCTHVSRRIPVLSPKPVAPPAPPSSSQLCRYFPACKKMECPFYHPKHCRFNTQCTRP
DCTFYHPTINVPPRHALKWIRPQTSE

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FIGURE 4059

AATTCCGGCGGAAGTGGTGGAGGAACTTCCGGCAGCGGCAGCTCAAGTGGCCAAGGCAAGATGGGTCAAAGTCAG
AGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACGAGGACAAGAAAAAGAAATATGAACCTCCTGTACCA
ACTAGAGTGGGGAAAAAGAAGAAGAAAACAAAGGGACCAGATGCTGCCAGCAAACCTGCCACTGGTGACACCTCAC
ACTCAGTGCCGGTTAAAAATTACTGAAGTTAGAGAGAATTAAAGACTATCTTCTCATGGAGGAAGAATTCATTAGA
AATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAGGAGGAAAGATCAAAAGTGGATGATCTGAGGGGGACC
CCGATGTCAGTAGGAACCTTGGGAAGAGATTATTGATGACAATCATGCCATCGTGTCTACATCTGTGGGCTCAGAA
CACTACGTCAGCATTCTTTCATTTGTAGACAAGGATCTGCTGGAACCTGGCTGCTCGGTCTGCTCAACCACAAG
GTGCATGCCGTGATAGGGGTGCTGATGGATGACACGGATCCCCTGGTCACAGTGATGAAGGTAGAAAAGGCCCCC
CAGGAGACCTATGCAGATATTGGGGGGTTGGACAACCAAATTCAGGAAATTAAGGAATCTGTGGAGCTTCCTCTC
ACCCATCCTGAATATTATGAAGAGATGGGTATAAAGCCTCCTAAGGGGGTCATTCTCTATGGTCCACCTGGCACA
GGTAAAACCTTGTTAGCCAAAGCAGTAGCAAACCAAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACTT
ATTCAGAAGTACCTAGGTGATGGGCCCAAACCTCGTACGGGAATTGTTCCGAGTTGCTGAAGAACATGCACCGTCC
ATCGTGTTTATTGATGAAATTGACGCCATTGGGACAAAAGATATGACTCCAATTCTGGTGGTGAGAGAGAAATT
CAGCGAACAATGTTGGAACCTGCTGAACCAGTTGGATGGATTTGATTCTAGGGGAGATGTGAAAGTTATCATGGCC
ACAAACCGAATAGAAACCTTTGGATCCAGCACTTATCAGACCAGGCCGCATTGACAGGAAGATTGAGTTCCCCCTG
CCTGATGAAAAGACGAAGAAGCGCATCTTTCAGATTACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTG
GACGACCTGATCATGGCTAAAGATGACCTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATG
GCCTTAAGAGAACGTAGAATGAAAGTAACAAATGAAGACTTCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAA
CAGGAAGGCACCCCTGAGGGGCTGTATCTCTAATGAACCATGGCTGTCATCAGGAAAATGGTTGGGAGATTTCTC
AATCCCTGAAAGGGATGAGGTTGGGGGAGTTGCCAGAGGAATCCCTGTTCCCACTGATTTTTATTAGCAAAACA
TCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCCCATTTGGGTGGCCTGTTGGTCACTGTGCAGCAGTCTGCTTCC
CAATAAAGCGTGCTCTTTCACAAG

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FIGURE 4060

MGQSQSGGHGPGGGKKDDEDKKKKYEPPVPTRVGKKKKKTKGPDAAASKLPLVTPHTQCRLKLLKLERIKDYLLME
EEFIRNQEOMKPLEEKQEEERSKVDDL RGT PMSVGTLEEIIDDNHAI VSTSVGSEHYVSILSFVDKDLLEPGCSV
LLNHKVHAVIGVLMDDTDPLVTVMKVEKAPQETYADIGGLDNQIQEIKESVELPLTHPEYYEEMGIKPPKGVILY
GPPGTGKTLLAKAVANQTSATFLRVVGSELIQKYLGDGPKLVRELFRVAEEHAPSIVFIDEIDAIGTKRYDSNSG
GEREIQRTMLELLNQLDGFDSRGDVKVIMATNRIETLDPALIRPGRIDRKIEFPLPDEKTKKRIFQIHTSRMTLA
DDVTLDDLIMAKDDL SGADIK AICTEAGLMALRERRMKVTNEDFKKSKENVLYKKQEGTPEGLYL

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FIGURE 4061

CCTTTCGGCCGGAACCGCCATGTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCG
ATATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTGGCCACATATATGCGAATCTATAAGAAAGT
TGATATTGTAGACGTCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGG
AAGAGTCTACAGTGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAA
GAGAATTAATGTGCGTATTAAGCACATTAAGCACTCTAAGAGCCAAGATAGCTTCCTGAAACGCGTGAAGGAAAA
TGATCCTCCACCCAGAGAAGCACACTTTGTGAGAACCAGTGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTG
TGAATTCATGGCATAATAGGTGTT

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FIGURE 4062

MTNTKGKRRGTRYME'SRPFRKHGVVPLATYMRIYKKVDIVDVKGMGTIVQKGMPHKCYHGKTGRVYSVTQHAVGIV
VNKQVKGKILAKRINVRIKHIKHSKSQDSFLKRVKENDPPPREAHFVRTSGKEPELLEPIPCFMA

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FIGURE 4063

AGTGGTGCTGGGAGTGTCGTGGACGCCGTGCCGTTACTCGTAGTCAGGCGGCGGCGCAGGCGGCGGCGGCGGCAT
AGCGCACAGCGCGCCTTAGCAGCAGCAGCAGCAGCAGCAGCATCGGAGGTACCCCGCCGTGCGAGCCCCGCGC
TGGTGCAGCCACCCCTCGCTCCCTCTGCTCTTCCTCCCTTCGCTCGCACCATGGCTGATCAGCTGACCGAAGAACA
GATTGCTGAATTCAAGGAAGCCTTCTCCCTATTTGATAAAGATGGCGATGGCACCATCACAACAAAGGAACTTGG
AACTGTCATGAGGTCAGTGGGTCAGAACCCAAACAGAAGCTGAATTGCAGGATATGATCAATGAAGTGGATGCTGA
TGGAATGGCACCATTGACTTCCCGAATTTTGAAGTATGATGGCTAGAAAAATGAAAGATACAGATAGTGAAGA
AGAAATCCGTGAGGCATTCCGAGTCTTTGACAAGGATGGCAATGGTTATATCAGTGCAGCAGAACTACGTCACGT
CATGACAACTTAGGAGAAAACTAACAGATGAAGAAGTAGATGAAATGATCAGAGAAGCAGATATTGATGGAGA
CGGACAAGTCAACTATGAAGAATTCGTACAGATGATGACTGCAAAATGAAGACCTACTTTCAACTCCTTTTTCCC
CCCTCTAGAAGAATCAAAATGAATCTTTTACTTACCTCTTGCAAAAAAAGAAAAAAGAAAAAAGTTTCAATTTATT
CATTCTGTTTCTATATAGCAAACTGAATGTCAAAAGTACCTTCTGTCCACACACACAAAATCTGCATGTATTGG
TTGGTGGTCTGTCCCTTAAAGATCAAGCTACACATCAGTTTTACAATATAAATACTTGTACTACCTTAATGATA
AGGACTCCTTAAAGTTCCATTTGCTAATGATTAATACACTGTTTGGGCTGGCCAGTTTTTTCATGCATGCAGCTTG
ACGATTGAGCACAGTCAGGCCTTTGTATTAAAAATGAAAAATGAAAAACAAATTCAAACCTATTCAAATGGGT
TCTAGTTCAATTTGTTTAGTATAAATTGTCATAGCTGGTTTACTGAAAACAAACACATTTAAATTTGGTTTACCT
CAGGATGACGTGCAGAAAAATGGGTGAAGGATAAACCGTTGAGACGTGGCCCCACTGGTAGGATGGTCCTCTTGT
ACTTCGTGTGCTCCGACCCATGGTGACGATGACACACCCTGGTGGCATGCCCCGTGTATGTTGGTTTAGCGTTGTC
TGCAATTGTTCTAGAGTGAAACAGGTGTCAGGCTGTCACTGTTTACACAAAATTTTAAATAAGAAACATTTACCAAG
GGAGCATCTTTGGACTCTCTGTTTTTAAACCTTCTGAACCATGACTTGGAGCCGGCAGAGTAGGCTGTGGCTGT
GGACTTCAGCACAAACCATCAACATTGCTGTTCAAAGAAATTACAGTTTACGTCCATTCCAAGTTGTAAATGCTAG
TCTTTTTTTTTTTTTTTTTTCCAATAAA

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FIGURE 4064

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPFELTMMAR
KMKDIDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLIDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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FIGURE 4065

GCTGCCACCGCTCCTGCCACTGCAGTGCTCGAGCCCCGTGCAGGGGAGCTTGCGGGAGGATCGACCGACAGACGG
ACGCACGCCGAGGCACCTGCGCCCCAGCCCCGCGCCGGTGCCACCGCAGCCCCGACCCCGGCCGCCAGTCCAGCCG
CCCCTCGCCCCGGTGCCCTAGGTGCCCCGGCCCCACACCGCCAGCTGCTCGGCGCCCCGGGTCCGCC**ATG**CGCTCCGCC
GCTGTCTGCTGCTCTGCTGCTGCGCCGGGCAAGTCACTGCGCTCCCTGTGAACAGCCCTATGAATAAAGGGGAT
ACCGAGGTGATGAAATGCATCGTTGAGGTCATCTCCGACACACTTTCCAAGCCCAGCCCCATGCCTGTCAGCCAG
GAATGTTTTGAGACACTCCGAGGAGATGAACGGATCCTTTCCATTCTGAGACATCAGAATTTACTGAAGGAGCTC
CAAGACCTCGCTCTCCAAGGCGCCAAGGAGAGGGCACATCAGCAGAAGAAACACAGCGGTTTTGAAGATGAACTC
TCAGAGGTTCTTGAGAACCAGAGCAGCCAGGCCGAGCTGAAAGAGGCGGTGGAAGAGCCATCATCCAAGGATGTT
ATGGAGAAAAGAGAGGATTCCAAGGAGGCAGAGAAAAGTGGTGAAGCCACAGACGGAGCCAGGCCCCAGGCCCTC
CCGGAGCCCATGCAGGAGTCCAAGGCTGAGGGGAACAATCAGGCCCTTGGGGAGGAAGAGGAGGAGGAGGAGGAG
GCCACCAACACCCACCTCCAGCCAGCTCCCCAGCCAGAAATACCCAGGCCACAGGCCGAGGGGGACAGTGAG
GGCTCTCTCAGGGTCTGGTGGACAGAGAGAAGGGCTGAGTGAGAGCCAGGCTGGCAGGCAAAGAGAGAAGAG
GAGGAGGAGGAGGAGGAGGAGGCTGAGGCTGGAGAGGAGGCTGTCCCCGAGGAAGAAGGCCCACTGTAGTGCTG
AACCCCCACCCGAGCCTTGGCTACAAGGAGATCCGGAAGGCGAGAGTCCGTCGGAGGCTCTGGCTGTGGATGGA
GCTGGGAAGCCTGGGGCTGAGGAGGCTCAGGACCCCGAAGGGAAGGGAGAACAGGAGCACTCCCAGCAGAAAGAG
GAGGAGGAGGAGATGGCAGTGGTCCCGCAAGGCCTCTTCCGGGGTGGGAAGAGCGGAGAGCTGGAGCAGGAGGAG
GAGCGGCTCTCCAAGGAGTGGGAGGACTCCAAACGCTGGAGCAAGATGGACCAGCTGGCCAAGGAGCTGACGGCT
GAGAAGCGGCTGGAGGGGCGAGGAGGAGGAGGAGACAACCGGGACAGTTCCATGAAGCTCTCCTTCCGGGCCCCG
GCCTACGGCTTACGGGGCCCTGGGCCGAGCTGCGACGAGGCTGGAGGCCATCCTCCGGGAGGACAGCCTTGAG
GCGGGCCTGCCCCCTCAGGTCCGAGGCTACCCCGAGGAGAAGAAAGAGGAGGAGGGCAGCGCAAACCGCAGACCA
GAGGACCAGGAGCTGGAGAGCCTGTGCGCCATTGAAGCAGAGCTGGAGAAAGTGGCCCACCAGCTGCAGGCACTA
CGGCGGGGCT**AG**AGACACCGGCTGGCAGGGCTGGCCCCAGGGCACCTGTGGCCCTGGCTCTGCTGTCCCCTTGGC
AGGTCTTGCCAGATGGCCCCGACGCTGCTTCCGGTAGGGAGGCAGCCTCCAGCCTGCCAAGCCCAGGCCACCC
TATCGCCCCCTACGCGCCTTGCTCTCTACTCCTGACTCCTACCTGCCCTGGAACATCCTTTGCAGGGCAGCCCCA
CAACTTTAAACATTGACGATTCTTCTCTGAACACAGGCAGCTTTCTAGAAGTTTCCCTTCCCTCCATCCTATCCA
CTGGGCACAACCTGCAATAACTTCTGACCTTTTGGTGAAAGCTGAGAACTCCTGACTGTAAACATATTCTGTATGAA
CTTTATCTAAAGAAAAATAAATCTGTTCTGGGCTCTTTCCTCTG

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FIGURE 4066

MRSAVLALLLCAGQVTALPVNSPMNKGDTVMKCIVEVISDTLSKPSMPVVSQECFETLRGDERILSILRHQNL
LKEQLDLALQGAKERAHQKKHSGFEDELSEVLENQSSQAELEAVEEPSSKDVMEKREDSKEAEKSGEATD GAR
PQALPEPMQESKAEGNNQAPGEEEEEEEEATNTHPPASLP SQKYPGPQAEGDSEGLSQGLVDREKGLSAEPGWQA
KREEEEEEEEEAEAGEEAVPEEEGPTVVLNPHPSLGYKEIRKGESRSEALAVDGAGKPGAEAAQDPEGKGEQEH
QQKEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKELTAEKRLEGQEEEDNRDSSMKLS
FRARAYGFRGPGPQLRRGWRPSSREDSLEAGLPQVRGYPEEKKEEEGSANRRPEDQELESLSAIEAELEKVAHQ
LQALRRG

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FIGURE 4067

GACTGCGCGCCCCAGCTCCGATCCCCGTTCCGCGTCCCCGCCGCCGGGAGGAGGTGCCACTCGCTCGCGGCGCG
CGCCGGCCGCCAGACTCGGCCTGTGGGCGATTTCTCCGGACCCAGGCTCCCCGCCGAGGAGGAAGATGCAGAC
CTTTCTGAAAGGGAAGAGAGTTGGCTACTGGCTGAGCGAGAAGAAAATCAAGAAGCTGAATTTCCAGGCCTTCGC
CGAGCTGTGCAGGAAGCGAGGGATGGAGGTTGTGCAGCTGAACCTTAGCCGGCCGATCGAGGAGCAGGGCCCCCT
GGACGTATCATCCACAAGCTGACTGACGTATCCTTGAAGCCGACCAGAATGATAGCCAGTCCCTGGAGCTGGT
GCACAGGTTCCAGGAGTACATCGATGCCACCCCTGAGACCATCGTCCCTGGACCCGCTCCCTGCCATCAGAACCCCT
GCTTGACCGCTCCAAGTCCATGAGCTCATCCGGAAGATTGAGGCCTACATGGAAGACGACAGGATCTGCTCGCC
ACCCTTCATGGAGCTCACGAGCCTGTGCGGGGATGACACCATGCGGCTGCTGGAGAAGAACGGCTTGACTTTCCC
ATTCAATTTGCAAAACCAGAGTGGCTCATGGCACCAACTCTCACGAGATGGCTATCGTGTTCAACCAGGAGGGCCT
GAACGCCATCCAGCCACCCTGCGTGGTCCAGAATTTTCATCAACCACAACGCCGTCCTGTACAAGGTGTTTCGTGGT
TGGCGAGTCCCTACACCGTGGTCCAGAGGCCCTCACTCAAGAACTTCTCCGCAGGCACATCAGACCGTGAGTCCAT
CTTCTTCAACAGCCACAACGTGTCAAAGCCGGAGTCGTATCGGTCCTGACGGAGCTGGACAAGATCGAGGGCGT
GTTTCGAGCGGCCGAGCGACGAGGTTCATCCGGGAGCTCTCCCGGCCCTGCGGCAGGCACTGGGCGTGTCACTCTT
CGGCATCGACATCATCATCAACAACCAGACAGGGCAGCAGCCGTCATTGACATCAATGCCTTCCCAGGCTACGA
GGGCGTGAGCGAGTTCTTTCACAGACCTCCTGAACCACATCGCCACTGTCCTGCAGGGCCAGAGCACAGCCATGGC
AGCCACAGGGGACGTGGCCCTGCTGAGGCACAGCAAGCTTCTGGCCGAGCCGGCGGGCGGCTGGTGGGCGAGCG
GACATGCAGCGCCAGCCCCGGCTGCTGCGGCAGCATGATGGGCCAGGACGCGCCCTGGAAGGCTGAGGCCGACGC
GGGCGGCACCGCCAAGCTGCCGCACCAGAGACTCGGCTGCAACGCCGGCGTGTGCCCAGCTTCCAGCAGCATTG
TGTGGCCTCCCTGGCCACCAAGGCCTCCTCCCAGTAGCCACGGAGCCGGGACCCAGAGGGGCAGCGCAGGGCGCA
GAGCACACCCGCTGGGCCAGCAGCTCCCAACGGCGATGCTACTACTAAGAATCCCCAGTGATCTGATTCTTCTGT
TTTTTAATTTTAACTGATTCTCTGATGTCATGATCTAAATGAGGGGTAGTGGGGGATGGAAGAGAGTACCAGG
TGGTCCACCGTTGGGGAGTGGGGCCGTCCGCCTGCTCTCTACTGTGCAGACCTCCTAACTGAGTTTACACACGCT
TGTGTTTGCAACACTAGGTCTGGATGGGAGGTGAGGGGTGTGCGTATGGCTGCCATGCCAGTGTCTGTGCACATC
CCTGTCTGTTGGTCTCCATGGCCACTGTGGACCGGGACCCCTGGGGGAAGCCTGCCATGTGCGGCTGTGGGAGG
CTGATCGGTGCATGTGAGAGTGGCTTCCCTTCTGCCTGACTCCCCACTCCCTGACCTGCCCTTCTTTGTTTTTC
CTCCTACTGGTCTCCACCAAGGCTTTGTTAGCCCCCACCCTGCCTGGTGTGCAGCTAACCCCTCCCTCCCCACAG
CCAGAGGAGGCCACAGACCCCTCAGGGGAGTTCCGCGCTGGGGTCTGGGCTGTGCTCCCTCACTAAAGGGAAGGA
AAGGAAGCTGGGCGTCTCTGGGCCCCCAACACACGTCCCATTTAGCCCTGCACAGCGGTCTCCTTCCCCTAAG
CCAGCACTGCTGCTCCCTGGAGCCCGGGAAGGAGGCTGCCTGGCTGGAGGCCGAGCCGATGGCGCCTGTGCTGA
GGATTTGTGCTGTGATTTGGGCAAATCATTCCAGGTCTTTGGGCCTCCACCCCTTGTCTCTAGTGGACATTTGA
GATCAGAGAGCACACAGGGCTGGCTTTGTGCCCTAACCCCTGGGATGCAGCCTGCCTTTCCATAAAGTCACCTA
GGTGAGGATAGGCGCGGGAGCCTCGGCATGACACCATGGAGATCGGGGCCCTCTTCCCAGTGGGTTCACTCCTTT
TCACACCTGCTGGGTCCCTCCTCACCAGCAGGCCTGGTCCACCTCTCATTGCAAGCCCCAAGCACTGAGCCAGC
AGGTGCCAGGGAGCCACCCGCCCCCATCGCTTCTGCACACCTCAGACTCACCCCATCACCTTGGCAGCAAAGCA
CTGGCTCTGCCGTCTGACCCCTGATCCAGGCAGCCCCCTCTGCAGAGAAAAGGTTGGGGAGAAGCCTCTGCAGT
CCTGGAAGATGTGGGGTGTGAGGATGAGAGGCATCAGCCCCCACAAGTATGTTTTGTGTCTTAAGATAGCAGTTT
ACTTTGAAAAAGTGAAAAAGGCTTCCGGGCTGTCTCTGCCCAGTGAGATGGAGGACGCTAGAGAAAGTGCTGAG
TGTCCCGAGAGAGGCCCCGAGCCAGTGCATGGAGGTCTTCGGCCTGGCTCAGCTGGGCTGCAGGATGCCACT
TTGAGGAGGGAGGCACAGGGCTTGGGCGAGGGGCAGAGGCCATCAGAACTGCCCGGCTTTTTTGAAACTGAGGA
CCCAACAATAACACGTTTACACGACTTGAGTTTTGAACCCCGATTAATGTCTGTACGTCACCTTTCCTAGTTC
TGACCCTGAGCCCTGGGGAACAGGAAAGCGTGGCTGGCCTCTTGCACTGCTTTGTCTCCAAAATAAACTACTGAA
ATCAAACCGCA

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FIGURE 4068A

GTATTCTCCGCCGCCCCACGCCCTCGAGGTCCCCGCCACCGAACCAGCGCGGAGCCCGCCCGCGCCTCCCCGCG
GCATTCCCGCACCGGATCGCTCCTCGCTGGGGCGGGACCTGGCCTGGCGGCTCTGGTCACTATGAGTGAAACATC
TTTCAACCTAATATCAGAAAAATGTGACATTCTATCCATTCTTCGGGACCATCCTGAAAACAGGATTTACCGGAG
GAAAATCGAGGAACCTCAGCAAAAGGTTACCGCCATCCGCAAGACCAAAGGGGATGGGAACCTGCTTCTACAGGGC
CTTGGGCTATTCTACCTGGAGTCCCTGCTGGGGAAGAGCAGGGGAGATCTTCAAGTTCAAAGAACGCGTACTGCA
GACCCCAAATGACCTTCTGGCTGCTGGCTTTGAGGAGCACAAGTTCAAGAACTTCTTCAATGCTTTTTTACAGTGT
GGTGGAACCTGGTAGAGAAGGATGGCTCAGTGTCCAGCCTGCTGAAGGTGTTCAACGACCAGAGTGCCTCGGACCA
CATCGTGCAGTTCTGCGCCTGCTCACGTCGGCCTTCATCAGGAACCGAGCAGACTTCTTCCGGCACCTTCATTGA
TGAGGAGATGGACATCAAAGACTTCTGCACTCACGAAGTAGAGCCCATGGCCACGGAGTGTGACCACATCCAGAT
CACGGCGTTGTGCGCAGGCCCTGAGCATTGCCCTGCAAGTGGAGTACGTGGACGAGATGGATACCGCCCTGAACCA
CCACGTGTTCCCTGAGGCCGCCACCCCTTCCGTTTACCTGCTCTATAAAACATCCCACTACAACATCCTTTATGC
AGCCGATAAACATTGATTAATTTTAGGCCATGCAGTGGAACTGTACCTAATGGGACTGCATTCTGAATGGAAC
ATTCCGGCTCTTCAATTTTTTAAGCAATTTAGACTGTAGCAAGAAAATGTGCAGCCTTTTGGGCAAAGCCCTTG
GAACGAGGCCTATCCACTATGGACTATGGTAACTTGGTAGGATTTTTAGTATTTATTTAATGGAGGGACAAATG
CTTTCTAACTGGGCCCCCGACTCCGCACCCAGTTCGCAGTGAAGCCCTGGGTGGGTACCTGCCCTCTCTGGAC
TTGTTTCTTCAACTGGAGGAGGTCCCTGCCTATGCTGACATTCCATTGTAGAAAAATGGGGCCTCTGGTGTCTCT
TTACCAGGGGCAGTGCCTCTCTGCGGGGAGGAAAAGCTCAAGGTTAGCTGTCTTAACCAAGTGACTTACCAGG
CCTACAAAAGAGTCCAGTCCAGTCACTTGTGGACTGGGCTCTGACAGATGGCCTATTGAGGTCAACTTGAATGT
GAGGGCTACGGTGTGGTTTCAAACATTCATGATGGATGTATTTTCTACCCCTAACTTAAGGAGAAAAA
GACTTCCTTTTTTTGCCAAAGTCCAGAAAGGGGCCTTTAGCCTTTAGTAGGAGCTCAAATTGTTGGGGCCCTCT
ACCTCTCTCAGGGCTAGAACTGCCTGACTCTTGGTGGACGAGCCCTTCAGGGTTCTGCTTTCAGCCCCACCTGGA
CAGAGGCTTACAAGACTAGGGTCTGGACCAGAATCTGTGTATTTCTGTCTGGGACCAGGAAGCCGCAGCTGTCCC
ATCATCCCCAGCAAATCCTAGAAGTGGAGTCTGGATACTTCAAGGATAGAAGTGTGGCACGCACAGCCATGGAC
CCAGCTGAGCAGAGCAGACGCTTTGCAGGCTGCCCTGGCTTCTCTCCTCTTCCCGCTTCTGCTCTCTTTATG
GACTGGTCAGAGGTAGGTGGGAAAGAACAGACAAGCCATGGGAAGTTGGCAGTGGGGAGATTTCCTACTGTGGAA
ACCGCCTGGGAATTCGGGCCAGCAGCTTCTCCTTCAGCCACCTGGCCATAACCCCTTAAATAAGCCCTCACCTT
GCTGCCTCAGGACCTTCAAGATTCCATCTGTGGGCTGGCCGGAAGATGGCACCAAGTGGGGACCCACACCCTGGC
TGGGCAGAGGTGCTGCTAGCAACCTCTCTTCTCTATAAGAGGAAATGGAAAATGCAGGGGTGTGGAATTGCCCTT
TGGGGTCTTCTTAAATTGAAGGCCACCTTCTCACAGGTTTCTATTCTGCAGGGATTTACTGGAATCTATTGGTGC
TGCTGCATGAGTCTGCTGACAACCTGACTGCACAAGGACTGGGTAGCAGACTCCTCAGAGTCTCTTGACACAAA
TGTCAGATTTGTGTCACTCTTCTGCCTTCGTGAAAAGCCAATAGCACTCTCAGATATCAGGGGATTTTAGTTCCA
AGCAGGGACCCCTGGTTTCCATACTGCCCTCAGCTGGAGTTTGGATCCAAAGGCTCTGGCTAAGTCATTATGTCAC
TTTTTTCACAGGAATGTAAATTTGACTGTCACTCTGAATTTGTTTCAGTGTCCCACCATGGTCTATGAGAAGTACA
CTGGAAGCGTGGGGGAACACATGACATGATTTGTGAATATCATCATCTTTGCCAGACAAGTCTCCAGGGGATCC
CTGTTTCCCAACTGAAAGGTGTGAACGGACACACACAGCCTGGATGACGCCTTGGCTGTTCTAAGGGGCTGTA
AGGTGGGCTCTGGGCCTTCCAGCTAGGCTCTCAAGCACAGCAGAAGCCTCACTGGGCTGCTATGTCTCTGTATTT
GTGGCTTGTGTGGTAGCCTCAGAAGCAGAGCTGTTTGGCAGACTGGCTGGAGAAATCCCTCTAGGAGACTTGCC
TGTGCTGTGCTTCCAGGTCACAGAGCCCCCGGAAACTCACAGGGGCCCTCTTCCAGAAAAGAATCTATTCTAT
CACTTCAGAATCAGGACACTCAAGCTCTGGCAGAGGAAGGCCAAGTTACTTTTCATGGTCTTACCCTCTGCTTTTC
CCCTTTTTGCAAAAACCACTGGCCAAATCCGAACCATTGCCCTTGTTTCCCCACGTTCTCTCTCAGATCTTTG
TCTCGAAGGGAAAACATAGTGGATGAAAAGGTGTGGCAGGCTTTGGCACCTTGTTAAATTTCTAGTCATCTGTG
GATGTTACCTTGCTTGTCACAGCAGCCAGTCAACCTGGCCAGTCCCCTTCTGGATAATTCTCTACCCCTCACC
CCACAGAGCCATCTCTCTCCAGACCAAAGCTGGAAGGAGAGTTGCTTTGAGAGCTTGTTTTTACAACCTGCATGT
TTATTATGATACTTCTCTCCAAAGGAACTTTTAAATCAATGGGAACAATTAGCAACAGAAAGAGCACAGTCCC
TGCTTTTGACTGGGTTCCTATTTTAAGCACAAATGAGAGCTCTGGAGCCAGAATGCCAGGGTTCTAACTTCAGCA
TTCACTTACTAGCTGTATGATCTTGGCCAAGTCACTTCACTCCCTGAGCCCCAATTCCTCAAGTTTGTGAAATGG
CAACAATACCTATGTGTCACTGGATTATTGGTTAAAACAGAATGAGATTCTTGTGTGAAAATAGCTATTATACC
TGACACACTCATCGTATGGGCTCTGCAAAGGGATATTCCCCAACCTGTCTTCTGACAGGAAGCATAGGGCACT

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FIGURE 4068B

GCAGATGGGGAAGCATGTCACCTTGGCAGTGACTCGGTGGCTTCCCAAGCAGGAGTGTGAGGGGAACCATGAGAG
AGAGTCTAGGAGCAAACACATCACCACCCTGAGCAGATACAGGAGTGGGGAGGGGGCTGTAACTCAGTGAGTGGC
TTCCAGGGGCCCCAGGCCCTGCTGGATGTGGGCCAAGCCCTACAGCTTCCCTAGGCAGTAAGTAAAAACATTCTC
CTAGCATTAAAAATGGTTTCCAT

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FIGURE 4069

CCGGAAGTGCAGTTGCTGCTGCAGCTGAGGTACAGCGGCGGTTTCTGAGGTTCTTCACTCGCGACTGACGGAGCT
GCGGTGGCGTCTCCACACGCAACCATGAAGTTGAAGGACACAAAATCAAGGCCAAAGCAGTCAAGCTGTGGCAAA
TTTCAGACAAAGGGAATCAAAGTTGTGGGAAAATGGAAGGAAGTGAAGATTGACCCAAATATGTTTGCAGATGGA
CAGATGGATGACTTGGTGTGCTTTGAGGAATTGACAGATTACCAGTTGGTCTCCCCTGCCAAGAATCCCTCCAGT
CTCTTCTCAAAGGAAGCACCCAAGAGAAAGGCACAAGCTGTTTCAGAAGAAGAGGAGGAGGAGGAGGGAAAAGTCT
AGCTCACCAAAGAAAAAGATCAAGTTGAAGAAAAGTAAAAATGTAGCAACTGAAGGAACCAGTACCCAGAAAAGAA
TTTGAAGTGAAAGATCCTGAGCTGGAGGCCCAGGGAGATGACATGGTTTGTGATGATCCGGAGGCTGGGGAGATG
ACATCAGAAAACCTGGTCCAAAAGTCTCCAAAAAAGAAGAAAAATAAAGGGAAAAAAGGGTTGGAGCCTTCTCAG
AGCACTGCTGCCAAGGTGCCCAAAAAAGCGAAGACATGGATTCTGAAGTTCATGATCAGAAAGCAGATGTGTCA
GCTTGAAGGACCTGTTTGTTCAGGCCGTTCTCCGAGCACTCAGCTTTCTAGGCTTCTCTGCACCCACACCA
ATCCAAGCCCTGACCTTGGCACCTGCCATCCGTGACAACTGGACATCCTTGGGGCTGCTGAGACAGGAAGTGGG
AAAAGTCTTGCCTTTGCCATCCCAATGATTATGCGGTGTTGCAGTGGCAGAAGAGGAATGCTGCCCCCTCCTCCA
AGTAACACCGAAGCACCACCTGGAGAGACCAGAACTGAGGCCGGAGCTGAGACTAGATCACCAGGCAAGGCTGAA
GCTGAGTCTGATGCATTGCCGTGACGATACTGTAATTGAGAGTGAAGCACTGCCAGTGATATTGCAGCCGAGGCC
AGAGCCAAGACTGGAGGCACTGTCTCAGACCAGGCGTTGCTCTTTGGTGACGATGATGCTGGTGAAGGGCCTTCT
TCCCTGATCAGGGAGAAAACCTGTTCCCAAACAGAATGAGAATGAGGAGGAAAATCTTGATAAAGAGCAGACTGGA
AATCTAAAACAGGAGTTGGATGACAAAAGCGCCACCTGTAAGGCATATCCAAAGCGTCCTCTGCTTGGACTGGTT
CTGACTCCCACTCGAGAGCTGGCCGTCCAGGTCAAACAGCACATTGATGCTGTGGCCAGGTTTACAGGAATTAA
ACTGCTATTTTGGTTGGTGAATGTCCACGCAGAAACAGCAGAGGATGCTGAACCGTCGTCCTGAGATTGTGGTT
GCTACTCCAGGCCGGCTGTGGGAATTAATTAAGAAAAGCATTATCATTTGAGGAACCTTCGGCAGCTCAGGTGC
CTGGTAGTGGATGAGGCTGACCGGATGGTTGAGAAAGGCCATTTTGTGAGCTCTCACAGCTGCTAGAGATGCTC
AATGACTCCCAATACAACCCAAAGAGACAAACGCTTGTTTTTTCTGCCACACTCACCTTGGTGCATCAGGCTCCT
GCTCGAATCCTTCATAAGAAGCACACCAAGAAAATGGATAAAACAGCCAAAAGTGGACCTCCTTATGCAGAAAATT
GGCATGAGGGGCAAGCCCAAGGTCAATTGACCTCACAAGGAATGAGGCCACGGTGGAGACGCTAACAGAGACCAAG
ATCCATTGTGAGACTGATGAGAAAAGACTTCTACTTGTACTACTTCTGATGCAGTATCCAGGCCGCAGCTTAGTG
TTTGCCAACAGTATCTCCTGCATCAAAACGCCTCTCTGGGCTCCTCAAAGTCCTTGATATCATGCCCTTGACCCTG
CATGCCCTGTATGCACCAGAAGCAGAGGCTCAGAAACCTGGAGCAGTTTGCCCGTCTGGAAGACTGTGTTCTCTTG
GCAACAGATGTGGCAGCTCGGGGTCTGGATATTCCTAAAGTCCAGCATGTATCCATTACCAGGTCCCACGTACC
TCGGAGATTTATGTCCACCGAAGTGGTCAACTGCTCGAGCTACCAATGAAGGCCCTCAGTCTGATGCTCATTGGG
CCTGAGGATGTGATCAACTTTAAGAAGATTTACAAAACGCTCAAGAAAGATGAGGATATCCCACTGTTCCCCGTG
CAGACAAAATACATGGATGTGGTCAAGGAGCGAATCCGTTTAGCTCGACAGATTGAGAAATCTGAGTATCGGAAC
TTCCAGGCTTGCCTGCACAACCTCTTGGATTGAGCAGGCAGCAGCTGCCCTGGAGATTGAGCTGGAAGAAGACATG
TATAAGGGAGGAAAAGCTGACCAGCAAGAAGAACGTCGGAGACAAAAGCAGATGAAGGTTCTGAAGAAGGAGCTG
CGCCACCTGCTGTCCCAGCCACTGTTTACGGAGAGCCAGAAAACCAAGTATCCCACTCAGTCTGGCAAGCCGCCC
CTGCTTGTGTCTGCCCCAAGTAAGAGCGAGTCTGCTTTGAGCTGTCTCTCCAAGCAGAAGAAGAAGAAGACAAAG
AAGCCGAAGGAGCCACAGCCGGAACAGCCACAGCCAAGTACAAGTGCAAATTAACTGGTCAAGTGTGTCAGTGAC
TGCACATTGGTTTCTGTTCTCTGGCTATTTGCAAAACCTCTCCACCTTGTGTTTCACTCCACCACCAACCCCA
GGTAAAAAAGTCTCCCTCTCTTCCACTCACACCCATAGCGGGAGAGACCTCATGCAGATTGCAATTGTTTGGAG
TAAGAATTCAATGCAGCAGCTTAATTTTTCTGTATTGCAGTGTATAGGCTTCTTGTGTGTTAACTTGATTTC
ATAAATTAAAAACAATGGTCAGAAAAAAGAAAAAAGAAAAA

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FIGURE 4070

MKLKDTKSRPKQSSCGKFQTKGIKVVGKWKEVKIDPNMFADGQMDDLVCFEELTDYQLVSPAKNPSSLFSKEAPK
RKAQAVSEEEEEEGKSSSPKKKIKLKSKNVATEGTSTQKEFEVKDPELEAQGDDMVCDDPEAGEMTSENLVQT
APKKKKKNGKKGLEPSQSTAACKVPKKAKTWIEVHDQKADVSAWKDLFVPRPVLRLALSFLGFSAPTPIQALT LAP
AIRDKLDILGAAETGSGKTLAFAIPMIHAVLQWQKRNAAPPPSNT EAPPGETRTEAGAETRSPGKAEAESDALPD
DTVIESEALPSDIAAEARAKTGGTVSDQALLFGDDDAGEGPSSLIREKPVPKQNEENEEENLDKEQTGNLQELDD
KSATCKAYPKRPLLGLVLTPTRELAVQVKQHIDAVARFTGIKTAILVGGMSTQKQQRMLNRRPEIVVATPGRLWE
LIKEKHYYHLRNLRQLRCLVVDEADRMVEKGFHFAELSQLEMLNDSQYNPKRQTLVFSATLTLVHQAPARILHKKH
TKKMDKTAKLDLLMQIGMRGKPKVIDLTRNEATVETLTETKIH CETDEKDFYLYYFLMQYPGRSLVFANSISCI
KRLSGLLKVLDIMPLTLHACMHQKQRLRNLEQFARLEDCVLLATDVAARGLDIPKVQHVHYQVPRTSEIYVHRS
GRTARATNEGLSIMLIGPEDVINFKKIYKTLKKDEDIPLFPVQTKYMDVVKERIRLARQIEKSEYRNFAQCLHNS
WIEQAAAALEIELEEDMYKGGKADQQEERRRQKQMKVLKKELRHLLSQPLFTESQKTKYPTQSGKPPLLV SAPSK
SESALSCLSKQKKKTKKPKPEQPEQPQPSAN

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FIGURE 4071

GCTGAAGTTGAGGATCTCTTACTCTCTAGGCCACGGAATTAACCCGAGCAGGCATGGAGGCCTCTGCTCTCACCT
CATCAGCAGTGACCAGTGTGGCCAAAGTGGTCAGGGTGGCCTCTGGCTCTGCCGTAGTTTTGCCCCCTGGCCAGGA
TTGCTACAGTTGTGATTGGAGGAGXXXXXXXXXXXXXXXXCTGTGCCCATGGTGCTCAGTGCCATGGGCTTCACTG
CGGCGGGAATCGCCTCGTCCATAGCAGCCAAGATGATGTCCGCGGCGGCCATTGCCAATGGGGGTGGAGTTG
CCTCGGGCAGCCTTGTGGCTACTCTGCAGTCACTGGGAGCAACTGGACTCTCCGGATTGACCAAGTTCATCCTGG
GCTCCATTGGGTCTGCCATTGCGGCTGTCATTGCGAGGTTCTACTAGCTCCCTGCCCCCTCGCCCTGCAGAGAAGA
GAACCATGCCAGGGGAGAAGGCACCCAGCCATCCTGACCCAGCGAGGAGCCAACTATCCCAAATATACCTGGGGT
GAAATATACCAAATTCTGCATCTCCAGAGGAAAATAAGAAATAAAGATGAATTGTTGCAACTCTT

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FIGURE 4072

ACTGTACACATGCTAGGGTCCAGGACAGCAGGACCAAGCCAGCAGAAACAGCCTGAGCCCACCGCAGACTGGCCT
GGCTATACTGGACAATGCCACTCCTCCTGTACACCTGTCTTCTCTGGCTGCCCACCAGCGGCCTCTGGACCGTCC
AGGCCATGGATCCTAACGCTGCTTATGTGAACATGAGTAACCATCACCGGGGCCTGGCTTCAGCCAACGTTGACT
TTGCCTTCAGCCTGTATAAGCACCTAGTGGCCTTGAGTCCCCAAAAGAACATTTTCATCTCCCCTGTGAGCATCT
CCATGGCCTTAGCTATGCTGTCCCTGGGCACCTGTGGCCACACACGGGCCAGCTTCTCCAGGGCCTGGGTTTCA
ACCTCACTGAGAGGTCTGAGACTGAGATCCACCAGGGTTTCCAGCACCTGCACCAACTCTTTGCAAAGTCAGACA
CCAGCTTAGAAATGACCATGGGCAATGCCTTGTTTTCTTGATGGCAGCCTGGAGTTGCTGGAGTCATTCTCAGCAG
ACATCAAGCACTACTATGAGTCAGAGGTCTTGGCTATGAATTTCCAGGACTGGGCAACAGCCAGCAGACAGATCA
ACAGCTATGTCAAGAATAAGACACAGGGGAAAATTGTGCGACTTGTTTTTCAGGGCTGGATAGCCCAGCCATCCTCG
TCCTGGTCAACTATATCTTCTTCAAAGGCACATGGACACAGCCCTTTGACCTGGCAAGCACCAGGGAGGAGAACT
TCTATGTGGACGAGACAACTGTGGTGAAGGTGCCCATGATGTTGCAGTCGAGCACCATCAGTTACCTTCATGACT
CGGAGCTCCCCTGCCAGCTGGTGCAGATGAACTACGTGGGCAATGGGACTGTCTTCTTCATCCTTCCGGACAAGG
GGAAGATGAACACAGTCATCGCTGCACTGAGCCGGGACACGATTAACAGGTGGTCCGCAGGCCTGACCAGCAGCC
AGGTGGACCTGTACATTCCAAAGGTCACCATCTCTGGAGTCTATGACCTCGGAGATGTGCTGGAGGAAATGGGCA
TTGCAGACTTGTTTCACCAACCAGGCAAATTTCTCACGCATCACCCAGGACGCCAGCTGAAGTCATCAAAGGTGG
TCCATAAAGCTGTGCTGCAACTCAATGAGGAGGGTGTGGACACAGCTGGCTCCACTGGGGTCACCCTAAACCTGA
CGTCCAAGCCTATCATCTTGCGTTTCAACCAGCCCTTCATCATCATGATCTTCGACCACTTCACCTGGAGCAGCC
TTTTCTGGCGAGGGTTATGAACCCAGTGTAAGAGACCACCCACCCAGAGCCTCAGCACTGTCTGACTTTGGGAA
CCAGGGATCCACAGAAATGTTTTGGAGAGCGGGAGGTTCCCCCAATCTCCTCCAAGTTCTTCTCCCTCCAACC
AGAGTTGTGTCTAACTTTAGGCATCTTTTAATAAATGTCATTGCGACTCTG

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FIGURE 4073

GACAATGCCGTCTTCTGTCTCGTGGGGCATCCTCCTGCTGGCAGGCCTGTGCTGCCTGGTCCCTGTCTCCCTGGC
TGAGGATCCCCAGGGAGATGCTGCCCAGAAGACAGATACATCCCACCATGATCAGGATCACCCAACCTTCAACAA
GATCACCCCCAACCTGGCTGAGTTCGCCTTCAGCCTATACCGCCAGCTGGCACACCAGTCCAACAGCACCAATAT
CTTCTTCTCCCCAGTGAGCATCGCTACAGCCTTTGCAATGCTCTCCCTGGGGACCAAGGCTGACACTCACGATGA
AATCCTGGAGGGCCTGAATTTCAACCTCACGGAGATTCCGGAGGCTCAGATCCATGAAGGCTTCCAGGAACCTCT
CCGTACCCTCAACCAGCCAGACAGCCAGCTCCAGCTGACCACCGGCAATGGCCTGTTCCCTCAGCGAGGGCCTGAA
GCTAGTGGATAAGTTTTTGGAGGATGTTAAAAAGTTGTACCACTCAGAAAGCCTTCACTGTCAACTTCGGGGACAC
CGAAGAGGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACTCAAGGGAAAATTGTGGATTTGGTCAAGGA
GCTTGACAGAGACACAGTTTTTGTCTCTGGTGAATTACATCTTCTTTAAAGGCAAATGGGAGAGACCCTTTGAAGT
CAAGGACACCGAGGAAGAGGACTTCCACGTGGACCAGGCGACCACCGTGAAGGTGCCTATGATGAAGCGTTTAGG
CATGTTTAACATCCAGCACTGTAAGAAGCTGTCCAGCTGGGTGCTGCTGATGAAATACCTGGGCAATGCCACCGC
CATCTTCTTCCCTGCCTGATGAGGGGAAACTACAGCACCTGGAAAATGAACTCACCCACGATATCATACCAAGTT
CCTGGAAAATGAAGACAGAAGGTCTGCCAGCTTACATTTACCCAAACTGTCCATTACTGGAACCTATGATCTGAA
GAGCGTCCTGGGTCAACTGGGCATCACTAAGGTCTTCAGCAATGGGGCTGACCTCTCCGGGGTCACAGAGGAGGC
ACCCCTGAAGCTCTCCAAGGCCGTGCATAAGGCTGTGCTGACCATCGACGAGAAAGGGACTGAAGCTGCTGGGGC
CATGTTTTTAGAGGCCATACCCATGTCTATCCCCCAGAGTCAAGTTCAACAAACCCTTTGTCTTCTTAATGAT
TGAACAAAATACCAAGTCTCCCCTCTTCATGGGAAAAGTGGTGAATCCCACCCAAAAATAACTGCCTCTCGCTCC
TCAACCCCTCCCCTCCATCCCTGGCCCCCTCCCTGGATGACATTAAAGAAGGGTTGAGCTGG

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FIGURE 4074

AGAACAAAGAACAGCCACCATGCAGCTCTTCCTCCTCTTGTGCCTGGTGCTTCTCAGCCCTCAGGGGGCCTCCCT
TCACCGCCACCACCCCCGGGAGATGAAGAAGAGAGTCGAGGACCTCCATGTAGGTGCCACGGTGGCCCCCAGCAG
CAGAAGGGACTTTACCTTTGACCTCTACAGGGCCTTGGCTTCCGCTGCCCCCAGCCAGAGCATCTTCTTCTCCCC
TGTGAGCATCTCCATGAGCCTGGCCATGCTCTCCCTGGGGGCTGGGTCCAGCACAAAGATGCAGATCCTGGAGGG
CCTGGGCCTCAACCTCCAGAAAAGCTCAGAGAAGGAGCTGCACAGAGGCTTTCAGCAGCTCCTTCAGGAACTCAA
CCAGCCCAGAGATGGCTTCCAGCTGAGCCTCGGCAATGCCCTTTTCACCGACCTGGTGGTAGACCTGCAGGACAC
CTTCGTAAGTGCCATGAAGACGCTGTACCTGGCAGACACTTTCCCTACCAACTTTAGGGACTCTGCAGGGGCCAT
GAAGCAGATCAATGATTATGTGGCAAAGCAAACGAAGGGCAAGATTGTGGACTTGCTTAAGAACCTCGATAGCAA
TGCGGTCTGTGATCATGGTGAATTACATCTTCTTTAAAGCTAAGTGGGAGACAAGCTTCAACCACAAAGGCACCCA
AGAGCAAGACTTCTACGTGACCTCGGAGACTGTGGTGCGGGTACCCATGATGAGCCGCGAGGATCAGTATCACTA
CCTCCTGGACCGGAACCTCTCCTGCAGGGTGGTGGGGGTCCCCTACCAAGGCAATGCCACGGCTTTGTTCAATTCT
CCCCAGTGAGGGAAAGATGCAGCAGGTGGAGAATGGACTGAGTGAGAAAACGCTGAGGAAGTGGCTTAAGATGTT
CAAAAAGAGGCAGCTCGAGCTTTACCTTCCCAAATTCTCCATTGAGGGCTCCTATCAGCTGGAGAAAGTCTTCCC
CAGTCTGGGGATCAGTAACGTCTTCACCTCCCATGCTGATCTGTCCGGCATCAGCAACCACTCAAATATCCAGGT
GTCTGAGATGGTGCACAAAGCTGTGGTGGAGGTGGACGAGTCGGGAACCAGAGCAGCGGCAGCCACGGGGACAAT
ATTCACTTTTCAGGTGGCCCCGCCTGAACTCTCAGAGGCTAGTGTTCAACAGGCCCTTTCTGATGTTCAATTGTGGA
TAACAACATCCTCTTCCTTGGCAAAGTGAACCGCCCCTGA

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FIGURE 4075

CAGAGTTGAGA**ATG**GAGAGAATGTTACCTCTCCTGGCTCTGGGGCTCTTGGCGGCTGGGTTCTGCCCTGCTGTCC
TCTGCCACCCTAACAGCCCCTTGACGAGGAGAATCTGACCCAGGAGAACCAAGACCGAGGGACACACGTGGACC
TCGGATTAGCCTCCGCCAACGTGGACTTCGCTTTCAGCCTGTACAAGCAGTTAGTCCTGAAGGCCCTGATAAGA
ATGTCATCTTCTCCCCACTGAGCATCTCCACCGCCTTGGCCTTCTGTCTCTGGGGGCCATAATACCACCCCTGA
CAGAGATTCTCAAAGGCCTCAAGTTCAACCTCACGGAGACTTCTGAGGCAGAAATTCACCAGAGCTTCCAGCACC
TCCTGCGCACCCCTCAATCAGTCCAGCGATGAGCTGCAGCTGAGTATGGGAAATGCCATGTTTGTCAAAGAGCAAC
TCAGTCTGCTGGACAGGTTACCGGAGGATGCCAAGAGGCTGTATGGCTCCGAGGCCTTTGCCACTGACTTTCAGG
ACTCAGCTGCAGCTAAGAAGCTCATCAACGACTACGTGAAGAATGGAAC TAGGGGGAAAATCACAGATCTGATCA
AGGACCTTGACTCGCAGACAATGATGGTCCTGGTGAATTACATCTTCTTTAAAGCCAAATGGGAGATGCCCTTTG
ACCCCCAAGATACTCATCAGTCAAGGTTCTACTTGAGCAAGAAAAAGTGGGTAATGGTGCCCATGATGAGTTTGC
ATCACCTGACTATACCTTACTTCCGGGACGAGGAGCTGTCTGCACCGTGGTGGAGCTGAAGTACACAGGCAATG
CCAGCGCACTCTTCATCTCCCTGATCAAGACAAGATGGAGGAAGTGAAGCCATGCTGCTCCAGAGACCCTGA
AGCGGTGGAGAGACTCTCTGGAGTTCAGAGAGATAGGTGAGCTCTACCTGCCAAAGTTTTCCATCTCGAGGGACT
ATAACCTGAACGACATACTTCTCCAGCTGGGCATTGAGGAAGCCTTCACCAGCAAGGCTGACCTGTCAGGGATCA
CAGGGGCCAGGAACCTAGCAGTCTCCAGGTGGTCCATAAGGCTGTGCTTGATGTATTTGAGGAGGGGCACAGAAG
CATCTGCTGCCACAGCAGTCAAAATCACCTCCTTTCTGCATTAGTGGAGACAAGGACCATTGTGCGTTTCAACA
GGCCCTTCCTGATGATCATTGTCCCTACAGACACCCAGAACATCTTCTTCATGAGCAAAGTCACCAATCCCAAGC
AAGCC**TAG**AGCTTGCCATCAAGCAGTGGGGCTCTCAGTAAGGAAC TTGGAATGCAAGCTGGATGCCTGGGTCTCT
GGGCACAGCCTGGCCCCCTGTGCACCGAGTGGCCATGGCATGTGTGGCCCTGTCTGCTTATCCTTGGAAGGTGACA
GCGATTCCCTGTGTAGCTCTCACATGCACAGGGGCCCATGGACTCTTCAGTCTGGAGGGTCCTGGGCCTCCTGAC
AGCAATAAATAATTTTCGTTGG

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FIGURE 4076

MERMLPLLALGLLAAGFCPAVLCHPNSPLDEENLTQENQDRGTHVDLGLASANVDFAFSLYKQLVLKAPDKNVIF
SPLSISTALAFSLGAHNTTLTEILKGLKFNLTTETSEAEIHQS FQHLLRTL NQSSDELQLSMGNAMFVKEQLSLL
DRFTEDAKRLYGSEAFATDFQDSAAAKKLINDYVKNGTRGKITDLIKDLDSQTMMLVNYIFFKAKWEMPFPDQD
THQSRFYLSKKKWVMVPMSLHHLTIPYFRDEELSCTVVELKYTGNASALFILPDQDKMEEVEAMLLPETLKRWR
DSLEFREIGELYLPKFSISR DYNLNDILLQLGIEEAFTSKADLSGITGARNLAVSQVVHKAVLDVFEEGTEASAA
TAVKITLLSALVETRITIVRFNRPF LMIIVPTDTQNIFFMSKVTNPKQA

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FIGURE 4077

TTTCCGCGCTACCTACAGAGGGGTCCATACAGCGTCGTTCTGGATTCCCGTCGTAACCTTAAAGGGAACTTTTCAC
AAATGTCTGGAGCGCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCTAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTATTGCTATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGAAGCCACTCCAATTGC
TGGTCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGACTTCTGGGAGCCAAGGCTTCTTGTTGGTTAC
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCCATTCCATGCAACAACCAGGGAGCTCGCTCAGTGGGTTTGATGTG
GTGGACGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCTCGTGAACACCTATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTACTGAAAAGGCAGTGACCAAGGA
GGAATTTCAAGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTAAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTCACTAGTTCCCTACTGAAGACAGGAGTGCTCAGCCTGCCATGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAACACGGAAAAATGATTGGCGGAAAATAAACATCAGTTTCT

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FIGURE 4078

MSGALDVLQMKEEDVLKFLVAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAI IAIENPADVS
VISSRNTGQRAVLKFAAATEATPIAGHFTPGTFTNQIQADFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLRYVDIAIFCENNQGARSVGLMWWTLAREVLRMRGTISREHLWEVMPDLYFYRDPEEIEKEEQAAATEKAVTKE
EFQGEWTAPAPEFTATKPEVADWSEGVQVPSVPIQSSLLKTGVLSLPWKTGLQLPLLRPLNGVGATTDWS

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FIGURE 4079

CTTGAGAGGCTCTGGCTCTTGCTTCTTAGGCGGCCCCGAGGACGCCATGGCCGAGTGCCCGACACTCGGGGAGGCA
GTCACCGACCACCCGACCGCCTGTGGGCCTGGGAGAAGTTCGTGTATTTGGACGAGAAGCAGCACGCCTGGCTG
CCCTTAACCATCGAGATAAAGGATAGGTTACAGTTACGGGTGCTCTTGCGTCGGGAAGACGTCGTCTGGGGAGG
CCTATGACCCCCACCCAGATAGGCCCAAGCCTGCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATAACCGA
TCCTCAGACTCCAGTTTCTGGCGCTTAGTGTACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTG
CTGCCAGATGACTGATGTATGGTCTTGGCAGCACCTGTCTCCTTTACCCCCAGGGCCTGAGCCTGGCCAGCCTAC
AATGGGGATGTTGTGTTTCTGTTCACCTTCGTTTACTATGCCTGTGTCTTCTCCACCACGCTGGGGTCTGGGAGG
AATGGACAGACAGAGGATGAGCTCTACCCAGGGCCTGCAGGACCTGCCTGTAGCCCACTCTGCTCGCCTTAGCAC
TACCACTCCTGCCAAGGAGGATTCCATTTGGCAGAGCTTCTTCCAGGTGCCAGCTATACCTGTGCCTCGGCTTT
TCTCAGCTGGATGATGGTCTTCAGCCTCTTTCTGTCCCTTCTGTCCCTCACAGCACTAGTATTTTCATGTTGCACA
CCCACTCAGCTCCGTGAACCTTGTGAGAACACAGCCGATTACCTGAGCAGGACCTCTGAAACCCTGGACCAGTGG
TCTCACATGGTGCTACGCCTGCATGTAAACACGCCTGCAAACGCTGCCTGCCGGTAAACACGCCTGCAAACGCTG
CCTGCCCCGTAAACACGCCTGCAAACGCTGCCTGCCACACAGGTTACGTGCAGCTCAAGGAAAGGCCTGAAAGG
AGCCCTTATCTGTGCTCAGGACTCAGAAGCCTCTGGGTGAGTGGTCCACATCCCGGGACGCAGCAGGAGGCCAGG
CCGGCGAGCCCTGTGGATGAGCCCTCAGAACCCTTGGCTTGCCACGTGAAAAGGGATAGAGGTTGGGTTTCCC
CCCTTTATAGATGGTCACGCACCTGGGTGTTACAAAGTTGTATGTGGCATGAATACTTTTTGTAATGATTGATTA
AATGCAAGATAGTTTATCTAACTTCGTGCGCAATCAGCTTCTATCCTTGACTTAGATTCTGGTGGAGAGAAGTGA
GAATAGGCAGCCCCCAATAAAAAATATTCATGGAAAAAAAAAAAAAAAAA

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FIGURE 4080

MAECPTLGEAVTDHPDRLWAWKEFVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGRPMTPTQIGPSLLPIM
WQLYPDGRYRSDSSFWRLVYHIKIDGVEDMLELLPDD

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FIGURE 4081

TGAAAATGCCTCGTGTAAGCAGCTCAAGCTGGAAGACAGAGCTCTGCAAAGAGACATCTTGCAGAACAAATTTG
CAGTTGGAGAGATAATAACTGACATGGCAAAAAAGGAATGGAAAGTAGGATTACCCATTGGCCAAGGAGGCTTTG
GCTGTATATATCTTGCTGATATGAATTCCTCAGAGTCAGTTGGCAGTGATGCACCTTGTGTTGTAAAAAGTGGAAC
CCAGTGACAAATGGACCTCTTTTTACTGAATTAAAGTTCTACCAACGAGCTGCAAAACCAGAGCAAAATTCAGAAAT
GGATTGCTACCCGTAAGCTGAAGTACCTGGGTGTTCTTAAGTATTGGGGGTCTGGTCTACATGACAAAAATGGAA
AAAGTTACAGGTTTATGATAATGGATCGCTTTGGGAGTGACCTTCAGAAAATATATGAAGCAAAATGCCAAAAGGT
TTTCTCGGAAAACTGTCTTGACAGCTAAGCTTAAAGAATTCTGGATATTCTGGAATATATTCACGAGCATGAGTATG
TGCATGGAGATATCAAGGCCTCAAATCTTCTTCTGAACTACAAGAATCCTGACCAGGTGTACTTGGTAGATTATG
GCCTTGCTTATCGGTACTGCCCAGAAGGAGTTTCATAAAGAATACAAAGAAGACCCCAAAAGATGTCACGATGGCA
CTATTGAATTCACGAGCATCGATGCACACAATGGCGTGGCCCCATCAAGACGTGGTGATTTGGAAATACTTGGTT
ATTGCGATGATCCAATGGCTTACTGGCCATCTTCCTTGGGAGGATAATTTGAAAGATCCTAAATATGTTAGAGATT
CCAAAATTAGATACAGAGAAAATATTGCAAGTTTGATGGACAAATGTTTTCTGAGAAAAACAAACCAGGTGAAA
TTGCCAAATACATGGAACAGTGAAATTACTAGACTACACTGAAAAACCTCTTTATGAAAATTTACGTGACATTC
TTTTGCAAGGACTAAAAGCTATAGGAAGTAAGGATGATGGCAAATGGACCTCAGTGTTGTGGAGAATGGAGGTT
TGAAAGCAAAAACAATAACAAAGAAGCGAAAGAAAGAAATTGAAGAAAGCAAGGAACCTGGTGTTGAAGATACGG
AATGGTCAAACACACAGACAGAGGAGGCCATACAGACCCGTTCAAGAACCAGAAAGAGAGTCCAGAAGTAATTCA
GATGCTGTGAACCAGATTTCTTTTTCTTTGTTTTCTTTTGACTTTTTCTCCTTTTCTATTTGAACTGTTTTATT
TTCCTGTGAGTCTTGCGAGGTGGAAGTAATGATTAAATACTCATGTGTTTCAGAAAACATAAACTTTTTTTATAAA
AATATTTTGTACAATTCATTAAAGGCTAATTTATGAAATTTGAAAATCTTCAGGTTATACTCCTTAAGTTATCCC
AAAGCCGTGTGTTTGTGATGTTTTGGAGTACATATATATGAAAATTATTATGACACGCACCTTTTCTAATCATTTGT
ACATTTCTCAGAGTGGAATAAAATGTTTGACAAAGTCCTCACTTTTAAGGAAATGCAAAGCTTAAAATAAAACTC
TCTTTTGTTTGATGCA

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FIGURE 4082

ATGCCTGCTGCTGCGCTTCCGAGGCAGGAAGCCGAGGGACCCATGTCTGGGAGCGGAGAACTTTCTGTGAGACAT
CACGCCATCAAATTCTCTGTGGCACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATC
TATAAGATTGGCCAGGGCTACCTTATCAAGGATGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTA
TCTGACAAGAGCATCAACCCCTCTGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTGTCATGCTGAAA
GGCTGTGTGGTGGGAACCAAGAAGCGGGTGCTCACCCCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGGCGGGCT
CTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAG
AAGAAAGCATTTCATGGGACCACTGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCTTAA

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FIGURE 4083

MPAAALPRQEAEGPMSGSGELSVRHHAIKFSVARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIKNNASTDYDL
SDKSINPLGGFVHYGEVTNDFVMLKGCVVGTKKRVLTLRKSLLVQTKRRALEKIDLKFIDTTSKFHGHRFQTMEE
KKAFMGPLKKDRIAKEEGA

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FIGURE 4084

CTATGATGATTTGTAGGGTGGCACCTTTTTATCCAAGTTACTAGCTACACATCAGTGTTTAAAGAGAAAAAAGTG
ACCTTTTCATTTTTTTTTTTCTTGAACTTGAGGAAACAAGATACATACTACTGATTTTTTTTTTTCTTAAACTAA
ATGCATGACTGCAGAGCGGTAGAGGTGTATATTTTTTCATACTGTGGGGCAAAGTATTTGTGCTGCTTTTTTGGAGA
TGGACTGGAACGTCTGGTTTCTGTCCCCGGGCCCCGGCAGCTACGTCTATTTTCTGTAGAAGGTGCCACAGTGAGA
CCTGGAGCCACCCCTTCTGCCCCTGGCGCCGTTTAGAGCTGGGAGCCCGTGGACTCCCGGCCTGTTTCTACCTTC
TATTCAACCACTCTGACGTGGGGAGACAAGAAGAAATAGAACTTTTTGATAGTGTGGTAAAAACATTGATTTGAA
CTATTTTAGTAAAAGGAGTAACAAACAAGATTGTGATAGTGTCTACTTTGAGCTAGATAAATAAAGGCCTCTTTG
TGAGCCTCCTGGCTGGGTGCTCAGTGCTTGTTTTCTGTCTGTTGGGTGGCAGGGTCAGCAGGCAGAGACAGGGCCAAG
GCCCCCTCAAGCACCGCAGATGCGGGGCTCAGTCGGGGCCCCCTTCCACAGACAGAGCCGTGGCCCCCTCAAGGTGGAC
AGTGAGGCCGCTGCTCCTCCAGCTGCCTCTGTCTCATCACAGGCCAGAAGTGGAAGGGTTTCAAATCCAAGCCC
CCGGGTTCTGTGTGCGTTTCTACGCAGCAAGGCTTCAAAGTTTCAAACCTGGTTTGGAACCTCAACCAGGTCCTCCA
AAGGAAACCAAGGCAGGCACAGGATGGGGGCAGGCTGGCTTGGCAGGCAGCTGTGCGGATCCACCCAGAGTGCCT
TGGGAGGCAGTGGGGTTGGCTGTGGCTGCTGTGAGCTGCAGCCAGGCCTCTCCCGCGTCCCCAGGGTCTGGAAGG
AGGGCCTCTGCACATTTTATAAGCCACAGACTGCGAAGGCCTGGAGCCCCACCTTCCACCCATAACAAAGAAAGG
GATAGTTTCAGAACTGCTTTTATTGGATAACTGACTGAAGGAGTCTCATTTGTAACCAAGATGGAATTCACAGT
ATGTTGTTACATTACACTTAAAAAATATATCTCTATGTACAGGAATTTGCAAAGAGATGTAAACATACATTAAT
TTCCAAGTACATTTCTCCCTTCTCCCTGGAGGAAAAAAAAAAGCCATCCAATGAGGCAACCCCTTCAAATAA
TTTTAATACAAAGGATGCAAACATCAAAAAAAAAAAAAA

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FIGURE 4085

MGAQSGPLPQTEFWPLKVDSEAAAPPAASVSSQARSGKGFKSKPPGSCVRSTQQGFKVSNWFGTQPGPPKETKAG
TGWGQAGLAGSCADPPRPWEAVGLAVAAVSCSQASPASPGSGRRASAHFISHRLRRPGAPPSTHNKERDSFRTA
FIWITD

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FIGURE 4086

GAAAGAAAGAGGGGAAGAGTATTAAAGACCATTCTTCTGGCTGGGCAGGGCACTCTCAGCAGCTCAACTGCCCAGCG
TGACCAAGTGGCCACCTCTGCAGTGTCTTCCACAACCTGGTCTTGACTCGTCTGCTGAACAAATCCTCTGACCTCA
GGCCGGCTGTGAACGTAGTTCCCTGAGAGATAGCAAACATGCCCAACAGTGAGCCCGCATCTCTGCTGGAGCTGTT
CAACAGCATCGCCACACAAGGGGAGCTCGTAAGGTCCCTCAAAGCGGGGAAATGCGTCAAAGGATGAAATTGATTC
TGCAGTAAAGATGTTGGTGTCAATAAAAATGAGCTACAAAGCTGCCGCGGGGAGGATTACAAGGCTGACTGTCC
TCCAGGGAACCCAGCACCTACCAGTAATCATGGCCAGATGCCACAGAAGCTGAAGAGGATTTTGTGGACCCATG
GACAGTACAGACAAGCAGTGCAAAAGGCATAGACTACGATAAGCTCATTGTTTCGGTTTGAAGTAGTAAAAATTGA
CAAAGAGCTAATAAACCGAATAGAGAGAGCCACCGGCCAAAGACCACACCCTTCCTGCGCAGAGGCATCTTCTT
CTCACACAGAGATATGAATCAGGTTCTTGATGCCTATGAAAATAAGAAGCCATTTTATCTGTACACGGGCCGGG
CCCCTCTTCTGAAGCAATGCATGTAGGTACCTCATTCCATTTATTTTACAAAGTGGCTCCAGGATGTATTTAA
CGTGCCCTTGGTCATCCAGATGACGGATGACGAGAAGTATCTGTGGAAGGACCTGACCCTGGACCAGGCCTATAG
CTATGCTGTGGAGAATGCCAAGGACATCATCGCCTGTGGCTTTGACATCAACAAGACTTTTCATATTCTCTGACCT
GGACTACATGGGGATGAGCTCAGGTTTCTACAAAATGTGGTGAAGATTCAAAGCATGTTACCTTCAACCAAGT
GAAAGGCATTTTCGGCTTCACTGACAGCGACTGCATTGGGAAGATCAGTTTTCCTGCCATCCAGGCTGCTCCCTC
CTTCAGCAACTCATTCCCACAGATCTTCCGAGACAGGACGGATATCCAGTGCCTTATCCCATGTGCCATTGACCA
GGATCCTTACTTTAGAATGACAAGGGACGTGCCCCCAGGATCGGCTATCCTAAACCAGCCCTGCTGCACTCCAC
CTTCTTCCCAGCCCTGCAGGGCGCCCAGACCAAAATGAGTGCCAGCGACCCCAACTCCTCCATCTTCTCACCAG
CACGGCCAAGCAGATCAAAACCAAGGTCAATAAGCATGCGTTTTCTGGAGGGAGAGACACCATCGAGGAGCACAG
GCAGTTTGGGGGCAACTGTGATGTGGACGTGTCTTTCATGTACCTGACCTTCTTCCTCGAGGACGACGACAAGCT
CGAGCAGATCAGGAAGGATTACACCAGCGGAGCCATGCTCACCGGTGAGCTCAAGAAGGCACTCATAGAGTTCT
GCAGCCCTTGATCGCAGAGCACCAGGCCCGCGCAAGGAGGTACGGATGAGATAGTGAAGAGTTCATGACTCC
CCGGAAGCTGTCCTTCGACTTTCAGTAGCACTCGTTTTACATATGCTTATAAAAGAAAGTGATGTATCAGTAATGT
ATCAATAATCCCAGCCCAGTCAAAGCACCGCCACCTGTAGGCTTCTGTCTCATGGTAATTACTGGGCCTGGCCTC
TGTAAGCCTGTGTATGTTATCAATACTGTTTCTTCCTGTGAGTTCCATTATTTCTATCTCTTATGGGCAAAGCAT
TGTGGGTAATTGGTGTCTGGCTAACATTGCATGGTTCGGATAGAGAAGTCCAGCTGTGAGTCTCTCCCCAAAGCAGC
CCCACAGTGGAGCCTTTGGCTGGAAGTCCATGGGCCACCCTGTTCTTGTCCATGGAGGACTCCGAGGGTTCCAAG
TATACTCTTAAGACCCACTCTGTTTAAAAATATATATTCTATGTATGCGTATATGGAATTGAAATGTCATTATTG
TAACCTAGAAAGTGCTTTGAAATATTGATGTGGGGAGGTTTATTGAGCACAAAGATGTATTTTACGCCCATGCCCC
TCCAAAAAAGAAATTGATAAGTAAAGCTTCGTTATACATTGACTAAGAAATCACCCAGCTTTAAAGCTGCTTT
TAACAATGAAGATTGAACAGAGTTCAGCAATTTTGATTAAATTAAGACTTGGGGGTGAAACTTTCCAGTTTACTG
AACTCCAGACCATGCATGTAGTCCACTCCAGAAATCATGCTCGCTTCCCTTGGCACACCAGTGTTCCTGCCAA
ATGACCCTAGACCCTCTGTCTGTCAGAGTCAGGGTGGCTTTTCCCCTGACTGTGTCCGATGCCAAGGAGTCCTGG
CCTCCGCAGATGCTTCATTTTGACCTTGGCTGCAGTGGAAGTCAGCACAGAGCAGTGCCCTGGCTGTGTCCCTG
GACGGGTGGACTTAGCTAGGGAGAAAGTCGAGGCAGCAGCCCTCGAGGCCCTCACAGATGTCTAGGCAGGCCTCA
TTTCATCACGCAGCATGTGCAGGCCTGGAAGAGCAAAGCCAAATCTCAGGGAAGTCCTTGGTTGATGTATCTGGG
TCTCCTCTGGAGCACTCTGCCCTCCTGTACCCAGTAGAGTAAATAAACTTCCTTGGCTCCT

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FIGURE 4087

MPNSEPASLLELFNSIATQGELVRSKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPTSNHGP
DATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAY
ENKKPFYLYTGRGPSSEAMHVGHLPFFIFTKWLQDVFNVLVIQMTDDEKYLWKDLTLDQAYSAYAVENAKDI IAC
GFDINKTFIFSDLDYMGMSGIFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISFP AIQAAPSFSNSFPQIFRDR
TDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKPALLHSTFFPALQGAQTKMSASDPNSSIFLTDTAKQIKTKVKNKH
AFSGGRDTIEEHRQFGGNCDDVDVSFMYLTFFLEDDDKLEQIRKDYTSGAMLTGELKKALIEVLQPLIAEHQARRK
EVTDEIVKEFMTPRKLSFDFQ

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FIGURE 4088

GGCACGAGGGAGAGCGCAGCGCGCAGCCCGGTGCAGCCCTGGCTTTCCCCTCGCTGCGCGCCCGCGCCCCCTTTC
GCGTCCGCAACCAGAAGCCCAGTGCGGCGCCAGGAGCCGGACCCGCGCCCGCACCCTCCCGGGACCGCGACCCC
GGCCGCCCAGAGATGACCGCGACCGAAGCCCTCCTGCGCGTCTCTTGCTCCTGCTGGCTTTTCGGCCACAGCACC
TATGGGGCTGAATGCTTCCCGGCCTGCAACCCCCAAAATGGATTCTGCGAGGATGACAATGTTTGACAGGTGCCAG
CCTGGCTGGCAGGGTCCCCCTTTGTGACCAGTGCGTGACCTCTCCCGGCTGCCTTCACGGACTCTGTGGAGAACCC
GGGCAGTGCAATTTGCACCGACGGCTGGGACGGGGAGCTCTGTGATAGAGATGTTTCGGGCCTGCTCCTCGGCCCCC
TGTGCCAACAAACGGGACCTGCGTGAGCCTGGACGATGGCCTCTATGAATGCTCCTGTGCCCCCGGGTACTCGGGA
AAGGACTGCCAGAAAAAGGACGGGCCCTGTGTGATCAACGGCTCCCCCTGCCAGCACGGAGGCACCTGCGTGAT
GATGAGGGCCGGGCCTCCCATGCCTCCTGCCTGTGCCCCCTGGCTTCTCAGGCAATTTCTGCGAGATCGTGCC
AACAGCTGCACCCCCAACCCATGCGAGAACGACGGCGTCTGCACTGACATCGGGGGCGACTTCCGCTGCCGGTGC
CCAGCCGGCTTCATCGACAAGACCTGCAGCCGCCCGGTGACCAACTGCGCCAGCAGCCCGTGCCAGAACGGGGGC
ACCTGCCTGCAGCACACCCAGGTGAGCTACGAGTGTCTGTGCAAGCCCGAGTTCACAGGTCTCACCTGTGTCAAG
AAGCGCGCGCTGAGCCCCCAGCAGGTACCCGTCTGCCAACGGCTATGGGCTGGCCTACCGCCTGACCCCTGGG
GTGCACGAGCTGCCGGTGCAGCAGCCGGAGCACCGCATCCTGAAGGTGTCCATGAAAGAGCTCAACAAGAAAACC
CCTCTCCTCACCGAGGGCCAGGCCATCTGCTTACCATCCTGGGCGTGCTCACCAGCCTGGTGGTGTGGGCACT
GTGGGTATCGTCTTCTCAACAAGTGCGAGACCTGGGTGTCCAACCTGCGCTACAACCACATGCTGCGGAAGAAG
AAGAACCTGCTGCTTCAGTACAACAGCGGGGAGGACCTGGCCGTCAACATCATCTTCCCCGAGAAGATCGACATG
ACCACCTTCAGCAAGGAGGCCGGCGACGAGGAGATCTAAGACGCGTTCCACAGCCCCCTCTAGATTCTTGAGT
TCCTCAGAGCTTACTATACGCGGTCTGTCTTAATCTTTGTGGTGTTCGCTATCTCTTGTGTCAAATCTGGTGAAC
GCTACGCTTACATATATTGTCTTTGTGCTGCTGTGTGACAAACGCAATGCAAAAAACAATCCTCTTTCTCTCTCTT
AATGCATGATACAGAATAATAATAAGAATTTTCATCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4089

MTATEALLRVLLLLLAFGHSTYGAECFPACNPQNGFCEDDNVCRCQPGWQGPLCDQCVTSPGCLHGLCGEPGQCI
CTDGDGELCDRDVRACSSAPCANNGTCVSLDDGLYECSCAPGYSGKDCQKKDGPCVINGSPCQHGGTCVDDEGR
ASHASCLCPPGFGSGNFCEIVANSCTPNPCENDGVCTDIGGDFRCRCPAGFIDKTCSRPTNCASSPCQNGGTCLQ
HTQVSYECLCKPEFTGLTCVKKRALSPQQVTRLPNGYGLAYRLTPGVHELPVQQPEHRILKVSMKELNKKTPLLT
EGQAICFTILGVLTSLVVLGTVGIVFLNKCETWVSNLRYNHMLRKKKNLLLQYNSGEDLAVNIIFPEKIDMTTFS
KEAGDEEI

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FIGURE 4090A

CTGGTTTCTTGCCTTAAGGAGCCCATTTGCCTTTCCCGCTGAAGTCTAGATGTTGACATGTAATAAAGCGGGCAGC
AGGATGGTGGTGGATGCGGCCAACTCCAATGGGCCTTTCCAGCCCGTGGTCCTTCTCCATATTGAGATGTTCCCT
CCTGCTGATCAAGAGAAGCTTTTTATCCAGAAGTTACGTCAGTGTGCGTCCTCTTTGACTTTGTTTCTGATCCA
CTAAGTGACCTAAAGTGGAAGGAAGTAAACGAGCTGCTTTAAGTGAAATGGTAGAATATATCACCCATAATCGG
AATGTGATCACAGAGCCTATTTACCCAGAAGTAGTCCATATGTTTGCAGTTAACATGTTTTCGAACATTACCACCT
TCCTCCAATCCTACGGGAGCGGAATTTGACCCGGAGGAAGATGAACCAACGTTAGAAGCAGCCTGGCCTCATCTA
CAGCTTGTTTATGAATTTTTCTTAAGATTTTTAGAGTCTCCAGATTTCCAACCTAATATAGCGAAGAAATATATT
GATCAGAAGTTTGTATTGCAGCTTTTAGAGCTCTTTGACAGTGAAGATCCTCGGGAGAGAGATTTTCTTAAACCC
ACCCTTTCACAGAATCTATGGGAAATTCCTAGGCTTGAGAGCTTACATCAGAAAACAGATAAATAATATATTTTAT
AGGTTTATTTATGAAAACAGAGCATCATAATGGCATAGCAGAGTTACTGGAAATATTGGGAAGTATAATTAATGGA
TTTGCTTACCCTAAAGAGAGCACAAGATTTTCTTATTGAAGGTGTTACTACCTTTGCACAAAGTGAAATCT
CTGAGTGTCTACCATCCCCAGCTGGCATACTGTGTAGTGCAGTTTTTAGAAAAGGACAGCACCCCTCACGGAACCA
GTGGTGATGGCATTCTCAAATACTGGCCAAAGACTCACAGTCCAAAAGAAGTAATGTTCTTAAACGAATTAGAA
GAGATTTTAGATGTCAATTGAACCATCAGAATTTGTGAAGATCATGGAACCCCTCTTCCGGCAGTTGGCCAAATGT
GTCTCCAGCCACACTTCCAGGTGGCAGAGCGAGCTCTCTATTACTGGAATAATGAATACATCATGAGTTTAATC
AGTGACAACGCAGCGAAGATTCTGCCCATCATGTTTCTTCTTGTACCGCAACTCAAAGACCCATTGGAACAAG
ACAATACATGGCTTGATATACAACGCCCTGAAGCTCTTCATGGAGATGAACCAAAGCTATTTGATGACTGTACA
CAACAGTTCAAAGCAGAGAACTAAAAGAGAAGCTAAAATGAAAGAACGGGAAGAAGCATGGGTAAATAGAA
AATCTAGCCAAAGCCAATCCCCAGTACACAGTGTATAGTCAAGCCAGCACCATGAGCATTCCGGTTGCAATGGAG
ACAGATGGGCCTTTATTTGAAGATGTGCAGATGCTGAGAAAGACAGTGAAGGACGAGGCTCATCAGGCACAGAAA
GATCCGAAGAAGGACCGTCTCTTGCACGCCGAAGTCCGAGCTGCCTCAGGACCCCCACACCAAGAAAGCCTTG
GAAGCTCACTGCAGGGCCGATGAGCTGGCCTCCAGGACGGCCGCTAGCCTCCGGGGCGCCGCTCGGGGGCCGGG
CCCGCCAGTTCTTTTCCGGATTCTGTAGAAAATACATACTTCTGTGCCATACCAATCAGTTACACTCAAAGCTT
TCTTGACCCCGTTCGGTAGGCAATAACGTGCGTCCGCTCAGCGCGAGATTAGGAGTTCAAACAATGGTGACTT
CCCAGAGCCCGCTGGCAGAGCCGCGGGTTGACGACGGTGTCTCGCAGTGTGCGCCGCCACCCAGCGTAGTCCAA
GTCAGACTATTTACAAAGTCAGAGCGATAGGAAAGCACCCCTGCCCTTCATCTTCATGTTCTCCCAAATGGAAC
TAGGATCTTTTAAACATAGGTGGTTCTGTGATAACATCAGTGTTTTCCAAATCAAAGGAACGCTTTAAAAAATAGG
ACCTATTTTTTAAAGACTTTACAGCCTTTGAAATGGTTTCCACGTGATTGTTACGCCAGCAGTTCTCGTTTTGTTT
GTTTTTCAATCTCAGTGAAATGGCTCTTTGCTTTTCAGATTCTCACGCAACGTACTGGGCAAATGACAATCCTCAG
CCGCTGGTATTTTCTAAGGGGTCTCTTCACTTTGATGAGTGACATGAACACCGTGTCTCCTTCTCTTGTGTGTAC
CTAAAGCCATATTTCCAAGTCTGTGGTACTCCAGGATTCCAGGAGTAAGCCTGTAGAAGAGATTTATTTTAAAG
AGATTGCTCTGAAATTTATCTTAAAGAGCTTGCTCTGTCTACCTTGACAGAAATTGGAGTTTTAAATTATGTG
TTAATATTTTTATTTGCAGATTTTCGTTTCCGTCAACTTAAACATTGTTGCCCTTCAACAAGGCTCTTGAATTAAT
AAAATTATAGTCTCTAAGAATTCCACATTTTATGGAAAGTTAGAGCAAAATCATTTTGAGTTAAGCCAGTTCTTA
GCCTAATGCAAACCTGCAGCGCCTTTAAGCATAAAGTAACACAACAGCATTGCACGGGGCCGGCACTGCCGCTGCC
TTCAGTGAAGGCTGCAGTGTCTGTTCTGAGAGCTTGAGGAGGACACCAGCGAGGATGACGTTTAGTGGAGCTCTTT
CTGTTGAAAAGAGCTCACGTTATCAACACCTTGTAAGGAAAATACAGTGTCTGAGTTTTTCATCGGTCTTCACATG
CTGCTATATATTCCACAGAGTTCCCTTGCATGTACTGAGCTTTTGTTTTAGATGGAATAGCACAAGGAGAAAAATC
TTTAAACTTAGTGCTTTGTCTATTCTTTATTTCTCTCAGGTGGCCAGTATTTTGAATTTATCTCTGCTTGAA
AGCTACTTGAGATGTGTACTGCTATTCTAAACACGTGATCTAGTTTCTTTCATCTCTGGCATAAGATTATATAAC
TTAATGTTAAGTGTCTTGAGGCATAAAAGACAAAATGTGGCTTATTTTAGGATCTGTTTTTTCATCGAGGTCTCG
GGTATCCTTTCAAAGATAGTGAGAAGCAGACACTGCTCCTTGTGCAGCTCTGGTACCTCCTGCCCACTGCTGTCA
CTTCAAGCCACTGCAATGCTTCTGTCTCGTGTCTTGAGGAAAATCACCTGGGGGGAGGGGACTTCTTGTGGT
AAGAGCAAGTGCAGGTATGAAATGCGAAGATTGCCCCAGCTAAAAGTGGACAAGTCCGCTTTGTGAGATGAATAC
TTCTTGAGAACTTGACAAGTATCTCTCCATTTTACCATTATGAAAACATCATTAACAAAAAACAGTTTAGATGC
CTTCTCCTTTTGGAGGAAAAAGGTGCTTTTTATTGTATAAAGCAGCGTCTTATGTATTTTGTATATACCATGTT
TGAATTTCCGTCTTTAGCTGATAGATTCTCAAATATCCTTGATTTTGGATGTTTTCAGTATGTTTGTGAGAGAGTT
TCTGGGAAGACTCTCTTTTGGCCCTCGGGAAAAAGCAAAATATCAATGTTTGGGTGACTGTGTAAAGCTCAGTGT

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FIGURE 4090B

GTAAGAACATCTTTTTGTCTAGGTTTTCTTTCTGCTCTTTATTGAAGACAAACACTCACCAAAAAGAAAAATAAA
AGTTTTTCAGAGAACTAATTTCTTTGGCAAGAGTATTACTTAATATTTTGGCCTCCTAAAGTTTCCCTAGTTAG
TACTCGGACTCCTGTGCTAATTGTCAGCTTACATATCATTGTATAGAGACTGTTTATTCTGTACCAAACTGATTT
CAAAAGTACTACATTGAAAAATAAACCGGTGACTGTTTTTCTTCATAAAGTTCTGCGTTTGGCATCTTCACTCTTT
CCAAAATGTATCTGTACATCAGAAATGTCACTATTCCAAGTGTCTTTTGTAGTGTGGCTTTAGTATGGCTTCCTTT
TAATATTGTACATACATTGTATCTTTGTTTTATGGTAATAAGTAATAAAAAATGTAGACTTC

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FIGURE 4091

CTTTCCCGCTGAAGTCTAGATGTTGACATGTAATAAAGCGGGCAGCAGGATGGTGGTGGATGCGGCCAACTCCAA
TGGGCCTTTCCAGCCCGTGGTCCTTCTCCATATTCGAGTTGAGGCTGTGAAGCTGGGCAGGGTTTCAGCTGAGCT
GAGGTTGGAAGTCCCTGACCTTCAGCTGTGGCCGCCTACGGAGCAGCAGGGAGAGCAAACCCATGGAGAACCCCG
CGGCCCCCAAAGCATGGACGGAGCTGCCAGCCTTCTCCCCTGCCCTTCTTCTCTACTCCCGACCTGCCAGCCTT
CTCCCCTGCCCTTCTGCCTCTACTCCCGACCTGCCAACCTTAGCCTAAAATCAGAGCTGCTAGAATCACACACAC
TGTCGTAGCTGGTTTTGTATTGTAAATGAGTCATTCTGTTATTTTGGAACTTATGTCTCATGCCAGGATCTGCA
GATAGTTCTTTTTCAAAATATTGTTTAGACAAAATAAATTTCTTTAAATATAATATCTCTACTTTAAATGCCTGG
GGTGTGTCATGCATTTTTCTAGGCTAGCAAAGCTTAAAGATTATTTCTATAATTTTCAGTTACATTTACCTTTATA
GATGGGTTACTCTAAGTAACAAATTAAACACACATGGATCTTCTAACTTTGGCTTTAAATCCTAAGAAGAGATAG
GTAATATATAAAAGAGTATTAAAAAGAAATGGAGAGTAAAGGTATATGTCGGGCAGATGCAGTAGAAAAGCAAGG
GTCATGACGTCAATGCTGGGCAAAGCTAAATTGTGAAGACAAAACAATAATGAAACAGGGTTATTCATCACGCTA
AAGCGTACAGTCCATAGGATGATATAACTACCATGAATTTGGCCTAAATGATTGAACATTGAAACACATAAAGCG
AGAACTGTAGGGGATT

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FIGURE 4092

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACCTTAGCCAAGATGCTGAGGAAACQ
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTTCGCCCTTCAGGCAGAAATTGCCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCA
TTGGACAAAATCCGGTATGAAAGCTTGACAGATCCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTT
ATACCGAACAAACAAGATCGAACTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTCATGGAAGCTTTGTCAGGCTGGTGCAGATATCTCTATG
ATTGGCCAGTTCCGGTGTGGTGTGTTTATTCTGCTTATTTGGTTGCTGAGAAAAGTAACTGTGATCACCAAACATAAC
GATGATGAGCAGTACGCTTGGGAGTCCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAACCTGAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAGAGAGAAAGAGTCGGAAGACAAA
CCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAAGAAGAAGAAGAAGATT
AAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCACGACGTGCTCCTTTTGATCTGTTTGAAAACAGA
AAGAAAAAGAACAACATCAAATTGTATGTACGCAGAGTTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAACCTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAACTGGCGGAAGAT
AAAGAGAACTACAAGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGGAATACACGAAGACTCTCAAAAT
CGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTTCTCTCAAGGACTAC
TGCACCAGAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTCAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAA
GAAGAGAAAAAGAAGCAGGAAGAGAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTACAAGCACATATGGC
TGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACTCAACAATGGGTACATGGCAGCA
AAGAAACACCTGGAGATAAACCCCTGACCATTCCATTATTGAGACCTTAAGGCCAAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAACCTGAAGAAATGCCACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGACTAA

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FIGURE 4093

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLD SGKE
LHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITL FVEKE
RDKEVSDDEAEKEDKEEEEKEEKESEDKPEIEDVGSDEEEEKKDGDKKKKKKIKEKYIDQEELNKT KPIWTRN
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCE
ELIPEYLNFI RGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIH
EDSQNRKKLSELLRYYTSASGDEMVS LKDYCTRMKENQKHIYYITGETKDQVANS AFVERLRKHGLEVIYMI EPI
DEYCVQQLKEFEGKTLVSVTKEGLELPEDDEEKKKQEEKTKFENLCKIMKDILEKKVEKV VVSNRLVTSPCCIV
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSG
FSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPPLLEGDDDTSRMEEVD

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FIGURE 4094

GCGCGGTGGGCGTGATCCGGGCACTTAGGGCAGGATGAACGCTGCTTTCCAAGATGGCGACGGAGGGAGGAGGGA
AGGAGATGAACGAGATTAAGACCCAATTCACCACCCGGGAAGGTCTGTACAAGCTGCTGCCGCACTCGGAGTACA
GCCGGCCCAACCGGGTGCCCTTCAACTCGCAGGGATCCAACCCTGTCCGCGTCTCCTTCGTAAACCTCAACGACC
AGTCTGGCAACGGCGACCGCCTCTGCTTCAATGTGGGCCGGGAGCTGTACTTCTATATCTACAAGGGGGTCCGCA
AGGCTGCTGACTTGAGTAAACCAATAGATAAAAGGATATACAAAGGAACACAGCCTACTTGTCATGACTTCAACC
ACCTAACAGCCACAGCAGAAAGTGTCTCTCTCCTAGTGGGCTTTTCCGCAGGCCAAGTCCAGCTTATAGACCCAA
TCAAAAAGAACTAGCAAACCTTTTAAATGAGGAAAGACTAATAGACAAGTCACGAGTTACCTGTGTCAAATGGG
TTCCCGGTTTCGAAAGCCTTTTCCCTAGTAGCCCACTCGAGTGGGAACATGTACTTATATAATGTGGAGCACACTT
GTGGCACCACAGCCCCCACTACCAGCTTCTGAAGCAGGGAGAGAGCTTTGCCGTGCACACTTGCAAGAGCAAAT
CCACGAGGAACCTCTCCTTAAGTGGACGGTGGGCGAGGGGGCCCTCAACGAGTTTGCTTTCTCCCCAGATGGCA
AGTTCTTAGCGTGCCTGAGCCAGGACGGGTTTCTGCGGGTGTTCAACTTTGACTCAGTGGAGCTGCACGGTACGA
TGAAAAGCTACTTTGGGGGCTTGCTGTGTGTGTGTGTGGAGCCCGGATGGCAAGTACATCGTGACAGGTGGGGAGG
ACGACTTGGTGACAGTCTGGTCCTTTGTAGACTGCCGAGTAATAGCCAGAGGCCACGGGCACAAGTCTGGGTCA
GTGTTGTAGCGTTTGACCCCTTATACCACTAGTGTAGAAGAAGGTGACCCTATGGAGTTTAGTGGCAGCGATGAGG
ACTTCCAAGACCTTCTTCATTTTGGCAGAGATCGAGCAAATAGTACACAGTCCAGGCTCTCCAAACGGAACCTCTA
CAGACAGCCGCCCCGTAAGTGTACGTATCGGTTTGGTTCGGTGGGCCAGGACACACAGCTCTGTTTATGGGACC
TTACAGAAGATATCCTTTTCCCTCACCAACCCCTCTCAAGAGCAAGGACACACACAAATGTCATGAATGCCACGA
GTCTCTCTGCTGGAAGCAATGGGAACAGTGTTACAACACCCGGGAACCTCTGTGCCGCTCTCTGCCACGGTCCA
ACAGCCTTCCACATTACAGAGTCTCAAATGCTGGCAGCAAAAGCAGTGTATGGACGGGGCCATTGCTTCTGGGG
TCAGCAAAATTTGCAACACTTTCACTACATGACCGGAAGGAGAGGCACCACGAGAAAGATCACAAGCGAAATCATA
GCATGGGACACATTTCTAGCAAGAGCAGTGACAACTGAATCTAGTTACCAAAACCAAAACGGACCTGCTAAAA
CTCTGGGAACGCCCTGTGTCTCGAATGGAAGATGTTCCCTTGTTAGAGCCGCTGATATGTAAAAAGATAGCAC
ATGAGAGACTGACTGTACTAATATTTCTTGAAGACTGTATAGTCACTGCTTGTTCAGGAGGGATTTATTTGCACAT
GGGGAAGGCCTGGTAAAGTGGGCTCATTGTATCCCCAAGCCAGGCCAGTTCTCCAGGTGGAACGTAGTGTAGC
GACCTCACTGCTGCGCGCACAGTCTCCCGGCACTTGGACTCGAGGGAGTGACGAGGAGGAGCTCCGAGCTGCGCC
TGAGCCGTGCCAGCCGGCGGACCTCAGGCGGTGGACGTCGGCGATAGCCGTGTGGACGGTGACCGGCTCACTCTG
CGGCGCCGTGCTCCCGCTGCTCACCCAAAGAAGTTGTTTCCATTTTAAACCGGTCTTTTGGGGCTGCAGTAAAA
ATAAGAAATGGAGTTTTCTTGCTTTTTACTCTAAAATTCAATGTAATTAAATTTTATATATATATAATATATACA
TATATACATAGTGTAATAATAAATGTTTCTTGGAACAAGAAATCCCTGAAATTCAGCTGTTATAGTGCTTCCTG
TTTTTGCACTGATTTTTCTATACCTTAGGTGGTCAGAAGACAACCTTGAATGCACTCATAGAGAAAAGTGTACT
TTCTGACGTAATGTAATTCAGGAAGACAGACGCTGCAATCACAGATTTTAAAAAATTGTTTGCACTTAAAAATAG
TTGAATGCTGGTGGAAAGTTACTTTGCAGATGGGTGTAAGGACTCATGGCCCTCTGAGGTGCGGCGTGAAGATGC
CCTTTTTACCGTTGACGTTTATTTTACGTAAAATAAACTGTGTGTTTCCAATGCAATCAACTCTGTATTATATGT
ATAAATATTGTAATTCTGCAATTGGGGAAAATAGTTACTTCACTAGTAATTTTCATCATTTAAGAGTGATATTC
TAATTCACAAAAGTTAATATTAATACTATCTTGAATAT

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FIGURE 4095

CGCATGCGCAGGCGACAGCTCATGGCGTTCAGGGCCTGACGGTTGCTAGGGTGACAGGGACACAACATGGCGGGCG
GGATCTCTAACGCTCTCCTTCGAGGGACCACCACGGAGATCCTAGTGCGGGACCCCGCCTCAGGGAAGTGGAAG
CAGGGGGACAACCTTCCTGCTTCCTTCTTTTCCGTCCAGTGTCGGCAAGGGGTTGTACCGGCTTCCGCATCCAA
GATGAAAGAACTATAAAGCAATTGGCAAAATAGGAGAGGGAACGTTTTCTGAAGTTATGAAGATGCAAAGCCTGAG
AGATGGAAACTACTATGCATGTAAACAAATGAAGCAGCGCTTTGAAAGTATTGAGCAAGTCAACAACCTACGAGA
GATCCAAGCACTGAGGCGCCTGAATCCGCACCCAAACATTCTTATGTTGCATGAAGTGGTTTTTGACAGAAAATC
TGGTTCTCTTGCACTAATATGTGAACCTATGGACATGAATATTTATGAGCTAATACGAGGGAGAAGATAACCCATT
ATCAGAAAAAAAATTATGCACTATATGTACCAGTTATGTAAAGTCCCTGGATCATATTCACAGAAATGGAATATT
TCACAGAGATGTAAAACCAGAAAATATACTAATAAAGCAGGATGTCTGAAATTAGGGGACTTTGGCTCCTGCCG
GAGTGTCTATTCCAAGCAGCCGTACACGGAATACATCTCCACCCGCTGGTACCGGGCCCCGGAGTGTCTCCTCAC
TGATGGGTTCTACACGTACAAGATGGACCTGTGGAGCGCCGGCTGTGTGTTCTACGAGATCGCCAGTCTGCAGCC
CCTCTTTCCTGGAGTAAATGAACTGGACCAAATCTCAAAAATCCACGATGTCATCGGCACACCCGCTCAGAAGAT
CCTCACCAAGTTCAAACAGTCGAGAGCTATGAATTTTGATTTTCTTTTAAAAAGGGATCAGGAATACCTCTACT
AACAACCAATTTGTCCCCACAATGCCTCTCCCTCCTGCACGCAATGGTGGCCTATGATCCCGATGAGAGAATCGC
CGCCCACCAGGCCCTGCAGCACCCCTACTTCCAAGAACAGAGGAAAACAGAGAAGCGGGCTCTGGGCAGCCACAG
AAAAGCTGGCTTTCCGGAGCACCCCTGTGGCACCGGAACCACTCAGTAACAGCTGCCAGATTTCCAAGGAGGGCAG
AAAGCAGAAACAGTCCCTAAAGCAAGAGGAGGACCGTCCCAAGAGACGAGGACCGGCCCTATGTCATGGAAGTACC
CAAATAAAGCTTTTCGGGAGTGGTCAGACTGTCGTCTTACTCCAGCCCCACGCTGCAGTCCGTGCTTGATCTGG
AACAAATGGAAGAGTGCCGGTGCTGAGACCCTTGAAGTGCATCCCTGCGAGCAAGAAGACAGATCCGCAGAAGGA
CCTTAAGCCTGCCCCGCAGCAGTGTGCGCTGCCACCATAGTGCGGAAAGGCGGAAG**ATAA**CTGAGCAGCACCGT
CGTCTCGACTTCGGAGGCAACACCAAGCCCGACCGGGCCAGGCCTGGGTGATCTGCTGCTGAGACGCCACGGAGG
GCTGGGGATGCGCCTGCGTCCGTTTCGCGCTGGCCGGGGCTCTGGGTGCTGCCCTGCGCCCTGCCGCACCCGCGG
CCCGCGCAGCTGCCTAGGATGTTCTGGGCTAATATACTTGTAACCACCGCATTCTAGGGTTTTCTTTTCATTTT
CGTTAAGAATTTGGGGCAGGAAATACTTTGTAACCTTTGTATATGAATCAAAACAAACGAGCAGGCATTTCTGTGA
TGTGTTGGGCGTGGTTGGAAGGTGGGTTCTGCGTGTCCCTTCCAGCGCTGCTGGTCAGTCGTGGAGCGCCATCA
TGTCTTACCAGTGACGCTGCTGACACCCCTGACTTTTATTAAAGAATAAGCTGTCGTTAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 4096

MKNYKAIGKIGEGTFSEVMKMQLRDGNYYACKQMKQRFESIEQVNNLREIQALRRLNPHPNILMLHEVVFDKRS
GSLALICELMDMNIYELIRGRRYPLSEKKIMHYMYQLCKSLDHIHRNGIFHRDVKPENILIKQDVLKLGDFGSCR
SVYSKQPYTEYISTRWYRAPECLLTDGFYTYKMDLWSAGCVFYEIASLQPLFPGVNELDQISKIHDVIGTPAQKI
LTKFKQSRAMNFDFFPKKGSIGIPLLTNLSPQCLSLHAMVAYDPDERIAAHQALQHPYFQEQRKTEKRALGSHR
KAGFPEHPVAPEPLSNQCISKEGRKQKQSLKQEEDRPKRRGPAYVMELPKLKLSGVVRLSSYSPTLQSVLGSG
TNGRVPVLRPLKCIPASKKTDQPQDLKPAPQQCRLPTIVRKGR

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FIGURE 4097A

CCCCCGGCGGAGCCAGCTGCTGCTCTTCGGTGCTGGCCCCGGTGCCGGCCCCGTTGCCAGGGAACAGGCTCCCCG
GCAGCCCCCGCGGCCCGGAGTCCATCCCGCCTCCTCCGGCCCCGGCGGGGCCGACGAGTCCGGAGGGGCTGCCGCG
GGAGCCCCCAGGTTTCCCTAGATGACAAATAAACATTCTTTTCTGCGTGAAGATAGTCTGTGGAAACCTTGGC
CATGGCATCGATATCAGAGCCTGTTACATTACAGAGAGTTCTGCCCCGTTGTACTATCTCCTCAATGCCATTCCGAC
AAAGATCCAGAAGGGTTTCCGCTCTATCGTGGTCTATCTCACGGCCCCGACACCAACGGGGACTACATCGCGGT
GGGCAGCAGCATCGGCATGCTCTATCTGTACTGCCGGCACCTCAACCAGATGAGGAAGTACAACCTTTGAGGGGAA
GACGGAATCTATCACTGTGGTGAAGCTGCTGAGCTGCTTTGATGACCTGGTGGCAGCAGGCACAGCCTCTGGCAG
GGTTGCAGTTTTTCAACTTGTATCTTCATTGCCAGGGAGAAATAAACAGCTTCGGAGATTTGATGTCACTGGTAT
TCACAAAATAGCATTACAGCTCTGGCTTGGAGCCCCAATGGAATGAAATTGTTCTCTGGAGATGACAAAGGCAA
AATTGTTTTATTCTTCTCTGGATCTAGACCAGGGGCTCTGTAACCTCCAGCTGGTGTGGAGGAGCCATCTTCCAT
TGTGCAGCTGGATTATAGCCAGAAAGTGCTGCTGGTCTCTACTCTGCAAAGAAGTCTGCTCTTTTACACTGAAGA
AAAGTCTGTAAGGCAAATTGGAACACAACCAAGGAAAAGTACTGGGAAATTTGGTGTCTGTTTTATACCAGGACT
CTGTAAGCAAAGTGATCTAACCTTGTATGCGTCACGGCCCCGGGCTCCGGCTATGGAAGGCTGATGTCCACGGGAC
TGTTCAAGCCACGTTTATCTTAAAGATGCTTTTGCCGGGGGAGTCAAGCCTTTTGAAGTGCACCCGCGTCTGGA
ATCCCCCAACAGTGGAAGTGCAGCTTACCTGAGAGGCACCTGGGGCTTGTTCATGTTTCTTTCAAGAAGGCTG
GGTGTCTGAGTTGGAATGAATATAGTATCTATCTCTAGACACAGTCAACCAGGCCACAGTTGCTGGTTTGGAAGG
ATCCGGTGATATTGTGTCTGTTTCGTGCACAGAAAATGAAATATTTTTCTTGAAAGGAGATAGGAACATTATAAG
AATTTCAAGCAGGCCTGAAGGATTAACATCAACAGTGAGAGATGGTCTGGAGATGTCTGGATGCTCAGAGCGTGT
CCACGTGCAGCAAGCGGAGAAGCTGCCAGGGGCCACAGTTTCTGAGACGAGGCTCAGAGGCTCTTCCATGGCCAG
CTCCGTGGCCAGCGAGCCAAGGAGCAGGAGCAGCTCGCTCAACTCCACCGACAGCGGCTCCGGGCTCCTGCCCCC
TGGGCTCCAGGCCACCCCTGAGCTGGGCAAGGGCAGCCAGCCCCTGTACAGAGATTCAACGCCATCAGCTCAGA
GGACTTTGACCAGGAGCTTGTCTGAAGCCTATCAAAGTGAAAAGGAAGAAGAAGAAGACAGAAGGTGG
AAGCAGGAGCACCTGTACAGCTCCCTGGAATCGACACCCTGTCCGAATTTCTGGGGACAGTCCCCAGTCCTT
GAACACAGACTTGCTGTGATGACCTCAAGTGTCTGGGCAGTAGCGTGGATCAGTTAAGTGCAGAGTCTCCAGA
CCAGGAAAGCAGCTTCAATGGTGAAGTGAACGGTGTCCACAGGAAAATACTGACCCCGAAACGTTTAAATGTCTT
GGAGGTGTGAGGATCAATGCCTGATTCTCTGGCTGAGGAAGATGACATTAGAAGTGAATGCCACACTGTACCA
TGCACATGGGCGGGAGCTGCTCAATGGAGCGAGGGAAGATGTGGGAGGCAGTGATGTACGGGACTCGGAGATGA
GCCGTGTCTGTCAGATGATGGACCAAATAGCACACAGTTACCCTTCCAAGAACAGGACAGCTCTCCTGGGGCGCA
TGATGGGGAAAGACATCCAACCCATTGGCCCCCAAAGCACTTTTTGTGAAGTCCCCCTCCTGAAGTCACTCACTGT
GCCTTCCAGCCTCAGCTGGGCCCCAAGTGCTGAACAGTGGCTGCCTGGGACCAGAGCTGATGAAGGCAGCCCCGT
GGAGCCCAGCCAAGAGCAGGACATCCTAACCAGCATGGAGGCCTCTGGCCACCTCAGCACAAATCTCTGGCATGC
TGTCAGTATGATGACACAGGTGAGAAAGAAATACCCATTTCTGAACGTGTCTTGGGGAGTGTGGGAGGACAGCT
GACTCCGGTCTCTGCCTTGGCAGCCAGCACTCACAAGCCCTGGCTTGAGCAGCCTCCACGGGATCAGACATTGAC
GTCCAGCGATGAGGAGGACATCTATGCCACGGGCTTCCTTCTTCATCCTCAGAGACGAGTGTGACAGAGCTCGG
ACCTAGTTGCTCCCAGCAGGACCTGAGCCGGCTGGGTGCAGAGGACGCCGGGCTGCTCAAGCCAGATCAGTTTGC
AGAAAGCTGGATGGGCTACTCGGGTCCCGGCTATGGCATCCTCAGCTTGGTGGTCTCCGAGAAGTATATCTGGTG
CCTGGACTACAAAGGCGGCTGTCTGTCAGCGGCTTGCCGGGCGCCGGGCTGCGCTGGCAGAAGTTTGAAGATGC
TGTCCAGCAGGTGGCAGTCTCGCCCTCAGGAGCCCTTCTCTGGAAGATTGAACAGAAATCTAACCGGGCTTTTGC
TTGTGGGAAAGTCACCATCAAGGGGAAGCGGCACTGGTACGAAGCCCTGCCCCAGGCAGTGTGTTGTGGCCCTGAG
CGATGACACGGCCTGGATCATCAGGACAGTGGGGACCTATACTTGCAGACAGGTCTGAGCGTGGATCGCCCTTG
TGCCAGAGCCGTAAAGGTGGACTGTCCCTACCCGCTGTCCAGATCACAGCCCGGAACAATGTGGTGTGGGCGCT
GACAGAGCAGAGGGCCCTCCTGTACCGGGAGGGCGTGAGCAGCTTCTGTCCGGAAGGCGAGCAGTGGAAGTGTGA
CATTGTGTCAGCGAAAGGCAAGCTTTAGAACCCTGTGCATAACGCTCGGGGATCAGCAGACTCTCTGGGCCCTGGA
CATCCATGGGAACCTGTGGTTGAGAACTGGCATTATTTCCAAGAAGCCCCAAGGAGATGACGACCATTGGTGGCA
AGTGAGCATCACGGACTATGTGGTGTGTTGACCAGTGCAGCTTATTTAGACGATAATCCATGCCACTCACTCGGT
GGCCACAGCAGCCCAAGCCCCCGTAGAAAAGGTGGCAGATAAGCTGCGCATGGCGTTTTTGGTCCCAGCAGCTTCA
GTGCCAGCCAAGCCTTCTCGGGGTCAATAACAGCGGTGTCTGGATCTCCTCGGGCAAGAATGAATTCCACGTGCG
TAAGGGAAGTCTCATAGGCACCTACTGGAATCATGTGGTTCCCCGTGGGACAGCTTCTGCTACAAAATGGGCCTT

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FIGURE 4097B

TGTGTTGGCTTCTGCAGCTCCACGAAGGAAGXXXXXXXXXXTGGCTGTGCCAGAGCAGCAAGGACCTGTGCAG
CGTCAGCGCCAGAGCGCACAGTCGCGGCCCTCCACGGTGCAGCTGCCTCCCGAAGCCGAGATGCGCGCCTATGC
CGCCTGCCAGGATGCGCTGTGGGCGCTGGACAGCCTCGGCCAGGTGTTTCATCAGGACGCTCTCCAAGAGCTGCCC
CACGGGCATGCACTGGACCAGGCTGGACCTCTCCCAGCTAGGAGCTGTAAAATTGACAAGCTTGGCATGTGGAAA
TCAGCACATCTGGGCCTGTGATTCCAGGGGTGGAGTTTACTTCCGTGTAGGGACTCAGCCTCTCAATCCCAGTCT
CATGCTTCCAGCCTGGATAATGATTGAGCCACCTGTCCAGCCCCGCCGGGGTCAGCTTGGTCAGCGTCCATTCCAG
CCCCAACGACCAGATGCTGTGGGTGCTTGACAGCAGGTGGAACGTGCACGTGCGGACCGGGATCACCGAGGAGAT
GCCTGTGGGGACCGCCTGGGAGCATGTGCCAGGGTTGCAGGCCTGCCAGCTGGCGCTGAGCACCAGGACCGTGTG
GGCCCGCTGTCCAAACGGAGACCTCGCCCGGCGGTACGGCGTACAGACAAGAACCCCGCCGGGGACTACTGGAA
GAAAATTCCCGGCAGCGTGTCTGTGTTTCACAGTGACTGCGTCAGATGAGCTGTGGGCTGTGGGCCCGCCCGGCTA
CCTCCTCCAACGGCTGACAAAGACGTTTCAGCCACTCGCACGGCACCCAGAAGAGCAGCCAGGCCGCCATGCCCCA
CCCTGAGGACCTGGAGGACGAGTGGGAGGTATCTGAAGGAGCCCTGGCCGAGTCACGCGGAGGGGGCCCGCGTC
TGTGGCGGGCACAGGGCTTCAGAGTGACTCCCTGGTGGACGCGCTGCCTCAACACTTGTCCAGACACCTCTGGC
CAGGTTGGACCCGCACACTTACTTTTCATCTATGTTGGTTTCTGTCTCGTTCCAGAACCACAGCCTCCACCCGTG
GCTGGCGTGATTGCTGCAGCAGTGGCGCCTCCTAGCTCAGGACAGTGGCGACTGCCCGGCTGCATGCACTCCGAT
TACCCACGTGCTGCCGTCTGGTCTCATCCACAGATAGCTCCAGCTTTTGTGGTGGGAGTGGTCTCCGGAGGCC
TCCAGAACCAAGGGTAGCCGGGCAGCTGGTTTGGCCAGGGCCTCCTTCCACATTAGTAGCCCCAGGGCCAGAT
GGAGCCAAAGGTGAGCTCTCTGCAGCGCGGATGTGCTCGGTGATGGCTTTGTCCCATCATAGGGGGGTGTCCCC
CCAGAGACAAAGCTGCAGAGCACATTCCATGCCAGACGCTCTGGCCAGGAAGCTGAGGCCGGGCTTGAGAGGAGA
GCGCTGGCCATGCCAGGAGAGAACCCACGCACATGCACACCACAACACACACCTCACCTCACACCACAGC
ACACCTCACACACCACACCGCACTGCACCATACCTCACCACATCTCACCACACCACAGCACACCTCACACACA
ACACACCACACCCACACCGCACTGCACCGCACCGCACCGCACCGTACCTCGCCACATCTCACCACACCACACCA
CACCACACCTCACTGCCACACACGGCGCAGGCTGCCCGCCTCCTGGAGAGCACACTTCAGCTGAAACAGTAAAG
CCTGATGGGTGCAAATGGAACCTGGATGTGTGCACGTGTGTCCAGGTAGGGACGGCACAGGAGGGTGCATGGGG
CGTGGGGGAGCTGAGCAAGGGTCGCTCACTTAGAAATGTCTTTGGAATGGTGTTTAACTAATGCTGCTGGCGGAC
ATCCTAAAACCAGATGCATCCTCAGAGGACGAGTCTACTAATTATTGCCTTTGTTGTTGTATTACAAATCTGCAT
AAAATACCTCATTTCAAATCAAATCTTACAAATTTAGAAGAGAGATATGTTTTCCGAAAACAGTGGAAGCCCTTT
GTTCTTCCCGGGTTTGTCTGAGCCTGCACTGTCTCGCCTGCAGCCTCAGAGGGGCAGGCATCCCCGCACAGA
CTTGACTGGCAGGGCGGTACGGGACCTGCGGGCTGGCTCCGAGTGGCAGCCCATGCCTTCTGCGGGGTATGGGT
TGACACTTGACAGGTTGAAACAGTGCCTCTATGGACGGCTGCTGTGGCCCCCTTCAGACAATGGGCAGTGCCAC
CCCGCCCACTGGCATCTGCGTGTGAGGGCTAGGCCGCCCTGCCACACATCCCGCCCCCTCCCGGAGGCAGCTTCA
GGACAGGACACCAGGCTGGCTGCTTTTTTTAGCCTGCCCCGGCCAGGCCAGTCCTTGGTGTGAGGGAGCCCC
CAGGCCGCAGGTGGAGGGTGATAAAATATGTTCTCTGACAGGACCCAGCCAGCCACATAGGTGGAGGTTTCCAT
GTCCAAATGAGGTCAAGATGCCGAAATCCAGATCTGACTTCACACTTCCCTTTTCTAGAACCTTTTGTAAGT
TGGTGGCAGCAGAGGCAGCCCCAGGCCGGGCTGCATCTCTCTGTGTCTGTTGTGCCTTGCCCGCGCCTCACGGA
TGGCAAAGCTCTCCTCACCCATGGGACTGTAGTGCAATTAAACCCGCGTCTAGGTGATGCTTTTAAAGTTGTAGC
TTCGTGCTTTGTACAGTTTTCTTCTGGTTTTAATTTTTAGTTGTGCTTTGAGTCAGTGAATAAACTAGACTTT
TTCC

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FIGURE 4098A

AGCTTGAGCGCGGCGGCGGCGTTGTTTCAGTCAGAGCGAGAACATTCCAGAGGTCGCCCAGCTCCGGCGCTGACGG
GTGTGGACCGCGGACGTCGCTGGGACAGCCCCTCCCCGCTGCTCGGCGGCGGCATCTGGCCCCGGCCGCTCCTCGC
TGCCTTCGCCTCCGCCTCCTCGGACTCGGACTCGGGTTTATATCGCGCCTCACTTCATCCCAGTCCCCGGGCGAG
CAGCGTTGGGTTTATGTCCTTTATTTGACGAAAACGAGCTGTTGCGCAGCCATTGGTACCTGTATTGGGGAAACAT
AGCATACAAGCAAGAAGCTTACAGCCTCAGTGGCGAAAAATTTTTTCATGTCAGAGACCGGAGAACTCTTGACAGTCG
TTTATGTCATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGATAA
AGCCACTAATAAGCCAAAATGCTCTGTCAATGTCAACCGCAGCGTGTGACAGCAGTTCTATCGCTACAAGATGCC
CGTCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAG
GCGCTTAATCGGCCTCCAACGTATCCCACCAATATTTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTT
AAGAATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCAATAA
AAATTTGTTCTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAACAATAGGT
AATCTTGTAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAATCTGCACATTCAATTCTCAAAAAC
CCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAGAAAAAGAAAAAGAAAAACAGAAAGGGCAAAGACAAGGAA
AATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCACCAATGAAATTAATCCTCCTCCACATACA
ATGGAAGAAGAGGAGGATGATGACTGGGGAGAAGATACAACCTGAGGAAGCTCAAAGGCGTCGAATGGATGAAATC
AGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAAGAACAATTGAGGAGAGGGTCAATATCCTCTTT
GATTTTGTTAAGAAAAAGAAAGAAGAGGGTGTATTGATTCATCTGACAAAGAAATCGTTGCTGAAGCAGAAAGA
CTGGATGTAAAGCCATGGGCCCTCTTGTTCTAACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAAG
AAATACAGGCGCCATTTCTACGATTTTGTACACAACAACAAAAAGCCCCACGGTACCTTCTTCATGGTTTGAG
TGTGTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCCACATATCTTGAAGGAGATGTACGATGCAGAC
CTTTTAGAAGAAGAGGTATCATCAGCTGGTCGAAAAGGCCTCTAAGAAATATGTCTCCAAAGAACTTGCCAAA
GAGATTCGTGTCAAAGCAGAACCATTATATAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAA
GAAGATGAAGATGAGAACATTGAGGTGGTGTATTGCAAGGCTGCCAGTGACCGAAAGTTGAGACTGTAAAGTCA
GACAACAAGGATGACGACATCGATATTGATGCCATTTAAGGGATGGATGCAACCTAGCTTAACAGTATAATGCT
GCAAATTTTCTCCTCATTATCAGCCAGAAGTGCAACATGTATGTGCAAAAGCTAAAAATGGCTTAACATCATGCTAC
ACTTTACACTAAAAATCTATTACTGTGAGTGGTCTGTTATTAAGCCCAATGAGACATCTAGGGAGTCCATACACA
TCAGTGAGCAGATGTAGTTTGCTTATTTATAGCATGTTTCTTTTTGAAAACTAGTGGTGGACACATTTGGATCA
CATTTATACAGTTATAAAAAATAAAGGTTTGATTTTGGTCTGTTCTTCAGATGTTTGGCTCTGAATGACTTAAGCTG
AAGTAACCTGGCTCCTTACTTTAAATGTTCTGCCATCATTTACCTGATGAGCATCTTGAGAGCTGCCAGATATT
GTTAGGTCCTGGGGCTGCAAAGAGGTCTCAACAGGATGTAAAGCAAACCTTAATTGTAATTAATTTATTCAGCCC
ATTAAGAAAGTACTAAAGTTTTATCTCTGTAGTTCTCAAAATGGCATCTGGTAATGTACATTGTGAGGTAGACT
GATAATGAAATGACAGTGCAACATCTTAACCAAGAAGTAAATATGACCTCAGTGTCCTATAAATAATGTAAGAGC
AGGATTTGAAACTTGAGAGCTGTTTTCTCATTTTCATGTACACTTGCCCCAAATGTCTTTGAAGTCGTGTGCAT
TGCACGTTGGATGAGCCAGGGAAATTATTACATTAACAAGCATTGTGTGTGCGTAGTAGTTACTTTGTACTGA
GAGAACTTGCTTTGGGGTGCAATTAAACAATAAACTGATTTTATTTGGGAGAAACAAGGAAGGGTGCACCTAACT
AGCAACCTAAGCATGATTTTTTCAGCTTTTGCCCTTAGGGTTTAAATTACAATTCCAAAATGTTAGACATACTGTA
TTTTTTCGTTTCAGTGTGGCTTTAATTTTCCCTCTTGCAAGTTGTTCTGTAAATGCCTTTTACATTTGGACACATA
GTTTATGCTTTTTTAGATTTTGGTTGCTTCTTGCCAAAATAAGTGTTAACTGTGTTTCAAACCTTGATTTTCTTTC
TTTTTCTTTTTTTTTCTTCCAGAATGTCTTATTTAAAAAGAAAGCTAAAAGCATACTTCTAAGTCAGAGCCTCT
ATTTTGGTGTAAGACTTGGGATATTTTTTACTTCACATTGAATATAGCCAGGCACCCAAGAAGTCTGATGGCCAC
CTGAGTGCAAGTGACAAGGACCTGACAGAGCCCATGCAGGGCTTTAGATTTGGACACACAAGAGTTGATAACTTC
CTCATGAACTCCTTGCCCTGATCTAAACTCATATTATGGGTTCTGACTGTTTGAGTAATCGTCTTCAAGGTTAAAC
CTCTTGGCAGTTACCCTTTTCAAAAGTGACAGTGGAATCGAGAATCGATAGGGTTAATTTTGGAGCAGTGGC
TTATACCATTCACCTCTGTTTTTTGTGATTATTTTACAGATAATGAGACCTTAATAACAAATAGGCGTAAAAAA
ATTTTCACATTGAAATGATAGAAACATTTGATGTAATAAACTTGGTTGGCTTGATATTTTAAGGAATTGAAACC
TAGCAATCTTATTGGAGAGACAAGAATTGGTCTCCAGCTGCCTTTGATCAAGATTCGGGTGCAAGTGGAGCAGGA
GCCATATACCTGGAGGGAATGTGCTTTGTACACCAAAGAGGATTTTTTTTTTCTTCAAACCTTGATGTTGCCTA
GGTTTCAAATCTTTTGCCGCAAGGCTGATCTGCTTTCATTAACCTGGAATTCTGTAGGAGATACTGGTGACCTAAG

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FIGURE 4098B

CTAAGTTGCACTCAGCATACTCAGTGTCAAGCTAATGAGGTTCTATTATAAAGGTTCTACTTTTAATCTGAGGGA
AAACATGTTTCAGGGCTTCTAGAACACTAAAAAATTTGGCTTAAACCAGTGTTTCAGTCTGGTGCCAACTTCGAAT
GGAATACAAATTCACATAATCTGAACTTTGTTTCACAGGTTATCCTAATAGAGTAATTCTTCACTTTGCTCTATTG
AACTGTCTTAAGGATTGTTTAAACAGCTAAGTTACTTGATTAAAATAATGATAAAATTGTAAAAAAAAAAAAA

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FIGURE 4099

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVKNDRI
VNGSHEANKLQDMLDGF I K K F V L C P E C E N P E T D L H V N P K K Q T I G N S C K A C G Y R G M L D T H H K L C T F I L K N P P E N S D
S G T G K K E K E K K N R K G K D K E N G S V S S S E T P P P P P P P N E I N P P P H T M E E E E D D D W G E D T T E E A Q R R R M D E I S D H A K V
L T L S D D L E R T I E E R V N I L F D F V K K K K E E G V I D S S D K E I V A E A E R L D V K A M G P L V L T E V L F N E K I R E Q I K K Y R R H F
L R F C H N N K K A Q R Y L L H G L E C V V A M H Q A Q L I S K I P H I L K E M Y D A D L L E E E V I I S W S E K A S K K Y V S K E L A K E I R V K A
E P F I K W L K E A E E E S S G G E E E D E D E N I E V V Y S K A A S V P K V E T V K S D N K D D D I D I D A I

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FIGURE 4100

GCCCGCCGCCGCCATGCCCTTCTCCAACAGCCACAACGCACTGAAGCTGCGCTTCCCGGCCGAGGACGAGTTCCC
CGACCTGAGCGCCCAACAACACATGGCCAAGGTGCTGACCCCCGAGCTGTACGCGGAGCTGCGCGCCAAGAG
CACGCCGAGCGGCTTCACGCTGGACGACGTCATCCAGACAGGCGTGGACAACCCGGGCCACCCGTACATCATGAC
CGTGGGCTGCGTGCGGGGCGACGAGGAGTCCTACGAAGTGTTCAGGATCTCTTCGACCCCATCATCGAGGACCG
GCACGGCGGCTACAAGCCCAGCGATGAGCACAAGACCGACCTCAACCCGACAACCTGCAGGGCGGGCGACGACCT
GGACCCCAACTACGTGCTGAGCTCGCGGTGCGCACGGGCGCGCAGCATCCGTGGCTTCTGCCTCCCCCGCACTG
CAGCCGCGGGGAGCGCCGCGCCATCGAGAAGCTCGCGGTGGAAGCCCTGTCCAGCCTGGACGGCGACCTGGCGGG
CCGATACTACGCGCTCAAGAGCATGACGGAGGCGGAGCAGCAGCAGCTCATCGACGACCACTTCCTCTTCGACAA
GCCCGTGTCGCCCCCTGCTGCTGGCCTCGGGCATGGCCCGCGACTGGCCCGACGCCCGCGGTATCTGGCACAATGA
CAATAAGACCTTCCTGGTGTGGGTCAACGAGGAGGACCACCTGCGGGTCATCTCCATGCAGAAGGGGGCAACAT
GAAGGAGGTGTTACCCGCTTCTGCACCGGCCTCACCCAGATTGAACTCTCTTCAAGTCTAAGGACTATGAGTT
CATGTGGAACCTCACCTGGGCTACATCCTCACCTGCCCATCCAACCTGGGCACCGGGCTGCGGGCAGGTGTGCA
TATCAAGCTGCCCAACCTGGGCAAGCATGAGAAGTTCTCGGAGGTGCTTAAGCGGCTGCGACTTCAGAAGCGAGG
CACAGGCGGTGTGGACACGGCTGCGGTGGGCGGGGTCTTCGACGTCTCCAACGCTGACCGCCTGGGCTTCTCAGA
GGTGGAGCTGGTGCAGATGGTGGTGGACGGAGTGAAGCTGCTCATCGAGATGGAGCAGCGGCTGGAGCAGGGCCA
GGCCATCGACGACCTCATGCCTGCCAGAAATGAAGCCCGGGCCACACCCGACACCAGCCCTGCTGCTTCCTAAC
TTATTGCCTGGGCAGTCCCACCATGCACCCCTGATGTTGCGCGTCTGGCGAGCCCTTAGCCTTGCTGTAGAGAC
TTCCGTACCCCTTGGTAGAGTTTATTTTTTTTGATGGCTAAGATACTGCTGATGCTGAAATAAACTAGGGTTTTGG
CCTGC

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FIGURE 4101

AGGACGGCGGGAAGAGGAGTGC GGAACCCGCGGGAGGATGTGCACAGAGGGCCCAGGAGGAGCCTCAGGAGCCGG
ACTGCCGTTGGCCAACCGAGTCCCCAGGGAGACACTTAAGGGAAATTAACTGCAGAGTGCAAGAGATGCCTCAG
TCAAGTCAGCCAAAAACACGCGGGTCATCCCCAAGCCCCAGAGAGTGACAGAGCCCCGATGACACGGACACCTCG
GCTGCTGTCACTTCCCTGGTTTCGGGCCTCCACAGGCTTTGAATTGAAGGCGAGTGCCTCAGAATTTGCATCCAT
TGTTCTGTCTTTCTGGGAAGTTATTCATCCTGGTGGCCAGCCCACCGACAAA**ATG**GATTTGGATCTACTGGACC
TGAATCCCAGAATTATTGCTGCAATTAAGAAAGCCAACTGAAATCGGTAAAGGAGGTTTTACACTTTTCTGGAC
CAGACTTGAAGAGACTGACCAACCTCTCCAGCCCCGAGGTCTGGCACTTGCTGAGAACGGCCTCCTTACACTTGC
GGGGAAGCAGCATCCTTACAGCACTGCAGCTGCACCAGCAGAAGGAGCGGTTCCCCACGCAGCACCAGCGCCTGA
GCCTGGGCTGCCCCGGTGTCTGGACGCGCTGCTCCGCGGTGGCCTGCCCCCTGGACGGCATCACTGAGCTGGCCGGAC
GCAGCTCGGCAGGGAAGACCCAGCTGGCGCTGCAGCTCTGCCTGGCTGTGCAGTTCCCGCGGCAGCACGGAGGCC
TGGAGGCTGGAGCCGTCTACATCTGCACGGAAGACGCCTTCCCGCACAGCGCCTGCAGCAGCTCATGGCCCAGC
AGCCGCGGCTGCGCACTGACGTTCCAGGAGAGCTGCTTCAGAAGCTCCGATTTGGCAGCCAGATCTTCATCGAGC
ACGTGGCCGATGTGGACACCTTGTGGAGTGTGTGAATAAGAAGGTCCCCGTACTGCTGTCTCGGGGCATGGCTC
GCCTGGTGGTCATCGACTCGGTGGCAGCCCCATTCCGCTGTGAATTTGACAGCCAGGCCTCCGCCCCCAGGGCCA
GGCATCTGCAGTCCCTGGGGGCCACGCTGCGTGAGCTGAGCAGTGCCTTCCAGAGCCCTGTGCTGTGCATCAACC
AGGTGACAGAGGCCATGGAGGAGCAGGGCGCAGCACACGGGCCGCTGGGGTTCTGGGACGAACGTGTTTCCCCAG
CCCTTGGCATAACCTGGGCTAACCAGCTCCTGGTGAGACTGCTGGCTGACCGGCTCCGCGAGGAAGAGGCTGCC
TCGGCTGCCCAGCCCGGACCCCTGCGGGTGCTCTCTGCCCCCACCTGCCCCCTCCTCCTGTTTCTACACGATCA
GTGCCGAAGGGGTGCGAGGGACACCTGGGACCCAGTCCC**ACTGAC**ACGGTGGCGGCTGCACAACAGCCCTGCCTG
AGAAGCCCCGACACACGGGGCTCGGGCCTTTAAACGCGTCTGCCTGGGCCGTGGCACAGCTGGGAGCCTGGTTC
AGACACAGCTCTTCCAGGGCAGCGGCTCCACTTTCTCATCCGAAGATGGTGGCCACAGACTGACCCCCATCTGAG
CTGGGGGGATGTTCTGCCTCTCCCTGGGTCTGGGGACAGGCCCGCTTGCTGGGTACCTGGTCCCCACTGCTGAGC
TGGCCCTTGGGGAGAGGTGATTCTCAGGGCTGGAGCCTGGGGTGTCTACAGTGACTCCCTGGGAGCCGCCTGCT
TCTTCTCTCCATATGGAAGCCCAACTGGGGTTGCGTCTGAGGCCTGCCCCCTGGGCTGGGGCCTCAGACCCCCCTC
AGCCTTGGGACCGTGCCACGAGGGTCTTCCCTCCTGCACACAGGGCAGTCCTTACTCCCCCACCCTCAGGCCA
CAGTGGGGCTGCAGGCAGGCGGCTCCTCCTCACCACCTCTGGGTCTTGCTCCCGGGGGCCCCACCTCGGCAC
ACACTGTGCCCCACAAA**ACTT**CAGTGTGGTACAAGGTGGAGAAAGCATATCCCACCAACCTCCAGTGTGAGGGTC
CAGGAGAGCCTGGGGGTGGGGGGACTGCCTTGTCTCTAGTAGTGTGGCCTGTGCCAGCACCACAGCCGGTCAGAG
GAGCGCAGGCAGCGCAGGGCTGGCACGTGACAGGCTCGTCAGCCACCTGGGAACACAGTTCTGGGCAAAGAGGAT
CCGAGGTTGAGAGGAAGGAGGGTCCCGGTGTATCCTGGCCCTGGGGGTCTGGGCGTCCAGCTCAGCCCTGGCCTG
GCTGGGTGGTATTCTGGTAGGGATATGGCAGGACTCCTGGCAGGGCCACCTGCAGGACCCTGTCTGCAGTCCCA
CACTGTGCAGACCCAGTCCCACACTGTGGCCAGGCCTTACATCTGGCTGGAAAGCAGAGCCTCCTGGGAACACAT
CTGGCTGCACAGGCTGAAATATCCACCCAGCAGGCAGAGTGGCGTGGCCTCCCCATGGGCACAGTGGTGACCCCC
TTGATTCCCACCGTACAACCCCTCCACCCCCCACTCAGTGCCTCCACATGCTGCCTGGCACAGACCAGGCCTTT
GACAAATAAATGTTCAATGGATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4102

MDLDLLDLNPRIIAAIKKAKLKSVEVLHFSGPDLKRLTNLSSPEVWHLRLTASLHLRGSSILTALQLHQKERF
PTQHQRSLGCPVLDALLRGGLPLDGITELAGRSSAGKTQLALQLCLAVQFPRQHGGLEAGAVYICTEDAFPHKR
LQQLMAQQPRLRTDVPGELLQKLRFQSQIFIEHVADVDTLLEC VNKKVPVLLSRGMARLVVIDSVAAFPFRCEFDS
QASAPRARHLQSLGATLRELSSAFQSPVLCINQVTEAMEEQGAAGPLGFWDERVSPALGITWANQLLVRLADR
LREEEAALGCPARTLRVLSAPHLPPSSCSYTTISAEGVRGTPGTQSH

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FIGURE 4103A

CAGGTGATCCTCTACGATCCCGCCGCGGTCCCCCAGGCAGCGCAGGCCCCCGGCGAGCCGCCACTGCTGCAGTT
CCCAAGATGTTTGCCTTCGATGCCGTCTTCCCCAGGACTCCGAGCAGGCCGAAGTCTGCTCGGGGACCGTGGCC
GACGTGCTCCAGTCGGTGGTCAGTGGGGCTGATGGCTGCATTTTTTTCCTTTGGCCACATGAGCCTGGGCAAGTCG
TACACCATGATCGGGAAGGACAGCTCACCCAGAGCCTGGGCATCGTGCCCTGCGCCATCTCCTGGCTCTTCAGG
CTCATCGAGGAGCGCAGGGAGAGGACGGGCACCCGCTTCTCCGTCCGGGTCTCAGCCGTGGAGGTGTGCGGGCGC
GACCAGAGCCTGCGGGACCTGCTGGCCGAGGTGGCCCCCTGGCAGCCTCCAGGACACCCAGTCTCCGGGAGTGTAC
CTGCGGGAGGACCCCGTGTGTGGGGCGCAGCTCCAGAACCAAAGCGAGCTGCGGGCACCCACGGCCGAGAAGGCG
GCTTTCTACCTGGATGCGGCCCTGGCGGCCCGCAGCACCCAGCCGAGCGGGCTGTGGCGAGGACGCCCGACGCAGC
TCCCACATGTTGTTACGCTGCACGTCTACCAGTACCGCATGGAGAAAGTGC GGCCGGGAGGAATGTCCGGAGGC
CGCAGCCGCTGCACCTCATCGACCTGGGCAGCTGTGAGGCGGGCGGCTGGCAGGGCCGGGAGGCTGCTGGGGGT
CCCCTGTGTCTGTCCCTGTGCGCCCTGGGCAGCGTCATCTTGGCCCTGGTCAACGGAGCCAAGCATGTGCCGTAT
CGGGACCACAGGCTCACCATGCTGCTGCGTGAATCCCTGGCCACCGCTGGCTGCCGCACCACCATGATCGCCAC
GTGTCGGATGCGCCAGCCAGCACGCAGAGACACTCAGCACCGTGCAGCTCGCCGCCCGCATCCACCGCTGCGC
AGGAAGAAGGCCAAGTACGCCTCCAGCTCCTCTGGCGGGGAGAGCTCCTGTGAGGAAGGCCGGGCCCCGTGCGCCC
CCGCACCTGCGGGCCCTTCCACCCACGCACTGTGGCCCTGGACCCCGACCGCACGCCTCCCTGCCTGCCCGGTGAC
CCCGATTACTCCTCCAGCAGCGAGCAGTCTGTGACACGGTCATCTACGTGGGGCCCCGGTGGGGCGGCGCTGTCA
GACCGGGAGCTCACCGACAACGAAGGTCCGCCTGACTTCGTGCCCATCATCCCTGCCCTGAGCCGCCACCGGCC
TCCAAGGTCCCCGAGACGCAGACCACTTCCGCTGCAGCACCTTCGCGGAGCTGCAGGAGCGGCTGGAATGCATG
GACGGCAACGAGGGTCCCTCAGGAGGTCCAGGTGGCACCGACGGAGCTCAGGCCAGCCCCCGCCGAGGGGGCCGG
AAGCCCTCGCCACCAGAGGCTGCATCCCCAGGAAGGCTGTGGGCACCCGATGGCTGCCAGCACCCCTCGAGGC
AGTTCTGGTCCAGACACCCACCAGGGTACCCCTGAGCCCTGCAAGGCCATTGTCTGGGGTGACCAGAGAGAGGAC
AGCAGCGCTTGGCCTGAGCTGCTGGTCCCGAAAAGGCTGCAGTGAGTGAGGAGGAGGAGGAGGAGGAGGAGGAG
GCTCCCCACCTCCTCAGTTGCTGGAAGCCTGCAGAGCCCCAGAAGAGCCTGGGGGAGGGGGCACTGATGGAGTG
GCACGGACCCCTCCCGTGGGCATGAGTGGGCAGGTGGCTGGGTCCCCGATGCTTCCTGGGGCCACCTGCCCCCGC
CTGGCTGCTGGCAGTGCCTGTCCGGAGCGGGGCTGCTCACCACCACAGTGACCTGCAGCGGCCAGTGGAGCTC
AACGGCGAGGACGAGCTGGTGTTCACGGTGGTGGAGGAGCTGTCCCTGGGGGCGCTTGCCGGAGCTGGGCGGCCC
ACCAGCCTGGCTAGCTTCGACAGTGAAGTCTCCCTGCGGGCCCTGGCCTCGGGGTCCCGGCCGGTACGATCATC
AGCAGCATCAATGATGAGTTTGACGCCTACACCTCTCAGGCCCTGAGGGGGGGCCCCCTGGAGGGGGCAGCCTGG
GCCGGCAGCAGTCACGGCTCCTCCATCAGCTCCTGGCTCAGCGAGGTACGCTCTGCACTGCCGACAGCCGTGAC
CCCACGCCGAGCCCCGCTTCAGCCCCGACTCGCTGGCAGGGCTTGACCCTGGGGGCCCCCCTGCCCTGGATGGT
TCCCTGGGGGATGGAAGCTCTGGGTTCTGGGGCCAGACAGACCTGACAGTCTGGGCCAACCTGGGGTCCGTGC
CCTGGGGAAGTGGCTGCAGTGGCCCCATCCCGACCCGGCAGGGAGCCCCAGGCCGGGCCCCCTCGCGGTGGGCATCC
GCAGCCCAGACCATCCACTCCAGCCTCCCCCGAAACCGAGGACTGCCTCTGCCACCACCCGTGTGGGCTGTGCT
CGCCTGGGCCAGAGCCCACCTGGCCGTGGAGGCCCTGTTTGAGGACCCATGGCTGCTCCGGGTAGGGGAGTGTGAT
ACCCAGGCAGCTTCTGCTGGCAGGGCCCCCAGCCCCACACTTGGCTCCCCCGGCTGCCTGAGGCCAGGTGATG
CTAGCCTGTGCCAGAGAGTGGTGGACGGGTGTGAGGTGGCAGCCAGGGCGGCCCGCAGGCCAGAGGCTGTGGCT
CGGATCCCACCGCTGCGGAGGGGTGCCACCACGCTGGGTGTGACAACGCCAGCTGTGTCTTGGGGAGATGCTCCC
ACGGAGGTGGTGGCCTGCTCGGGGAGCCTGAAGGCCTCCCCACAGCAAGAAGGGTCTGGCTCCCAAGGCGGGC
TTCTCCCCGAGGCCAGTGGGGCGGCCCCCGGCCCCACCCACGCGGAAGTCCAGCCTGGAGCAGAGGAGCAGC
CCGGCCTCGGCCCCCTCCGCATGCTGTGAACCGGCGCGGGTGGGGCTGCTGCTGTCTTCCAGGGGAGGAGGAG
CCCAGACCCAGCAGCCGGGCTGACCACTCTGTCCCCAGGGCCACGTCCAGCCTGAAGGCCCGGGCCAGCAAGGTA
GAAGCGGCACACCGTCTCGCCGGACACGCTCTTGGAGCGGTACGAAGGCCTGGCGCACAGCAGCAGCAAGGGC
CGGGAAGCCCCCTGGGCGGCCTCCCCGGGCTGTACCCAAGCTGGGTGTGCCACCCTCCAGCCCCACACACGGTCCA
GCTCCCGCCTGTAGGAGCGGCGCAGCCAAGGCTGTGGGGGCCCCCAAGCCCCCTGTTGGTGGAGGCAAGGGCCGT
GGCCTAGTGGCTGGTGGGTGCGGGCTCTGGGGCCTTCGGTGAAGCTGTCTACGGCCTCTGTGACGGGCAGGAGC
CCTGGCGGCCCTGTGGCAGGTCCCAGAGCAGCCCCACGGGCCGGGCCAGTGTGGGGCGAAGGCTGGCCGGGGT
ACCGTCATGGGCACAAAGCAGGCGCTCCGGGCTGCTCAGAGCCGCTCCATGAGCTGTGAGCCAGTGGAGCCCCG
GGCCGGGGTGGCTCCTCGTGGGGCTCGGCGGACTCAGACAGCGGCCATGACAGCGGCGTGAACGTGGGGGAGGAG

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FIGURE 4103B

CGGCCACCCACGGGGCCCGGCCCTGCCCTCCCCCTACAGCAAGGTGACCGCCCCACGGCGGGCCCCAGCGCTACAGC
AGCGGCCATGGCAGCGACAACAGCAGCGTGCTGAGTGGAGAGCTGCCGCCCCGCGCATGGGCGGCACCGCCCTTTTC
CACCACAGCGGTGGCAGCAGCGGCTATGAGAGCCTGCGGCGCGACAGCGAGGCCACCGGCAGCGCCTCCTCCGCC
CCTGACTCCATGAGCGAGAGTGGGGCTGCCTCCCCAGGCGCCCGCACCCGCAGCCTCAAGTCCCCCAAGAAGAGG
GCCACAGGTCTGCAGCGGGCGGCGCCTGATTCCCGCCCCACTGCCCCGACACCACTGCCCTGGGCGCTAAGCCCCAGC
CTCCCCGGGCAGTGGGTGGACCTGCCCCGCCCCCTGGCTGGCTCCCTGAAGGAGCCGTTTCGAGATCAAGGTGTAC
GAGATCGATGACGTGGAGCGCCTTCAGCGGCCCCGCCCCACCCGAGGGAGGCCCCACCCAGGGTCTGGCGTGC
GTCAGTACAAGGCTGCGGCTGGCGGAGCGCAGGCAGCAGCGGCTGCGGGAGGTGCAGGCCAAGCACAAAGCACCTG
TGTGAGGAGCTGGCCGAGACCCAGGGCCGGCTGATGCTGGAGCCTGGCCGCTGGCTGGAGCAGTTTGTAGGTGGAC
CCGGAGCTGGAGCCCGAGTCGGCCGAGTACCTGGCGGCCCTGGAGCGAGCCACGGCGGGCCCTGGAGCAGTGCCTG
AACCTGTGCAAGGCGCACGTATGATGGTCACCTGCTTCGACATCAGCGTTGCAGCCAGTGTGCCATCCCGGGG
CCGCAGGAGGTGGACGTCTGAGGCTGGGCGCCGGACAAGAGGAGGGGGCGTGCAGCGGGCTGGAGGACGGGACGT
GGGACGGAGCGAGGATGTGGTGGGGGCTGCGGGGGGAGGATGCGGAGGGGTTTCTGTGCAGGACGGGAGTCTCAG
AGAGGAGACGGAGTGTGGGGGAGGGAGGGCCGGCCACGCGGTGGACAGAGCGAGGGTGCCAGGGTGACCCGAAGA
CCGTCACCACCCGACAGCAACGCAAGTGCCTTTGACCTTGATTGGACTTTTCTCCCTTTTGCATTTGGTGCTAC
AGACTTGAGACACCAGCAGAAGTTGTGTTAGCCCCGGCCCCGCTGCGCCTGTCCGGGCCGGGGCTGGCGCCGGTT
GTGTTTGTGTCCACCTTGCCCTTCTTTGCAGCCAAGCAGTTTTTGTGGAGTGGGACTTACCTGCACGCCCCAGGGG
TCTTTCAGGATTCAGGATGACTTTTCTTTTACAATGGTTTCCTCTCGGCAGAGCCCGGGTTGTGGGGGATCTGTG
TGGGTTCTCAACGCAGATCCATCCTGGGGTCTCCCGGGCAGGGATGGCTGACCTCGAGTCCCCTCCCTTCCCGAG
AACCTGCTCTGTCCCGAGGGCAGCTAACAAGGGCTGAGCCCCAGGTACAGGTTGCCTCCTCCACGGCAGGAATTT
TTACCAAAACCACAAGCAAAAAACAAAACAGACCACCACGACCAACAACAAAGATGGGGGGTAGGGTTTTGTAAA
GGTTCGTGTAGGTTTCATATTTTATATCATTTTGCCATAAATGCGGAATTTGCCGTGGGAATTTGAAGACAAAT
GATCTATGTTTTTATGGTTTTCTAGGGAAGGTGTTCTGGGGGCCGGGCTCTCTCCAGCTGTGGGAGGCCTGCTCC
CTCTGGGGGGCACCCCTGGGCAGGGTGGGGGGGCCTTGGGAGGCGCTTCTTGCCAAATGCAGACGAGGGGTGAGCC
TGCCAGCGTTTTCGACGTCCCCGCACGACAGGCTCATACTTTCTGAGGATCGTGCATAGCATAGGACGTCTGAAC
CTTGTACAAATGTGTAGATGACATCTTGCTACAGCTTTTATTTGTGAATTAAAGATGCATTGATGGTT

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FIGURE 4104

MHLLQAPASHEDLDAPHGGPSLAPPSTTTSSRDTPGPAGPAGRQPGRAGPDRTKGLAWSPGPSVQVSVAPAGLGG
ALSTVTIIQAQQCLEGMWSVSRVNSFLPPACLAEEAAVAVAADTVRECPPVAGPDGLSKAWGRGGVCTSAIVTPT
PGSVGGSTGPSAAASFFIRAMQKLSLASKRKKPHPPPPPATRGTTSTYPTDFSGVLQLWPPPPAPPCLLRAASKTKD
NPGSIGKVKVMLRIWPAQGAQRS AEAMSF LKVDPRKKQVILYDPAAGPPGSAGPRRAATAAVPKMFAFDVFFQD
SEQAEVCSGTVADVLQSVVSGADGCIFSF GHMSLGKSYTMIGKDSSPQSLGIVPCAISWLFRLIEERRERTGTFR
SVRVSAVEVCGRDQSLRDLLEAVAPGSLQDTQSPGVYLREDPVCGAQLQNQSELRAPTAEKAAFYLDAAALAAARST
SRAGCGEDARRSSHMLFTLHVYQYRMEKCGRGGMSGGRSRLHLIDLGSCEAAAGRAGEAAGGPLCLSLSALGSVI
LALVNGAKHVPYRDHRLTMLLRESLATAGCRTTMIHVSDAPAQHAETLSTVQLAARIHRLRRKKAKYASSSSGG
ESSCEEGRARRPPHLRPFHPRTVALDPRTPPCLPGDPDYSSSSEQSCDTVIYVGPGGAAALSDRELTDNEGPPDF
VPIIPALSRHRPSKGP RDADHFRCTFAELQERLECMDGNEGPSGGPGGTDGAQASPARGGRKPSPEEASPRKA
VGTPMAASTPRGSSGPDTHQGTPEPCKAIVWGDQREDSSAWPELLVPEKAAVSGGRRPLPSPAPPPPQLLEACRA
PEEPGGGGTDGVARTPPVMSGQVAGSPMLPGATCPRLAAGSRCPERGLTTTTLQRPVELNGEDELVFTTVVEE
LSLGALAGAGRPTSLASFSDCSLRALASGSRPVSI ISSINDEFDAYTSQAPEGGPLEGA AWAGSSSHGSSISSWL
SEVSVCTADSRDPTPQPRFSPDSLGLDPGGPPALDGS LGDGSSGFLGPD RPDSPGPTWGPCPGEVA AVAPSRPG
REPQAGPSRWASAAQTIHSSLPRKPRTASATTRVGCARLGQSPPGRGGLFEDPWLLRVGECDTQAASAGRAPSPT
LGSPRLPEAQVMLACQRVVDGCEVAARAARRPEAVARIPPLRRGATTLGVTTPAVSWGDAPTEVVACSGSLKAS
PTSKKGLAPKAGFLPRPSGAAPPAPPTRKSSLEQRSSPASAPPHAVNPARVGAAAVLRGEEEP RPSSRADHSVPR
ATSSLKARASKVEAAHRLAGHASLERYEGLAHSSSKGREAPGRPPRAVPKLGVPPSSPTHGPAPACRSGAAKAVG
APKPPVGGGKGRGLVAGGSRALGPSVKLSTASVTGRSPGGPVAGPRAAPRAGPSVGAKAGRGTVMG TKQALRAAH
SRVHEL SASGAPGRGGSSWGSADSDSGHDSGVNVEERPPTGPALPSPYSKVTAPRRPQRYSSGHGSDNSSVL SG
ELPPAMGR TALFHHS GGSSGYESLRDSEATGSASSAPDSMS ESGAASPGARTSLKSPKKRATGLQRRRLIPAP
LPDTTALGRKPSLPQWVDLPPPLAGSLKEPFEIKVYEIDDVERLQRP RPTPREAPTQGLACVSTRRLAERRQQ
RLREVQAKHKHLCEELAETQGRLMLEPGRWLEQFEVDPELEPESA EYLAAALERATAALEQCVNLCKAHVMMVTCTF
DISVAASAAIPGPQEV DV

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FIGURE 4105

CACTACTGCCCTGCACCTGCAGCCCCCGTGGCGGGAGGCATGGAGGAGGTCATCGTGGCCCAGGTGGACCATG
GCTTGGGCTCAGCATGGGTCCCCAGCCATCGGCGGGTGAACCCACCCACACTGCGCATGAAGAAGCTGAACTGGC
AGAAGCTGCCATCCAACGTGGCACGTGAGCACAACCTCTATGTGGGCGTCCCTGAGCAGCCCCGACGCCGAGGCTG
TGGAGCCCCGACTTCTCCAGCATCGAGCGACTATTCTCCTTCCCTGCAGCCAAGCCCAAGGAGCCCACCATGGTGG
CCCCCGGGGCCAGGAAGGAGCCCAAGGAGATCACTTTCTCGATGCCAAGAAGAGCCTGAACCTCAACATCTTCC
TGAAGCAATTTAAGTGCTCCAACGAGGAGGTGCTGCTATGATCCGGGCTGGAGATACCACCAAGTTTGATGTGG
AGGTTCTCAAACAACCTCCTTAAGCTCCTTCCCGAGAAGCACGAGATTGAAAACCTGCGGGCATTACAGAGGAGC
GAGCCAAGCTGGCCAGCGCCGACCACTTCTACCTCCTCTGCTGGCCATTCCCTGCTACCAGCTGCGAATCGAGT
GCATGCTGCTGTGTGAGGGCGCGGCCCGCGTGTGGACATGGTGCGGCCCAAGGCCAGCTGGTGTGGCTGCCT
GCGAAAGCCTGCTCACCAGCCGCCAGCTGCCCATCTTCTGCCAGCTGATCCTGAGAATTGGGAACCTTCTCAACT
ACGGCAGCCACACCGGTGACGCCGACGGCTTCAAGATCAGCACATTGCTGAAGCTCACGGAGACCAAGTCCCAGC
AGAACC CGCTGACGCTGCTGCACCACGTGCTGGAGGAAGCGGAAAAGAGCCACCCCGACCTCCTGCAGCTGCCCC
GGGACCTGGAACAGCCCTCGCAAGCAGCAGGGATCAACCTGGAGATCATCCGCTCAGAGGCCAGCTCCAACCTGA
AGAAGCTTCTGGAGACCGAGCGGAAGGTGTCTGCCTCCGTGGCCGAGGTCCAGGAGCAGTACACCGAGCGCCTCC
AGGCCAGCATCTCGGCCTTCCGGGCACTGGATGAGCTGTTTGGAGCCATCGAGCAGAAGCAACGGGAGCTGGCCG
ACTACCTGTGTGAGGACGCCCAGCAGCTGTCCCTGGAGGACACGTTTACGACCATGAAGGCTTTCCGGGACCTTT
TCCTCCGCGCCCTGAAGGAGAACAAGGACCGGAAGGAGCAGGCGGCGAAGGCAGAGAGGAGGAAGCAGCAGCTGG
CGGAGGAGGAGGCGCGGCCCTCGGGGAGAGGACGGGAAGCCTGTCAGGAAGGGGCCCCGGAAGCAGGAGGAGG
TGTGTGTCATCGATGCCCTGCTGGCTGACATCAGGAAGGGCTTCCAGCTGCGGAAGACAGCCCGGGGCCGCGGGG
ACACCGACGGGGGAGCAAGGCAGCCTCCATGGATCCCCAAGAGCCACAGAGCCTGTGGCCACCAGTAACCCCTG
CAGGAGATCCCGTGGGCAGCACGCGCTGTCCCGCTCTGAGCCCGCCTTGATGCTACAACAGCCAGCGAGTCCC
GGGGCTGGGACCTTGTAGACGCCGTGACCCCCGGCCCTCAGCCACCCCTGGAGCAGTTGGAGGAGGGTGGTCCAC
GGCCCTGGAGAGGCGTTCTTCTGTTATGTGGATGCCAGCGATGTCTTAACCACTGAGGATCCCCAGTGCCCCC
AGCCCTTGGAGGGGGCCTGGCCGGTGACTCTGGGAGATGCTCAGGCCCTGAAGCCCCCTCAAGTTCTCCAGCAACC
AGCCCCCTGCAGCCGGAAGTTCAAGGCAAGATGCCAAGGATCCACGTCCTTGCTGGGCGTCTCCAGGCCGAGG
CCGACAGCACAAAGTGAGGGGCTGGAGGACGCTGTCCACAGCCGTGGTGGCAGACCCCTGCAGCAGGCCCAGGTG
GGGATGAGGACGAGGACGAGGAGGACACGGCCCCAGAGTCCGCACTGGACACATCCCTGGACAAGTCTTTCTCCG
AGGATGCGGTGACCGACTCCTCGGGGTGCGGCACACTCCCCAGGGCCCCGGGGCCGGGCCTCAAAGGGGACCGGGA
AGCGAAGGAAGAAGCGTCCCTCCAGGAGCCAGGAAGGCCTCAGGCCCAGGCCCAAGGCCAAGTGAGAGAGCCAG
GCCACAGGACATGCTGCCATTCTGCCAAGAGAGGCTCTTCTGGGGGCCAGGCTGGGACTGGGCCCCGGAACCAA
AACTCCGTGCCTTACCCAGCCGGGGCCCTCCTGGAGCCTTCTTGGGGTGTGTGGCTGGGAACCCGACAGGCACC
AGTGCCCTGCCAGGCCTGGTGCCTCCTGGACCGCCTGCACGTGCCAGCCTCCACCTGCTTCTTAAAGGCAACC
CTGGCCACACCCGCATGCGCCCGGTGCAGCCTGCCAAGGGCCAGTCGGGGGGTGTGCTGCTCCTGCCAGTGTCCA
CCACAGCTCTGCCTGCCCTTACGCCCAGCAAGGTTTAAATCAAAATGCAATGCTTTGCAAGTCTTTACTGCTTGA
GGTGGCTGAGTTGGGGGCCCTGGGCAGGGGTAAGCTGGCAGGCAGTGCCATGGCAGGCCAGGGTCCCCTCCCATG
GGGTCTGGCCCCCGTTCCAGCATGTCCAGCCCCTGAAGTTGGAGTGGGGGGCGGTCTGCCTTTGCTGCCACTGCC
AGGCCTCTGCCCTGCAGCTGAAACTTGGCCATCACATCAACAGAAAACCCCTCCAGTGCCAGCTGCCCAGCGTG
GGCAGGCCCTGGGGACAATACAGGTCCACCTGAGGGGCTGCAGGGTGACACCCAGCAGCCGCTGCCCCCTCACTG
CCCACCCAGCGAGGGCAGCCTACCCGAGCCTGCCCCCTGCCAGGTGTGTGCCCTGAGGCTGGCGGCTGGATGCGT
GGCCAATAAAAAGCAGACCTAG

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FIGURE 4106

GCGGCCGGGGAGCTGCGTAGCTCCCGGCCCGCGGCC**ATG**CCCAAGCGGAGCTGCCCCCTTCGCGGACGTGGCCCC
GCTACAGCTCAAGGTCCGCGTGAGCCAGAGGGAGTTGAGCCGCGGCGTGTCGCCGAGCGCTACTCGCAGGAGGT
CTTCGAGAAGACCAAGCGACTCCTGTTCTCGGGGCCCAGGCCTACCTGGACCACGTGTGGGATGAAGGCTGTGC
CGTCGTTACCTGCCAGAGTCCCCAAAGCCTGGCCCTACAGGGGCCCCGAGGGCTGCACGTGGGCAGATGCTGAT
TGGACCAGACGGCCGCCTGATCAGGAGCCTTGGGCAGGCCTCCGAAGCTGACCCATCTGGGGTAGCGTCCATTGC
CTGTTCTCATGCGTGCGAGCCGTGGATGGGAAGGCGGTCTGCGGTCAGTGTGAGCGAGCCCTGTGCGGGCAGTG
TGTGCGCACCTGCTGGGGCTGCGGCTCCGTGGCCTGTACCCTGTGTGGCCTCGTGGACTGCAGTGACATGTACGA
GAAAGTGCTGTGCACCAGCTGTGCCATGTTTCGAGACCT**TG**AGGCTGGCTCAAGCCGGCTGCCTTACCGGGAGCCA
CGCCGTGCATGGCAGCCTTCCCTGGACGAGCGCTCGGTGTTTACACTGAACTGTGGGGTCGACGGGAGGGGTGCC
TTTTACATGTTCTATTTTGTATCCTAATGACAGAATGAATAAACCTCTTTATATTTGCAAAAAAAAAAAAAAAAAA
A

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FIGURE 4107

MPKRSCPFADVAPLQLKVRVSQRELSRGVCAERYSQEVFEKTKRLFLGAQAYLDHVWDEGCAVVHLPESPKPGP
TGAPRAARGQMLIGPDGRLIRSLGQASEADPSGVASIACSSCVRAVDGKAVCGQCERALCGQCVRTCWGCGSVAC
TLCGLVDCSDMYEKVLCTSCAMFET

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FIGURE 4108

GCGGCCGGGGAGCTGCGTAGCTCCCGGCCCCGCGGCCATGCCCAAGCGGAGCTGCCCCTTCGCGGACGTGGCCCC
GCTACAGCTCAAGGTCCGCGTGAGCCAGAGGGAGTTGAGCCGCGGCGTGTGCGCCGAGCGCTACTCGCAGGAGGT
CTTCGACCCATCTGGGGTAGCGTCCATTGCCTGTTCTCATGCGTGCGAGCCGTGGATGGGAAGGCGGTCTGCGG
TCAGTGTGAGCGAGCCCTGTGCGGGCAGTGTGTGCGCACCTGCTGGGGCTGCGGCTCCGTGGCCTGTACCCTGTG
TGGCCTCGTGGACTGCAGTGACATGTACGAGAAAGTGCTGTGCACCAGCTGTGCCATGTTGAGACCCTGAGGGCTG
GCTCAAGCCGGCTGCCTTCACCGGGAGCCACGCCGTGCATGGCAGCCTTCCCTGGACGAGCGCTCGGTGTTTACA
CTGAACGTGTGGGGTCGACGGGAGGGGTGCCTTTTACATGTTCTATTTTGTATCCTAATGACAGAATGAATAAACC
TCTTTATATTTGCAAAAAAAAAAAAAAAAAAAAA

4455/6881
FIGURE 4109

MPKRSCPFAADVAPLQLKVRVSQRELSRGVCAERYSQEVFDP SGVASIACSSCVRAVDGKAVCGQCERALCGQCVR
TCWGCGSVACTLCGLVDCSDMYEKVLCTSCAMFET

4456/6881

FIGURE 4110

ATCCTGGGACAGGGCACAGGGCCATCTGTCACCAGGGGCTTAGGGAAGGCCGAGCCAGCCTGGGTCAAAGAAGTC
AAAGGGGCTGCCTGGAGGAGGCAGCCTGTCAGCTGGTGATCAGAGGCTGTGGCCAGGCCAGCTGGGCTCGGGGA
GCGCCAGCCTGAGAGGAGCGCGTGAGCGTCGCGGGAGCCTCGGGCACC**ATG**AGCGACGTGGCTATTGTGAAGGAG
GGTTGGCTGCACAAACGAGGGGAGTACATCAAGACCTGGCGGCCACGCTACTTCCTCCTCAAGAATGATGGCACC
TTCATTGGCTACAAGGAGCGGCCGCAGGATGTGGACCAACGTGAGGCTCCCCCTCAACAACCTTCTCTGTGGCGCAG
TGCCAGCTGATGAAGACGGAGCGGCCCGGCCCAACACCTTCATCATCCGCTGCCTGCAGTGGACCACTGTGCATC
GAACGCACCTTCCATGTGGAGACTCCTGAGGAGCGGGAGGAGTGGACAACCGCCATCCAGACTGTGGCTGACGGC
CTCAAGAAGCAGGAGGAGGAGGAGATGGACTTCCGGTTCGGGCTCACCCAGTGACAACCTCAGGGGCTGAAGAGATG
GAGGTGTCCCTGGCCAAGCCCAAGCACCGCGTGACCATGAACGAGTTTGAGTACCTGAAGCTGTCTGGGCAAGGGC
ACTTTCGGCAAGGTGATCCTGGTGAAGGAGAAGGCCACAGGCCGCTACTACGCCATGAAGATCCTCAAGAAGGAA
GTCATCGTGGCCAAGGACGAGGTGGCCACACACTCACCGAGAACCGCGTCCTGCAGAACTCCAGGCACCCCTTC
CTCACAGCCCTGAAGTACTCTTTCCAGACCCACGACCGCCTCTGCTTTGTTCATGGAGTACGCCAACGGGGGCGAG
CTGTTCTTCCACCTGTCCCGGGAACGTGTGTTCTCCGAGGACCGGGCCCGCTTCTATGGCGCTGAGATTGTGTCA
GCCCTGGACTACCTGCACTCGGAGAAGAAGCTGGTGTACCGGGACCTCAAGCTGGAGAACCTCATGCTGGACAAG
GACGGGCACATTAAGATCACAGACTTCGGGCTGTGCAAGGAGGGGATCAAGGACGGTGCCACCATGAAGACCTTT
TGCGGCACACCTGAGTACCTGGCCCCGAGGTGCTGGAGGACAATGACTACGGCCGTGCAGTGGACTGGTGGGGG
CTGGGCGTGGTCATGTACGAGATGATGTGCGGTGCGCTGCCCTTCTACAACCAGGACCATGAGAAGCTTTTTGAG
CTCATCCTCATGGAGGAGATCCGCTTCCCGCGCACGCTTGTTCCCGAGGCCAAGTCCTTGCTTTTCAAGGCTGCTC
AAGAAGGACCCCAAGCAGAGGCTTGCGGGGGCTCCGAGGACGCCAAGGAGATCATGCAGCATCGCTTCTTTGCC
GGTATCGTGTGGCAGCACGTGTACGAGAAGAAGCTCAGCCCACCCCTTCAAGCCCCAGGTACGTCGGAGACTGAC
ACCAGGTATTTTGATGAGGAGTTCACGGCCCAGATGATCACCATCACACCACCTGACCAAGATGACAGCATGGAG
TGTGTGGACAGCGAGCGCAGGCCCCACTTCCCCAGTTCTCCTACTCGGCCAGCAGCACGGCC**TG**AGGCGGCGGT
GGACTGCGCTGGACGATAGCTTGAGGGGATGGAGAGGCGGCCTCGTGCCATGATCTGTATTTAATGGTTTTTATT
TCTCGGGTGCAATTTGAGAGAAGCCACGCTGTCTCTCGAGCCCAGATGGAAAGACGTTTTTGTGCTGTGGGCAGC
ACCCTCCCCCGCAGCGGGGTAGGGAAGAAAATATCCTGCGGGTTTTAATTTATTTTCATCCAGTTTGTTCTCCGG
GTGTGGCCTCAGCCCTCAGAACAATCCGATTACGTAGGGAAATGTTAAGGACTTCTACAGCTATGCGCAATGTG
GCATTGGGGGGCCGGGCAGGTCCTGCCCATGTGTCCCCTCACTCTGTCTCAGCCAGCCGCCCTGGGCTGTCTGTCTAC
CAGCTATCTGTCTCTCTCTGGGGCCCTGGGCCTCAGTTCAACCTGGTGGCACCAGATGCAACCTCACTATGGTA
TGCTGGCCAGCACCCCTCTCTGGGGGTGGCAGGCACACAGCAGCCCCCAGCACTAAGGCCGTGTCTCTGAGGAC
GTCATCGGAGGCTGGGCCCCCTGGGATGGGACCAGGGATGGGGGATGGGCCAGGGTTTACCCAGTGGGACAGAGGA
GCAAGGTTTAAATTTGTTATTGTGATTATGTTGTTCAAATGCATTTTGGGGGTTTTTAATCTTTGTGACAGGAA
AGCCCTCCCCCTTCCCCTTCTGTGTCTACAGTTCTTGTTGACTGTCCCACCGGAGCCTCCCCCTCAGATGATCTCT
CCACGGTAGCACTTGACCTTTTTCGACGCTTAACCTTTCCGCTGTGCCCCAGGCCCTCCCTGACTCCCTGTGGGG
GTGGCCATCCCTGGGCCCCCTCCACGCCTCCTGGCCAGACGCTGCCGCTGCCGCTGCACCACGGCGTTTTTTTACA
ACATTCAACTTTAGTATTTTTACTATTATAATATAATATGGAACCTTCCCTCCAAATTCT

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FIGURE 4111

MSDVAIVKEGWLHKRGEYIKTWRPRYFLLKNDGTFIGYKERPDVDQREAPLNNFSVAQCQLMKTERPRPNTFII
RCLQWTTVIERTFHVETPEEREETTAIQTVADGLKKQEEEEEMDFRSGSPSDNSGAEEMEVS LAKPKHRVTMNEF
EYLKLLGKGTFGKVILVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCF
VMEYANGGELFFHLSRERVFSEDRARFYGAEIVSALDYLHSEKNVVYRDLKLENLMLDKDGHIKITDFGLCKEGI
KDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHEKLFELILMEEIRFPRTLGP
AKSLLSGLLKKDPKQRLGGGSEDAKEIMQHRFFAGIVWQHVEKKLSPPFKPQVTSETDTRYFDEEFTAQMITIT
PPDQDDSMECVDSERRPHFPQFSYSASSTA

4458/6881
FIGURE 4112

AGCCTGCAGCGGCAGTCGCTCCTGGACATGTCTCTGGTGAAGTTGCAGCTTTGCCACATGCTTGTGGAGCCCAAC
CTGTGCCGCTCAGTCCTCATTGCCAACACGGTCCGGCAGATCCAAGAGGAGATGACGCAGGATGGGACGTGGCGC
ACAGTGGCAGCCCAAGGCTGCAGAGCGGGCGCCGCTCGACCGCTTGGTCTCCACGGAGATCCTGTGCCGTGCAGCG
TGGGGGCAAGAGGGGGCACATCCTGCTCCTGGCTTGGGGGACGGCCACACACAGGGTCCAGTTTCTGACCTTTGC
CCAGTCACCTCAGCACAGGCACCAAGGCACCTGCAGAGCAGCGCTGGGAGATGGATGGCCCTCGAGAAAACAGA
GGAAGCTTTCACAAGTCACTTGATCAGATATTTGAAACGCTGGAGACTAAAAACCCAGCTGCATGGAAGAGCTG
TTCTCAGACGTGGACAGCCCCCTACTACGACCTGGACACAGTACTGACAGGCATGATGGGGGGTGCCAGGCCGGGC
CCCTGCGAAGGGCTCGAGGGCTTGGCTCCGGCCACCCAGGCCCTAGCTCCAGCTGCAAGTCCGACCTGGGCGAG
CTGGACCACGTGGTGGAGATCCTGGTGGAGACCTGAGCAGGAGCCCTGAGTGCTCACAGCCGCTCTGACGCATT
GACACGTGAGCACTGGCTCCCACGGAGGGTGCGCTGCCGCCAGCGGCCAGCCTTGCTGCCCTGTCTGCTGATT
CTGAGAAATCCCAGAACAGCCCATTACCAGTGGGGCTGCAGCCCTAGGCCCGTCCCACTCACCTCCCCCTGTGG
AGCGCCAGGCAGAGGCTGTTCTGGAAGGCTTCTTGTCTTCTGACGTCCCCACAGCCCTGGGCCCCCTCGTGTCTCT
TTGTGTCCCCCACTGTAGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTT
ACAATTCAGTTTTTACATGTTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAACTTTTTTATACCTTATCTCT
TTAGATTTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAACATCCTTTGCTGCTACATTAGAACTTTTA
TAGCCTAAACAATTGCAGTTGGTGTGTTTTCATTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTGTTTTGTTTT
TTGCAGTGAGCATCACTACAGTCTCAGTCAACAGTGTGAATGTATCATGTTTACTTTAAATGTGTGTGTGATAC
TTCTTCATTATGTCCTGCGCTGCAGTGAGACCTGGGTGAAAATCAGGAGCCGCACACAGCCACATCTTCCTAGAC
CTAAGAGTAAATTATGGAGGATTTTATTTATGTCTATTTATATGTAAATGTCATTGAAGACAAAGGTCAAATATT
TGTCTGTTTGTAGATCACAGGCACCAGTTGGTCTTCAGGGACCTCATAGCCCCCTCGGTGGTGCCTTCTCAAGGCA
GTGTTCTTGGAGGCTCCCATCAGGGTCAGCCCATGCACCTGCCCTGGGTGAGGAAGTAGCATTGCTGCTGGATGA
GAAACGCCTGCGCTGCTCTGTTAGACTGGTGCTGAAACAAAAGGTTAAGGCTAGGTTGAAGTCTAGAATGAAAGA
AATCTGAATCCATGTCATTACATAACCCCTTGATCTGTAGTGTATGGGTGCTGCCGCAGGCAGGGAGTGAGCTGG
GGGTGCCTGCAGCCTTCCACTCCTGCCCCGCTCACCCACATGCTCCCTGTTTCTCATGCTTTCTCTAACTTCC
TCACCCCTTAACCAAAAAGGTGTGTTTTCTTTTGTGCATATAGCCATTCTTAAATATCAGTGATGTAAACCTCAC
TTTATTAAAAAATTATCCAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4113

MFARGLKRKCVGHEEDVEGALAGLKTVSSYSLQRQSLDMSLVKLQLCHMLVEPNLCRSVLIANTVRQIQEEMTQ
DGTWRTVAPQAAERAPLDRLVSTEILCRAAWGQEGAHAPGLGDGHTQGPVSDLCPVTSAQAPRHLQSSAWEMDG
PRENRGSFHKSLDQIFETLETKNPSCMEELFSDVDSPYYDLDTVLTGMMGGARPGPCEGLEGLAPATPGPSSSCK
SDLGELDHVVEILVET

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FIGURE 4114

TCTCCAACAAAGGCCTCCCAGCCCCCATCGAGAAATGACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGG
CTTCTACCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACACTACAAGACCACACCTCC
CATGCTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAA
CGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGG
TAAATGAGTGCCACGGCCGGCAAGCCCCCGCTCCCCAGGCTCTCGGGGTCGCGTGAGGATGCTTGGCACGTACCC
CGTGTACATACTTCCCAGGCACCCAGCATGGAAATAAAGCACCCAGCGCTGCCCTGGGCCCCCTGC

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FIGURE 4115

GGACTCCCCCTCGCCCTCTGACACAGAAACCACCAGAAGAAAAGGGAACCTTCAGGAACTTCCACCAAGGGCCCAT
CCGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGCCGCCCTGGGCTGCCTGGTCAAGGACT
ACTTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCC
TACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACGAAGACCTACA
CCTGCAACGTAGATCACAAGCCCAGCAACACCAAGGTGGACAAGAGAGTTGAGTCCAAATATGGTCCCCCATGCC
CATCATGCCCAGCACCTGAGTTCCTGGGGGGACCATCAGTCTTCTGTTCCCCC AAAACCCAAGGACACTCTCA
TGATCTCCCGGACCCCTGAGGTACGTGCGTGGTGGTGGACGTGAGCCAGGAAGACCCCGAGGTCCAGTTCAACT
GGTACGTGGATGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTTCAACAGCACGTACCGTG
TGGTCAGCGTCTCACCCTCCTGCACCAGGACTGGCTGAACGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAG
GCCTCCCGTCTCTCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAGCCACAGGTGTACACCCTGC
CCCCATCCCAGGAGGAGATGACCAAGAACCAGGTACAGCTGACCTGCCTGGTCAAAGGCTTCTACCCCAGCGACA
TCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACCTACAAGACCACGCCTCCCGTGTCTGGACTCCGACG
GCTCCTTCTTCTCTACAGCAGGCTAACCCTGGACAAGAGCAGGTGGCAGGAGGGGAATGTCTTCTCATGCTCCG
TGATGCATGAGGCTCTGCACAACCACTACACACAGAAGAGCCTCTCCCTGTCTCTGGGTAAATGAGTGCCAGGGC
CGGCAAGCCCCCGCTCCCCGGGCTCTCGGGGTCGCGCGAGGATGCTTGGCACGTACCCCGTCTACATACTTCCCA
GGCACCCAGCATGGAATAAAGCACCCACCACTGCCCTGGG

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FIGURE 4116

CACCCCTCCTCTGGAGAAGCCCCTAGATCACAGCTCCTCACCATGGACTGGACCTGAAGGATCCTCTTCTTGATG
GCAGCAGCAACAGGTGCCCACTCCCTGCAGCTGGTGCAGTCTGGGCCTGAGGTGAAGAAGCCTGGGGCCTCAGTG
AAGGTCTCCTATAAGTCTTCTGGTTACACCTTCACCATCTATGGTATGAATTGGGTATGATAGACCCCTGGACAG
GGCTTTGAGTGGATGTGATGGATCATCACCTACACTGGGAACCCAACGTATAACCCACGGCTTCACAGGATGGTTT
GTCTTCTCCATGGACACGTCTGTCAGCACGGCGTGTCTTCAGATCAGCAGCCTAAAGGCTGAGGACACGGCCGAG
TATTACTGTGCGAAGTACACAGTGTGGAAACCCACATCCCGAGAGTTTCAGAAAGCCTGAGGAAGGAGGCAGCTG
TGCTGAGCTGAGGCAGTGAGCTCTGTCACAGGCCACATGGACCTAAATCCTTGATGGAGATTACAGGACTACGTA
AATTGGACTGATCGTTTTTATGCTGTAAATTAATAGAAGGCCAGCCCACTTGTTTCAGCTCCTAAGAAGAGAGCC
CAGGTTTATCCAGATTATACAAACACAACCAGCTTCTGATGACTCTCCTGTTACAACATCCATGGAGATATTTGT
GTATTATATAATTACCAAATAATGTGAAATGCCAAGTTGCAATACTGCACACCCTAGGGTATGTTCTTGCAA
TTCAGCGGAGGAGAAATTCTTTCAGAGACAGATGGATCTGAATTGGGGTCCTGTCCAGGTGCAGCTACAGCAGT
GGGGCGCAGGACTGTTGAAGCCTTCGGAGACCCTGTCCCTCACCTGCGCTGTCTATGGTGGGTCCTTCAGTGGTT
ACTACTGGAGCTGGATCCGCCAGCCCCAGGGAAGGGGCTGGAGTGGATTGGGGAAATCAATCATAGTGGAAGCA
CCAACTACAACCCGTCCCTCAAGAGTCGAGTCACCATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGC
TGAGCTCTGTGACCGCCGCGGACACGGCTGTGTATTACTGTGCGAGAG

4463/6881
FIGURE 4117

MTLLLQHPWRYFVYYIIHQTNVKCPSCNTAHPRVCSCNSAEEKFFQRQMDLNWGPVPGAATAVGRRTVEAFGDPV
PHLRCLWWVLQWLLELDPPAPREGAGVDWGNQS

4464/6881
FIGURE 4118

GCTCACATGGGAAGTGCTTTCTGAGAGTCATGGACCTCCTGCACAAGAACATGAAACACCTGTGGTTCTTCCTCC
TCCTGGTGGCAGCTCCCAGATGGGTCTGTCCCAGGTGCAGCTACAGCAGTGGGGCGCAGGACTGTTGAAGCCTT
CGGAGACCCTGTCCCTCACCTGCGCTGTCTATGGTGGGTCTTCAGTGGTTACTACTGGAGCTGGATCCGCCAGC
CCCCAGGGAAGGGGCTGGAGTGGATTGGGGAAATCAATCATAGTGGGAAGCACCAACTACAACCCGTCCCTCAAGA
GTCGAGTCACCATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGCTCTGTGACCGCCGCGGACA
CGGCTGTGTATTACTGTGCGAGAGGCACAGTGAGGGGAGAAGAGGAAGAGACACCAGAGACCTCTCACTTTTTCAC
GTGCACACAGAGAAGAGGGCCATGTGGAGACGTAGTGCACCTAGAAGGTGGCCCTGTGCAAGCCAGGAAGAAGCCAT
ACTAAGAACCAATTTTGCCAGCTCCTTGATCTTCGACATTCAGACTGTAGAATTGTAAGAAAATCAATATTTGTT
GTTTAAGCCACCCAATCCTGTTGTCTTCTTACGAAGACCCAAACTGACTAATACCACCTAACTCTGTTAGCTCTG
TCTCCTGGAGGGAGAAGCAGCCCCCTGAGGCTGGGCACTGCATCTCTCAGATTTCCACGTGAAGTAGGCAAAAAT
AGTAGTTCTCATATAAAAAATGTGTCATGGCTCTGTTGGCCATTTTTGAGCATGGTCTCTGAAACCAGCCCTGGTG
TGTGTGTGTAACAAATGTCCCTTATCTTTATTTGGACATAACAAATAGACGATAGGTACCAGCTG

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FIGURE 4119

CTCTTTCCAGCCAGCGCCGAGCGATGGGCACCTCTCGGGACAACCTGGCACAAGGGCCGCAAAGCTGGGGGCAAGA
GAAGGCCCTGCCACAAGAAGCGGAAGTATGAGTTGGGGCGCCCAGCTGCCAACAGCAAGACTGACCCGTGCCGCA
TCCACACAGTCCGTGTGCGAGGAGGTAACAAGAAATACTGTGCCCCGAGGCTGGACGTGGGGAATTTCTCCTGGG
GCTCAGAATGCTGCGCTGGTGAACAAGGGTCATCGATGTTGTCTACAATGCATCCAATAACGAGCTGGTTCGTA
CCAAGACCGTGGTGAAGAATTGCATCGTGCCCATCGACAGCACGCCCTACCGACAGTGGTACGAGTCCCACTGTG
CACTGCCCCCTGGGCCGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTAAACAAAAAACGATCTA
AAAAAATTCAGAAGAAATATGATGAAAGGAAGAAGAATGCCAAATGAGCAGTCTCCTGGGGGAGCAGTTCCAGC
AGGGCAAGCTTCTTGCGTGCATGGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGGCA
AAGAGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCAGAAAGGCAAATAAATCCTTGTTTTGTCTTCACCCATGT
AATAAAGGTGTTTATTGTTTTGTTCCCA

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FIGURE 4120

CTTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCTGGGGGCACAGCGGCCCTGG
GCTGCCTGGTCAAGGACTACTTCCCAGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGC
ACACCTTCCCGGCTGTCTTACAGTCTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCT
TGGGCACCCAGACCTACACCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAGAGTTGAGCTCA
AAACCCCACTTGGTGACACAACCTCACACATGCCCACGGTGCCCAGAGCCCAAATCTTGTGACACACCTCCCCCGT
GCCACGGTGCCCAGAGCCCAAATCTTGTGACACACCTCCCCCATGCCCACGGTGCCCAGCACCTGAACTCCTGG
GAGGACCGTCAGTCTTCTCTTCCCCCAAACCCAAAGGATACCCTTATGATTTCCTCGGACCCCTGAGGTCACGT
GCGTGGTGGTGGACGTGAGCCACGAAGACCCGAGGTCCAGTTCAAGTGGTACGTGACGGCGTGGAGGTGCATA
ATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTTCCGTGTGGTCAGCGTCTCTACCGTCTCTGCACC
AGGACTGGCTGAACGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCA
TCTCCAAAACCAAGGACAGCCCGGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGAGGAGATGACCAAGA
ACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTACCCCAGCGACATCGCCGTGGAGTGGGAGAGCAGCGGGC
AGCCGGAGAACAACCTACAACACCACGCCTCCCATGCTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCA
CCGTGGACAAGAGCAGGTGGCAGCAGGGGAACATCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCGCT
TCACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGAGTGCGACGGCCGGCAAGCCCCGCTCCCCGGGCTCTC
GGGGTCGCGCGAGGATGCTTGGCACGTACCCCGTGTACATACTTCCGGGCACCCAGCATGGAAATAAAGCACCC
AGCGCTGCCCTGGG

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FIGURE 4121

GACAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGAGGAGATGACCAAGAACCAGGTCAGCCTGA
CCTGCCTGGTCAAAGGCTTCTACCCAGCGACATCGCCGTGGAGTGGGAGAGCAGCGGGCAGCCGGAGAACAAC
ACAACACCACGCCTCCCATGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCA
GGTGGCAGCAGGGGAACATCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCGCTTCACGCAGAAGAGCC
TCTCCCTGTCTCCGGAGCTGCAACTGGAGGAGAGCTGTGCGGAGGCGCAGGACGGGGAGCTGGACGGGGCTGTGGA
CGACCATCACCATCTTCATCACACTCTTCCTGTAAAGCGTGTGCTACAGTGCCACCGTCACCTTCTTCAAGGTGA
AGTGGATCTTCTCCTCGGTGGTGGACCTGAAGCAGACCATCATCCCCGACTATAGGAACATGATTGGGCAGGGGG
CCTAGGGCCACCCTCTGCGGGGTGTCCAGGGCCACCCAGATCCACACACGAGCCGTGGGGCCATGCTCAGCCACC
ACCCAGGGCCACAACCTGCCCCGACCTCACCGCCCTCAACCCCATGGCTCTCTGTCTTTGCAGTCGCCCTCTGAGC
CCTGACACGCCCCCTTCCAGACCCTGTGCATAGCAGGTCTACCCAGACCTCCGCTGCTTGGTGCATGCAGGGA
GCTGGGGACCAGGTGTCCCTCAGCAGGATGTCCCTGCCCTCCAGACCGCCAGATGCTCACACAAAAGGAGGCAG
TGACCAGCATCCGAGGGCCCCACCCAGGCAGGAGCTGGCCCTGGAGCCAACCCCGTCCACGCCAGCCTCCTGAAC
ACAGGCGTGGTTTCCAGATGCCCGCAGCCAGCCAGCCTCCATTCCGGGCACTCCCGTGAACCTCTGACATGAGGA
ATGAGGTTGTTCTGATTTCAAGCAAAGAACGCTGCTCTCTGGCTCCTGGGAACAGTCTCGGTGCCAGCACCACCC
CTTGGCTGCCTGCCTACACTGCTGGATTCTCGGGTGGAAGTGGACCCGCAGGGACAGCCAGCCCCAGAGTCCGCA
CTGGGGAGAGAAGGGGCCAG

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FIGURE 4122

AAGAAGAGGCGAGAAAAGACCCCCGACAGACCAAAGCCCGTGTGCCGCTGCATCCTGCATCCAGCACCTACCTCC
CGCCACTGTCGCCACTGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAA
GGATGAACCACAGAGAAGATCCGCAAGGTTGTCTGCTAAACCTCCTCCTCCAAAGCCAGACAGCCCAAGCCTAGA
AAGGCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATT
CCTGAC,TTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTTGTTTTTATGTCCT
CTTCTCCCTTTCCATCTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCCTAGTC
ATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAGAGTAGTG
GTTCCATTTCTAGATTGTAGATCTTCAGATAAATTCTGCCATTTTCAATTTCACTTCCTGAAAGTCAGGGTCGGCT
TCTAAAAATTTGTTAAACAATATGCTAAATGTGAAATGTCACCCCTCACTCTAAACTTTCCCCGTTTCAGAGCATC
AGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTT
GTTGTATACTGTTAACGATTATCTGCCCATGTCCTGCCT

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FIGURE 4123

CTCTTTCCAGCCAGTGCCGAGCGATGGACATCTCTTGGGACAACTGGCACAAGTGCCACAAAACCAGGGACAAGA
GAAAGCCCTACCACAAGAAGCGGAAGTATGAGTTGGGGCACCCAGCTGCCAACACCAAGACTGGCCCCCGCCGCA
TCCACACAGTCCGTGTGTGGGGAGGTAACAAGAAATACTGTGCCCTGAGGCTGGACGTGAGGAATTTCTCCTGGG
GCTCAGAATGTTGTGCTCATAAAACAACGATCATCGATGTTGTCTACAATGCATCTAATAACGAGCTGGTTTCGTC
CCAAGACCCTGGTGAAGAATTGCATTGTGCTCATTGACAGCACACTGTACCGACAGTGGTACGAGTCCCACTATG
CGCCGCCCTGGGCTGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTGAACAAAAAGCGATCTA
AAAAAATTCAGAAGAAATATCATGAAAGGAAAAAGAATGCCAAATCAGCAGTCTCCTGGGGGAGCAGTTCCAGC
AGGGCAAGCTTCTTGATGCATTGCTTCAAGGCCAGGACAGTGTGGCTGAGCAGATGGGTATGTGCTAGAGGGCA
AAGAGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGGAAGGGCAAATAAATCCTTGTTTTGTCTTCACCCATGT
AATAAAGGTGTTTATTGTTTTGTTCC

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FIGURE 4124

ATGGATGAGGGAACCAAGCTTCAGAACAGTTTTAGATAAAGCTGTGCAAGCAGATGGACACGTGAAAGAATGTTAC
CCGTCTCATCGTGACCCCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAAT
CCAGCAAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAATCTTGATGAAGTAAAG
AAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTG
GCTCAAGATGGTGTGATAAATGAAGAAGCTCTTCTGTACTGAACTAGATCGAGTCTATGGAGGTCTTACAACCT
AAAGTCCAAGAATCTCTAAAGACACAGGAGGGACTTCTTAAAAATATTCAGGTCTCACATCAGGAATTTTCGAAA
ATGAAGCAATCTAATAATGAAGCTAACTTAAGAAAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACCTT
GTTGAACTTGTAGCTAATTCGAAGGAAGACACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAGGTTCCAG
AACAAATGCAGCGATATAGTTTTGGCATGGAAGACAGAAAGAGATGAACTCTTAAAGAGTAGGATGGATTATATT
ATTTGTCGAAATGCCTTTGCATCTAACAAGAACCTCTTGGGTTTCATCCTTTGGAGAACCTGATATCATGGAAAAT
GGACTGAACTAG

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FIGURE 4125A

CCCAGGATGGCGGCCAGGTGACTCTGGAGGACGCGCTGTCCAACGTGGACCTCCTGGAGGAGCTGCCCCTGCCC
GACCAGCAGCCCTGCATCGAGCCCCCGCCATCCTCGCTGCTCTACCAGCCAAATTTCAACACTAACTTTGAAAGAC
AGAAATGCATTTGTTACTGGCATCGCAAGATACATTGAACAAGCCACCGTCCACTCTAGCATGAACGAGATGCTG
GAGGAGGGCCAAGAATATGCTGTCTATGCTGTACACCTGGAGGAGCTGCTCCCGGGCCATCCCACAGGTGAAATGT
AACGAGCAGCCTAACAGAGTGGAAATCTACGAGAAAACCGTGGAGGTTCTGGAGCCTGAGGTACAAAACTGATG
AATTTTCATGTACTTCCAGAGAAATGCCATTGAGCGTTTCTGCGGGGAAGTGAGGCGCCTGTGCCATGCCGAGAGG
AGGAAGGACTTCGTGTCAGAAGCCTACCTGATCACACTGGGCAAAATTCATCAACATGTTTCGCTGTGCTGGACGAG
CTGAAGAACATGAAGTGCAGTGTGAAGAACGACCACTCAGCGTACAAGAGGGCCGCTCAGTTTTTTACGTAAAATG
GCAGATCCACAGTCCATCCAGGAATCGCAGAATCTGTCCATGTTTCTGGCCAATCATAACAAGATCACACAGTCT
CTGCAGCAGCAGCTCGAAGTGATTTCTGGCTACGAAGAGCTCCTGGCAGATATTGTGAATCTGTGTGTGGATTAC
TACGAGAACAGGATGTATTTGACGCCAGTGAGAAAACACATGCTTCTCAAAGTCATGGGATTTGGTCTGTACCTG
ATGGATGGGAGTGTCTAGTAACATCTATAAGTTGGATGCCAAGAAAAGAATAAACTTATCCAAAATCGACAAGTAC
TTCAAGCAACTCCAGGTGGTTCGCTATTTGGGGACATGCAATAGAACTGGCAAGATATATCAAGACCAGCGCC
CACTACGAGGAAAATAAATCTCGATGGACGTGCACATCCTCCGGCAGCAGCCCTCAGTACAACATCTGCGAGCAG
ATGATCCAGATCCGCGAGGACCACATGCGCTTCATTTTCGGAGCTGGCGCGCTACAGCAACAGCGAGGTGGTCACG
GGCTCGGGCCGCCAGGAGGCCCAGAAGACGGACGCGGAGTACCGAAGCTCTTCGACCTGGCGCTGCAGGGCCTG
CAGCTGTTGTTCGAGTGGAGCGCGCACGTGATGGAAGTGTATTCTGGAAGCTTGTGCACCCACCGACAAGTAC
TCCAACAAGGACTGCCCCGACAGCGCTGAAGAGTACGAGCGTGCCACGCGCTACAACACTACCCAGCGAGGAGAAG
TTTGCCCTAGTGGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTGATGGGCAGGATGGAGAGCGTGTTC AAC
CACGCCATCCGGCACACCGTCTATGCCGCACTGCAGGACTTCTCCAGGTGACCCCTAGGGAGCCGCTGCGGCAG
GCCATCAAGAAGAAGAAGAACGTATCCAGAGTGTCTGCAGGCCATCAGGAAGACCGTGTGTGACTGGGAGACG
GGGCATGAGCCCTTCAATGACCCAGCCTTGCGGGGCGAGAAGGACCCCAAGAGCGGCTTCGACATAAAAGTACCA
CGCCGCGCCGTGGGACCCCTCCAGCACTCAGCTTTACATGGTGAAGACCATGCTAGAGTCCCTCATTGCAGACAAA
AGTGGTTCCAAGAAAACCTTGAGAAGTAGCCTTGAGGGGGCCACCATATTGGACATAGAAAAATTTTCATCGAGAG
TCATTCTTCTACACTCACTTGATAAAATTTTCAGTGAAACGCTGCAGCAGTGTGTGACCTTTTCGAGCTGTGGTTC
CGAGAGTTCTTCTGAGCTGACCATGGGCAGGAGGATCCAGTTCCCCATTGAGATGTGATGCCCTGGATCCTG
ACGGACCACATCCTGGAGACCAAGGAGGCATCGATGATGGAGTACGTGCTCTACTCCCTGGACCTGTACAATGAC
AGCGCCCACTACGCGCTCACCAGGTTCAACAAGCAGTTTCTGTACGACGAAATTGAGGCCGAGGTGAATCTATGT
TTTGACCAATTTGTTTACAAGCTAGCAGACCAGATATTTGCCTATTATAAGGTTATGGCAGGAAGTTTGCTTCTT
GATAAACGGTTACGATCAGAATGCAAGAATCAGGGAGCCACGATCCACCTCCCGCCGTCTAACCGCTACGAGACG
CTGCTGAAGCAGAGGCATGTGCAGCTCCTCGGCAGATCAATAGACCTCAATCGTCTGATCACCCAGCGCGTCTCA
GCAGCCATGTATAAGTCCCTAGAACTGGCGATTGGACGATTTGAAAGTGAAGATTTGACCTCCATAGTTGAGCTG
GATGGCCTGTTGGAAATCAACCGCATGACCCACAAGCTGCTGAGCCGGTACCTGACGCTGGACGGCTTCGACGCC
ATGTTCCGGGAGGCCAACCACAACGTGTACGCGCCCTACGGGAGGATCACCTGCACGTCTTCTGGGAGCTCAAC
TATGACTTCCTGCCCACTACTGCTACAACGGCTCTACCAACCGGTTTGTTCGGACAGTGTTACCATTTTCTCAG
GAATTTCAAAGAGATAAGCAGCCTAATGCACAGCCTCAGTATCTGCATGGATCCAAGGCTTTGAACTTGGCCTAC
TCCAGCATTTACGGCAGCTACCGGAACCTTCGTGGGACCTCCACACTTTCAAGTCATCTGCCGGCTTCTCGGCTAC
CAGGTATCGCCGTGGTTCATGGAGGAGCTGCTGAAGGTCGTCAAGAGCCTGCTGCAAGGCACAATCCTGCAGTAC
GTGAAGACGCTGATGGAGGTGATGCCAAGATCTGCCGCTGCCCGGCACGAGTACGGCTCTCCTGGTATCCTG
GAGTTCTTCCACCACCAGCTGAAGGACATCGTGGAGTACGAGAGXCTGAAGACGGTGTGCTTCCAGAACCTGCG
GGAGGTGGGGAACGCCATCCTCTTCTGCCTGCTCATCGAGCAGAGCCTGTCTTTAGAAGAAGTGTGTGACCTGCT
GCACGCGGCTCCTTTCCAGAACATCTTGCCGCGAGTCCATGTGAAAGAGGGGGAGAGACTTGATGCCAAAATGAA
AAGACTAGAATCAAAGTACGCCCCGCTGCATCTTGTCCCACTGATTGAAAGACTGGGGACCCCTCAGCAAAATGC
CATCGCAAGAGAGGGGGACCTGCTGACAAAGGAGCGCCTCTGCTGCGGCCTGTCCATGTTTTGAGGTTCATCTGAC
ACGGATCCGGAGCTTCTGGATGACCCCATCTGGCGCGGGCCTCTGCCAGCAATGGGGTCATGCATGTGGACGA
GTGTGTGGAGTTTTCACAGACTGTGGAGTGCCATGCAGTTTGTCTACTGCATTCCCGTGGGGACACACGAGTTTAC
AGTCGAGCAGTGCTTTGGTGTATGGGCTACACTGGGCTGGCTGTATGATCATCGTACTTCTTGGGCAGCAGCGCGG
TTTTGCTGTGCTGGATTTCTGCTACCATCTACTTAAAGTCCAGAAACATGATGGCAAAGATGAGATTATTA AAAA

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FIGURE 4125B

TGTGCCCTTTGAAGAAGATGGTGGAGAGAATTCGCAAGTTCCAGATTCTCAATGATGAGATCATCACCATCCTGGA
TAAGTACCTGAAGTCAGGCGACGGGGAGGGCACGCCAGTGGAGCATGTGCGCTGCTTCCAGCCGCCCATCCACCA
GTCCCTCGCCAGCAGCTGAGGGCACGCGCTGCACTCCGTAACTCAACATGGCATGCCTTTCTCTCCGTAAACTAT
TTAGTGAGATTTTATAGGACTATTTTTCAGTATCTCTGTACCTGTAAAGGGGGTGCTTTTCGATCTAAAACTT
AATTTTATAAAATTGACTTATTTTCTAGACTAAAATTGTATATGCTTTTGGTAATTAGGAACCTCTTGAGAATAT
TGGCTGCTGATTGTTGCCATCACGTTCCCTACAAAATTGTTTTTCTATGGGATGTTCTGGCAGCTGTGTCATAAAA
TGCTGCTGGGTTCAATTCATTCCATAAGAACTTAATACCAGCAAATGCATTAAATCCCTTGCCAGTTACCA
TTAACTGTAACTATTTAGCTTTTGTTTAGGGATCTTTCTGATGGICTTTTATGAGCAATCTTAGTTCTAAGTCAT
TGTCCCATCCCTTTTTTGTGTGTTTCAGAAAATAGTGAACCTTGATTCCCCTGCTTCCACTAAATCCAGTTGTGA
CAAAATCTAACGTGACATCAGATCGAAAAGTTATAGAAATAAACTAATGAGATCT

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FIGURE 4126

MQIELARYIKTSAHYEENKSRWTCTSSGSSPQYNICEQMIQIREDHMRFISELARYSNSEVVVTGSGRQEAQKTD
EYRKLFDLALQGLQLLSQWSAHVMEVYSWKLVHPTDKYSNKDCPDSAEEYERATRYNYTSEEKFAIVEVIAMIKG
LQVLMGRMESVFNHAI RHTVYAALQDFSQVTLREPLRQAIAKKKNVQSVLQAIKRTVCDWETGHEPFNDPALRG
EKDPKSGFDIKVPRRAVGPSSTQLYMVRTMLES LIADKSGSKKTLRSSLEGPTILDIEKFHRESFFYTHLINFSE
TLQQCCDLSQLWFREFFLELTMGRRIQFPIEMSMPWILTDHILETKEASMMEYVLYSLDLYNDSAHYALTRFNKQ
FLYDEIEAEVNLCFDQFVYKLADQIFAYYKVMAGSLLLDKRLRSECKNQGATIHLPSPNRYETLLKQRHVQLLGR
SIDLNRLITQVSAAMYKSLELAIGRFESDLTSIVELDGLLEINRMTHKLLSRYLTLDGFDAMFREANHNVSAP
YGRITLHVFWELNYDFLPNYCYNGSTNRFVRTVLPFSQEFQRDKQPNAQPQYLHGSKALNLAYSSIIYGSYRNFVG
PPHFQVICRLLGYQGIAVVMEELLKVVKSLQGTILQYVKTLMVMPKICRLPRHEYGSPGILEFFHHQLKDIVE
YAEKTVCFQNLREVGNAILFCLLIEQSLSLEEVCDLLHAAPFQNILPRVHVKEGERLDAKMKRLESKYAPLHLV
PLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILTRIRSFLDDPIWRGPLPSNGVMHVDECVEFHRLWSAMQ
FVYCIPVGTHEFTVEQCFCGDLHWAGCMIIVLLGQQRRAVLDFCYHLLKVQKHDGKDEIIKNVPLKKMVERIRK
FQILNDEIITILDKYLKSGDGEGTPVEHVRCFQPPIHQSLASS

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FIGURE 4127

GATCTGTTTGAGGAGATGGTGCCTGTGTCAGTGTGGCAGTCTTTGGCTGCCTGTGATCAGAGGAAAGCCGATTTG
TTAACAGATCAATTGCTCAGATGAGAGAAGCCACCACTTTGGCAAATGGAGTGCTAGCTTCCCTTAATCTTCCAG
CAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCAGTCTATATTGACTAAATCAAGATCTGTGATTGAACAGG
GAGGCATCCAGACTGTTGATCAGTTGACTAAAGAACTGCCTGAATTACTGCAATGAAATAGAGAAATCCTAGATG
AGTCATTAAGGTTTTTGGATGAAGAAGAAGCAACCGATAATGATTTATGAGCAAAATTTAAGGAACGCTGGCAAA
GGACATCATCCAATGAACTGTATAAGCCTTTAAAAGCAGAGGGAACCAGCTTCAGAACAGTTTTAGATAAAGCTG
TGCAAGCAGATGGACACGTGAAAGAATGTTACCCGTCCTCATCGTGACCCCATCGTGCTTTTGTGTAAGCCAGAGC
CTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGCAAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAA
AATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATT
TTGACATGACAAGCAAGTTTTTGGACAGCCCTGGCTCAAGATGGCATGATAAATGAAGAAGCTCTTCTGTTACTG
AACTAGATCGAGTCTATGGAGGTCTTACAACCTAAAGTCCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAA
ATATTCAGGTCTCACATCAGGAATTTTCGAAAATGAAGCAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTT
TGAAGAATTTAGCTACTGCATGTGACAACTTTGTTGAACTTGTAGCTAATTCGAAGGAAGGCACAAAGTTTTACA
ATGAGTTGACTGAAATCCTGGTCAGGTTCCAGAACAAATGCAGCGATATAGTTTTTGGCATGGAAGACAGAAAGAG
ATGAACTCTTAAAGGCCTGAGACCTGGGAGGAAGCTGGAGAAAAGATGCCCTCTGAATCTTTGTGTTTGGCTGCC
CAGGCTCGCCTTGACACC

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FIGURE 4128

MQGSEVVNVLKSLLSNLDEVKKEREGLNDLKSVNFDMTSKFLTALAQDGMINEEALSVTELD R VYGG L TTKVQE
SLKKQEGLLKNIQVSHQEF SKMKQSNNEANLREEVLK NLATA CDNFVELVANSKEG TKFYNELTEILVR FQNKCS
DIVLAWKTERDELLKA

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FIGURE 4129

CCCCCAGTGTGAACGATCCCGGGAACATGTCCCTTTGTGAAGGAGACGGTGGACAAGCTGTTGAAAGGCTACGACA
TTCGCCTAAGACCCGACTTCGGGGGTCCCCGGTCTGCGTGGGGATGAACATCGACATCGCCAGCATCGACATGG
TTTCCGAAGTCAACATGGATTATACCTTAACCATGTATTTTCAACAATATTGGAGAGATAAAAGGCTCGCCTATT
CTGGGATCCCTCTCAACCTCACGCTTGACAATCGAGTGGCTGACCAGCTATGGGTGCCCCGACACATATTTCTTAA
ATGACAAAAAGTCATTTGTGTCATGGAGTGACAGTGAAAAACCGCATGATCCGTCCTTACCCTGATGGGACAGTGC
TGTATGGGCTCAGAAATCACCACGACAGCAGCATGCATGATGGACCTCAGGAGATACCCCCTGGACGAGCAGAACT
GCACTCTGAAAATTGAAAGCTATGGCTACACCACGGATGACATTGAGTTTTACTGGCGAGGCGGGGACAAGGCTG
TTACCGGAGTGAAAAGGATTGAGCTCCCGCAGTTCTCCATCGTGGAGCACCGTCTGGTCTCGAGGAATGTTGTCT
TCGCCACAGGTGCCTATCCTCGACTGTCACTGAGCTTTTCGGTTGAAGAGGAACATTGGATACTTCATTCTTCAGA
CTTATATGCCCTCTATACTGATAACGATTCTGTCTGTTGGGTGTCTTCTGGATCAATTATGATGCATCTGCTGCTA
GAGTTGCCCTCGGGATCACAACCTGTGCTGACAATGACAACCATCAACACCCACCTTCGGGAGACCTTGCCCCAAA
TCCCCTATGTCAAAGCCATTGACATGTACCTTATGGGCTGCTTCGTCTTTGTGTTCCCTGGCCCTTCTGGAGTATG
CCTTTGTCAACTACATTTTCTTTGGAAGAGGCCCTCAAAGGCAGAGAAGCTTGCAGAAAAGACAGCCAAGGCAA
AGAATGACCGTTCAAAGAGCGAAAGCAACCGGGTGGATGCTCATGGAAATATTCTGTTGACATCGCTGGAAGTTC
ACAATGAAATGAATGAGGTCTCAGGCGGCATTGGCGATACCAGGAATTCAGCAATATCCTTTGACAACCTCAGGAA
TCCAGTACAGGAAACAGAGCATGCCTCGAGAAGGGCATGGGCGATTCTGGGGGACAGAAGCCTCCCGCACAAGA
AGACCCATCTACGGAGGAGGTCTTCACAGCTCAAAATTAAATACCTGATCTAACCGATGTGAATGCCATAGACA
GATGGTCCAGGATCGTGTTTCCATTCACTTTTTCTCTTTTCAACTTAGTTTACTGGCTGTACTATGTTAACTGAG
TGACTGTACTTGATTTTTCAAAGACTTCATTTAACACTGAGTGAAATATTACTCTGCCTGTCAAGTTTTTATACC
TGTACACACACAGACACACAAGCAGACACACACATATATACATACGCAATTGTATATATATGTGAACTTTCTCAG
CATATATAT

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FIGURE 4130

GAGCAGTGTGAAGAAGAGGCGAGAACGACCCCCGGACCGACCAAAGCCCGCGTCGCCACCGCCACCATGCCCAAG
AGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGGACGAACCACAGAGAAGATCCGCGAGGTTG
TCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCCAAGCCTAAAAAGGCCCTGCAAAGAAGGGAGAGAAGGTACCC
AAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGGAATAACCCTGCAGAAAATGGAGATGCCAAAACAGAC
CAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTTGTCATTTTTGATAACTGTGTATTTCTGGTG
ACTGTACAGTTTGAAATACTTTTATCAAGTTTTATAAAAATGCAGAATTTTGTTTTACTTTTTTTTTTTTTTTTTT
TAAGCTATGTTGTTTCGCACACAGAACACTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCACTAATAGAATGT
CTCCAAAACCTGGATTGATGTGGAGAAAACACCTTTCCCTTCCAGTTTTGAGAGACTTCCTCTTGGCTCCCAGGAG
GAGGGATTCCCTTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGCTATGGAAAACTCCCTTAAGC
CCAGACATCTGTTGAGACCTGACCCCTAGTCATTGGTTACCAGTGTGTCAGGCAATCTGGACTTT

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FIGURE 4131

MPKRKAEGD TKRDKAKVKDEPQRRSVRLSAKPAPPKPEPKPKKAPAKKGEKVPKGKKGKADAGEEGNNPAENGVA
KTDQAQKAESPGDAK

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FIGURE 4132

GGCGAGAACGACCCCCGGACCGACCAAAGCCCCGCGTGCCGCTGCATCCCACGTCCAGCACCTACGTCCTGTCGCC
ACCGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGGACGAACCACAG
AGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCTGCAAAG
AAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATTCTTGACTTTGACACA
CATGGCCACCTTGGCACAAAAGCCTTGTGCTATGGAAAAACAAATTTGTTTTTATGTCCTCTTCTCCCTTTCCAC
GTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGAGACCTGACCCCTAGTCATTGGTTACCAAGTGT
GTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAGAGCAGTGGTTCCATTTCTAGAT
TGTGGATCTTCAGATAAATTTCTGCCATTTTCGTTTCACTTCCTGAAAGTCAGGGTTGGCTTGTGAAAAGTTGTTA
AACAACATGCTAAATGTGAAATGTCAACCCTCACTCTCAACTTTCCCTGTTTCAGAGCATCAGATGAAGACTTCAT
TGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTAA
CGATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 4133

TTACTACTGATGTGAACAGATTCTGACCTTTGGCTGCCTAGTTGTTTTTGATAAATTAACCTTTAGAATAATGAT
GAATGTCTTGGCCGTTCCCTCAAAAACCTTTGGCTGTTTGCAGCAGATGATGGATGTCTAGAAAACACCCCTGACA
CTGCAGAGTTTCAGTCGAGAGTTCCAGTTGCACCAGCATCTCTTTGATCCGGAACATGACTATCCAGGCTTGGGCA
AGTGGAACAAGAACTCCTTTACGAGAAGATGAAGGGAGGAGAGAGACGAAAGCGGAGGAGTGTCAATCCATATC
TACAAGGACAGAGACTGGATAATGTTGTTGCAAAGAAGTCTGTCCCCCATTTTTTCAGATGAGGATAAGGATCCAG
AGTAAAGAGAAGATGCTAGACGAAAACCCACATTACCTGTTAGGCCTCAGCATGGCTTATGTGCACGTGTAAATG
GAGTCCCTGTGAATGACAGCATGTTTCTTACATAGATAATTATGGATACAAAGCAGCTGTATGTAGATAGTGTAT
TGTCTTCACACCGATGATTCTGCTTTTTTGCTAAATTAGAATAAGAGCTTTTTTGTTTCTTGGGTTTTTAAAATGT
GAATCTGCAATGATCATAAAAATTAAAATGTGAATGTCAACAATAAAAAGCAAGACTATGAAAGGCTCAGATTC
TTGCAGTTTTAAAATGGTGTCTGAGGTTGTACTATTTTGGCCAAGTCTGTAGAAAGCTGTCAITTTGATTTTGATTA
TGTAAGTTCATCCAGCCCTTGGGCATTGTTATACACCAGTAAAGAAGGCTGTACTCAAGAGGAGGAGCTGACACAT
TTCACCTTGGCTGCGTCTTAATAAACATGAATGCAAGCATTGG

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FIGURE 4134A

GCGGCCGCACTCAGCGCCACGCGTCGAAAGCGCAGGCCCGGAGACCCGCCGCACTGACAGTATGAGCCGCACAG
CCTACACGGTGGGAGCCCTGCTTCTCCTCTTTGGGGACCCCTGCTGCCGGCTGCTGAAGGGAAAAAGAAAGGGTCCC
AAGGTGCCATCCCCCGCCAGACAAGGCCAGCACAATGACTCAGAGCAGACTCAGTCGCCCCAGCAGCCTGGCT
CCAGGAACCGGGGGCGGGGCCAAGGGCGGGGCACTGCCATGCCCGGGGAGGAGGTGCTGGAGTCCAGCCAAGAGG
CCCTGCATGTGACGGAGCGCAAATACCTGAAGCGAGACTGGTGCAAAACCCAGCCGCTTAAGCAGACCATCCACG
AGGAAGGCTGCAACAGTCGCACCATCATCAACCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGC
ACATCCGGAAGGAGGAAGGTTCCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCCTACCATGATGGTCA
CACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTCCACAGTGTGAAGCAGTGTGCTTGCATAT
CCATCGATTTGGATTAAAGCCAAATCCAGGTGCACCCAGCATGTCTAGGAATGCAGCCCCAGGAAGTCCCAGACC
TAAACAACCCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAAGAACCCCGAGCTGCCTCCTGGCAGGAGCCTG
CTTGTGCGTAGTTCTGTGTCATGAGTGTGGATGGGTGCCTGTGGGTGTTTTTAGACACCAGAGAAAAACACAGTCT
CTGCTAGAGAGCACTCCCTATTTTGTAAACATATCTGCTTTAATGGGGATGTACCAGAAACCCACCTCACCCCGG
CTCACATCTAAAGGGGCGGGGCCGTGGTCTGGTCTGACTTTGTGTTTTTGTGCCCTCCTGGGGACCAGAACTCTC
CTTTCGGAATGAATGTTTCATGGAAGAGGCTCCTCTGAGGGCAAGAGACCTGTTTTAGTGCTGCATTGCACATGGA
AAAGTCCTTTTAACTGTGCTTGCATCCTCCTTTCTCCTCCTCCTCACAATCCATCTCTTCTTAAAGTTGATAGT
GACTATGTCAGTCTAATCTCTTGTGTTTGCAGGTTTCTAAATTAATTCACCTAACCATGATGCAATGTTTTTCA
TTTTGTGAAGACCCCTCCAGACTCTGGGAGAGGCTGGTGTGGGCAAGGACAAGCAGGATAGTGGAGTGAGAAAGGG
AGGGTGGAGGGTGAGGCCAAATCAGGTCCAGCAAAAGTCAGTAGGGACATTGCAGAAGCTTGAAAGGCCAATACC
AGAACACAGGCTGATGCTTCTGAGAAAGTCTTTTCTAGTATTTAACAGAACCCAAGTGAACAGAGAGAGAAATGA
GATTGCCAGAAAGTGATTAACCTTTGGCCGTTGCAATCTGCTCAAACCTAACACCAAAGTGAACATAAAATACTG
ACCACTCCTATGTTTCGGACCCAAGCAAGTTAGCTAAACCAAACCAACTCCTCTGCTTTGTCCCTCAGGTGGAAAA
GAGAGGTAGTTTGAAGTCTCTGTCATAGGGGTGGGAATTAATCAAAAACCTCAGAGGCTGAAATTCCTAATACCT
TTCCTTTATCGTGTTATAGTCAGCTCATTTCCATTCCACTATTTCCCATAATGCTTCTGAGAGCCACTAACTTG
ATTGATAAAGATCCTGCCTCTGCTGAGTGTACCTGACAGTAGTCTAAGATGAGAGAGTTTAGGGACTACTCTGTT
TTAGCAAGAGATATTTTGGGGGTCTTTTTGTTTTTAACTATTGTCAGGAGATTGGGCTAAAGAGAAGACGACGAGA
GTAAGGAAATAAAGGGAATTGCCTCTGGCTAGAGAGTAGTTAGGTGTTAATACCTGGTAGAGATGTAAGGGATAT
GACCTCCCTTTCTTTATGTGCTCACTGAGGATCTGAGGGGACCCGTGTTAGGAGAGCATAGCATCATGATGTATTA
GCTGTTTCATCTGCTACTGTTGGATGGACATAACTATTGTAACCTATTGAGTATTTACTGGTAGGCACTGTCTCT
GATTAAACTTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGCCAAAGTGCAGGGTGGGTGAACTTTAT
TGTACTTTGGATTGTTAACCTGTTTTCTTCAAGCCTGAGGTTTTATATACAACTCCCTGAATACTCTTTTTTG
CCTTGTAICTTTCTCAGCCTCCTAGCCAAGTCTATGTAATATGGAAAACAAACACTGCAGACTTGAGATTCAGTT
GCCGATCAAGGCTCTGGCATTAGAGAACCCCTTGCAACTCGAGAAGCTGTTTTTATTTCTGTTTTTGTGTTTGATCC
AGTGCTCTCCCATCTAACAATAACAGGAGCCATTTCAAGGCGGGAGATATTTTAAACACCCAAAATGTTGGGT
CTGATTTTCAAACCTTTTAACTCACTACTGATGATTCTCACGCTAGGCGAATTTGTCCAAACACATAGTGTGTGT
GTTTTGTATACACTGTATGACCCACCCCAATCTTTGTATTGTCCACATTCTCCAACAATAAAGCACAGAGTGG
ATTTAATTAAGCACACAAATGCTAAGGCAGAATTTTGAGGGTGGGAGAGAAGAAAAGGGAAAGAAGCTGAAAATG
TAAACCACACCAGGGAGGAAAAATGACATTGAGAACAGCAAAACACTGAATTTCTCTTGTGTTTTTAACTCTGC
CACAAGAATGCAATTTCTGTTAACGGAGATGACTTAAGTTGGCAGCAGTAATCTTCTTTTAGGAGCTTGTACCACA
GTCTTGCACATAAGTGCAGATTTGGCTCAAGTAAAGAGAATTTCTCAACACTAACTTCACTGGGATAATCAGCA
GCGTAACTACCCTAAAAGCATATCACTAGCCAAAGAGGGAAATATCTGTTCTTCTTACTGTGCCTATATTAAGAC
TAGTACAAATGTGGTGTGCTTCCAACTTTTCATTGAAAATGCCATATCTATACCATATTTTATTTCGAGTCACTGA
TGATGTAATGATATATTTTTTCATTATTATAGTAGAATATTTTATGGCAAGATATTTGTGGTCTTGATCATACC
TATTAAAATAATGCCAAACACCAATATGAATTTTATGATGTACACTTTGTGCTTGGCATTAAAGAAAAAACA
CACATCCTGGAAGTCTGTAAGTTGTTTTTGTGTTACTGTAGGTCTTCAAAGTTAAGAGTGAAGTGAAGAAATCTGG
AGGAGAGGATAATTTCCACTGTGTGGAATGTGAATAGTTAAATGAAAAGTTATGGTTATTTAATGTAATTATTAC
TTCAAATCCTTTGGTCACTGTGATTTCAAGCATGTTTTCTTTTTCTCCTTTATATGACTTTCTCTGAGTTGGGCA
AAGAAGAAGCTGACACACCGTATGTTGTTAGAGTCTTTTATCTGGTCAGGGGAAACAAAATCTTGACCCAGCTGA
ACATGTCTTCTGAGTCAGTGCCTGAATCTTTATTTTTTAAATTGAATGTTCTTAAAGGTTAACATTTCTAAAG

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FIGURE 4134B

CAATATTAAGAAAGACTTTAAATGTTATTTTGGGAAGACTTACGATGCATGTATACAAACGAATAGCAGATAATGA
TGACTAGTTCACACATAAAGTCCTTTTAAGGAGAAAATCTAAAATGAAAAGTGGATAAACAGAACATTTATAAGT
GATCAGTTAATGCCTAAGAGTGAAAGTAGTTCTATTGACATTCCTCAAGATATTTAATATCAACTGCATTATGTA
TTATGTCTGCTTAAATCATTTAAAAACGGCAAAGAATTATATAGACTATGAGGTACCTTGCTGTGTAGGAGGATG
AAAGGGGAGTTGATAGTCTCATAAACTAATTTGGCTTCAAGTTTCATGAATCTGTAAC TAGAATTTAATTTTCA
CCCCAATAATGTTCTATATAGCCTTTGCTAAAGAGCAACTAATAAATTAAACCTATTCTTTC

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FIGURE 4135

CTTTCTGTGCCGATAACGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCGCCGGACTTTCTGTAAGAAGTGTG
GCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTATGCCAGGGAAAGCGGCGTT
ATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACCTAAGCCAATTTTCTGGAAAAAGGCTAAACTACAAAGATTG
TGCTAAGGCTTGAGTGCATTGAGCCCAACTGCAGATCTAAGAGAATGCTGGCTATTAAAAGATGCAAGCATTTTG
AACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATTGAGTTCTAAGTGTCATCTTTTATTATGAAGACAATAA
AATCTTGAGTTTATGTTC

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FIGURE 4136

AGGAGGAGGAGGAAGATCAGGAGGAGGAGGAAGAAGAGGAAAAAGAGAAAAAGAAGAAATATCACAGAAAAAA
AATTCTTCGTTGTCTAGACTGGGCTTTTTTCCCCCTAAAAAATAGCATATTGGAGAATTGGGAGAAGTCTCTT
TGGTTTGAAAAAAGGAATCTTCAGCCTAGATCACTTTCTTATCCGGACTGGGATATTAAATATACGAC
ACATCCAGGAGTTTATTGGAGCGCAGACTGATGGCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGAC
GGAGTAGGGGTTCCCGCTTCCATGTACGGAGACCCTCACGCGCCGCGGCCGATCCCCCGGTTACCCACCTGAAC
CACGGGCCCGCGCTCCACGCCACACAGCACTACGGCGCGCACGCCCCGCACCCCAATGTCATGCCGGCCAGTATG
GGATCCGCTGTCAACGACGCCTTGAAGCGGGACAAGGACGCGATCTATGGGCACCCGTTGTTTCTCTGTTAGCT
CTGGTCTTTGAGAAGTGCAGCTGGCGACCTGCACTCCCCGGGAACCTGGAGTGGCTGGCGGAGACGTCTGCTCC
TCCGACTCCTTCAACGAGGACATCGCGGTCTTCGCCAAGCAGGTTTCGCGCCGAAAAGCCACTTTTTTCTCAAAT
CCAGAGCTGGACAATTTGATGATACAAGCAATACAAGTACTAAGGTTTCATCTTTTGGAGTTAGAAAAGGTCCAC
GAACTGTGCGATAACTTCTGCCACCGATACATTAGCTGTTTGAAGGGGAAAATGCCCATCGACCTCGTCATTGAT
GAAAGAGACGGCAGCTCCAAGTCAGATCATGAAGAACTTTCAGGCTCCTCCACAAATCTCGCTGACCATAACCCT
TCTTCTTGGCGAGACCACGATGATGCAACCTCAACCCACTCAGCAGGCACCCCAGGGCCCTCCAGTGGGGGCCAT
GCTTCCCAGAGCGGAGACAACAGCAGTGAGCAAGGGGATGTTTTAGACAACAGTGTAGCTTACCTGGTACAGGT
GACGATGATGATCCGGATAAGGACAAAAACGCCAGAAGAAAAGAGGCATTTTCCCCAAAGTAGCAACAAATATC
ATGAGAGCATGGCTCTTCCAGCATCTCACAGTTTATTAATGCCAGAAGAAGAATAGTACAGCCCATGATTGACCA
GTCAAATCGAGCAGTGAGCCAAGGAGCAGCATATAGTCCAGAGGTCAGCCCATGGGGAGCTTTGTGTTGGATGG
TCAGCAACACATGGGGATCCGGCCTGCAGGACCTATGAGTGGAATGGGCATGAATATGGGCATGGATGGGCAATG
GCACTACATGTAACCTTCATCATGTAAAGCAATCGCAAAGCAAGGGGGAAGTTTGCAGAGCATGCCAGGGGACTA
CGTTTTCTCAGGGTGGTCTATGGGAATGAGTATGGCACAGCCAAGTTACACTCCTCCCAGATGACCCACACCC
TACTCAATTAAGACATGGACCCCAATGCATTTCATATTTGCCAAGCCATCCCCACCACCCAGCCATGATGATGCA
CGGAGGACCCCTACCCACCTGGAATGACTATGTACGACAGAGCCCCACAATGTTAAATTCTGTAGATCCCAA
TGTTGGCGGACAGGTTATGGACATTCATGCCCAATAGTATAAGGGAACCTCAAGGGAAAAGGAAACACACGCAAAA
ACTATTTTAAGACTTTCTGAACCTTTGACCAGATGTTGACACTTAATATGAAATTCCAGACAGCTGTGATTATTTT
TTACTTTTGTCAATTTTTCATCAAGCAACAGAGGACCAATGCAACAAGAACACAAATGTGAAATCATGGGCTGACT
GAGACAATTCTGTCCATGTAAAGATCCTCTGGAAAAAGACTCCGAGAGTTATAACTACTGTAGTATAAATATAGG
AACTAAGTTAACTTGTACATTTCTGTTGATCACGCCGTTATGTTGCCTCAAATAGTTTTAGAAGAGAAAAAAA
ATATATCCTTGTTTTCCACACTATGTGTGTTGTTCCCAAAGAATGACTGTTTTGGTTCATCAGTGAATTCACCA
TCCAGGAGAGACTGTGGTATATATTTTAAACCTGTTGGGCCAATGAGAAAAGAACCACACTGGAGATCATGATGA
ACTTTTGGCTGAACCTCATCACTCGAACTCCAGCTTCAGAATGTGTTTTTCATGCCCGGCCTTTGTTTCTCCATAA
ATGTGTCCTTTAGTTTCAAACAGATCTTTATAGTTTCGTGCTTCATAAGCCAATTCTTATTATTATTTTGGGGGA
CTCTTCTTCAAAGAGCTTGCCAATGAAGATTTAAAGACAGAGCAGGAGCTTCTTCCAGGAGTTCTGAGCCTTGGT
TGTGGACAAAACAATCTTAAGTTGGGCAGCTTTTCTCAACACAAAAAAGTTATTAATGGTCATTGAACCATAA
CTAGGACTTTATCAGAACTCAAAGCTTGGGGGATAAAAAGGAGCAAGAGAATACTGTAACAACTTCGTACAGA
GTTTCGGTCTATTAATTGTTTCATGTTAGATATTCTATGTGTTTACCTCAATTGAAAAAAAAGAATGTTTTTGC
TAGTATCAGATCTGCTGTGGAATTGGTATTGTATGTCCATGAATTCTTCTTTTCTCAGCACGTGTTCTCTACTAG
AAGAAAATGCTGTTACCTTTAAGCTTTGTCAAATTTACATTAAAATACTTGTATGAGGACTGTGACGTTATGTT

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FIGURE 4137

MAQRYDELPHYGGMDGVGPASMYGDPHAPRPVHHLNHGPPLHATQHYGAHAPHNPVMPASMGSAVNDALKR
DKDAIYGHPLFPLALVFEEKCELATCTPREPGVAGGDVCSSDSFNEDIAVFAKQVRAEKPLESSNPELDNLMQA
IQVLRFHLLLEKVELCDNFCHRYISCLKGKMPIDLVIDERDGSSEELSGSSTNLADHNPSSWRDHDDAT
STHSAGTPGPSSGGHASQSGDNSSEQDGLDNSVASPGTGDDDDPKDKKRQKKRGIFPKVATNIMRAWLFQHLT
VY

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FIGURE 4138A

GGACGCACAGGCATTCCCCGCGCCCCCTCCAGCCCTCGCCGCCCTCGCCACCGCTCCCGGCCGCCGCGCTCCGGTA
CACACAGGATCCCCTGCTGGGCACCAACAGCTCCACCATGGGGCTGGCCTGGGGACTAGGCGTCTGTTCCCTGATG
CATGTGTGTGGCACCACCGCATTCCAGAGTCTGGCGGAGACAACAGCGTGTGTTGACATCTTTGAACTCACCGGG
GCCGCCCGCAAGGGGTCTGGGCGCCGACTGGTGAAGGGCCCCGACCCTTCCAGCCCAGCTTTCCGCATCGAGGAT
GCCAACCTGATCCCCCTGTGCCTGATGACAAGTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTC
CTCCTTCTGGCATCCCTGAGGCAGATGAAGAAGACCCGGGGCAGCTGCTGGCCCTGGAGCGGAAAGACCACTCT
GGCCAGGTCTTCAGCGTGGTGTCCAATGGCAAGGCGGGCACCCTGGACCTCAGCCTGACCGTCCAAGGAAAGCAG
CACGTGGTGTCTGTGGAAGAAGCTCTCCTGGCAACCGGCCAGTGAAGAGCATCACCTGTTTGTGCAGGAAGAC
AGGGCCCAGCTGTACATCGACTGTGAAAAGATGGAGAATGCTGAGTTGGACGTCCCCATCCAAAGCGTCTTCACC
AGAGACCTGGCCAGCATCGCCAGACTCCGCATCGCAAAGGGGGGCGTCAATGACAATTTCCAGGGGGTGTGCAG
AATGTGAGGTTTGTCTTTGGAACACACCAGAAGACATCCTCAGGAACAAAGGCTGCTCCAGCTCTACCAGTGT
CTCCTCACCTTTGACAACAACGTGGTGAATGGTTCCAGCCCTGCCATCCGCACTAACTACATTGGCCACAAGACA
AAGGACTTGCAAGCCATCTGCGGCATCTCCTGTGATGAGCTGTCCAGCATGGTCTTGGAATCAGGGGCCCTGCGC
ACCATTGTGACCAGCTGCAGGACAGCATCCGCAAAGTGACTGAAGAGAACAAGAGTTGGCCAATGAGCTGAGG
CGGCCTCCCCTATGCTATCACAACGGAGTTCAGTACAGAAATAACGAGGAATGGACTGTTGATAGCTGCACTGAG
TGTCAGTGTGAGAACTCAGTTACCATCTGCAAAAAGGTGTCTGCCCATCATGCCCTGCTCCAATGCCACAGTT
CCTGATGGAGAATGCTGTCTCGCTGTTGGCCCAGCGACTCTGCGGACGATGGCTGGTCTCCATGGTCCGAGTGG
ACCTCCTGTTCTACGAGCTGTGGCAATGGAATTCAGCAGCGCGGCCGCTCCTGCGATAGCCTCAACAACCGATGT
GAGGGCTCCTCGGTCCAGACACGGACCTGCCACATTCAGGAGTGTGACAAGAGATTTAAACAGGATGGTGGCTGG
AGCCACTGGTCCCCGTGGTCATCTTGTCTGTGACATGTGGTGTGATGATGACAAGGATCCGGCTCTGCAAC
TCTCCCAGCCCCCAGATGAACGGGAAACCTGTGAAGGCGAAGCGCGGGAGACCAAAGCCTGCAAGAAAGACGCC
TGCCCCATCAATGGAGGCTGGGGTCTTGGTCAACATGGGACATCTGTTCTGTACCTGTGGAGGAGGGGTACAG
AAACGTAGTCTGCTCTGCAACAACCCACACCCAGTTTGGAGGCAAGGACTGCGTTGGTGTGTAACAGAAAAC
CAGATCTGCAACAAGCAGGACTGTCCAATTGATGGATGCCTGTCCAATCCCTGCTTTGCCGGCGTGAAGTGTACT
AGCTACCCTGATGGCAGCTGGAAATGTGGTGTCTGTCCCCCTGGTTACAGTGGAAATGGCATCCAGTGCACAGAT
GTTGATGAGTGCAGAAGAGTGCCTGATGCCTGCTTCAACCACAATGGAGAGCACCGGTGTGAGAACACGGACCCC
GGCTACAACCTGCCTGCCCTGCCCCCACGCTTACCGGCTCACAGCCCTTCGGCCAGGGTGTGCAACATGCCACG
GCCAACAACAGGTGTGCAAGCCCCGTAACCCCTGCACGGATGGGACCCACGACTGCAACAAGAAGCCAAAGTGC
AACTACCTGGGCCACTATAGCGACCCCATGTACCGCTGCGAGTGCAAGCCTGGCTACGCTGGCAATGGCATCATC
TGCGGGGAGGACACAGACCTGGATGGCTGGCCCAATGAGAACCTGGTGTGCGTGGCCAATGCGACTTACCCTGC
AAAAAGGATAATTGCCCAACCTTCCCAACTCAGGGCAGGAAGACTATGACAAGGATGGAATTGGTGTGCTGT
GATGATGACGATGACAATGATAAAATCCAGATGACAGGGACAACCTGTCCATTCCATTACAACCCAGCTCAGTAT
GACTATGACAGAGATGATGTGGGAGACCGCTGTGACAACCTGTCCCTACAACCACAACCCAGATCAGGCAGACACA
GACAACAATGGGGAAGGAGACGCTGTGCTGCAGACATTGATGGAGACGGTATCCTCAATGAACGGGACAACCTGC
CAGTACGTCTACAATGTGGACCAGAGAGACACTGATATGGATGGGGTTGGAGATCAGTGTGACAATTGCCCTTG
GAACACAATCCGGATCAGCTGGACTCTGACTCAGACCGCATTGGAGATACCTGTGACAACAATCAGGATATTGAT
GAAGATGGCCACCAGAACAATCTGGACAACCTGTCCCTATGTGCCCAATGCCAACCAGGCTGACCATGACAAAGAT
GGCAAGGGAGATGCCTGTGACCACGATGATGACAACGATGGCATTCTGTGATGACAAGGACAACCTGCAGACTCGTG
CCCAATCCCGACCAGAAGGACTCTGACGGCGATGGTTCGAGGTGATGCCTGCAAAGATGATTTTGACCATGACAGT
GTGCCAGACATCGATGACATCTGTCTGAGAATGTTGACATCAGTGAGACCGATTTCGCCCGATTCCAGATGATT
CCTCTGGACCCCAAAGGGACATCCCAAAATGACCCTAACTGGGTTGTACGCCATCAGGGTAAAGAACTCGTCCAG
ACTGTCAACTGTGATCCTGGACTCGCTGTAGGTTATGATGAGTTTAAATGCTGTGGACTTCAGTGGCACCTTCTTC
ATCAACACCGAAAGGGACGATGACTATGCTGGATTTGTCTTTGGCTACCAGTCCAGCAGCCGCTTTTATGTTGTG
ATGTGGAAGCAAGTCACCCAGTCCCTACTGGGACACCAACCCACGAGGGCTCAGGGATACTCGGGCCTTTCTGTG
AAAGTTGTAACTCCACCACAGGGCCTGGCGAGCACCTGCGGAACGCCCTGTGGCACACAGGAAACACCCCTGGC
CAGGTGCGCACCTGTGGCATGACCCTCGTCACATAGGCTGGAAAGATTTACCGCCTACAGATGGCGTCTCAGC
CACAGGCCAAAGACGGGTTTTCATTAGAGTGGTGTATGTAAGGGAAGAAAATCATGGCTGACTCAGGACCCATC
TATGATAAAACCTATGCTGGTGGTAGACTAGGGTTGTTTGTCTTCTCTCAAGAAATGGTGTCTTCTCTGACCTG

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FIGURE 4138B

AAATACGAATGTAGAGATCCCTAATCATCAAATTGTTGATTGAAAGACTGATCATAAACCAATGCTGGTATTGCA
CCTTCTGGAACTATGGGCTTGAGAAAACCCCCAGGATCACTTCTCCTTGGCTTCCTTCTTTTCTGTGCTTGCATC
AGTGTGGACTCCTAGAACGTGCGACCTGCCTCAAGAAAATGCAGTTTTCAAAAACAGACTCAGCATTGAGCCTCC
AATGAATAAGACATCTTCCAAGCATATAAACAATTGCTTTGGTTTCCTTTTGAAAAAGCATCTACTTGCTTCAGT
TGGGAAGGTGCCCATTCCACTCTGCCTTTGTACAGAGCAGGGTGCTATTGTGAGGCCATCTCTGAGCAGTGGAC
TCAAAAGCATTTTCAGGCATGTCAGAGAAGGGAGGACTCACTAGAATTAGCAAACAAAACCACCCTGACATCCTC
CTTCAGGAACACGGGGAGCAGAGGCCAAAGCACTAAGGGGAGGGCGCATACCCGAGACGATTGTATGAAGAAAAT
ATGGAGGAACTGTTACATGTTCCGTACTAAGTCATTTTCAGGGGATTGAAAGACTATTGCTGGATTTTCATGATGC
TGACTGGCGTTAGCTGATTAACCCATGTAAATAGGCACTTAAATAGAAGCAGGAAAGGGAGACAAAGACTGGCTT
CTGGACTTCCCTCCCTGATCCCCACCCTTACTCATCACCTGCAGTGGCCAGAATTAGGGAATCAGAATCAAACCAG
TGTAAGGCAGTGCTGGCTGCCATTGCCTGGTCACATTGAAATTGGTGGCTTCATTCTAGATGTAGCTTGTGCAGA
TGTAGCAGGAAAAATAGGAAAACCTACCATCTCAGTGAGCACCAGCTGCCTCCCAAAGGAGGGGGCAGCCGTGCTTA
TATTTTTATGGTTACAATGGCACAAAATTATTATCAACCTAACTAAAACATTCTTTTTCTCTTTTTTCTCTGAATT
ATCATGGAGTTTTCTAATTCTCTCTTTTTGGAATGTAGATTTTTTTTTAAATGCTTTACGATGTAAAATATTTATTT
TTTACTTATTCTGGAAGATCTGGCTGAAGGATTATTCATGGAACAGGAAGAAGCGTAAAGACTATCCATGTCATC
TTTGTTGAGAGTCTTCGTGACTGTAAGATTGTAAATACAGATTATTTATTAACCTCTGTTCTGCCTGGAAATTTAG
GCTTCATACGGAAAGTGTGTTGAGAGCAAGTAGTTGACATTTATCAGCAAATCTCTTGCAAGAACAGCACAGGAA
AATCAGTCTAATAAGCTGCTCTGCCCCTTGCTGCTCAGAGTGATGTTATGGGATTCTTTTTTTCTCTGTTTTATC
TTTTCAAGTGGAATTAGTTGGTTATCCATTTGCAAATGTTTTAAATTGCAAAGAAAGCCATGAGGTCTTCAATAC
TGTTTTACCCCATCCCTTGTCATATTTCCAGGGAGAAGGAAAGCATATACACTTTTTTCTTTTCATTTTTCCAAA
AGAGAAAAAAATGACAAAAGGTGAACTTACATACAAATATTACCTCATTTGTTGTGTGACTGAGTAAAGAATTT
TTGGATCAAGCGGAAAGAGTTTAAGTGTCTAACAACTTAAAGCTACTGTAGTACCTAAAAAGTCAGTGTGTAC
ATAGCATAAAAACTCTGCAGAGAAGTA'TTCCCAATAAGGAAATAGCATTGAAATGTTAAATACAATTTCTGAAAG
TTATGTTTTTTTTCTATCATCTGGTATACCATTTGCTTTATTTTTATAAATTATTTTCTCATTGCCATTGGAATAG
ATATCTCAGATTGTGTAGATATGCTATTTAAATAATTTATCAGGAAATACTGCCTGTAGAGTTAGTATTTCTATT
TTTATATAATGTTTGCACACTGAATTGAAGAATTGTTGGTTTTTTTCTTTTTTTTGTGTTTTTTTTTTTTTTTT
TTTTTTGCTTTTGACCTCCCATTTTTTACTATTTGCCAATACCTTTTTCTAGGAATGTGCTTTTTTTTGTACACAT
TTTTATCCATTTTACATTCTAAAGCAGTGTAAGTTGTATATTACTGTTTCTTATGTACAAGGAACAACAATAAAT
CATATGGAAATTTATATTT

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FIGURE 4139A

GTTTGTAGGGAGTCGTGTGCGTGCCCTTGGTCGCTTCTGTAGCTCCGAGGGCAGGTTGCGGAAGAAAAGCCCAGGC
GGTCTGTGGCCCAGAGGAAAGGCCTGCAGCAGGACGAGGACCTGAGCCAGGAATGCAGGATCGCGGCGGTGAAGA
AGGAAGGGGTGCTCTGAGTGAAGCCATGTCCCTGGAGGGAGATGAATGGGAAGTGAAGTAAAGAAAATGTACAAC
CTTTAAGGCAAGGGCGGATCATGTCCACGCTTCAGGGAGCACTGGCACAAGAATCTGCCTGTAAACAATACTCTTC
AGCAGCAGAAACGGGCATTTGAATATGAAATTCGATTTTACACTGGAAATGACCCCTCTGGATGTTTGGGATAGGT
ATATCAGCTGGACAGAGCAGAACTATCCTCAAGGTGGGAAGGAGAGTAATATGTCAACGTTATTAGAAAAGAGCTG
TAGAAGCACTACAAGGAGAAAAACGATATTATAGTGATCCTCGATTTCTCAATCTCTGGCTTAAATTAGGGCGTT
TATGCAATGAGCCTTTGGATATGTACAGTTACTTGCACAACCAAGGGATTGGTGTTCACCTTGCTCAGTTCTATA
TCTCATGGGCAGAAGAATATGAAGCTAGAGAAAACCTTTAGGAAAGCAGATGCGATATTTAGGAAGGGATTCAAC
AGAAGGCTGAACCACTAGAAAGACTACAGTCCAGCACCGACAATTCCAAGCTCGAGTGTCTCGGCAAACTCTGT
TGGCACTTGAGAAAGAAGAAGAGGAGGAAGTTTTTGGAGTCTTCTGTACCACAACGAAGCACACTAGCTGAACATA
AGAGCAAAGGGAAAAAGACAGCAAGAGCTCCAATCATCCGTGTAGGAGGTGCTCTCAAGGCTCCAAGCCAGAACA
GAGGACTCCAAAATCCATTTCTCAACAGATGCAAAAATAATAGTAGAATTACTGTTTTTGATGAAAAATGCTGATG
AGGCTTCTACAGCAGAGTTGTCTAAGCCTACAGTCCAGCCATGGATAGCACCCCCCATGCCCAGGGCCAAAGAGA
ATGAGCTGCAAGCAGGCCCTTGGAACACAGGCAGGTCTTGGAACACAGGCCTCGTGGCAATACAGCTTCACTGA
TAGCTGTACCCGCTGTGCTTCCAGTTTTCACTCCATATGTGGAAGAGACTGCACAACAGCCAGTTATGACACCAT
GTAAAATTGAACCTAGTATAAACACATCCTAAGCACCAGAAAGCCTGGAAAGGAAGAAGGAGATTCTCTACAAA
GGGTTTCAGAGCCATCAGCAAGCGTCTGAGGAGAAGAAAGAGAAGATGATGTATTGTAAGGAGAAGATTTATGCAG
GAGTAGGGGAATTTCTCCTTTGAAGAAATTCGGGCTGAAGTTTTCCGGAAGAAATTAAGAGCAAAGGGAAGCCG
AGCTATTGACCAGTGCAGAGAAGAGAGCAGAAATGCAGAAACAGATTGAAGAGATGGAGAAGAAGCTAAAAGAAA
TCCAACTACTCAGCAAGAAAGAACAGGTGATCAGCAAGAAGAGACGATGCCTACAAAGGAGACAATAACTGC
AAATTGCTTCCGAGTCTCAGAAAATACCAGGAATGACTCTATCCAGTTCTGTTTGTCAAGTAACTGTTGTGCCA
GAGAACTTCACTTGCGGAGAACATTTGGCAGGAACAACCTCATTCTAAAGGTCCAGTGTACCTTTCTCCATTT
TTGATGAGTTTTCTTCTTTTCAGAAAAGAAGAATAAAAGTCTCCTGCAGATCCCCACGAGTTTTAGCTCAACGAA
GACCCCTTGCACTTCTCAAAACCTCAGAAAGCATCACCTCAAATGAAGATGTGTCTCCAGATGTTTGTGATGAAT
TTACAGGAATTGAACCTTGAGCGAGGATGCCATTATCACAGGCTTCAGAAATGTAACAATTTGTCTAACCAG
AAGACACTTGTGACTTTGCCAGAGCAGCTCGTTTTGTATCCACTCCTTTTCATGAGATAATGTCTTGAAGGATC
TCCCTTCTGATCCTGAGAGACTGTTACCGGAAGAAGATCTAGATGTAAAGACCTCTGAGGACCAGCAGACAGCTT
GTGGCACTATCTACAGTCAGACTCTCAGCATCAAGAAGCTGAGCCCAATTATTGAAGACAGTCGTGAAGCCACAC
ACTCCTCTGGCTTCTCTGGTTCTTCTGCCTCGGTTGCAAGCACCTCCTCCATCAAATGTCTTCAAATTCCTGAGA
AACTAGAACTTACTAATGAGACTTCAGAAAACCTACTCAGTCACCATGGTGTTCACAGTATCGCAGACAGCTAC
TGAAGTCCCTACCAGAGTTAAGTGCCTCTGCAGAGTTGTGTATAGAAGACAGACCAATGCCTAAGTTGGAAATTG
AGAAGGAAATTGAATTAGGTAATGAGGATTACTGCATTAACGAGAATACCTAATATGTGAAGATTACAAGTTAT
TCTGGGTGGCGCCAAGAACTCTGCAGAATTAACAGTAATAAAGGTATCTTCTCAACCTGTCCCATGGGACTTTT
ATATCAACCTCAAGTTAAAGGAACGTTTTAAATGAAGATTTTGATCATTTTTTGAGCTGTTATCAATATCAAGATG
GCTGTATTGTTTGGCACCAATATATAAACTGCTTACCCCTTCAGGATCTTCTCCAACACAGTGAATATATTACCC
ATGAAATAACAGTGTTGATTATTTATAACCTTTTGACAATAGTGGAGATGCTACACAAAGCAGAAATAGTCCATG
GTGACTTGAGTCCAAGGTGTCTGATTCTCAGAAACAGAATCCACGATCCCTATGATTGTAACAAGAACAATCAAG
CTTTGAAGATAGTGGACTTTTCTTACAGTGTTGACCTTAGGGTGCAGCTGGATGTTTTTACCCTCAGCGGCTTTC
GGACTGTACAGATCCTGGAAGGACAAAAGATCCTGGCTAACTGTTCTTCTCCCTACCAGGTAGACCTGTTTGGTA
TAGCAGATTTAGCACATTTACTATTGTTCAAGGAACACCTACAGGTCTTCTGGGATGGGTCCTTCTGGAACTTA
GCCAAAATATTTCTGAGCTAAAAGATGGTGAATTGTGGAATAAATCTTTGTGCGGATTCTGAATGCCAATGATG
AGGCCACAGTGTCTGTTCTTGGGGAGCTTGCAGCAGAAATGAATGGGGTTTTTGACACTACATTCCAAAGTCACC
TGAACAAAGCCTTATGGAAGGTAGGGAAGTTAACTAGTCTGGGGCTTTGCTCTTTCAGTTGAGCTAGGCAATCAA
GTCTCACAGATTGCTGCCTCAGAGCAATGGTTGTATTGTGGAACACTGAACTGTATGTGCTGTAATTTAATTTA
GGACACATTTAGATGCACTACCATTGCTGTTCTACTTTTTTGGTACAGGTATATTTTGACGTCACTGATATTTTTT
ATACAGTGATATACTTACTCATGGCCTTGTCTAACTTTTGTGAAGAACTATTTTATTCTAAACAGACTCATTACA
AATGGTTACCTTGTTATTTAACCATTGTCTCTACTTTTCCCTGTACTTTTCCATTGTAAATTTGTAAAATGT

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FIGURE 4140

MAAVKKEGGALSEAMSLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKRAFYEYIRFYTGNDPL
DVWDRYISWTEQNYPPQGGKESNMSTLLERAVEALQGEKRYYS DPRFLNLWLKLGRLCNEPLDMYSYLHNQGIGVS
LAQFYISWAEYEARENFRKADAI FQEGIQQKAEPLERLQS QHRQFQARVSRQTLLALEKEEEEEVFESSVPQRS
TLAELKSKGKKTARAPI IIRVGGALKAPSONRGLQNPFPQQMQNNSRITVFDENADEASTAELSKPTVQPWIAPPM
PRAKENELQAGPWNTGRSLEHRPRGNTASLIAPPAVLPSFTPYVEETAQQPVMTPCKIEPSINHILSTRKPGKEE
GDSLQRVQSHQQASEEKKEKMMYCKEKIYAGVGEFSFEEIRAEVFRKKLKEQREAE LLTSAEKRAEMQKQIEEME
KKLKEIQTTQQERTGDQQEETMPTKETTKLQIASESQKIPGMTLSSSVCQVNCCARETSLAENIWQEQPHSKGPS
VPFSIFDEFL LSEKKNKSPPADPPRVLAQRRPLAVLKTSESITSNEDVSPDVCDEFTGIEPLSEDAIITGFRNVT
ICPNPEDTCDFAARFVSTPFHEIMSLKDLPSDPERLLPEEDLDVKTSEDQQTACGTIYSQTLSIKKLSP IIED
SREATHSSGFSGSSASVASTSSIKCLQIPEKLELTNETSENPTQSPWCSQYRRQLLKSLPELSASAELCIEDRPM
PKLEIEKEIELGNEDYCIKREYLYCEDYKLFVWAPRNSAELTVIKVSSQPVWDFYINLKLKERLNEDFDHFCSC
YQYQDGCIVWHQYINCFTLQDLLQHSEYITHEITVLI IYNLLTIVEMLHKA EIVHGDLSPRCLILRNRIHDPYDC
NKNNQALKIVDFSYSVDLRVQLDVFTLSGFRTVQILEGQKILANCSSPYQVDLFGIADLAHLLLFKEHLQVFDG
SFWKLSQNISELKD GELWNKFFVRILNANDEATVSVLGELAAEMNGVFDTTFQSHLNKALWKVGKLTSPGALLFQ

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FIGURE 4141A

CAGCCAGGGCCACCCCAGGGGCTATAAGAGCAACTAGATTTCTGGAGCAGCTCGGGGATGGGTGCCATTTGAGCC
CAGCTTGGCTCCCCCTCCTGGCTGGCCTCCTTCCTGCCCTTCTGCCTGCCTGTGTCTGCTGAGATTCTGCAAAGA
GGAACGTTGGCACC**ATGT**CTCTGCTCAACCCTGTCTGCTGCCCCCAAGGTGAAGGCCTATCTGAGCCAAGGGG
AGCGCTTCATCAAATGGGATGATGAACTACAGTTGCCTCTCCAGTTATCCTCCGTGTGGATCCTAAGGGCTACT
ACTTATACTGGACGTATCAAAGTAAGGAGATGGAGTTTCTGGATATCACCAGCATCCGGGATACTCGCTTTGGGA
AGTTTGCCAAGATGCCCAAGAGCCAGAAGCTCCGGGACGTCTTCAACATGGACTTTCTGATAACAGTTTCCTGC
TGAAGACACTCACGGTGGTGTCCGGCCCCGGACATGGTGGACCTCACCTTCCACAACCTTCGTCTCCTACAAGGAGA
ACGTGGGCAAGGCCTGGGCTGAGGACGTACTGGCCCTAGTCAAACATCCGCTGACGGCCAACGCCTCCCGCAGCA
CCTTCCTGGACAAGATCCTTGTGAAGCTCAAGATGCAGCTCAACTCTGAAGGGAAGATTCCGGTGAAGAACTTTT
TCCAGATGTTTTCCTGCTGACCGCAAGCGGGTGGAAGCTGCTCTCAGTGCCTGCCACCTCCCCAAAGGCAAAAATG
ACGCCATCAATCCTGAGGACTTCCCAGAACCTGTCTACAAGAGTTTTCCTCATGAGCCTCTGTCTCGGCCAGAAA
TAGATGAGATCTTCACTTCTTACCATGCTAAGGCCAAACCCTACATGACGAAGGAGCACCTGACCAAATTCATCA
ACCAGAAACAGCGGGACTCCCGGCTTAACCTCCCTGCTGTTCCCGCCAGCACGGCCTGACCAGGTGCAGGGCCTCA
TCGACAAGTATGAGCCAGTGGCATCAATGCACAGAGGGGCCAGCTGTACCTGAAGGCATGGTCTGGTTTTCTCT
GTGGGCCAGAGAACAGCGTGCTGGCCAGGACAAGCTGCTGCTCCACCACGACATGACGCAGCCACTCAATCATT
ACTTCATCAACTCGTCCCACAACACCTACCTGACAGCCGGCCAGTTCTCAGGCCTCTCCTCGGCTGAGATGTACC
GCCAGGTGCTGCTCTCTGGCTGCCGTTGCGTGGAGCTAGACTGCTGGAAGGGGAAACCCCTGACGAGGAGCCCA
TTATCACCCATGGCTTCACCATGACCACAGACATCTTCTTCAAAGAAGCAATTGAGGCTATTGCAGAAAGTGCCT
TTAAGACCTCCCCCTATCCCATCATCCTGTCTGTTTGAAGCATGTGGACTCACCCCGCCAGCAGGCTAAGATGG
CTGAGTATTGCCGGACGATCTTTGGGGATATGCTGCTCACAGAGCCCCTGGAAAAGTTCCCCTAAAACCAGGTG
TCCCCCTGCCAGCCCTGAGGATCTCAGGGGCAAGATCCTCATCAAGAACAAGAAGAACCAGTTTCTGGCCCCA
CCTCCTCCAGTAAGGATACCGGTGGGGAGGCTGAGGGCAGCAGCCACCCAGTGCCCTGCAGTGTGGGCTGGCG
AGGAAGGGACTGAGCTGGAGGAGGAGGAGGTGGAAGAGGAAGAGGAGGAGTCAAGAACTGGATGAAGAAG
AGATTAAGAAGATGCAGTCGGATGAGGGCACAGCGGGCCTGGAAGTGACGGCTTATGAGGAGATGTCCAGCCTAG
TCAATTACATCCAGCCACCAAGTTTCGTCTCCTTTGAGTTCTCTGCCCAAAGAACCAGTTATGTATCTCTGT
CCTTCACAGAGCTCAAGGCATATGACCTGCTCTCCAAGGCCTCGGTGCAGTTTGTGGACTACAACAAGCGCCAGA
TGAGCCGCATTTACCCCAAGGGAACCCGCATGGACTCCTCCAACATACATGCCCCAGATGTTCTGGAATGCTGGAT
GCCAGATGGTTGCCCTCAACTTCCAGACGATGGACTTGCCCATGCAGCAGAACATGGCAGTATTTGAGTTCAACG
GGCAGAGCGGCTACCTCCTCAAGCATGAGTTTCATGCGCCGGCCGACAAAGCAGTTCAACCCCTTCTCAGTGGACC
GCATCGACGTGGTGGTGGCCACCACCCTTTCCATTACGGTGATCTCTGGGCAGTTCTGTGAGAACGCAGCGTGC
GCACCTATGTAGAAGTGGAGCTGTTTGGCCCTCCTGGGGACCCCAAGAGGCGCTATCGAACTAAGCTGTCACCCA
GTACTAACTCCATCAATCCTGTCTGGAAGGAGGAGCCCTTTGTCTTTGAGAAGATCTTGATGCCTGAGCTGGCCT
CCCTCAGAGTGGCTGTGATGGAGGAAGGCAACAAGTTTCTTGAGACCCGCATCATCCCCATCAATGCCCTAAATT
CTGGGTACCACCACCTGTGCCTGCACAGTGAGAGCAACATGCCCTCACCATGCCTGCGCTCTTCATCTTCTGG
AGATGAAGGACTACATACCTGGTGCTTGGGCAGATCTCACTGTGGCCCTCGCCAACCCCATTAAGTTCTTCAGTG
CCCATGACACGAAGTCTGTGAAGCTCAAGGAGGCCATGGGAGGTCTGCCTGAGAAGCCCTTCCCCTGAGGAGTCA
CAGTTGCCAGCCAGGTCAATGGGGCGTTGGCCCCAACGAGCAATGGGTACACAGCAGCCAGGGCCGGGGCCAGGG
AAGAGGCTATGAAAGAAGCTGCGGAGCCGCGGACCGCCAGCCTGGAGGAGCTCCGGGAGCTAAAGGGCGTGGTGA
AGCTGCAGCGCGGCACGAGAAGGAGCTGCGAGAGTTGGAGCGGCGCGGAGCGCGGCGCTGGGAGGAGCTGCTGC
AGCGGGGCGCGGCGCAGCTGGCGGAGCTCGGGCCACCGGGCGTGGGGGCGTGGGGGCTGCAAGCTCGGTCCCG
GCAAGGGCTCTCGCAAGAAGAGGAGCCTGCCCCGCGAGGAGAGCGCCGAGCCGCGCGCGGGCGAGGGCCCTGAGG
GCGTGGACGGGCGCGTGGCGGAGCTGAAAGACAGGCTGGAGCTGGAGCTGCTGCGGCAGGGCGAGGAGCAGTACG
AGTGCGTTCTGAAGCGCAAGGAGCAGCACGTGGCCGAGCAAATCTCCAAAATGATGGAGCTGGCCAGAGAGAAAC
AGGCGGCAGAGCTGAAGGCCCTGAAGGAGACGTCCGAGAACGACACCAAAGAGATGAAGAAAAAGCTGGAGACAA
AGAGACTGGAGCGGATCCAGGGCATGACCAAAGTCAACACAGACAAGATGGCCAGGAGAGGTTGAAGAGAGAGA
TTAACAACCTCCCACATCCAGGAAGTAGTGAGGTGATCAAGCAGATGACGGAGAACTTGAGAGAGGACACAGGAGA
AGCTGGAGGAGAAGCAGGCGGCTTGCTTGGAAACAGATACGGGAGATGGAAAAGCAGTTCCAGAAGGAGGCGCTGG
CAGAGTACGAGGCCAGGATGAAGGGTCTGGAGGCAGAGGTGAAGGAGTGGTGAGGGCCTGCCTCAGGACCTGCT

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FIGURE 4141B

TTCCCTCCGAGGCCAAGGACAAGCCTGAGAGGGCCTGCGAGTGCCCCCAGAGCTGTGTGAGCAGGACCCACTCA
TAGCAAAGGCAGATGCCCAGGAGAGCCGCCTCTGATGCCCCCATCCCACTGGGACATTTAGCAAGGAGGTTTCAGC
CCCTTCTCTGGGATGTGGTTCTATTCCCCCAGGAAAAAGGAGCCCCAGCCTTCTGAGGCTGTGGGAACCTGTGGC
TGCCTTGGACGCTGCAGCCCCCTCCTCAACGGCCAGGCCAGAGTCTGAGACAGGACCCAGGCACCCCTCACGGCAG
GGCCTCTCTGGGGCCTAGAAGTCTTCTCAAGCTGACTTCCTACCTCCCCCTCCATCTCTAGATAAGTGTTCATATA
TTTGTGAGGGCAAAAGACTATGGACTGGAAGGCAGAAAGTGGGATCCTGGCCCCACTCTGCCTTTCCTATTGAG
CAACCAGCTCTGGGCTCAGTTTCCTCACCTGGAGGGTTGGACCCACTCACCTCCACTCTAGCCCCGAACCCTCCT
GCCCCAGGCTTCCAGGCCCCATCAGGCCTGCCCTGAGTTGGCCTTGTCCTACTCCTTGAGGCAGATCCTGGCACTA
CCTCACAGCTCCCTGGGGACGGCCACTCCCTGGCTGAGGGCCCTCCCCTCCCCTCTGCCTGTCCGGAACGGGAGG
CTGAAATGGAAAAGCTGCCTTGGCCCTGCTTGGCTGAGTCACAAGGGGCAGTGGGCTCTTGGGTGCTGTTCCACC
CTGACCCTGGCTCACCCCTCTTCCTAGGCCTGGGGGCAGGCAGTTCCTACCATGTACCCCTCTCAGGCTGCCTGC
CTGACAAGGTCAGCATCATTTGCTCTCCTGAATTTATGAGGTTTATTTATTTTCTCTTTCCTACTCCTATTAAA
GAACCTCGTCCCAGTGAAA

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FIGURE 4142

MSLLNPVLLPPEKVKAYLSQGERFIKWDDETTVASPVILRVDPKGYLYWYQSKEMEFLDITSIRDTRFGKFAM
PKSQKL RDVFNMDFPDNSFLLKTLTVVSGPDMVDLTFHNFVSYKENVGKAWAEDVLALVKHPLTANASRSTFLDK
ILVKLKMQLNSEGKIPVKNFFQMFPADRRKRVEAALSACHLPKGKNDAINPEDFPEPVYKSFLMSLCPRPEIDEIF
TSYHAKAKPYMTKEHLTKFINQKQDSSLNSLLFPARPDQVQGLIDKYEPSGINAQRGQLSPEGMVWFLCGPEN
SVLAQDKLLLHDMTQPLNHYFINSSHNTYLTAGQFSGLSSAEMYRQVLLSGCRCVELDCWKGPPEDEPIITHG
FTMTDIDFFKEAIEAIAESAFKTSYPPIILSFENHVDSRQQAKMAEYCRTIFGDMLLTEPLEKFPLKPGVPLPS
PEDLRGKILIKNKNQFSGPTSSSKDTGGEAEGSSPPSAPAVWAGEEGTELEEEVEEEEEEEESGNLDEEEIKKM
QSDEGTAGLEVTA YEEMSSLVNYIQPTKFVSFEFSAQKNRSYVISSFTELKAYDLLSKASVQFVDYNKRQMSRIY
PKGTRMDSSNYMPQMFVNAGCQMVALNFQTMDLPMQONMAVFEFNGQSGYLLKHEFMRRPDKQFNPF SVDRIDVV
VATTL SITVISGQFLSERSVRTYVEVELFGLPGDPKRRYRTKLSPSTNSINPVWKEEPFVFEKILMPELASLRVA
VMEEGNKFLGHRIIPINALNSGYHHLCLHSESNMPLTMPALFIFLEMKDYIPGAWADLTVALANPIKFFSAHDTK
SVKLKEAMGGLPEKPFPLASPVASQVNGALAPTNSGSPAARAGAREEAMKEAAEPRTASLEELRELKGVVKLQRR
HEKELRELERRGARRWEELLQRGAAQLAELGPPGVGGVGACKLGP GKSRRKRS LPREESAGAAPGEGPEGVDGR
VRELKDRLELELLRQGEQYECVLKRKEQHVAEQISKMMELAREKQAAELKALKETSENDTKEMKKKLETKRLER
IQGMTKVTTDKMAQERLKR EINNSHIQEVVQVIKQMTENLERHQEKLEEKQAACLEQIREMEKQFQKEALAEYEA
RMKGLEAEVKESVRACLRTCFPSEAKDKPERACECPPELCEQDPLIAKADAQESRL

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FIGURE 4143

ATGTTCCCCGCCCCGCTGACCCCGCTGGCGGCCCCAAATGGCGCCGAGCCCCTGGGCCGGGCGCTGAGGCGGGCC
CCTCTGGGCAGGGCCCCGGGCGGGGCTGGGTGGGCCGCCCTGCTGCTGCCGTCCATGCTGATGTTTGCGGTGATC
GTGGCCTCCAGCGGGCTGCTGCTCATGATCGAGCGGGGCATCCTGGCCGAGATGAAGCCCCCTGCCCTGCACCCG
CCCCGCCGCGAGGCGACAGCCTGGCGCGGGAAGCCCCAAGCCTGGGGGCTGTCCCTCAGGGCTGGGGACGCG
GACTTGCAAGTGCGGCAGGACGTCCGGAACAGGACCCTGCGGGCGGTGTGCGGACAGCCAGGCATGCCCCGGGAC
CCCTGGGACTTGCCGGTGGGGCAGCGGCGCACCCCTGCTGCGCCACATCCTCGTAAGTGACCGTTACCGCTTCCTC
TACTGCTACGTCCCCAAGGTGGCCTGCTCTAACTGGAAGCGGTGATGAAGGTGCTGGCAGGCGTCTTGACAGC
GTGGACGTCCGCCTCAAGATGGACCACCGCAGTGACCTGGTGTTCCTGGCCGACCTGCGGCCTGAGGAGATTGCG
TACCGCCTGCAGCACTACTTTAAGTTCCTGTTTGTGCGGGAGCCCTTGGAACGCCTCCTCTCTGCCTACCGCAAC
AAGTTTGGCGAGATCCGAGAGTACCAGCAACGCTATGGGGCTGAGATAGTGAGGCGGTACAGGGCTGGAGCGGGG
CCCAGCCCTGCAGGCGACGATGTACATTCCCCGAGTTCCTGAGATACCTGGTGGATGAGGACCCTGAGCGCATG
AATGAGCATTGGATGCCCCGTGTACCACTGTGCCAGCCTTGTGCCGTGCACTATGACTTTGTGGGCTCCTATGAG
AGGCTGGAGGCTGATGCAAATCAGGTGCTGGAGTGGGTACGGGCACCACTCACGTCCGATTTCCAGCTCGCCAG
GCCTGGTACCGGCCAGCCAGCCCCGAAAGCCTGCATTACCACTTGTGCACTGCCCCCGGGCCCTGCTGCAGGAT
GTGCTGCCTAAGTATATCCTGGACTTCTCCCTCTTTGCCTACCCACTGCCTAATGTCACCAAGGAGGCGTGTGAG
CAG**TGA**CCATGGGTGTGGGGCCAGCAGCTGGTGGGGACTGGTTTCAACGCCAGCTTTCTGTGCTTCTGCCTGTCA
TTCGGAGAACTCTGGCTCTGGGGCTTGGGGCTTCTCAGGATCCTGGATGGCAGAGACTGCCCTCAGAAGTTCCT
TGTCAGGGTGGGCACCCACAGTGACTCAGAGGACAGGGCTAGGCAGGAGACCTGCTGCTCCTCATTGGGGGGAT
CTCTTGGGGGGCAGACACCAGTTTGCCAATGAAGCAACACATCTGATCTAAAGACTGGCTCCAGACCCCGGGCTG
CCAGGATTATGCAGTCCACTTGGTCTACCTTAATTTAACCTGTGGCCAACTCAGAGATGGTACCAGCCAGGGGC
AAGCATGACCAGAGCCAGGGACCCTGTGGCTCTGATCCCCATTTATCCACCCCATGTGCCTCAGGACTAGAGTG
AGCAATCATACCTTATAAATGACTTTTGTGCCTTTCTGCTCCAGTCTCAAAATTTCTTACACCTGCCAGTTCTTT
ACATTTTTCAGGAAAGGAAAACGGAAGCAGGGTTCTTGCCTGGTAGCTCCAGGACCCAGCTCTGCAGGCACCC
AAAGACCCTCTGTGCCAGCCTCTTCCTTGAGTTCTCGGAACCTCCTCCCTAATTCTCCCTTCCTTCCCCACAAG
GCCTTTGAGGTTGTGACTGTGGCTGGTATATCTGGCTGCCATTTTTCTGATGCATTTATTTAAAATTTGTACTTT
TTGATAGAACCCTTGTAAGGGCTTTGTTTTCTTAATAGCTGACTTTTTAATAAAGCAGTTTTATATATAAAAAA
AAAAAAAAA

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FIGURE 4144

MFPRPLTPLAAPNGAEPLGRALRRAPLGRARAGLGGPPLLLPSMLMFAVIVASSGLLLMIERGILAEMKPLPLHP
PGREGTAWRGKAPKPGGLSLRAGDADLQVRQDVNRNRLRAVCGQPGMPRDPWDLPGVQRRTLLRHILVSDRYRFL
YCYVPKVACSNWKRVMKVLAVLDSDVRLKMDHRSDLVFLADLRPEEIRYRLQHYFKFLFVREPLERLLSAYRN
KFGEIREYQORYGAEIVRRYRAGAGPSPAGDDVTFFPEFLRYLVDEDPERMNEHWMPVYHLCQPCAVHYDFVGSYE
RLEADANQVLEWVRAPPHVRFPARQAWYRPAESPESLHYHLCSAPRALLQDVLPKYILDFSLFAYPLPNVTKEACQ
Q

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FIGURE 4145

ATGTGGCTGGACCGCCGCGGATGGCTCAGGGTTCTTGGACATTGGCGCTACGACCTTAGGCGCCCTAGCTTTACC
AGGACTTGGAGTGGCGATAAGGGCCCAATGGCAGAAACAGTGTCTACCCAGGTTGGGACAGAGGGCGGGCTGAGG
GCTTCGCATCAGCAAAACGGTGACGCTGGTGGCGACGCGAAGGTTGAGCTGTCCCCGGGCCCCCGAAGCCGGCT
GGCCGGGAAGTGGAGCCGGCCCCAGTAGGCGGGGAGCATCCCTCGGCTGCAGCCCCAGGCCCCGGGCAAGCATAAG
AAGCGGCGGGGCGCAACCAGGGAGCGTGTCTGTCGCGCCCCCGAAGAAGCGGCGGACCGGGGTGAGCTTCGGAGAT
GAGCACTTTGCAGAAACAGTTATTACTTTCGAGGGCGGCCTGCGTAAGGTGCGGCCCTATTACTTTGACTTCCGG
ACCTACTGCAAAGGTGCTGGGTGGGCCACAGCTTGCTGCACGTCTTCAGTACCGAGTTCCGAGCTCAGCCCCTG
GCCTACTATGAGGCCGCGGTCCGGGCGGGCCCGCTGCAACTCAACGAGAAGCCGGTGCAGGACCTCAACATCGTG
CTCAAGGACAATGATTTCTTGCGGAACACAGTGCACAGGCATGAGCCACCAGTCACAGCAGAGCCCATTGCGCTG
CTAGCTGAGAACGAAGATGTGGTGGTTGTAGACAAGCCTTCCTCCATTCCCGTTACCCCTGTGGCCGCTTCCGA
CACAAACACAGTTATCTTCATCCTAGGCAAGGAGCACCAACTCAAGGAGCTACACCCCTTGCAATCGGCTTGACCGC
CTTACCTCAGGGGTGCTTATGTTTTGCCAAGACAGCTGCAGTCTCTGAGAGAATTACAGAGCAGGTTCCGGACCGG
CAGCTGGAGAAGGAGTACGTGTGCCGGGTGGAAGGGGAGTTCCCCACTGAGGAAGTGACCTGTAAAGAACCCATC
TTAGTGGTGTCTTACAAAGTAGGGGTGTGCCGTGTAGATCCCCGGGGCAAGCCCTGTGAGACAGTGTTCAGAGG
CTAAGCTACAATGGCCAGTCCAGTGTGGTACGGTGCCGGCCACTCACAGGCCGCACACACCAGATTCGAGTCCAC
CTTCAGTTCTTGGGCCATCCATTCTCAACGACCCCATCTACAACCTCAGTTGCCTGGGGTCCTTCTCGAGGCCGG
GGCGGTACATTCCCAAGACAAACGAGGAGTTGCTACGGGACCTGGTAGCAGAGCACCAGGCCAAACAGAGCCTG
GATGTGCTAGATCTCTGTGAGGGTGACCTGTCCCCAGGACTCACAGACTCTACGGCCCCCTCCTCAGAGTTGGGC
AAGGACGACCTGGAAGAGTTGGCTGCAGCTGCCCAGAAGATGGAGGAAGTAGCTGAGGCAGCCCCTCAGGAGTTG
GACACAATAGCCTTGGCATCAGAGAAGGCAGTTGAAACAGATGTCATGAATCAAGAGACAGACCCACTCTGTGCA
GAGTGCCGGCTGGTGCACAGGATCCCTTGCCCCAAGACCTTGTGATGTTCTACATGCCCTACGCTATAAAGGG
CCAGGCTTTGAGTACTTTTACCAATGCCTGCCTGGGCACAGGATGACTGGCAAAAGGACTGA

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FIGURE 4146

MWLDRRGWLRVLGHWRYDLRRPSFTRTWSGDKGPMAETVSTQVGTEGGLRASHQQNGDAGGDAKVELSPGPPKPA
GREVEPAPVGGEHPSAAAPGPGKHKRRGATREERVPPPKKRRTGVSGDEHFAETSYFEGGLRKVRPYYFDFR
TYCKGRWVGHSLLHVFSTEFRAQPLAYYEA AVRAGRLQLNEKPVQDLNIVLKDNDLFRNTVHRHEPPVTAEPIRL
LAENEDVVVDKPSSIPVHPCGRFRHNTVIFILGKEHQKELHPLHRLDRLTSGVLMFAKTA AVSERIHEQVRDR
QLEKEYVCRVEGEFPTTEEVTCKEPILVVS YKVGVC RVDPRGKPCETVFQRLSYNGQSSVVRCPRLTGRTHQIRVH
LQFLGHPILNDPIYNSVAWGPSRGRGGYIPKTNEELLRLDLVAEHQAKQSLDVLDLCEGDLSPGLTDSTAPSSELG
KDDLEELAAAAQKMEEVAE AAPQELDTIALASEKAVETDVMNQETDPLCAECRLVRQDPLPQDLVMFLHALRYKG
PGFEYFSPMPAWAQDDWQKD

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FIGURE 4147

TAAGGAGAGTGC GGCGCTTCCCGAGGCGTGCAGCTGGGAACTGCAACTCATCTGGGTTGTGCGCAGAAGGCTGGG
GCAAGCGAGTAGAGAAGTGGAGCGTAAGCCAGGGGCGTTGGGGGCCGTGCGGGTCGGGCGCGTGCCACGCCCCGCG
GGGTGAAGTCGGAGCGCGGGGCGCTGCTGGAGAGAGGAGCGCTGCGGACCGAGTAATGGCAATGCAGATGCAGCTT
GAAGCAAATGCAGATACTTCAGTGGAAGAAGAAAGCTTTGGCCCACAACCCATTTACGGTTAGAGCAGTGTGGC
ATAAATGCCAACGATGTGAAGAAATTGGAAGAAGCTGGATTCCATACTGTGGAGGCTGTTGCCTATGCGCCAAAG
AAGGAGCTAATAAATATTAAGGGAATTAGTGAAGCCAAAGCTGATAAAATTCTGGCTGAGGCAGCTAAATTAGTT
CCAATGGGTTTCACCACTGCAACTGAATTCCACCAAAGGCGGTGAGAGATCATAAGATTACTACTGGCTCCAAA
GAGCTTGACAACTACTTCAAGGTGGAATTGAGACTGGATCTATCAGAGAAATGTTTGGAGAATTCCGAACTGGG
AAGACCCAGATCTGTCATACGCTAGCTGTACCTGCCAGCTTCCCATTGACCGGGGTGGAGGTGAAGGAAAGGCC
ATGTACATTGACACTGAGGGTACCTTTAGGCCAGAACGGCTGCTGGCAGTGGCTGAGAGGTATGGTCTCTCTGGC
AGTGATGTCCTGGATAATGTAGCATATGCTCGAGCGTTCAACACAGACCACCAGACCCAGCTCCTTTATCAAGCA
TCAGCCATGATGGTAGAATCTAGGTATGCACTGCTTATTGTAGACAGTGCCACCGCCCTTTACAGAACAGACTAC
TCGGGTGAGGTGAGCTTTAGCCAGGCAGATGCACTTGGCCAGGTTTCTGCGGATGCTTCTGCGACTCGCTGAT
GAGTTTGGTGTAGCAGTGGTAATCACTAATCAGGTGGTAGCTCAAGTGGATGGAGCAGCGATGTTTGCTGCTGAT
CCCCAAAAACCTATTGGAGGAAATATCATCGCCCATGCATCAACAACCAGATTGTATCTGAGGAAAGGAAGAGGG
GAAACCAGAATCTGCAAAATCTACGACTCTCCCTGTCTTCTTGAAGCTGAAGCTATGTTGCGCATTAATGCAGAT
GGAGTGGGAGATGCCAAAGACTGAATCATTGGGTTTTTCTCTGTGTTAAAAACCTTAAGTGCTGCAGCCTAATGAG
AGTGCACTGCTCCCTGGGGTTCTCTACAGGCCTCTTCTGTGTTGTGACTGCCAGGATAAAGCTTCCGGGAAAACAG
CTATTATATCAGCTTTTCTGATGGTATAAACAGGAGACAGGTCAGTAGTCACAACTGATCTAAATGTTTATTC
CTTCTGTAGTGTATTAATCTCTGTGTGTTTTCTTTGGTTTTGGAGGAGGGGTATGAAGTATCTTTGACATGGTGC
CTTAGGAATGACTTGGGTTTAACAAGCTGTCTACTGGACAATCTTATGTTTCCAAGAGAACTAAAGCTGGAGAGA
CCTGACCCCTTCTCTCACTTCTAAATTAATGGTAAAATAAAATGCCTCAGCTATGTAGCAAAGG

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FIGURE 4148

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCGGTCTTTCCGTGCCACGCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGG
AGACACCTTCCATCGGGGCAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATAACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGT
GCTTGGTGGCTACGATAACCAAGGAGGTCACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCTTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTTGAAGGGGCTGAGCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGACACAAGACAGACTTGCGACCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAACTTTATTTATTGCA
CCATGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCCACT
TGGTTGTTTTCTTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCCAGTCTGTCCCATACTGTTACCCATAAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4149

MKQESAAPNTPPTSQSPTPSAQFFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLLEDHEGCTWGVAYVQVQGEQVSKALKYLVNREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMLPCFCPTAQALALV

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FIGURE 4150

AGGCCACAGGGCATGGATCAGCCCCACTGCATCTCAAAGTGAAGTGTATAGCCAAGTCTTAAACCTCTCACGGGGC
AAGCCTGACACAGACCCCCCTTTAGATGCTCAGGCATACTGTTTCCATCCCGATTCCACTCTTCGGCTCTGACAGG
TCCCTTGCAAAGTCTCCGCAGGTGCTGTGAAGAGCCTTCCATGGTAGAGATTTCTCTTAAGAGTGTGATTTCTCA
TAGGGCTAGTAAGGGAGATTGTATACCTGTTGTCCACAGTCTTCAGGCAGCTCCCCAGGTCTCTGAACCCAGAG
TGTCGTCATTGGAGAGAGCAGTGACTGCGAGAGATGGTGGAGGCCGCTAAGCATGGTAGAGGCTAGAGGAAGTCT
ATCCACAGGCAGTTGTGTTCCAGCAATTCTCCCATCCTGCATGGTTCACACCAAGAGAACCTTCAGATCCTAC
CAGCAACCGTAGCACCTTCCACCCAGGGGACTCCCAGAAGCCAGTAAAGAGACCAGGAGCCACCTCAATCAGCAG
GACAGCCTCACTGCCCCCTCTTGACAGAGTCCCCCTTTGCCCATCCTGAATGCACAGTCTCCCTGCTCATGCCCTTCA
GTCCCCCTGCTTGGCTGTATGCACTGTCTATATTGCACTGAGAGAGGAAGGGACAGCAGGAGTGAGGTGAAGAGGG
CGGAGAGAGGGGGCAGGCTCGGCACCGGCCCTCCCAGCCCGGCCAGCCTGAGCTTGCTGCCCTCCAGTAGAGACA
GAGGGGCAGTGTTTGCAAGGGAGGTGTTTCTGCCTGTCCCTGCCTGATGTCCCTGGTGGAGCAGGTACCTCCGGG
CGGGCAAGCCTCTGATTTGCACACCTGAAAATCGCGGAATTGAGTTTCGATAGATTGATTTTTAAACCTTTTTTG
GAGTAGGGGGTATAGGGGAATCATTTAATTTAAATCATTAAGATTCCCCTGCTCAAACCCAGATTCTGTGTACA
GATGCTATTTAGAGGGAATCAGAAAAATGCCAAGCCTTTTCTCTTTGAATGTGCTATTTTTATAACTGAACTTGT
ACATATGTATAAAGAGAGACACATCTTCCTTTTACTAACTGGATAAAAAAATCTTAAATAAAATGGAGTGAGATA
ATTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4151

MVEISLKSIVISHRASKGDCIPVVHSLQAAPQVSEPQSVVIGESSDCERWWRPLSMVEARGSLSTGSCVPSNSSHP
AWFTPREPSDPTSNRSTFHPGDSQKPVKRPGATISRTASLPLLQSPLCPS

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FIGURE 4152

GGGATTGTAACXCGCTGACGAAGTTTGGTGATCCATCTTCCGAGTATCGCCGGGATTTCGAATCGCGATGATCA
TCCCCTCTCTAGAGGAGCTGGACTCCCTCAAGTACAGTGACCTGCAGAACTTAGCCAAGAGTCTGGGTCTCCGGG
CCAACCTGAGGGCAACCAAGTTGTTAAAGCCTTGAAAGGCTACATTAAACATGAGGCAAGAAAAGGAAATGAGA
ATCAGGATGAAAGTCAAACCTTCTGCATCCTCTTGTGATGAGACTGAGATACAGATCAGCAACCAGGAAGAAGCTG
AGAGACAGCCACTTGCCCATGTCACCAAAACAAGGAGAAGGTGCAAGACTGTCCGTGTGGACCTGACTCACAGC
AGAATCATTGAGAGATAAAAAATAAGTAATCCCACTGAATTCCAGAATCATGAAAAGCAGGAAAGCCAGGATCTCA
GAGCTACTGCAAAAGTTCCTTCTCCACCAGACGAGCACCAAGAAGCTGAGAATGCTGTTTCCTCAGGTAACAGAG
ATTCAAAGGTACCTTCAGAAGGAAAGAAATCTCTCTACACAGATGAGTCATCCAAACCTGGAAAAATAAAAGAA
CTGCAATCACTACTCCAAACCTTAAGAAGCTTCATGAAGCTCATTTTAAGGAAATGGAGTCCATTGATCAATATA
TTGAGAGAAAAAGAAACATTTTGAAGAACACAATTCCATGAATGAAGTGAAGCAGCAGCCCATCAATAAGGGAGG
GGTCAGGACTCCAGTACCTCCAAGAGGAAGACTCTCTGTGGCTTCTACTCCCATCAGCCAACGACGCTCGCAAGG
CCGGTCTTGTGGCCCTGCAAGTCAGAGTACCTTGGGTCTGAAGGGGTCACTCAAGCGCTCTGCTATCTCTGCAGC
TAAACGGGTGTGAGGTTTTGAGCTGCTACTAAAGATAATGAGCATAAGCGTTCAGTACCAAGACTCCAGCCAG
AAAGTCTGCACATGTGACCGTGTCTGGGGCACCCCAAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAGAC
CATCAGGGGAATTCTGCTGCTGTTATTACCCCATTCAGTTGACAACTGAGGCAACGCAGACTCCAGTCTCCAA
TAAGAAACCAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCCCTCAACTATGAACCACACAAAGGAAAGCTAAA
ACCATGGGGGCAATCTAAAGAAAATAATTATCTAAATCAACATGTCAACAGAATTAACCTTCTACAAGAAAACCTA
CAAACAACCCCATCTCCAGACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAGAAAGCAAA
GGTTTTGGGAATGCGAAGGGGCCCTCATTTTGGCTGAAGATTAATAATTTTTTAATATCTTGTAATATTCTCTGTA
TTCTCAACTTTTTTCTTTTTGTAAATTTTTTTTTTTTTTGTCTGTCATCCCCACTTTAGTACAGAGATCTTTTTCTG
CTAACTGTTTCATAGTCTGTGTAGTGTCCATGGGTTCTTCATGTGCTATGATCTCTGAAAAGACGTTATCACCTTA
AAGCTCAAATTTCTTTGGGATGGTTTTTACTTAAGTCCATTAACAATTCAGGTTTCTAACGAGACCCATCCTAAAA
TTCTGTTTCTAGATTTTTAATGTCAAGTTCCCAAGTTCCCCCTGCTGGTTCTAATATTAACAGAACTGCAGTCTT
CTGCTAGCCAATAGCATTTACCTGATGGCAGCTAGTTATGCAAGCTTCAGGAGAATTTGAACAATAACAAGAATA
GGGTAAGCTGGGATAGAAAGGCCACCTCTTCACTCTCTATAGAATATAGTAACCTTTATGAAACGGGGCCATATA
GTTTGGTTATGACATCAATATTTTACCTAGGTGAAATTGTTTAGGCTTATGTACCTTCGTTCAAATATCCTCATG
TAATTGCCATCTGTCACTCACTATATTACAAAAATAAACTCTACAACCTATTCTAACATTGCTTACTTAAAG
CTACATAGCCCTATCGAAATGCGAGGATTAATGCTTTAATGCTTTTAGAGACAGGGTCTCACTGTGTTGCCAGG
CTGGTCTCAAACCTCCACCAAATGTACTTCTTATTCATTTTATGAAAAGACTAGGCTTTGCTTAGTATCATGTCC
ATGTTTCCTTCACCTCAGTGGAGCTTCTGAGTTTTATACTGCTCAAGATCGTCATAAATAAAATTTTTTCTCATT
GTCAAAAAAAAAAAAAA

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FIGURE 4153

MNELKQQPINKGGVRTPVPPRGRLSVASTPISQRRSQGRSCGPASQSTLGLKGSLKRS AISAAKTGVRFSAATKD
NEHKRSLTKTPARKSAHVTVSGGTPKGEAVLGTHKLKTTITGNSAAVITPFKLTTEATQTPVSNKKPVFDLKASLS
RPLNYEPHKGKLPWGQSKENNYLNQHVNRINFYKKTYPHLOTKEEQRKKREQERKEKKAKVLGMRRLILAE
D

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FIGURE 4154

ATGATCATCCCCCTCTCTAGAGGAGCTGGACTCCCTCAAGTACAGTGACCTGCAGAACTTAGCCAAGAGTCTGGGT
CTCCGGGGCCAACCTGAGGGCAACCAAGTTGTTAAAAAGCCTTGAAAGGCTACATTAAACATGAGGCAAGAAAAGGA
AATGAGAATCAGGATGAAAGTCAAACCTTCTGCATCCTCTTGTGATGAGACTGAGATACAGATCAGCAACCAGGAA
GAAGCTGAGAGACAGCCACTTGGCCATGTCACCAAAACAAGGAGAAGGTGCAAGACTGTCCGTGTGGACCCCTGAC
TCACAGCAGAATCATTGAGAGATAAAAATAAGTAATCCCCTGAATTCCAGAATCATGAAAAGCAGGAAAGCCAG
GATCTCAGAGCTACTGCAAAGTTCTTCTCCACCAGACGAGCACCAGAAGCTGAGAATGCTGTTTCCTCAGGT
AACAGAGATTCAAAGGTACCTTCAGAAGGAAAGAAATCTCTCTACACAGATGAGTCATCCAAACCTGGAAAAAAT
AAAAGAACTGCAATCACTACTCCAAACTTTAAGAAGCTTCATGAAGCTCATTTTAAGGAAATGGAGTCCATTGAT
CAATATATTGAGAGAAAAAAGAAACATTTTGAAGAACACAATTCCATGAATGAACTGAAGCAGCCCATCAATAAG
GGAGGGGTCAGGACTCCAGTACCTCCAAGAGGAAGACTCTCTGTGGCTTCTACTCCCATCAGCCAACGACGCTCG
CAAGGCCGGTCTTGTGGCCCTGCAAGTCAGAGTACCTTGGGTCTGAAGGGGTCACTCAAGCGCTCTGCTATCTCT
GCAGCTAAAACGGGTGTGTCAGGTTTTAGCTGCTACTAAAGATAATGAGCATAAGCGTTCACTGACCAAGACTCCA
GCCAGAAAGTCTGCACATGTGACCGTGTCTGGGGGCACCCCAAAGGCGAGGCTGTGCTTGGGACACACAAATTA
AAGACCATCACGGGGAATTCTGCTGCTGTTATTACCCCATTCAGTTGACAACTGAGGCAACGCAGACTCCAGTC
TCCAATAAGAAACCAAGTGTGTTGATCTTAAAGCAAGTTTGTCTCGTCCCCTCAACTATGAACCACACAAAGGAAAG
CTAAAACCATGGGGGCAATCTAAAGAAAATAATTATCTAAATCAACATGTCAACAGAAATTAATTCTACAAGAAA
ACTTACAAACAACCCCATCTCCAGACAAAGGAAGAGCAACGGAAGAAACGCGAGCAAGAACGAAAGGAGAAGAAA
GCAAAGGTTTTGGGAATGCGAAGGGGCCTCATTTTGGCTGAAGATTAA

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FIGURE 4155

MIIPSLEELDSLKYSDLQNLAKSLGLRANLRATKLLKALKGYIKHEARKGNENQDESQTSASSCDETEIQISNQE
EAERQPLGHVTKTRRRCKTVRVDPDSQQNHSEIKISNPTEFQNHKQESQDLRATAKVPSPPDEHQEAENAVSSG
NRDSKVPSEGKKSlytDESSKPGKNKRTAITTPNFKKLHEAHFKEMESIDQYIERKKKHFEHNSMNELKQPIN
GGVRTPVPPRGRLSVASTPISQRRSQGRSCGPASQSTLGLKGS�KRS AISAAKTGVRFSAATKDNEHKRSLTKTP
ARSAHVTVSGGTPKGEAVLGTHKLKTITGNSAAVITPFKLTTEATQTPVSNKKPVFDLKASLSRPLNYEPHKGK
LKPWGQSKENNYLNQHVNRIIFYKKTYKQPHLQTKEEQRKKREQERKEKKAKVLGMRRLILAED

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FIGURE 4156A

CCCCGCCCTCCTCCCTCCTCGCTCGCGGGCCGGGCCCGGCATGGTGCGGCGTCGCCGCCGATGGCGCTGAGGCGG
AGCATGGGGCGGGCCGGGGCTCCCGCCGCTGCCGCTGCCGCCGCCACCGCGGCTCGGGCTGCTGCTGGCGGCTCTG
GCTTCTCTGCTGCTCCCGGAGTCCGCCGCCGAGGTCTGAAGCTCATGGGAGCCCCGGTGAAGCTGACAGTGTCT
CAGGGGCAGCCGGTGAAGCTCAACTGCAGTGTGGAGGGGATGGAGGAGCCTGACATCCAGTGGGTGAAGGATGGG
GCTGTGGTCCAGAACTTGGACCAGTTGTACATCCAGTCAGCGAGCAGCACTGGATCGGCTTCCTCAGCCTGAAG
TCAGTGGAGCGCTCTGACGCCGGCCGGTACTGGTGCCAGGTGGAGGATGGGGGTGAAACCGAGATCTCCAGCCA
GTGTGGCTCACGGTAGAAGGTGTGCCATTTTTACAGTGGAGCCAAAAGATCTGGCAGTGCCACCCAATGCCCT
TTCCAACGTCTTGTGAGGCTGTGGGTCCCCCTGAACCTGTTACCATTGTCTGGTGGAGAGGAACACGAAGATC
GGGGGACCCGCTCCCTCTCCATCTGTTTTAAATGTAACAGGGGTGACCCAGAGCACCATGTTTTCTGTGAAGCT
CACAACTAAAGGCCCTGGCCTCTTCTCGCACAGCCACTGTTACCTTCAAGCACTGCCTGCAGCCCCCTTCAAC
ATCACCGTGACAAAGCTTTCCAGCAGCAACGCTAGTGTGGCCTGGATGCCAGGTGCTGATGGCCGAGCTCTGCTA
CAGTCTGTACAGTTCAGGTGACACAGGCCCCAGGAGGCTGGGAAGTCTGGCTGTTGTGGTCCCTGTGCCCCC
TTTACCTGCCTGCTCCGGGACCTGGTGCCTGCCACCAACTACAGCCTCAGGGTGCCTGTGCCAATGCCTTGGGG
CCCTCTCCCTATGCTGACTGGGTGCCCTTTTACAGACCAAGGGTCTAGCCCCAGCCAGCGCTCCCCAAAACCTCCAT
GCCATCCGCACAGATTCAGGCCTCATCTTGGAGTGGGAAGAAGTGATCCCCGAGGCCCTTTTGAAGGCCCTTG
GGACCCTACAACTGTCTGGGTTCAGACAATGGAACCCAGGATGAGCTGACAGTGGAGGGGACCAGGGCCAAT
TTGACAGGCTGGGATCCCCAAAAGGACCTGATCGTACGTGTGTGCGTCTCCAATGCAGTTGGCTGTGGACCTGG
AGTCAGCCACTGGTGGTCTCTTCTCATGACCGTGCAGGCCAGCAGGGCCCTCCTCACAGCCGCACATCCTGGGTA
CCTGTGGTCCCTTGGTGTGCTAACGGCCCTGGTGACGGCTGCTGCCCTGGCCCTCATCTGCTTCGAAAGAGACGG
AAAGAGACGCGGTTTGGGCAAGCCTTTGACAGTGTATGGCCCCGGGAGAGCCAGCCGTTCACTTCGGGCAGCC
CGGTCCTTCAATCGAGAAAGGCCCGAGCGCATCGAGGCCACATTGGACAGCTTGGGCATCAGCGATGAATAAG
GAAAACTGGAGGATGTGCTCATCCAGAGCAGCAGTTACCCCTGGGCCGGATGTTGGGCAAAGGAGAGTTTGGT
TCAGTGCGGGAGGCCCAGCTGAAGCAAGAGGATGGCTCCTTTGTGAAAGTGGCTGTGAAGATGCTGAAAGCTGAC
ATCATTGCCTCAAGCGACATTGAAGAGTTCTCAGGGAAGCAGCTTGCATGAAGGAGTTTGACCATCCACACGTG
GCCAACTTGTGGGTAAGCCTCCGGAGCAGGGCTAAAGGCCGCTCTCCCATCCCATGGTTCATCTTGCCCTTC
ATGAAGCATGGGGACCTGCATGCCTTCTGCTCGCCTCCCGGATTGGGGAGAACCCCTTTAACCTACCCCTCCAG
ACCCTGATCCGGTTCATGGTGGACATTGCCTGCGGCATGGAGTACCTGAGCTCTCGGAACCTTCATCCACCGAGAC
CTGGCTGCTCGGAATTGCATGCTGGCAGAGGACATGACAGTGTGTGTGGCTGACTTCGGACTCTCCCGGAAGATC
TACAGTGGGGACTACTATCGTCAAGGCTGTGCCTCCAACTGCCTGTCAAGTGGCTGGCCCTGGAGAGCCTGGCC
GACAACCTGTATACTGTGCAGAGTGACGTGTGGCGTTTCGGGGTGACCATGTGGGAGATCATGACACGTGGGCAG
ACGCCATATGCTGGCATCGAAAACGCTGAGATTTACAACCTACCTCATTGGCGGGAACCGCCTGAAACAGCCTCCG
GAGTGTATGGAGGACGTGTATGATCTCATGTACCAGTGTGGAGTGTGACCCCAAGCAGCGCCCGAGCTTTACT
TGTCTGCGAATGGAACCTGGAGAACATCTTGGGCCAGCTGTCTGTGCTATCTGCCAGCCAGGACCCCTTATACATC
AACATCGAGAGAGCTGAGGAGCCCACTGCGGGAGGCAGCCTGGAGCTACCTGGCAGGGATCAGCCCTACAGTGGG
GCTGGGGATGGCAGTGGCATGGGGGCAGTGGGTGGCACTCCAGTGACTGTGGTACATACTACCCCCGGAGGG
CTGGCTGAGCAGCCAGGGCAGGCAGAGCACCAGCCAGAGAGTCCCCTCAATGAGACACAGAGGCTTTTGTGCTG
CAGCAAGGGCTACTGCCACACAGTAGCTGTTAGCCACAGGCAGAGGGCATCGGGGCCATTTGGCCGGCTCTGGT
GGCCACTGAGCTGGCTGACTAAGCCCCGTCTGACCCCAAGCCAGACAGCAAGGTGTGGAGGCTCCTGTGGTAGTC
CTCCCAAGCTGTGCTGGGAAGCCCCGACTGACCAAATCACCCAATCCAGTTCTTCTGCAACCACTCTGTGGCC
AGCCTGGCATCAGTTTAGGCCTTGGCTTGATGGAAGTGGGCCAGTCTGGTTGTCTGAACCCAGGCAGCTGGCAG
GAGTGGGGTGGTTATGTTTCCATGGTTACCATGGGTGTGGATGGCAGTGTGGGGAGGGCAGGTCCAGCTCTGTGG
GCCCTACCCTCCTGCTGAGCTGCCCCTGCTGCTTAAGTGCATGCATTGAGCTGCCTCCAGCCTGGTGGCCAGCT
ATTACCACACTTGGGGTTTAAATATCCAGGTGTGCCCTTCCAAGTCACAAAGAGATGTCCTTGTAATATTCCCTT
TTAGGTGAGGGTTGGTAAGGGGTGGTATCTCAGGTCTGAATCTTACCATCTTCTGATTCCGCACCCTGCCTA
CGCCAGGAGAAGTTGAGGGGAGCATGCTTCCCTGCAGCTGACCGGGTCACACAAAGGCATGCTGGAGTACCCAGC
CTATCAGGTGCCCTCTTCCAAAGGCAGCGTGCCGAGCCAGCAAGAGGAAGGGGTGCTGTGAGGCTTGCCAGGA
GCAAGTGAGGCCGGAGAGGAGTTCAGGAACCCCTTCTCCATACCCACAATCTGAGCACGCTACCAAATCTCAAAAT
ATCCTAAGACTAACAAAGGCAGCTGTGTCTGAGCCCAACCCTTCTAAACGGTGACCTTTAGTGCCAACCTTCCCT

4508/6881
FIGURE 4156B

CTAACTGGACAGCCTCTTCTGTCCCAAGTCTCCAGAGAGAAATCAGGCCTGATGAGGGGGAATTCCTGGAACCTG
GACCCAGCCTTGGTGGGGGAGCCTCTGGAATGCATGGGGCGGGTCCTAGCTGTTAGGGACATTTCCAAGCTGTT
AGTTGCTGTTTAAAATAGAAATAAAATTGAAGACTAAAGACCTA

4509/6881
FIGURE 4157

ATGAATAAACTGACAAAAATCCTTGCTTTCAGAAATTTGTCATTGCCATCTCAACCAAACTGGCATTAGCAAT
GTAAAAATCCCAAAACATCTTATTGATGCTCACTTCGAGAAGCAGTTGCAGAAGCCCAGACACCAGGAAGGTGAG
ATCTCTGACACAGAAAAAGAGAACTACAAGACTACAGAGCAGTGCAAGATTGATCAGAAAGCTGTGGACTCACAA
ATTGTACGAAAAATCAAAGCTATTCCTCAGCTCCAGGGCTACCTGCGATCTGTGTTTGCCCTGACGAATGGAATT
TATCCTCACAAATTGGTGTTT**TAA**

4510/6881
FIGURE 4158

MNKTDKNPCFQKFVIAISTKTGISNVKIPKHLIDAHFEKQLQKPRHQEGEISDTEKENYKTTEQCKIDQKAVDSQ
IVRKIKAIPQLQGYLRSVFALTNGIYPHKLVF

4511/6881
FIGURE 4159

GGGAGAGTCGAACCCGGAGCAGGGTCCCATCCGAGCGTGGACTGGCGGCAGGATGTTTCAGCTGGATGGGGCGGCA
GGCGGGCGGGCGCGAACGCGCTGGCGGCGCGGACGCGGTGCAGACGGTGACGGGCGGGCTGCGCTCGCTCTACCT
GCGCAAGGTGCTGCCGCTGGAGGAGGCGTACCGCTTCCACGAGTTCCACTCGCCTGCGCTGGAGGACGCCGACTT
CGAGAACAAGCCCATGATCCTGCTGGTGGGCCAGTACAGCACCGGCAAGACCACCTTCATCAGATACCTACTGGA
GCAGGATTTCCAGGCATGAGGATTGGTCCGGAGCCCACCACAGACTCCTTCATCGCCGTGATGTATGGAGAGAC
TGAGGGCAGCACCCAGGGAATGCTTTAGTCGTGGACCCCAAAAAGCCGTTTAGAAAAGCTCAGTCGCTTTGGAAA
CGCTTTCCTGAATCGATTTCATGTGCTCACAGCTCCCCAATCAGGTCCTGAAGAGCATCAGCGTCATCGACAGCCC
CGGCATCCTTTCTGGGGAGAAGCAGCGCATCAGCCGAGGCTATGACTTCTGCCAGGTCCCTGCAGTGTTTGGCGA
GAGGGTGGACAGGATCATCTGCTCTTTGACGCTCACAAGCTGGACATCTCAGATGAATTCTCAGAGGCCATCAA
GGCCTTCCGGGGCCAGGACGACAAGATCCGTGTCGTGCTGAACAAGGCCGACCAAGTGGACACGCAGCAGCTGAT
GCGGGTCTACGGGGCCCTCATGTGGTCCCTAGGCAAGGTCATCAACACGCCCCGAGGTACTGCGCGTCTACATTGG
CTCCTTCTGGGCGCAGCCCCCTGCAGAACACGGACAACCGCCGGCTCTTCGAGGCTGAGGCCAGGACCTCTTTAG
AGACATCCAGAGCCTCCCCCAGAAGGCAGCGGTGCGCAAGCTCAACGACCTCATCAAGCGAGCGAGGCTGGCCAA
GGTGATGCCTACATCATCAGCTACCTGAAGAAGGAGATGCCAAGTGTATTTGGAAAGGAAAAACAAGAAGAGAGA
GCTTATCAGCAGGCTACCGGAAATCTACATTACAGCTACAGCGAGAATACCAGATTTCTGCAGGGGACTTCCCTGA
GGTCAAGGCTATGCAGGAACAGCTTGAGAACTATGACTTCACCAAATTCCACTCGCTGAAGCCCAAGCTGATCGA
GGCAGTGGACAACATGCTGAGCAACAAGATCTCGCCCCCTCATGAACCTCATCAGCCAGGAGGAGACGAGCACGCC
CACGCAGCTGGTGCAGGGCGGGCGCCTTCGATGGCACCACCGAGGGCCCCCTTCAACCAGGGGCTACGGGGAGGGTGC
CAAGGAGGGCGCCGACGAGGAGGAGTGGGTGCTGGCCAAAGACAAGCCCGTCTACGACGAGCTCTTCTACACTCT
GTCGCCCATCAATGGCAAGATATCAGGTGTCAACGCCAAGAAGGAGATGGTGACCTCCAAGCTGCCCAACAGCGT
CCTGGGCAAGATCTGGAAGCTGGCCGACTGCGACTGCGACGGCATGCTTGATGAGGAGGAGTTCGCGCTGGCCAA
GCACCTCATCAAGATCAAGCTCGACGGCTACGAGCTGCCAGCAGCCTGCCCCCCCACCTCGTGCCCCCTCGCA
CAGGAAGTCCCTGCCCAAGGCCGACTGAGGGGTGGGCTGCAGAACGGGGTGGGAACTGGGGGACCTGGGCCTCAG
GCCTGCTCCACCACTGACTCACCGAATGACCTTGGGCAAGGCACCTGCCCTCTCTGTGCCTTGGTTTCCCCATCTG
TAGAATGGGGAGGGTGGACACTGGAACTAGATGACTTCTTTCACCTCCAAAATTCCCTTAGTTTCTATGAAAAT
ATTGGGGGTAGGGGGGTGGATTAGGAGATTGAAGGGTTGAGAAGAAAGAGAAATTGTCCAAAGAGTCTCAGAAC
CTGCCTGGAGAAATGCGCATGGGGGTGGGCCTGGTAAGTCCAGGAACACAGGAAGTGAGCTAAGGCTCACCCA
GAGCAGCTGGGTCTCCAGGCTGCCTGGGCTTTTTGTCTCATGAACAACCTCTGGAGCAGCTGTCTGTCCCTCAGA
GGGCACCTGGAGGCAGCAAAGATTATCTTATTTATTTTATTTTGTCTTCTGCTATATTTAGAGTGGCAAAAAAAT
AGAGCAGAGGGTTTCTGCTGTCTCCAGACTGTCTACCAAAGAGAAGGCGACAGATGCCTCCTGGGTTTGGAAAGGG
GGATGCACTGTGGATCTGCCATCCATTCTGCAGTCTCCAGCAGAGCAGGCAGTCAGGCCCCAGCGTGCCTCCATC
CCAGTGCCCCGATGACCATCTGGTCAGCCCTCCCAACCTCCCTTCCAGGGGGCTTACCAGCAAAGCCATATTCCGG
CTAGGAATTTGGAATTCACAACCTTTATTAACCCCTGGCAAAACTTCCCGTTTGCATGTCAAATCACATTGAAGC
CTGAAAATTAGCTTTTCTTACTGGTTTTTCCAATAAGTAATAGCAAAGCCCACTTATCATACTTAACTACAGTA
AAGAAAAGAGGTGGTTCTCTGCAGTGATCGTTTGTGTGGCCCTCAAACATTAAATATCCCGAGGTCTCCTTGGT
GGGTGGCAGGATTTAAATTCAATCAAATCCTGTCCTAGTGTGTGCAGTGTCTTCGGCCCTGTGGACACAGGTGAA
TGAGGGACCAGCCCTGCCCTGGGCTGTTGAGAAGAGATCAGTCCACCCAGAGTTAGACATTGTTTTTGTAGAAAA
CAGGCATTTATTATGTCTAGGGTTTTGTGTTTTTTTTTCTTACAGGATAAAAGCCTTTATACAGAAACAAA
ATGGAACCTTTCATATAAAACCTTTTCTTT

4512/6881
FIGURE 4160

CGAACCCGGAGCAGGGTCCCATCCGAGCGTGGACTGGCGGCAGGATGTTTCAGCTGGATGGGGCGGCAGGCGGGCG
GGCGCGAACGCGCTGGCGGCGCGGACGCGGTGCAGACGGTGACGGGCGGGCTGCGCTCGCTCTACCTGCGCAAGG
TGCTGCCGCTGGAGGAGGCGTACCGCTTCCACGAGTTCCACTCGCCTGCGCTGGAGGACGCCGACTTCGAGAACA
AGCCCTTCTACACTCTGTGCGCCATCAATGGCAAGATATCAGGTGTCAACGCCAAGAAGGAGATGGTGACCTCCA
AGCTGCCCAACAGCGTCCTGGGCAAGATCTGGAAGCTGGCCGACTGCGACTGCGACGGCATGCTTGATGAGGAGG
AGTTCGCGCTGGCCAAGCACCTCATCAAGATCAAGCTCGACGGCTACGAGCTGCCAGCAGCCTGCCCCCCCACC
TCGTGCCCCCCTCGCACAGGAAGTCCCTGCCCAAGGCCGACTGAGGGGTGGGCTGCAGAACGGGGTGGGAAGTGG
GGGACCTGGGCCTCAGGCCTGCTCCACCACTGACTCACCGAATGACCTTGGGCAAGGCACTGCCCTCTCTGTGCC
TTGGTTTCCCATCTGTAGAATGGGGAGGGTGGACACTGGAACTAGATGACTTCTTTACCTCCAAAATTCCCT
TAGTTTCTATGAAAATATTGGGGGTAGGGGGGTGGATTAGGAGATTGAAGGT

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FIGURE 4161

ATGCCGACCGTCATTAGCGCATCTGTGGCTCCAAGGACAGCGGCTGAGCCCCGGTCCCCAGGGCCAGTTCCTCAC
CCGGCCCAGAGCAAGGCCACTGAGGCTGGGGGTGGAAACCCAAGTGGCATCTATTGAGCCATCATCAGCCGCAAT
TTTCTATTATCGGAGTGAAAGAGAAGACATTCGAGCAACTTCACAAGAAATGTCTAGAAAAAGAAAGTTCTTTAT
GTGGACCCTGAGTTCCACCGGATGAGACCTCTCTCTTTTATAGCCAGAAGTTCCCCATCCAGTTCGTCTGGAAG
AGACCTCCGGAAATTTGCGAGAATCCCCGATTATCATTGATGGAGCCAACAGAACTGACATCTGTCAAGGAGAG
CTAGGGGACTGCTGGTTTCTCGCAGCCATTGCCTGCCTGACCCTGAACCAGCACCTTCTTTTCCGAGTCATACCC
CATGATCAAAGTTTCATCGAAAACCTACGCAGGGATCTTCCACTTCAGTTCTGGCGCTATGGAGAGTGGGTGGAC
GTGGTTATAGATGACTGCCTGCCAACGTACAACAATCAACTGGTTTTACCAAGTCCAACCACCGCAATGAGTTC
TGGAGTGCTCTGCTGGAGAAGGCTTATGCTAAGCTCCATGGTTCCTACGAAGCTCTGAAAGGTGGGAACACCACA
GAGGCCATGGAGGACTTCACAGGAGGGGTGGCAGAGTTTTTTGAGATCAGGGATGCTCCTAGTGACATGTACAAG
ATCATGAAGAAAGCCATCGAGAGAGGCTCCCTCATGGGCTGCTCCATTGATGATGGCACGAACATGACCTATGGA
ACCTCTCCTTCTGGTCTGAACATGGGGGAGTTGATTGCACGGATGGTAAGGAATATGGATAACTCACTGCTCCAG
GACTCAGACCTCGACCCCAGAGGCTCAGATGAAAGACCGACCCGGACAATCATTCCGGTTCAGTATGAGACAAGA
ATGGCCTGCGGGCTGGTCAGAGGTCACGCCTACTCTGTACGGGGCTGGATGAGGTCCCGTTCAAAGGTGAGAAA
GTGAAGCTGGTGCGGCTGCGGAATCCGTGGGGCCAGGTGGAGTGGAACGGTTCTTGGAGTGATAGATGGAAGGAC
TGGAGCTTTGTGGACAAAGATGAGAAGGCCCGTCTGCAGCACCAGGTCACTGAGGATGGAGAGTTCTGGATGTCC
TATGAGGATTTTCATCTACCATTTACAAAAGTTGGAGATCTGCAACCTCACGGCCGATGCTCTGCAGTCTGACAAG
CTTCAGACCTGGACAGTGTCTGTGAACGAGGGCCGCTGGGTACGGGGTTGCTCTGCCGGAGGCTGCCGCAACTTC
CCAGATACTTTCTGGACCAACCCTCAGTACCGTCTGAAGCTCCTGGAGGAGGACGATGACCCTGATGACTCGGAG
GTGATTTGCAGCTTCTTGGTGGCCCTGATGCAGAAGAACCGGCGGAAGGACCGGAAGCTAGGGGCCAGTCTCTTC
ACCATTGGCTTCGCCATCTACGAGGTTCCCAAAGAGATGCACGGGAACAAGCAGCACCTGCAGAAGGACTTCTTC
CTGTACAACGCCTCCAAGGCCAGGAGCAAAACCTACATCAACATGCGGGAGGTGTCCCAGCGCTTCCGCCTGCCT
CCCAGCGAGTACGTATCGTGCCCTCCACCTACGAGCCCCACCAGGAGGGGGGAATTCATCCTCCGGGTCTTCTCT
GAAAAGAGGAACCTCTCTGAGGAAGTTGAAAATACCATCTCCGTGGATCGGGCCAGTGAAAAAGAAAAAACCAAG
CCCATCATCTTTCGTTTCGGACAGAGCAAACAGCAACAAGGAGCTGGGTGTGGACCAGGAGTCAGAGGAGGGCAAA
GGCAAAACAAGCCCTGATAAGCAAAAGCAGTCCCCACAGCCACAGCCTGGCAGCTCTGATCAGGAAAGTGAGGAA
CAGCAACAATTCCGGAACATTTTCAAGCAGATAGCAGGAGATGACATGGAGATCTGTGCAGATGAGCTCAAGAAG
GTCCTTAACACAGTCGTGAACAAACACAAGGACCTGAAGACACACGGGTTCACTGGAGTCTGCCGTAGCATG
ATTGCGCTCATGGATACAGATGGCTCTGGAAAGCTCAACCTGCAGGAGTTCCACCACCTCTGGAACAAGATTAAG
GCCTGGCAGAAAATTTTCAAACACTATGACACAGACCAGTCCGGCACCATCAACAGCTACGAGATGCGAAATGCA
GTCAACGACGCAGGATTCCACCTCAACAACCAGCTCTATGACATCATTACCATGCGGTACGCAGACAAACACATG
AACATCGACTTTGACAGTTTCATCTGCTGCTTTCGTTAGGCTGGAGGGCATGTTTCAAGCTTTTTCATGCATTTGAC
AAGGATGGAGATGGTATCATCAAGCTCAACGTTCTGGAGTGGCTGCAGCTCACCATGTATGCC**TGA**

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FIGURE 4162

MPTVISASVAPRTAAEPRSPGVPHPAQSKATEAGGPNPSGIYSALISRNFPPIIGVKEKTFEQLHKKCLEKKVLY
VDPEFPPDETSLFYSQKFP IQFVWKRPEICENPRFIIDGANRTDICQGELGDCWFLAAIACLTNLQHLLFRVIP
HDQSFIENYAGIFHFQFWRYGEWVDVVIDDCLPTYNQLVFTKSNHRNEFWSALLEKAYAKLHGSYEALKGGNTT
EAMEDFTGGVAEFFEIRDAPSDMYKIMKKAIERGSLMGCSIDDGTNMTYGTSPSGLNMGELIARMVRNMDNSLLQ
DSDLDPRGSDERPTRTIIPVQYETRMACGLVRGHAYSVTGLDEVFPFKGEKVKLVRLRNPWGQVEWNGSWSDRWKD
WSFVDKDEKARLQHQVTEDEGEFWMSYEDFIYHFTKLEICNLTADALQSDKLQTTWTVSVNEGRWVRGCSAGGCRNF
PDTFWTNPQYRLKLLEEDDDPDDSEVICSFVLALMQKNRRKDRKLGASLFTIGFAIYEVPKEMHGKQHLQKDFE
LYNASKARSKTYINMREVSQRFRLPPSEYVIVPSTYEPHQEGEFILRVFSEKRNLSSEVENTISVDRPVKKKKTK
PIIFVSDRANSNKELGVDQSEEEGKGKTSPOKQKQSPQPGSSDQSEEEQQQFRNIFKQIAGDDMEICADELKK
VLNTVVKHKDLKTHGFTLESCRSMIALMDTDGSGKLNLEFHHLWNKIKAWQKIFKHYPDQSGTINSYEMRNA
VNDAGFHLNNQLYDIITMRYADKHMNIDFDSFICCFVRLEGMFRAFHAFDKDGDGI IKLNVLEWLQLTMYA

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FIGURE 4163A

CAACAATTTATAGAATTGGATTGAAAGTGCCACCTGATGAAAGGGATCCTCGAGTCCCCATGCTGACCTGGAGCA
CCTGCGCTTTTACTATCCAGGCAATTGAAAATCTATTGGGAGATGAAGGAAAACCTCTGTTTGGAGCACTTCAA
ATAGGCAGCATAATGGTCTGAAAGCATTAAATGCAGTTTGCAGTTGCACAGAGGATTACCTGTCTCAGGTCCTGA
TACAGAAACATCTGGTTCGTCTTCTATCAGTTGTTCTTCTAACATAAAATCAGAAGATACACCATGCCTTCTGT
CTATAGATCTGTTTCATGTTTTGGTGGGTGCTGTGTTAGCATTCCCATCCTTGTATTGGGATGACCCTGTTGATC
TGCAGCCTTCTTCAGTTAGTTCTTCTATAACCACCTTTATCTCTTCCATTGATCACCATGGCACACATGCTTC
AGATACTACTTACAGTAGACACAGGCCTACCCCTTGCTCAGGTTCAAGAAGACAGTGAAGAGGCTCATTCCGCAT
CTTCTTTCTTTGCAGAAATTTCTCAATATAACAAGTGGCTCCATTGGGTGTGATATTCTGGCTGGTATTTGTGGG
TCTCACTGAAGAATGGCATCACCCCTTATCTTCGTGTGCTGCATTGTTTTTCCACTATTTACTTGGGGTAACTC
CGCCTGAGGAACATGCATACCAATTCTGCAGAAGGAGAGTACAGTGCACCTCTGTAGCTATCTATCTTTACCTACAA
ATTTGTTTCTGCTCTTCCAGGAATATTGGGATACTGTAAGGCCCTTGCTCCAGAGGTGGTGTGCAGATCCTGCCT
TACTAAACTGTTTGAAGCAAAAAACACCGTGGTCAGGTACCCTAGAAAAAGAAATAGTTTGATAGAGCTTCCCTG
ATGACTATAGCTGCCTCCTGAATCAAGCTTCTCATTTCAGGTGCCACGGTCTGCAGATGATGAGCGAAAGCATC
CTGTCTCTGCTTTTCTGTGGGGCTATACTATGTTCTCAGAACATTTGCTGCCAGGAAATTTGTGAACGGGGGAG
AGGTTGGAGCTTGCATTTTTTACGCACCTTCACTGTGGAGCCGGAGTCTGCATTTTCTAAAAATCAGAGAATGCC
GAGTGGTCTGGTTGAAGGTAAAGCCAGAGGCTGTGCCTATCCAGCTCCTTACTTGGATGAATATGGAGAAACAG
ACCCTGGCCTGAAGAGGGGCAACCCCTTCAATTTATCTCGTGAGCGGTATCGGAAGCTCCATTTGGTCTGGCAAC
AACACTGCATTATAGAAGAGATTGCTAGGAGCCAAGAGACTAATCAGATGTTATTTGGATTCAACTGGCAGTTAC
TGTGAGCTCCAACCTCTGCCTCAAGACAATCACAATGACGACAGTAGTAAAGGCTGATTCAAATTATGGAAAC
TTTCTGAGGGCTGGGAAAGTATTGGAGGGTCTTTTGTCTCCATGTCCAGGTTCACTTACATCAATAAAATATTTCT
TAATGGAGTATTGCTTTCAATTAGCAAACATATGCTTTCACAGGAAAAAGGACATAGATCAATCTGTTTTATGTG
CTAGTATTTCCAGGAATTTATTTCCCTTCATAATTTGTCTCATTTCATTTTATTTTATCCACTTGGTAGATGAAG
TCACGTCAAACAGTTGTAGACATTTTATATGTTGGTTAACTCTTCTGCAATTTTGTATTGGTGTTTTCCCCCA
AGTTTAGTTCAACTGACATTGGATCACTGACAAAATTCTAATAATCTGTGATAGTCTTCTTGCAGTTAAAGAAG
AATTGCAGAAACCATGCAATATACTTGGGAAAGATTCCAAAAATAAATTTTTTATTATTTCTTTTTAAGGAAAT
ACCCCTAATGTGCCACCTGCTGCTATCACCACAAATTAACTCAATCTCTATGTGGACAGAGGATGATTTCTGCC
AATATGGAAAAGCTTTTTTCTCACTGTAGGCCTCAAGAAAAGTTAGGGTAATGTATTGTTATTCTTCTGACG
GTACAAAGAGCTTGCAGTTCTCACCTCTGACTACCAGTAGCTTTGTTGAGTTTTGAAATAATACTTGACATTTTC
CAAAGGCAAATCTCATTCTGCAAGGAGATTGTGGCACCATCCTGTTTGACTCTCAGAAACCTCTTGTAATTCTGA
TGTA AAAACTGTAGAATGAAGATGAGAAAATTCTCGCAATGAGTGGATCATGACAACTGTAAATTAGAACAATCA
GATTTAAACCAATTCGCGAGTCTTCTATATCTTTGTAAAAGACAAATCCTTGATGTTGTCTGTGTGCAACCTTTT
CATAAACTCTGGTTTTATGACTAGTACAAACCACCAAAAAAGCCATGTGATCAATAGTCTGTGTCTCTGTTATAAC
ATGCTGTGGTTGAGCCATCTTGTTTATAAATAATAGAGCTCTCCTGAATTTGTGCATAGACTTCTTGGTTCTCGG
CTTTTGTTTTTTGTATCAAGAGATTGTGATATAAAACAGCAGAAGATAAATGGAAACCTTCCATTTTAACTTACG
TTGTTTCTGGGGTAATGTTAGAACCTTGAAAGATGCATTCAAAGACTGTATCTTATTTTGGCCTTGGCTATTAGT
GTCTCACATATGTGTGTAATGTTTTCTTACCTTCTTTTTGCTCAGCAAAGGCAAGCAAGTAAAATATATTTGCT
AAGTGATTAGTGATGCACATTTGGGGCTAGATTTTTTTGGTACTTTTTATGTAAAGAAAAGTGGATTTTGCAGTAA
GGGATTGGCATGAGCAGGCGTCAGAAATCACAATCATGATTTTCTACTTGAATAATTACAATTCAGAAGGTATCTG
GATAAATAGATACATGTCTAGTGAACAATTTGTAACAATAACAGGTAAGGATCAGGAAATTCAGTATTCAGTTTG
TCAGATTTGCCAGAATGATGAAAGTATTTGAACATGTGTGTTTGTCTTATATAATTGTATTGAGTGGATTGTT
TGA CTGGGAAATCTGGGCTAGAATAGGAAACAGAAGATACTGACTTCTACCCTAATAGATGGGCCCCAATTTAGC
AAAGATAAACTGACTTTTATTTTATGTCCTTTTTATATTAACCTTAATAAATCTGGAGTTAGGCTCTCAAGAGGAC
AGAGGGACTGTCTGGCAATGGCCAGCCAGACCTTTACTGCCAAAGAACCCATTTCATATTGCGTTCCACTGATTG
AGATTGATTGAGATTTTGCAGTGTAGATGAGCGTATGTCTCAGTGTGCCCCAAGCCCCAGGGATTTCTCATT
TGTTCAAATGTCCTAGTGATTTACCTTAATCATTGCAAACAATTATGCTTATGAAGTTTACTTACAAACAAGCAA
CTGAGTCACTTTATTTTCTTTAGTGTAGTATGTGAAGGCACTGGTTCAACAGGATGGCTCCAGAACTGTGTTTTT
CTAATGTTTGGTAAGGGGCTAGTGAGAAATTTAATGATATGGTGAAGAAAAATATATCTGTATAATTAATTTATT
ATATTGGTGTATGGGCTGTGAGTTCACCTTTTAGTGGTCATTTGTCAATTCATAACAACATATGCATTTTGGTTCA

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FIGURE 4163B

CTGTGATGATGATCTATATTTAGTGACTGCAACATGTTTATACCACTGATTCAAATTCATCCATGATGAAGTTA
TACAAATAATGCATATATTGATAACTTTTATTGCAAAAATGTAAATTAAAACTTGTATAATGTTCTTGTGCTTT
TTAAATAAAATATATGTGTATATT

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FIGURE 4164

MAHMLQILLTVDTGLPLAQVQEDSEEAHSASSFFAEISQYTSIGCDIPGWYLVVSLKNGITPYLRCAALFFHY
LLGVTPPEELHTNSAEGEYSALCSYLSLPTNLFLFQEYWDTVRPLLQRWCADPALLNCLKQKNTVVRYPRKRNS
LIELPDDYSCLLNQASHFRCPRSADDERKHPVLCLFCGAILCSQNICCQEIVNGEEVGACIFHALHCGAGVCIFL
KIRECRVVLVEGKARGCAYPAPYLDEYGETDPGLKRGNPLHLSRERYRKLHLVWQQHCIEEIARSQETNQMLFG
FNWQLL

4518/6881
FIGURE 4165

CCTTTTGGCTCTCTGACCAGCACCCATGGCGGTTGGCAAGAACAAGAGCCTTACGAAAGGCGGC AAAAAGGGAGCC
AAGAAGAAAGTG GTTGATCCGTTTTCTAAGAAAAATTGGTATGATACGAAAGCACCTGCTATGTTCAATATATGA
AATATTGGAAAGATGCTGGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGATCTCAAGGGTCATGTGTTT
GAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTT CAG
GGTAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAACGTGTTCCATGGTCAAAAAATGG
CAGACAATGATTGAAGCTCATGTTGATGTCAAGACTACCGATGGTTACTTGCTTCATCTGTTCTGTGTTGGTTTT
AATAAAAAACGCAACAATCAGATATGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAG
ATGATGGAAATCACGACCCGAGAGGTGCAGACTAATGACTTGAAAAGAAGTGGTCAATAAATTGATTCCAGACAGC
ATTGGAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCGTGATGTCTTCGTTAGAAAAGTAAAAATG
CTGAAGAAGCCCAAGTTTGAATTGGGAAGGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACT
GGGGATGAGACAGGTGCTAAAGTTGGACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTTAAAGTTCA
GACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGTGA

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FIGURE 4166

WRLARTRALRKAARKREPRRKWLIRFLRKIGMIRKHLCSYENIGKMLVTRTQGTKIASDDLKGHVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKTCSMVKKWQTMIEAHVDVKTTDGYLLHLFCVGFNKKRNNQI
WKTSYAQQHQQVRQIRKKMMEITTREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLRDVVFVRKVKMLKKPKFEL
GRLMELHGEGSSSGKATGDETGAKVGRADGYEPPVQESV

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FIGURE 4167A

CACAACCGTGACAGACTGCCATTCTGAGTCTCTTCTGGCCATGGGCCCGGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCCTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTGCTGGTTCCGGGCGCGGCGCGCCGCGCACCGCTCATTACCGAGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGCGCGCTTTTTTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCTGGCCCCGGGCTGCAGTCTGGG
AGGTGGATTTTCCGGACGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTTCGAGAGGGGGGAGCCCGCGTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCCGCGGGGCTCGACGCAGCCTCACCCACTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGGAGAGTGCCGCGGCCCTCATCGCTGGGCAGCCCAGCGTTTTTCCTA
ATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCTCAAGACGCCTTTGGCCAGTTCATGCTGCAACATTTTCGGC
AGCTAAACTCCCCCTGCATGGCCTGGAGCGTTTTTCCTGACGTGGAGGCGCAGCGGCGCCGCTTCCTCAAGCTG
GCTGGACCGCCTGCGGTGCGGTGGACATGAATGAATTCATCACTGCTTTCTTCCCGCAGAAGAACGCCGGCGGG
TGGAAAATATTGAACCCCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGCGCCATTATTTCACTCTGGCAGCTT
CTAGGGGAGACACCCTCTCCACACCCTAGTGTTCATCCTCAGAGGCATTTCTCGCGTAAATCCTGCTTCGC
CTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCT
CTGTCTTCTTGAGCCCAGACGTTATTCTCAGTGCAGGAGGATTTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTCACCTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCCTTTATCACACCATGACAAGACTCTCAGAGAGTCGGGTTCTGGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTTGGGGGTTCTCCAGCTTCATTTTTTTAAGAGTGAGGATAATAACACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCCACTTTGTGTTGTTGGCGGCATTCAACAACAGAAG
TGTCTGTGCAATCAGGAATATTTGTTTGTGTATGGGGGTGCAAGCGTGGTGGAAACCTGTACTAAGTGACTGGC
ATTTCTCCATGTAGGGACAATGGCTTGGGTGAGGATCCAGTGGAGGGAGAAGTACCTGAAGCCCGGCATTCTC
ACAGTGCCTGCCTTGGCAAGGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAACTCTG
TGCTCTTTCTGAGACCAATCTCTTGTGATTCTCTGGGAGTCAGTAGACATCCAGCCTCCCATTACCCCAAGGT
ACTCCACACAGCTCATGTGCTCAATGGAAGCTGTTACTGGTTGGAGGGATCTGGATTCACTCCTCCTCATTTC
CTGGAGTGAAGTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTGCCATGGC
CATTAATGTTACACAACCATACTAGTATCCTTCTTCTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCTTTGTTACCTACTTCAACCCCCATACAGTCACATTAGACCTTTCTTCTTAAGTGCTGGGCAGT
AAGGACTGGACTAATATTAGGACCCACTAAAGTAGACAATAAAGTTTCCACAAATAGGATGACCCTCTAGCTA
TAGATACTGCCACTCCTCCTTTCCCCATCCTTTTTTTCCCTTAGCACTATTAGTGCAAAAAGTGAAAAAGGTTG
GTAAAAATAGGTAAAATACCTAGAAAACATCACTACAGAAAACAGCTGAAGACAGTGGCCATGCAGTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTTCTAATCTAAGTTGTTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAAACAAT
TTCCCAATCCCAGGCCTTGTGATTTGAGATGGTACCTTAGAAAAAGTTACACGCAGTTCCGTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAACATTGTCTGTTTGTGCAACAGAAAAC
TCGGATAGTTTTAACAACAGGAAACACTTGTAGGACTTCCTTTACCAACATACTTTTTAAATGTTTTGCTATTGG
TTCCATATTTATTTAGATTTATAAGTGTCAATAAAGCAAACCTTTTGATGCCTCAATTCATTTTGACGGGGTATA
ATAATGTTTTGTTCCAGATATACTCTCCACCTTTCACTGTTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTGTTGAGTTCACCAGTCAGAGGCACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTTCCCAATCTTCCCCTGTTGGTTTTGCAAGTTGGCAGTGGCAGCATTCTTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTCTGAAGACAGAGTTCTAATTCTGCATCATCCCAGGTTTCAG
TAATTGTTCTTTACTTCACCTTTTCAGGCCTAGGAGTTGTGATGGCTCTTTGCTAGACCTGAAGTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATTCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAATGTAGATGTAGAACATTTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTTCCCTTAACCCTACTCAGCCCTTATAGT
TAGCATCCCATTAACCTCAATTATCCCTTTTAAATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTATCCTTAAAATTTGAGCCTTAATTTGTCATCTAAATTATGCATACCTTGTGAAATATACACCTCAA
AAAATGTAGTGGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTTCTTCTTAGTCCTAGAAACCTTAGTAGTTT

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FIGURE 4167B

TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTTCTATTAATTT
TGCATATAAATGGATGTGAAAGGTGATTAATATAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCACGCCTATAATTCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
AGCCCAGGCAACAAAGTCAGATCCCCATCTCTACAAAAAATAAGTAGGCACGGTGGTGTGTGCTTGTAGTCTTG
GATACTCTGGAGGCTGAGGTGATAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGGTTGACAGAGTGAGACC
CCGTCTCTTAAAAAGAAAAAAAAAAAAAGGTTGTTGTCCAACCTTCAGCTTTCCTGAGACTTTGTAAGAGCCATTTC
TAGGGAAAGCATTGGTTATGGCTATGACTGAGTCCTGGGAAACAGGGCTTATTACAGCTGGGAAGACATCTGGCA
AGGCGATCAGTGGGCCAGGTAGTAGAAAACCTGGCAGGGAATATGATCAGCAGGAGAAAATGGCTGTTCTGTATTT
CCTGTTTCTAAGTTTACTACAGCACACCCAGCTTTCAGGAGCAGATAAAAGCAGAACTGTGATGAGGCCAGG
CGCAGTGGCACATGCCTTGATCCCAGCACTTTGGGAGGCCAAGGCTGGCAGATCACTTGAACCTCAGGAGTTGGAG
ACCAGCCTGGCCAATATGGTGAACTCCGTCTCTACCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 4168

GA**ATG**ATCCACGAACTGCTCTTGGCTCTGAGCGGGTACCCTGGGTCCATTTTACCTGGAACAAGCGGAGTGGCC
TGCAGGTATCGCAGGACTTCCCTTTTCTCCACCCAGTGAGACCAGTGTCTGAATCGACTCTGCCGGCTCGGCA
CAGACTATATTGCTTCACTGAGTTCATTGAACAGTACACGGGCCATGTGCAACAGCAGGATCACCATCCATCTC
AACAGGGCCAAGGTGGGTACATGGAATCTACCTGCGGGCCTTCTGCACAGGGCTGGATTCTGTTTTGCAGCCTT
ATCGCCAAGCACTGCTTGATTTGGAACAAGAGTTCCTGGGTGATCCCCATCTCTCCATATCACATGTCAACTACT
TCCTAGACCAGTTCAGCTTCTTTTTCCCTCTGTGATGGTTGTAGTAGAACAATTAAAAGTCAAAAGATTTCATG
GTTGTCAAATCCTGGAAACAGTCTACAAACACAGCTGTGGGGGGTTCCTCCTGTTTGAAGTGCACTGGAAAAA
TCCTGGCCGTTTGTATGGGGTCATGTATAAACAGCTCTCAGCCTGGATGCTCCATGGACTCCTCTTGGACCAGC
ATGAAGAATTCTTTATCAAACAGGGGCCATCTTCTGGTAATGTGAGTGGCCAGCCAGAAGAGGACGAGGAGGATC
TGGGCATTGGGGGACTGACAGGAAAACAACAGAGAACTGCAGGACTTGCGCCTGATTGAGGAAGAGAACATGC
TGGCACCATCTCTGAAGCAGTTTTTCCCTACGAGTGGAGATTTTGCCATCCTACATTCCAGTGAGGGTTGCTGAAA
AAATCCTATTTGTTGGAGAATCTGTCCAGATGTTTGAAGATCAAAATGTGAACCTGACTAGAAAAGGATCCATTT
TGAAAAACCAGGAAGACACTTTTGCTGCAGAGCTGCACCGTCTCAAGCAGCAGCCACTCTTCAGCTTGGTGGACT
TTGAACAGGTGGTGGATCGCATTTCGAGCACTGTGGCTGAGCATCTCTGGAAGTTGATGGTAGAAGAATCCGATT
TACTGGGTCAGCTGAAGATCATTAAAGACTTTTACCTTCTGGGACGTGGAGAACTGTTTCAGGCCTTCATTGACA
CAGCTCAACACATGTTGAAAACACCACCCACTGCAGTAACTGAGCATGATGTGAATGTGGCCTTTCAACAGTCAG
CACACAAGGTATTGCTAGATGATGACAACCTTCTCCCTCTGTTGCACTTGACAATCGAGTATCACGGAAAGGAGC
ACAAAGCAGATGCTACTCAGGCAAGAGAAGGGCCTTCTCGGGAAACTTCTCCCCGGGAAGCCCCCTGCATCTGGCT
GGGCAGCCCTAGGTCTTTTCTACAAAGTACAGTGGCCACTACATATTCTCTTACCCAGCTGTCTTGAAAAGT
ACAATGTTGTTTTTAAGTACTTACTGAGTGTGCGCCGGGTGCAAGCTGAGCTGCAGCACTGCTGGGCCCTACAAA
TGCAGCGCAAGCACCTCAAGTCGAACCAGACTGATGCAATCAAGTGGCGCCTAAGAAATCACATGGCATTTTTGG
TGGATAATCTTCAGTACTATCTCCAGGTAGATGTGTTGGAGTCTCAGTTCTCCAGCTGCTTCATCAGATCAATT
CTACCCGAGACTTTTGAAGCATCCGATTGGCTCATGACCACTTCTGAGCAATTTGCTGGCTCAATCCTTTATCC
TATTGAAACCTGTGTTTCACTGCCTGAATGAAATCCTAGATCTCTGTACAGTTTTTGTTCGCTGGTCAGTCAGA
ACCTAGGCCCCACTGGATGAGCGTGGAGCCGCCAGCTGAGCATTCTCGTGAAGGGCTTTAGCCGCCAGTCTTCAC
TCCTGTTCAAGATTCTCTCCAGTGTTCGGAATCATCAGATCAACTCAGATTTGGCTCAACTACTGTTACGACTAG
ATTATAACAAATACTATACCCAGGCTGGTGGAACTCTGGGCAGTTTCGGGATG**TGA**

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FIGURE 4169

MIHELLLALSGYPGSIFTWNKRSGLQVSQDFPFLHPSETSVLNRLCRLGTDYIRFTEFIEQYTGHVQQQDHHPSQ
QGQGLHGIYLRACFCTGLDSVLQPYRQALLDLEQEFLGDPHLSISHVNYFLDQFQLLFPSVMVVVEQIKSQKIHG
CQILETVYKHSCGGLPPVRSALAKILAVCHGVMYKQLSAWMLHGLLLDQHEEFFIKQGPSSGNVSAQPEEDEDL
GIGGLTGKQLRELQDLRLIEENMLAPSLKQFSLRVEILPSYIPVRVAEKILFVGESVQMFENQNVNLTRKGSIL
KNQEDTFAAELHRLKQQPLFSLVDFEQVVDRIESTVAEHLWKLMVEESDLLGQLKIIKDFYLLGRGELFQAFIDT
AQHMLKTPPTAVTEHDVNVAFAQSAHKVLLDDDNLLPLHLTIEYHGKEHKADATQAREGPSRETSPREAPASGW
AALGLSYKVQWPLHILFTPAVLEKYNVVFKYLLSVRRVQAELOHCWALQMQRKHLKSNQTDKWLRLRNHMAFLV
DNLQYYLQVDVLESQFSQLLHQINSTRDFESIRLAHDHFLSNLLAQSFILLKPVFHLNEILDLCFSFCSLVSQN
LGPLDERGAAQLSILVKGFSRQSSLLFKILSSVRNHQINSDLAQLLLRLDYNKYITQAGGTILGSFGM

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FIGURE 4170A

CGTTGTTTGGCGTGTTTTTTTTTTTTGTTTTTGTCACTGCCTGCCTGGGTCCCTGCCCGAGGTCTCCATCCTCGGT
TTCCCTGTCTTGCCCCGGGCCCTGGGAGTGCTCTGGAAGGCTGCGCAGTATTGGAGGGGACAGAATGACCTTCC
GGCCTTGAGTCCCTGGGGAGCAGATGGACCCTACTGGAAGTCAGTTGGATTTCAGATTTCTCTCAGCAAGATACTC
CTTGCTGATAAATTGAAGATTCTCAGCCTGAAAGCCAGGTTCTAGAGGATGATTCTGGTTCTCACTTCAGTATGC
TATCTCGACACCTTCCTAATCTCCAGACGCACAAAGAAAATCCTGTGTTGGATGTTGTGTCCAATCCTGAACAAA
CAGCTGGAGAAGAACGAGGAGACGGTAATAGTGGGTTCATGAACATTTGAAAGAAAACAAGGTTGCAGACCCTG
TGGATTCTTCTAACTTGGACACATGTGGTTCCATCAGTCAGGTCATTGAGCAGTTACCTCAGCCAAACAGGACAA
GCAGTGTTCTGGGAATGTCAGTGAATCTGCTCCTGCTGTGGAGGAAGAGAAGGGAGAAGAGTTGGAACAGAAAGG
AGAAAGAGAAGGAAGAAGATACTTCAGGCAATACTACACATTCCCTTGGTGCTGAAGATACTGCCTCATCACAGT
TGGGTTTTGGGGTTCTGGAACCTCTCCAGAGCCAGGATGTTGAGGAAAATACTGTGCCATATGAAGTGGACAAAAG
AGCAGCTACAATCAGTAACCACTCTGGTTATACCAGGCTGTCTGATGTGGATGCTAATACTGCAATTAAGC
ATGAAGAACAGTCCAACGAAGATATCCCCATAGCAGAACAGTCCAGCAAGGACATCCCTGTGACAGCACAGCCCCA
GTAAGGATGTACATGTTGTAAAAGAGCAAAATCCACCACCTGCAAGGTTCAGAGGACATGCCTTTTAGCCCCAAAG
CATCTGTTGCTGCTATGGAAGCAAAAGAAGAGTTGTCTGCACAAGAACTTATGGAAAGTGGACTGCAGATTTCAGA
AGTCACCAGAGCCTGAGGTTTTGTCAACTCAGGAAGACTTGTGTTGACCAGAGCAATAAAACAGTATCTTCTGATG
GTTGCTCTACTCCTTCAAGGGAGGAAGGTGGGTGTTCTTTGGCTTCCACTCCTGCCACCCTCTGCATCTCCTGC
AGCTCTCTGGTCAGAGGTCCCTTGTTTCAGGACAGTCTTTCCACGAATTCTTCAGATCTTGTTGCTCCTTCTCCTG
ATGCTTTCCGATCTACTCCTTTTATCGTTCCTAGCAGTCCCACAGAGCAAGAAGGGAGACAAGATAAGCCAATGG
ACACGTTCAGTGTTATCTGAAGAAGGAGGAGAGCCTTTTCAGAAGAACTTCAAAGTGGTGAACCAGTGGAGTTAG
AAAACCCCCCTCTCCTGCCTGAGTCCACTGTATCACCACAAGCCTCAACACCAATATCTCAGAGCACACCAGTCT
TCCCTCCTGGGTCACTTCCTATCCCATCCCAGCCTCAGTTTTCTCATGACATTTTTATTCTTCCCCAAGTCTGG
AAGAACAATCAAATGATGGGAAGAAAGATGGAGATATGCATAGTTTCATCTTTGACAGTTGAGTGTCTAAACTT
CAGAGATTGAACCAAGAATTCCCCTGAGGATCTTGGGCTATCTTTGACAGGGGATTCTTGCAAGTTGATGCTTT
CTACAAGTGAATATAGTCAGTCCCCAAAGATGGAGAGCTTGAGTTCTCACAGAATTGATGAAGATGGAGAAAACA
CACAGATTGAGGATACGGAACCCATGTCTCCAGTTCTCAATTCTAAATTTGTTCTGCTGAAAATGATAGTATCC
TGATGAATCCAGCACAGGATGGTGAAGTACAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
CCAGGGATGACATTAGTATTTTAGCCACTGGTTGCAAGGGCAGAGAAGAAACGGTAGCAGAAGATGTTTGTATTG
ATCTCACTTGTGATTGCGGGAGTCAGGCAGTTCCGTCACCAGCTACTCGATCTGAGGCACCTTTCTAGTGTGTTAG
ATCAGGAGGAAGCTATGGAATTAAGAACACCATCCAGAGGAGGGGTCTTCAGGGTCTGAGGTGGAAGAAATCC
CTGAGACACCTTGTGAAAGTCAAGGAGAGGAACTCAAAGAAGAAAATATGGAGAGTGTTCGGTTGCACCTTTCTC
TGACTGAAACTCAGTCCCAAGGGTTGTGTCTTCAAAGGAAATGCCAAAAAAGAATGCTCAGAAGCTATGGAAG
TTGAAACCAGTGTGATTAGTATTGATTCCCCTCAAAGTTGGCAATACTTGACCAAGAATTGGAACATAAGGAAC
AGGAAGCTTGGGAAGAAGCTACTTCAGAGGACTCCAGTGTGTCATTGTAGATGTGAAAGAGCCATCTCCAGAG
TTGATGTTTCTTGTGAACCTTTGGAGGGAGTGGAGAAGTGCTCAGATTCCAGTCATGGGAGGATATTGCTCCAG
AAATAGAACCATGTGCTGAGAATAGATTAGACACCAAGGAAGAAAAGAGTGTAGAATATGAAGGAGATCTGAAAT
CAGGGACTGCAGAAACAGAACCTGTAGAGCAAGATTCTTCACAGCCTTCCTTACCTTTAGTGAGAGCAGATGATC
CTTTAAGACTTGACCAGGAGTTGCAGCAGCCCCAAACTCAGGAGAAAACAAGTAATTCATTAACAGAAGACTCAA
AAATGGCTAATGCAAAGCAGCTAAGCTCAGATGCAGAGGCCCAGAAGCTGGGGAAGCCCTCTGCCCATGCCTCAC
AAAGCTTCTGTGAAAAGTTCTAGTGAAACCCCATTTTCATTTCACTTTGCCTAAAGAAGGTGATATCATCCCACCAT
TGACTGGTGCAACCCACCTCTTATTGGGCACCTAAATTTGGAGCCCAAGAGACACAGTACTCCTATTGGTATTA
GCAACTATCCAGAAAGCACCATAGCAACCAGTGATGTATGTCTGAAAGCATGGTGGAGACCCATGATCCCATAC
TTGGGAGTGGAAAAGGGGATTCTGGGGCTGCCCCAGACGTGGATGATAAATTATGTCTAAGAATGAACTGGTTA
GTCCTGAGACTGAGGCGAGTGAAGAGTCTTTGCAGTTCAACCTGGAAGCCCTGCAACTGGTGAAAGAAAAAATG
GATCTACTGCTGTTGCTGAGTCTGTTGCCAGTCCCCAGAAGACCATGTCTGTGTTGAGCTGTATCTGTGAAGCCA
GGCAAGAGAATGAGGCTCGAAGTGAGGATCCCCCACCACACCCATCAGGGGGAACTTGCTCCACTTTCCAAGTT
CTCAAGGAGAAGAGGAGAAAGAAAAATTGGAGGGTGACCATACAATCAGGCAGAGTCAACAGCCTATGAAGCCCA
TTAGTCTGTCAAGGACCCTGTTTCTCCTGCTTCCCAGAAGATGGTCATACAAGGGCCATCCAGTCTCAAGGAG
AGGCAATGGTGACAGATGTGCTAGAAGACCAGAAAGAAGGACGGAGTACTAATAAGGAAAATCCTAGTAAGGCCT

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FIGURE 4170B

TGATTGAAAGGCCCCAGCCAAAATAACATAGGAATCCAAACCATGGAGTGTTCCTTGAGGGTCCCAGAAACTGTTT
CAGCAGCAACCCAGACTATAAAGAATGTGTGTGAGCAGGGGACCAGTACAGTGGACCAGAACTTTGGAAAGCAAG
ATGCCACAGTTCAGACTGAGAGGGGGAGTGGTGAGAAACCAGTCAGTGCTCCTGGGGATGATACAGAGTCGCTCC
ATAGCCAGGGAGAAGAAGAGTTTGATATGCCTCAGCCTCCACATGGCCATGTCTTACATCGTCACATGAGAACAA
TCCGGGAAGTACGCACACTTGTCACTCGTGTCAATTACAGATGTGTATTATGTGGATGGAACAGAAGTAGAAAGAA
AAGTAACTGAGGAGACTGAAGAGCCAATTGTAGAGTGTGAGGAGTGTGAAACTGAAGTTTCCCCTTCACAGACTG
GGGGCTCCTCAGGTGACCTGGGGGATATCAGCTCCTTCTCCTCCAAGGCATCCAGCTTACACCGCACATCAAGTG
GGACAAGTCTCTCAGCTATGCACAGCAGTGGAAGCTCAGGGAAAGGAGCCGGACCACTCAGAGGGAAAACACGCG
GGACAGAACCCGCAGATTTTGCCTTACCCAGCTCCCAGGAGGCCAGGAAAACCTGAGTCCTAGAAAAGGGGTCA
GTCAGACAGGGACGCCAGTGTGTGAGGAGGATGGTGATGCAGGCCCTTGGCATCAGACAGGGAGGGAAGGCTCCAG
TCACGCCTCGTGGGCGTGGGCGAAGGGGCCGCCACCTTCTCGGACCACTGGAACCAGAGAAACAGCTGTGCCCTG
GCCCCTTGGGCATAGAGGACATTTACCTAACTTGTCAACCAGATGATAAATCCTTCAGCCGTGTCGTGCCCGCAG
TGCCAGACTCCACCAGACGAACAGATGTGGGTGCTGGTGCTTTGCGTCGTAGTGACTCTCCAGAAATTCCTTTCC
AGGCTGCTGCTGGCCCTTCTGATGGCTTAGATGCCTCCTCTCCAGGAAATAGCTTTGTAGGGCTCCGTGTTGTAG
CCAAGTGGTTCATCCAATGGCTACTTTTACTCTGGGAAAATCACACGAGATGTGCGGAGCTGGGAAGTATAAATTGC
TCTTTGATGATGGGTACGAATGTGATGTGTTGGGCAAAAGACATTCTGTTATGTGACCCCATCCCGCTGGACACTG
AAGTGACGGCCCTCTCGGAGGATGAGTATTTCACTGTCAGGAGTGGTGAAAGGACATAGGAAGGAGTCTGGGGAAC
TGTACTACAGCATTGAAAAAGAAGGCCAAAGAAAGTGGTATAAGCGAATGGCTGTCACTCTGCTTGGAGCAAG
GAAACAGACTGAGAGAGCAGTATGGGCTTGGCCCCCTATGAAGCAGTAACACCTCTTACAAAGGCAGCAGATATCA
GCTTAGACAATTTGGTGGAAGGGAAGCGGAAACGGCGCAGTAACGTCAGCTCCCCAGCCACCCCTACTGCCTCCA
GTAGCAGCAGCACAACCCCTACCCGAAAGATCACAGAAAGTCTCGTGCCTCCATGGGAGTTCTCTCAGGCAAAA
GAAAACTTATCACTTCTGAAGAGGAACGGTCCCCTGCCAAGCGAGGTGCAAGTCTGCCACAGTAAAACCTGGTG
CAGTAGGGGCAGGAGAGTTTGTGAGCCCTGTGAGAGTGGAGACAACACCGGTGAACCCCTTGCCCTGGAAGAGC
AGAGAGGGCCTTTGCCTCTCAACAAGACCTTGTTTCTGGGCTACGCATTTCTCCTTACCATGGCCACAACCAAGTG
ACAAGTTGGCCAGCCGCTCCAACTGCCAGATGGTCTTACAGGAAGCAGTGAAGAAGAGGAGGAATTTTGGAAA
TTCTCCTTTCAACAAGCAGTATACAGAATCCCAGCTTCGAGCAGGAGCTGGCTATATCCTTGAAGATTTCAATG
AAGCCCAGTGTAACACAGCTTACCAGTGTCTTCTAATTGCGGATCAGCATTGTGCAACCCGGAAGTACTTCCTGT
GCCTTGCCAGTGGGATTCTTGTGTGTCTCATGTCTGGGTCCATGATAGTTGCCATGCCAACCAGCTCCAGAACT
ACCGTAATTATCTGTTGCCAGCTGGGTACAGCCTTGAGGAGCAAAGAATTCTGGACTGGCAACCCCGTGAAAATC
CTTCCAGAATCTGAAGGTACTCTTGGTATCAGACCAACAGCAGAACTTCCTGGAGCTCTGGTCTGAGATCCTCA
TGACTGGTGGTGACGCCTCTGTGAAGCAGCACCATTCAAGTGCCCATACAAAGATATTGCTTTAGGGGTATTTG
ATGTGGTGGTGACGGACCCCTCATGCCAGCCTCGGTGCTGAAGTGTGCTGAAGCATTGCAGCTGCCTGTGGTGT
CACAAGAGTGGGTGATCCAGTGCCTCATTGTTGGGGAGAGAATTGGATTCAAGCAGCATCCAAAATATAAACACG
ATTATGTTTCTCACTAAAGATACTTGGTCTTACTGGTTTTATTCCCTGCTATCGTGGAGATTGTGTTTTAACCAG
GTTTTAAATGTGCTTGTGTGTAAGTGGATTCCCTTGCATGGATCTTGTATATAGTTTTATTGCTGAACCTTTAT
GATAAAATAAATGTTGAATCTCTTTGGTTGTAGTAACTGGG

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FIGURE 4171

MDPTGSQLDSDFSQQDTPCLIIEDSQPESQVLEDDSGSHFSMLSRHLPNLQTHKENPVL DVVSNPEQTAGEERGD
GNSGFNEHLKENKVADPVDSSNLDTGSGISQVIEQLPQPNRTSSVLGMSVESAPAVEEEKGEELEQKEKEKEEDT
SGNTTHSLGAEDTASSQLGFGVLELSQSQDVEENTVPYEV DKEQLQSVTTNSGYTRLSDVDANTAIKHEEQSNED
IPIAEQSSKDIPVTAQPSKDVHV VKEQNPPPARSEDMPFSPKASVAAMEAKEQLSAQELMESGLQIQKSPEPEVL
STQEDLFDQSNKTVSSDGCSTPSREEGGCSLASTPATT LHLQLSGQRS LVQDSLSTNSSDLVAPSPDAFRSTPF
IVPSSPTEQEGRQDKPMDTSVLSEEGGEFFQKKLQSGEPVELENPFLPESTVSPQASTPISQSTPVFFPGSLPI
PSQPQFSDHIFIPSPSLEE QSN DGKKDGMHSSSLTVECSKTSEIEPKNSPEDLGLSLTGDSCKLMLSTSEYSQS
PKMESLSSHRIDEDGENTQIEDTEPMSPVLNSKFVPAENDSILMNPAQDGEVQLSQND DTKGDDTDTRDDISIL
ATGCKGREETVAEDVCIDLTCDSGSQAVPSPATRSEALSSVLDQEEAMEIKEHHPEEGSSGSEVEEIPETPCESQ
GEELKEENMESVPLHLSLTETQSQGLCLQKEMP KKECSEAMEVETSVISIDSPQKLAILDQELEHKEQEAWEEAT
SEDSSVVIVDVKEPSPRVDVSCPELEGVEKCSDSQSWEDIAPEIEPCAENRLDTKEEKSVEYEGDLKSGTAETEP
VEQDSSQPSLPLVRADDPLRLDQELQQPQTQEKTSNLTEDSKMANAKQLSSDAEAQKLGKPSAHASQSFCSSS
ETPFHFTLPKEGDIIPPLTGATPPLIGHLKLEPKRHSTPIGISNYPESTIATSDVMSESMVETHDPI LGSGKGDS
GAAPDVDDKLCLRMKLVSPETEASEESLQFNLEK PATGERKNGSTAVAESVASPQKTM SVLSCICEARQENEAR S
EDPPTTPIRGNLLHFPSSQGE EKEKLEGDHTIRQSQQPMKPI SPVKDPVSPASQKMVIQGPSSPQGEAMVTDVL
EDQKEGRSTNKENPSKALIERPSQNNIGIQTMECSLRVPETVSAATQT IKNVCEQGTSTVDQNF GKQDATVQTER
GSGEKPV SAPGDDTESLHSQGE EEFDMPPHGHVLRHMR TIREVRTLVTRVITDVYYVDGTEVERKVTEETEE
PIVECQECETEVSPTSQTGGSSGDLGDISSFSSKASSLHRTSSGTSLSAMHSSGSSGKGAGPLRGKTSGETPADFA
LPSSRGGPGKLSPRKGV SQTGTPVCEEDGDAGLGIRQGGKAPVTPRGRGRGRPPSRTTGTRETAVPGPLGIEDI
SPNLSPDDKSFSRVVPRVPDSTRRTDVGAGALRRSDSPEIPFQAAAGPSDGLDASSPGNSFVGLRVVAKWSSNGY
FYSGKITRDVGAGKYKLLFDDGYECDVLGKDILLCDPIPLDTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKE
GQRKWKYKRAVILSLEQGNRLREQYGLGPYEA VTPLTKAADISLDNLVEGKRKR RSNVSSPATPTASSSSSTTPT
RKITESPRASMGVLSGKRKLITSE EERSPAKRGRKSATVKPGAVGAGEFVSPCESGDNTGEP SALEEQRGPLPLN
KTLFLGYAFLLT MATTS DKLASRSKLPDGP TGSSEEEEFLEIPPFNKQYTESQLRAGAGYILED FNEAQCNTAY
QCLLIADQHCRTRKYFLCLASGIPC VSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQRILDWQPRENPFQNLKVL
LVSDQQNFLELWSEILMTGGAASVKQHHS SAHNKDIALGVFDVVVTDPSCPASVLKCAEALQLPVVSQEWVIQC
LIVGERIGFKQHPKYKHDYVSH

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FIGURE 4172

CCGGCTCCCATTTCCGGCTCCAGCCTCCAATCCGACCCCCATTTCCGGCTGCAGCCTCGGACCTAGCTCCGGCCCTC
GGTCTATCCGGTTGCATCCTCCCTCCCTGTTCCGGATCTTATCTTGCGCCAGCGCCTACTCCAGGATCCCGTAGC
CAGACCTCAAGCCATGGCTGGTCCCTTCTCCCGTCTGCTGTCCGCCCCGCGGGACTCAGGCTCCTGGCTTTGGC
CGGAGCGGGGTCTCTAGCCGCTGGGTTTCTGCTCCGACCGGAACCTGTACGAGCTGCCAGTGAACGACGGAGGCT
GTATCCCCCGAGCGCTGAGTACCCAGACCTCCGAAAGCACAACAACCTGCATGGCCAGTCACCTGACCCCAGCAGT
CTATGCACGGCTCTGCGACAAGACCACACCCACTGGTTGGACGCTAGATCAGTGTATCCAGACTGGCGTGGACAA
CCCTGGCCACCCCTTCATCAAGACTGTGGGCATGGTGGCTGGAGATGAGGAGACCTATGAGGTATTTGCTGACCT
GTTTGACCCCTGTGATCCAAGAGCGACACAATGGATATGACCCCCGGACAATGAAGCACACCACGGATCTAGATGC
CAGTAAAATCCGTTCTGGCTACTTTGATGAGAGGTATGTATTGTCCTCTAGAGTCAGAACTGGCCGAAGCATCCG
AGGACTCAGTCTGCCTCCAGCTTGCACTCGAGCAGAGCGACGAGAGGTGGAACGTGTTGTGGTGGATGCACTGAG
TGGCCTGAAGGGTGACCTGGCTGGACGTTACTATAGGCTCAGTGAGATGACAGAGGCTGAACAGCAGCAGCTTAT
TGATGACCACTTTCTGTTTGATAAGCCTGTGTCCCCGTTGCTGACTGCAGCAGGAATGGCTCGAGACTGGCCAGA
TGCTCGTGGAATTTGGCACAACAATGAGAAGAGCTTCCTGATCTGGGTGAATGAGGAGGATCATAACGCGGTGAT
CTCCATGGAGAAGGGTGGTAACATGAAGAGAGTGTTTGAAAGATTCTGCCGAGGCCTCAAAGAGGTGGAGAGACT
TATCCAAGAACGTGGCTGGGAGTTCATGTGGAATGAGCGTTTGGGATACATCTTGACCTGTCCATCTAACCTGGG
CACTGGACTTCGGGCAGGAGTGCACATCAAACCTGCCCCTGCTAAGCAAAGATAGCCGCTTCCCAAAGATCCTGGA
GAACCTAAGACTCCAAAAACGTGGTACTGGAGGAGTGGACACTGCTGCTACAGGCGGTGTCTTTGATATTTCTAA
TTTGACCGACTAGGCAAATCAGAGGTGGAGCTGGTGCAACTGGTCATCGATGGAGTAACTATTTGATTGATTG
TGAACGGCGTCTGGAGAGAGGCCAGGATATCCGCATCCCCACACCTGTCATCCACACCAAGCATTAACTCCCAT
CGCCAGCTGATGACTCAAGATTCCAGGAGTTTTGCTCATTCTAATGATGGCCATTCTACTTGCTCTGGACCTG
CCCCGCATCCCCTGCCTCCATCCTAGT

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FIGURE 4173

MAGPFSRLLSARPGRLRLALAGAGSLAAGFLLRPEPVRAASERRRLYPPSAEYPDLRKHNNCMAHSLTPAVYARL
CDKTTPTGWTLDQCIQTGVDNPGHPFIKTVGMVAGDEETYEVFADLFDPVQERHNGYDPRTMKHTTDL DASKIR
SGYFDERYVLSSRVRTGRSIRGLSLPPACTRAERREVERVVDALSGLKGDLAGRYRRLSEMTEAEQQQLIDDHF
LFDKPVSPLLTAAGMARDWPDARGIWHNNEKSFLIWVNEEDHTRVISMEKGGNMKRVFERFCRGLKEVERLIQER
GWEFMWNERLGYILTCPSNLGTGLRAGVHIKPLLSKDSRFPKILENLRLQKRGTTGGVDTAATGGVFDISNLDRL
GKSEVELVQLVIDGVNYLIDCERRLERGQDIRIPTPVIHTKH

[illegible]

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FIGURE 4175

MRLRRALALFPGVALLLAAARLAAASDVLELTDDNFESRISDTGSAGLMLVEFFAPWCGHCKRLAPEYEAAATRLK
GIVPLAKVDCTANTNTCNKYGVSGYPTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLRTEEEFKKFIS
DKDASIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVEISLVNEYDDNGEGIIILFRPSHLTNKFEDKTVAYTEQ
KMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYYDVDYEKNAKGSNYWRNRVMMVAKKFLDAGHKLNFA
VASRKTFSELSDFGLESTAGEIPVVAIRTAKEKFVMQEEFSRDGKALERFLQDYFDGNLKRYLKSEPIPESND
GPVKVVVAENFDEIVNNENKDVLIIEFYAPWCGHCKNLEPKYKELGEKLSKDPNIVIAKMDATANDVPSPYEVVRF
PTIYFSPANKKLNPKKYEGGRELSDFISYLQREATNPPVIOEEKPKKKKKAQEDL

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FIGURE 4176

GGCACGAGGCGGGCCAAACCGCCCGGACCTCGGCGCTTTCTTCTAGGATCCGCATGAATCGCTTTGGGCTATCGGA
AGAGCTATCCCCAGTTCTCGGGAGAAAGAGTCCGCGACCAGCGTCTGACCTCTCACTCAGAGTCCCCAGTCCTGC
CTTAGTTTCCCCAGCGACCCTGAATTTGGAGTTGCTGTCTCTAAGTGAAAGCTGAACCTGCAACCCCTTGAGGGT
TTCAGCCGAGAGGGGGCGGGAGAAAGGGCCTGGTTGGTAGGCGGGCTCAGCGGTTTCGCGCCCAGTTAGCCCCGAG
CTTCGAGACCCGAGAGACCAGAGGATGGCTGACACGAAGGGGCACCCGAGACAGCGCCTGGGCTTTTTCCCGCC
CGCGGTTCCACCGCTCTGAAACCGATTTCTAACAGAGAGAGACATAGTCTTGCTCTGTTACCCATGCTGGAGTAC
GGTGGCGAGATCACGACTCACTACAACCTTTGAATTCCTGGATTCAAGCAATCCTCCCATCTCAGCCTCCTGAGTA
GCTAAGGACTACAGGGCGACTTTGTCAGTACCCCAAACCTGTCCCCGCATGAGGTCACCTCTGCACGGTCACGTGCT
CGAGCCCGCGGGAGCGCCACATCGCCAGCCGCACCCCTCCACCCCCACCCTGCCCACGTGACCCGGCCTAGTTTC
TCCAGGCCCCGTCCCTACGTCTCACTCGGGAAGCCCCGCCCCACGCTGAGCGCTCCGCCTGCGACCCTCCGCCACT
TACCCACCCCGGCTCAAGCACGACCCGTGGATCCACGTGCTTTTTCTTGTCCAATGGGAGCCGGCTCCCGGGCGC
GAAGGGGCGGGGAGGAAAGGAACGACTGTGCTACGTTGCCAGAAGGGGCGGGACCTGCAACGTCCGACAGAACGA
GGGGACGTAACGGAGGCAGGTTGGAGCCGCTGCCGTGCCATGACCCGCGGTAACCAGCGTGAGCTCGCCCCGCCA
GAAGAATATGAAAAAGCAGAGCGACTCGGTTAAGGGAAAGCGCCGAGATGACGGGCTTTCTGCTGCCGCCCCGCAA
GCAGAGGGACTCGGAGATCATGCAGCAGAAGCAGAAAAAGGCAACGAGAAGAAGGAGGAACCCAAGTAGCTTTG
TGGCTTCGTGTCCAACCCCTCTTGCCCTTCGCCTGTGTGCCTGGAGCCAGTCCCACCACGCTCGCGTTTCCTCCTG
TAGTGCTCACAGGTCCCAGCACCGATGGCATTCCCTTTGCCCTGAGTCTGCAGCGGGTCCCTTTTGTGCTTCCTT
CCCCTCAGGTAGCTCTCTCCCCCTGGGCCACTCCCGGGGGTGAGGGGGTTACCCCTTCCAGTGTTTTTTATTC
CTGTGGGGCTCACCCCAAAGTATTAAAAGTAGCTTTGTAAAAA

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FIGURE 4177

MTGFLLPPASRGTRRSCSRSRKRQTRRRRNPSSEFVASCPILLPFACVPGASPTTLAFPPVVLTPGSTDGIPFALS
LQRVPFVLPSPQVASLPLGHSRG

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FIGURE 4178

GGCACGAGCCGAGATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACTCTCTCTTTCTGGCCTGGAGGCTAT
CCAGCGTACTCCAAAGATTTCAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTCAAATTTCTGAATTGCTA
TGTGTCTGGGTTTTCATCCATCCGACATTGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCA
TTCAGACTTGTCTTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACTACACTGAATTCACCCCCACTGAAAAAGA
TGAGTATGCCTGCCGTGTGAACCATGTGACTTTGTCACAGCCCAAGATAGTTAAGTGGGATCGAGACATGTAAGC
AGCATCATGGAGGTTTGAAGATGCCGCATTTGGATTGGATGAATTCCAAATTCCTGCTTGCTTGCTTTTTAATATT
GATATGCTTATACACTTACACTTTATGCACAAAATGTAGGGTTATAATAATGTTAACATGGACATGATCTTCTTT
ATAATTCTACTTTGAGTGCTGTCTCCATGTTTGATGTATCTGAGCAGGTTGCTCCACAGGTAGCTCTAGGAGGGC
TGGCAACTTAGAGGTGGGGAGCAGAGAATTCTCTTATCCAACATCAACATCTTGGTCAGATTTGAACTCTTCAAT
CTCTTGCACTCAAAGCTTGTTAAGATAGTTAAGCGTGCATAAGTTAACTTCCAATTTACATACTCTGCTTAGAAT
TTGGGGGAAAATTTAGAAATATAATTGACAGGATTATTGGAAATTTGTTATAATGAATGAAACATTTTGTCAAT
AAGATTCAATTTACTTCTTATACATTTGATAAAGTAAGGCATGGTTGTGGTTAATCTGGTTTATTTTTGTTCCA
CAAGTTAAATAAATCATAAACTTG

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FIGURE 4179

MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDLS
FSKDWSFYLLYYTEFTPTEKDEYACRVNHVTLSPKIVKWDRDM

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FIGURE 4180

GTATATATGTGATTCAGATATGTATTTCTGACTTGAAGTGAAATATGCTGGAAACTCACACAACCTATGGGAGAA
CTATCCTATCCCTGAACCAGGCCCAAATGAGGTCTTGCTGAGGATGCATTCTGTTGGAATCTGTGGCTCAGATGT
CCACTACTGGGAGTATGGTCTGAATTGGGAATTTTATTGTGAAAAAGCCCATGGTGCTGGGACATGAAGCTTCGGG
AACAGTCGAAAAAGTGGGATCATCGGCAAAGCACCTAAAACCAGGTGATCGTGTTGCCATCGAATCTGGTGCTCC
CCGAGAAAATGATGAATTCTGCAAGATGGGCCGATACAATCTGTCACCTTCCATCTTCTTCTGTGCCACACCCCC
CGATGATGGGAACCTCTGCCGGTTCTATAAGCACAAATGCAGCCTTTTGTACAAGCTTCCTGACAATGTCACCTT
TGAGGAAGGCGCCCTGATTGATCCACTTTCTGTGGGGATCCATGCCTGCAGGAGAGGCGGAGTTACCCTGGGACA
CAAGGTCCTTGTGTGTGGAGCTGGGGCAATCGGGGTAGTCACTTTGCTCGTGGCCAAGGCAATGGGAGCAGCTCA
AGTAGTGGTGACTGATCTGTCTGCTACCCGATTGTCCAAAGCCAAGGAGATTGGGGCTGATTTAGTCCTCCAGAT
CTCCAAGGAGAGCCCTCAGGAAATCGCCAGGAAAGTAGAAGGTCTGCTGGGGTGCAAGCCGGAAGTCACCATCGA
GTGCACGGGGCAGAGGCCTCCATCCAGGCAGGCATCTACGCCACTCGCTCTGGTGGAACCTCGTGCTTGTGGGG
CTGGGCTCTGAGATGACACCGTACCCCT

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FIGURE 4181

MHSVIGICGSDVHYWEYGRIGNFIVKKPMVLGHEASGTVEKVGSSAKHLKPGDRVAIESGAPRENDEFCKMGRYNL
SPSIFFCATPPDDGNLCRFYKHNAAFCYKLPDNTFEEGALIDPLSVGIHACRRGGVTLGHKVLVCGAGAI GVVT
LLVAKAMGAAQVVVTDLSATRLSKAKEIGADLVLQISKESPQEIARKVEGLLGCKPEVTIECTGQRPPSRQASTP
LALVGTSCCLWGVALR

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FIGURE 4182

CGCACGGCCGCGCAGATCTGTCTTGCTGGAAGCTTTTTCTAGAGGTTGAGCGGTTTGACACA**ATG**TCGGAAATGG
CTGAGTTGTCCGAGCTGTATGAAGAGAGCAGTGACCTGCAGATGGATGTGATGCCTGGCGAGGGTGACCTTCCGC
AGATGGAGGTAGGCAGCGGGAGCCGGGAGCTATCCCTGCGTCCCTCCCGCAGCGGGGCCCAACAGCTCGAGGAGG
AAGGCCCAATGGAGGAGGAGGAGGCCAGCCAATGGCGGCGCCAGAGGGGAAACGGAGCCTTGCTAACGGGCCCA
ACGCTGGGGAGCAGCCAGGCCAGGTGGCGGGCGCAGACTTCGAGAGCGAGGACGAGGGCGAGGAATTTGATGACT
GGGAGGACGACTACGACTATCCCGAAGAGGAGCAGCTCAGTGGTGCCGGCTACAGAGTATCAGCCGCTCTTGAAG
AAGCCGACAAGATGTTTCTGAGAACAAGAGAACCAGCCCTGGATGGCGGGTTTCAGATGCATTATGAGAAGACCC
CGTTTGATCAGTTAGCTTTTATCGAAGAGCTTTTTTCACTGATGGTTGTCAATCGTCTGACCGAAGAACTCGGCT
GTGATGAGATTATTGATAGAGAG**TAG**TTAGATGCTGTTAAAAGAGGAGGAACTACTTGAGGAGGGACCCAACTT
TCCGCTATCTTTTGGGTTCATTCCAAATAGTTTTGTGCCATTGAAAACTTGACCTTCAAAAAAATTTGTTTTTC
AGAATAGAACACAATAGGACAGTGACTGCACAGTTGTGAAAAAGGAAGAGAATCATTAAAGAAAAAGAAAAAGA
TTTTAAGACCGTTGAAATCAATTATCAAGAACGTCCTAAACACCTATGGCTTTGACTTTGTTATTGATCCAGAT
TATTTTCCTTGCATTGGGGAAAATATCTTTCATATTTGTTTGCTGTAAAGATGGTTTTGCAAGAATAAGTCATGA
CCAAGACAACTGCCAATACAAAAGCCCACTGATACTAATTATATAATGAGAAAAAATGTATCCAACCTAGGACA
CATATCTTTTGAGTTATTTGGACTGAAAGCTTAAGAAACTTGAAAAATTCTATTTTGTGATCTAGTCAAGCCAC
AGTTATCAAAGGCTACATTTTCAGTGTAAGATAAATGGATGAGTAAACTCAAATATGTATCACGTGTGCTTTGTA
TCTTAAGATGTGTTTCCAAGAGCATCTGAAATTTTGTGTGACATGTATCTTGATCATTATATAAAGCCACTGTGA
TCTATAAATCAAGAAAATCCATTGTCTATAACCATTTTTTAAAAGTCAAAAATTAAGACATCCTTAATTAAAAAGTT
TCAAATCTAGACACTAAATGTGTGTGAATGTACAAAGAAAACAAACCATTGCTTATGCTGTTATATACTAGAGAA
ATTTTGTTTTGCTTGCTGTTTTAACTTGACAGATGAAGGACTTTAGTTGAACTTCATATTGTAAGAACTGTTAAT
AAAAGTTGTCAAGTAAAAAGCGCTATATCTAAAAAGACTTTATGAACAGTTATTCTATCAACTTTTAAAGGTTTT
AAACCTGCCCAGAAATTACCTTGGTATCTGAAGTTTCCCTCTGTCTCCTCCTCTAATTAAGCTTGTTATTTGTCA
TGCACCAGCATTGGAGATAATAAAATTTCTTGTTCTGTGTAAAAA

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FIGURE 4183

MSEMAELSELYEESDLQMDVMPGEGDLPQMEVGSGSRELSLRPSRSGAQQL EEGPMEEEEAQPM APEGKRSL
ANGPNAGEQPGQVAGADFESEDEGE EFDWEDDYDYPEEEQLSGAGYRVSAALEEADKMFLRTREPALDGGFQMH
YEKTPFDQLAFIEELFSLMVVNRLTEELGCDEIIDRE

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FIGURE 4184A

GAGCCCCGCCCCGGGGGACGGGCGGCGGGATAGCGGGACCCCCGGCGGCGCGGTGCGCTTCAGGGCGCAGCGGCGGC
CGCAGACCGAGCCCCGGGCGCGGCAAGAGGCGGCGGGAGCCGGTGGCGGCTCGGCATC**ATG**CGTCGAGGGCGTCT
GCTGGAGATCGCCCTGGGATTTACCGTGCTTTTAGCGTCCTACACGAGCCATGGGGCGGACGCCAATTTGGAGGC
TGGGAACGTGAAGGAAACCAGAGCCAGTCGGGCCAAGAGAAGAGGCGGTGGAGGACACGACGCGCTTAAAGGACC
CAATGTCTGTGGATCACGTTATAATGCTTACTGTTGCCCTGGATGGAAAACCTTACCTGGCGGAAATCAGTGTAT
TGTCCTCATTTGCCGGCATTCCCTGTGGGGATGGATTTTGTTCGAGGCCAAATATGTGCACTTGCCCATCTGGTCA
GATAGCTCCTTCCCTGTGGCTCCAGATCCATAACAACACTGCAATATTCGCTGTATGAATGGAGGTAGCTGCAGTGA
CGATCACTGTCTATGCCAGAAAGGATACATAGGGACTCACTGTGGACAACCTGTTTGTGAAAGTGGCTGTCTCAA
TGGAGGAAGGTGTGTGGCCCCAAATCGATGTGCATGCACTTACGGATTTACTGGACCCCACTGTGAAAGAGATTA
CAGGACAGGCCCCATGTTTTACTGTGATCAGCAACCAGATGTGCCAGGGACAACCTCAGCGGGATTGTCTGCACAAA
AACGCTCTGCTGTGCCACAGTCGGCCGAGCCTGGGGCCACCCCTGTGAGATGTGTCCTGCCACGCTCACCCCTG
CCGCCGTGGCTTCATTCCAAATATCCGCACGGGAGCTTGTCAAGATGTGGATGAATGCCAGGCCATCCCCGGGCT
CTGTCAAGGAGGAAATGCATTAATACTGTTGGGTCTTTTGTAGTGCAAAATGCCCTGCTGGACACAACTTAATGA
AGTGTACAAAAATGTGAAGATATTGATGAATGCAGCACCATTCCCTGGAATCTGTGAAGGGGGTGAATGTACAAA
CACAGTCAGCAGTTACTTTTGCAAATGTCCCCCTGGTTTTTACACCTCTCCAGATGGTACCAGATGCATAGATGT
TCGCCCAGGATACTGTTACACAGCTCTGACAAACGGGCGCTGCTCTAACCAGCTGCCACAGTCCATAACCAAAAT
GCAGTGTCTGTGTGATGCCGGCCGATGCTGGTCTCCAGGGGTCACTGTGCCCCCTGAGATGTGTCCCATCAGAGC
AACCAGGATTTCACAAGCTGTGCTCTGTTCCCTATGGTAATTCCTGGGAGACCAGAATATCCTCCCCACCCCT
TGGCCCCATTCTCCAGTTCTCCCTGTTCCCTCCTGGCTTTTCTCTGGACCTCAAATTCGGGTCCCTCGACCACC
AGTGAATATCTGTATCCATCTCGGGAGCCACCAAGGGTGTGCCAGTAAACGTTACTGATTACTGCCAGTTGGT
CCGCTATCTCTGTCAAAATGGACGCTGCATTCCAACCTCCTGGGAGTTGCCGGTGTGAGTGAACAAAGGGTTCCA
GCTGGACCTCCGTGGGGAGTGTATTGATGTTGATGAATGTGAGAAAAACCCCTGTGCTGGTGGTGAATGTATTAA
CAACCAGGGTTTCGTACACCTGTCACTGCCGAGCTGGATATCAGAGCACACTCACGCGGACAGAATGCCGAGACAT
TGATGAGTGTTCACAGAATGGCCGGATCTGCAATAATGGACGCTGCATCAACACAGATGGCAGTTTTTCATTGCGT
GTGTAATGCGGGCTTTTCATGTTACACGAGATGGGAAGAAGTGTGAAGATATGGATGAATGCAGCATAAGGAACAT
GTGCCCTTAATGGAATGTGTATCAATGAAGATGGCAGTTTTTAAATGTATTTGCAAACCTGGATTCCAGCTGGCATC
AGATGGACGTTATTGCAAAGACATTAACGAGTGTGAAACCCCTGGGATCTGCATGAATGGGCGTTGCGTCAACAC
TGATGGCTCCTACAGATGTGAATGCTTCCCTGGACTGGCTGTGGGTCTGGATGGCCGTGTGTGTGTTGACACACA
CATGCGGAGCACATGCTATGGTGGATACAAGAGAGGCCAGTGTATCAAACCTTTGTTTGGTGTCTGCTACTAAATC
TGAATGCTGTTGCGCCAGCACTGAGTATGCATTTGGGGAACCTTGCCAGCCGTGCTCTGCACAGAATTCAGCGGA
ATATCAGGCACCTCTGCAGCAGTGGGCCAGGAATGACGTCAGCAGGCAGTGATATAAATGAATGTGCACTAGATCC
TGATATTTGCCCAAATGGAATCTGTGAAAACCTTCGTGGGACCTATAAATGTATATGCAATTCAGGATATGAAGT
GGATTCAACTGGGAAAACTGCGTTGATATTAATGAATGTGTACTGAACAGTCTCCTTTGTGACAATGGACAATG
TAGAAATACTCCTGGAAGTTTTGTCTGTACCTGCCCCAAGGGATTTATCTACAAACCTGATCTAAAAACATGTGA
AGACATTGATGAATGCGAATCAAGTCCTTGCAATTAATGGAGTCTGCAAGAACAGCCCAGGCTCTTTTTATTGTGA
ATGTTCTTCTGAAAGTACTTTGGATCCAACAAAAACCATCTGCATAGAAACCATCAAGGGCACTTGCTGGCAGAC
TGTCATTGATGGGCGATGTGAGATCAACATCAATGGAGCCACCTTAAAGTCCCAGTGCTGCTCCTCCCTCGGTGC
TGCGTGGGGAAGCCCGTGCACCCTATGCCAAGTTGATCCCATATGTGGTAAAGGGTACTCAAGAATTAAAGGAAC
ACAATGTGAAGATATAGATGAATGTGAAGTGTTCAGGAGTGTGTAAAAATGGCCTGTGTGTTAACACTAGGGG
GTCATTCAAGTGTCACTGTCCAGTGGAATGACTTTGGATGCCACAGGAAGGATCTGTCTTGATATCCGCCTGGA
AACCTGCTTCTTGAGGTACGAGGACGAGGAGTGCACCTGCCTATTGCTGGCCGCCACCGCATGGACGCTGCTG
CTGCTCCGTGCGGGCAGCCTGGGGTACTGAGGAATGCGAGGAGTGTCCCATGAGAAATACTCCTGAGTACGAGGA
GCTGTGTCCGAGAGGACCCGATTTGCCACAAAAGAAATTACAAATGGAAAGCCTTTCTTCAAAGATATCAATGA
GTGCAAGATGATACCCAGCCTCTGCACCCACGGCAAGTGCAGAAACACCATTGGCAGCTTTAAGTGCAGGTGTGA
CAGCGCTTTGCTCTTGATTCTGAAGAAAGGAAGTGCACAGACATTGACGAATGCCGCATATCTCCTGACCTCTG
TGGCAGAGGCCAGTGTGTGAACACCCCTGGGGACTTTGAATGCAAGTGTGACGAAGGCTATGAAAGTGGATTTCAT
GATGATGAAGAACTGCATGGATATTGATGAGTGTGAGAGAGATCCTCTCCTATGCCGAGGTGGTGTGGCCATAA
CACAGAGGGAAGTTACCGCTGTGAATGCCCGCCTGGCCATCAGCTGTCCCCAACATCTCCGCGTGTATCGACAT

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FIGURE 4184B

CAATGAATGTGAGCTGAGTGCACACCTGTGCCCCAATGGCCGTTGCGTGAACCTCATAGGGAAGTATCAGTGTGC
CTGCAACCCTGGCTACCATTCAACTCCCGATAGGCTATTTTGTGTTGACATTGATGAATGCAGCATAATGAATGG
TGGTTGTGAAACCTTCTGCACAACTCTGAAGGCAGCTATGAATGTAGCTGTCAGCCGGGATTTGCACTAATGCC
TGACCAGAGATCATGCACCGACATCGATGAGTGTGAAGATAATCCCAATATCTGTGATGGTGGTCAGTGCACAAA
TATCCCTGGAGAGTACAGGTGCTTGTGTTATGATGGATTCATGGCATCTGAAGACATGAAGACTTGTGTAGATGT
CAATGAGTGTGACCTGAATCCAAATATCTGCCTAAGTGGGACCTGTGAAAACACGAAAGGCTCATTATCTGCCA
CTGTGATATGGGCTACTCCGGCAAAAAGGAAAACTGGCTGTACAGACATCAATGAATGTGAAATTGGAGCACA
CAACTGTGGCAAACATGCTGTATGTACCAATACAGCAGGAAGCTTCAAATGTAGCTGCAGTCCCGGGTGGATTGG
AGATGGCATTAAAGTGCATGATCTGGACGAATGTTCCAATGGAACCCATATGTGCAGCCAGCATGCAGACTGCAA
GAATACCATGGGATCTTACCGCTGTCTGTGCAAGGAAGGATACACAGGTGATGGCTTCACCTGTACAGACCTTGA
TGAGTGTCTGAGAACCTGAATCTCTGTGGCAATGGCCAGTGCCTCAATGCACCAGGAGGATACCGCTGTGAATG
CGACATGGGCTTCGTGCCAGTGTGACGGGAAAGCCTGTGAAGATATTGATGAGTGTCTCCCTTCCGAACATCTG
TGTCTTTGGAACCTTGCCACAACCTCCCTGGCCTGTTCCGCTGTGAGTGTGAGATAGGCTACGAACCTGGACAGAAG
CGGCGGGAACTGCACAGATGTGAATGAATGCCTGGATCCAACCAGTGCATCAGTGGGAACCTGTGTCAACACTCC
AGGCAGCTATATCTGTGACTGCCACCTGATTTTGAACGAACCCAACTCGAGTTGGCTGTGTTGATACCCGCTC
TGGAATTTGCTATTTGGATATTCGACCTCGAGGAGACAATGGAGATACAGCCTGCAGCAATGAAATTGGAGTTGG
TGTTTTCCAAAGCTTCCTGCTGCTGTTCTCTGGGTAAAGCCTGGGGTACTCCTTGTGAGATGTGTCTGCTGTGAA
CACATCCGAGTACAAAATTCTTTGTCTGGAGGGGAAGGTTTCCGACCAAATCCTATCACCGTTATATTGGAAGA
TATTGATGAGTGCCAGGAGCTACCAGGGCTGTGCCAAGGAGGAAAATGTATCAACACCTTTGGGAGTTTCCAGTG
CCGCTGTCCAACCGGCTACTACCTGAATGAAGATACACGAGTGTGTGATGATGTGAATGAATGTGAGACTCCTGG
AATCTGTGGTCCAGGGACATGTTACAACACCGTTGGCAACTACACCTGTATCTGTCTCCAGACTACATGCAAGT
GAATGGGGGAAATAATTGCATGGATATGAGAAGAAGTTTGTGCTACAGAACTACTATGCTGACAACCAGACCTG
TGATGGAGAATTGTTATTCAACATGACCAAGAAGATGTGCTGCTGTTCTACAACATTGGCCGGGCGTGGAACAA
GCCCTGTGAACAGTGTCCCATCCCAAGTACAGATGAGTTTGCTACACTCTGTGGAAGTCAAAGGCCAGGCTTTGT
CATCGACATTTATACCGGTTTACCCGTTGATATTGATGAGTGCCGGGAGATCCCAGGGGTCTGTGAAAATGGAGT
GTGTATCAACATGGTTGGCAGCTTCCGATGTGAATGTCCAGTGGGATTCTTCTATAATGACAAGTTGTTGGTTTG
TGAAGATATTGACGAGTGTGACAACGGCCAGTGTGCCAGCGCAACGCCGAATGCATCAACACTGCAGGCAGCTA
CCGCTGTGACTGTAAGCCCGCTACCGCTTCACCTCCACAGGACAGTGCATGATCGTAATGAATGTCAAGAAAT
CCCCAATATATGCAGTCATGGGCAGTGCATTGACACAGTTGGAAGCTTTTATTGCCTTTGCCACACTGGTTTTAA
AACAAATGATGACCAAAACCATGTGCTTGGACATAAATGAATGTGAAAGAGATGCCTGTGGGAATGGAACCTGCCG
GAACACAATTGGTTCTTTCAACTGCCGCTGCAATCATGGTTTCATCCTTTCTCACAACAATGACTGTATAGATGT
TGATGAATGTGCAAGTGGAAATGGGAATCTTTCAGAAATGGCCAATGCATTAATACAGTGGGGTCTTTCCAGTG
CCAGTGCATGAAGGCTATGAGGTGGCTCCAGATGGGAGGACCTGTGTGGATATCAATGAATGTCTTCTAGAACC
CAGAAAATGTGCACCAGGTACCTGTCAAAACTTGGATGGGTCTACAGATGCATTGCCCACCTGGATACAGTCT
TCAAAAATGAGAAGTGTGAAGATATTGATGAGTGTGTCGAAGAGCCAGAAATTTGTGCCCTGGGCACATGCAGTAA
CACTGAAGGCAGCTTCAAATGTCTGTGTCCAGAAGGGTTTTCTTGTCTCCAGTGGAAGAAGGTGCCAAGATTT
GCGAATGAGCTACTGTTATGCGAAGTTTGAAGGAGGAAAGTGTTTCATCACCCAAATCCAGAAATCACTCCAAGCA
GGAATGCTGCTGTGCCTTGAAGGGAGAAGGCTGGGGAGACCCCTGCGAGCTCTGCCCCACGGAACCTGATGAGGC
CTTCCGCCAGATATGTCTTATGGAAGTGGGATCATCGTGGGACCTGATGATTCAGCAGTTGATATGGACGAATG
CAAAGAACCCGATGTCTGTAAACATGGACAGTGCATCAATACAGATGGTTTCTATCGCTGCGAGTGTCCCTTTGG
TTATATTCTAGCAGGGAATGAATGTGTAGATACTGATGAATGTTCTGTTGGCAATCCTTGTGGAAATGGAACCTG
CAAGAATGTGATTGGAGGTTTTGAATGCACCTGCGAGGAGGGATTTGAGCCCGGTCCAATGATGACATGTGAAGA
TATAAATGAATGTGCCAGAATCCTCTGCTCTGTGCTTCCGATGTGTGAACACTTATGGGTCTATGAATGCAA
ATGTCCCGTGGGATATGTGCTCAGAGAAGACCGTAGGATGTGCAAAGATGAGGATGAGTGTGAAGAGGGGAAAACA
TGACTGTACTGAAAAACAAATGGAATGCAAGAACCTCATTGGCACATATATGTGCATCTGTGGACCCGGGTATCA
GCGGAGACCTGATGGAGAAGGCTGTGTAGATGAGAATGAATGTGACAGCAAGCCAGGGATCTGTGAGAATGGGCG
CTGCCTCAACACCCGTGGGAGCTACACCTGTGAGTGTAAATGATGGGTTTACCGCCAGCCCCAACCAGGACGAGTG
CCTTGACAATCGGGAAGGGTACTGCTTCACAGAGGTGCTACAAAACATGTGTGATCGGCTCCAGCAACAGGAA

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FIGURE 4184C

CCCCGTCACCAAATCGGAATGCTGCTGTGACGGAGGGAGAGGCTGGGGTCCCCACTGTGAGATCTGCCCTTTCCA
GGGGACTGTGGCTTTCAAGAACTCTGTCCCCATGGCCGAGGATTCATGACCAATGGAGCAGATATCGATGAATG
CAAGGTTATTACGATGTTTGCCGAAATGGGGAATGTGTCAATGACAGAGGATCATATCATTGCATTTGTAAAC
TGGGTACACTCCAGATATAACTGGGACTTCCTGTGTAGATCTGAACGAGTGCAACCAGGCTCCCCAAACCTGCAA
TTTTATCTGCAAAAACACAGAAGGGAGTTACCAGTGTTTCATGCCCCGAAAGGCTACATTCTGCAAGAGGATGGAAG
GAGCTGCAAAGATCTTGATGAGTGTGCAACCAAGCAACACAACCTGCCAGTTCCTATGTGTTAACACCATTGGCGG
CTTCACATGCAAATGTCTCCCGGATTTACCCAACACCATACGTCTGCATTGATAACAATGAATGCACCTCTGA
CATCAATCTGTGCGGGTCTAAGGGCATTTGCCAGAACACTCCTGGAAGCTTCACCTGTGAATGCCAGCGGGGATT
CTCACTTGATCAGACCGGCTCCAGCTGTGAAGACGTGGACGAGTGTGAGGGTAACCACCGCTGCCAGCATGGCTG
CCAGAACATCATTGGGGGCTACAGGTGCAGCTGCCCCAGGGCTACCTCCAGCACTACCAGTGGAACCAAGTGTGT
TGATGAAAACGAATGCCTCAGCGCTCACATCTGCGGAGGAGCCTCCTGTGCACAACACCCTGGGGAGCTACAAGTG
CATGTGTCCCGCCGGCTTCCAGTATGAACAGTTCAGTGGAGGATGCCAAGACATCAATGAATGTGGCTCTGCGCA
GGCCCCCTGCAGCTATGGCTGTTCCAATACCGAGGGCGGTTACCTGTGTGGCTGTCCACCTGGTTACTTCCGCAT
AGGCCAAGGGCACTGTGTTTCTGGAATGGGCATGGGCCGAGGAAACCCAGAGCCACCTGTCTAGTGGTGAAATGGA
TGACAATTCACTCTCCCCAGAGGCTTGTTACGAGTGTAAGATCAATGGCTACCCCAAACGGGGCAGGAAACGGAG
AAGCACAAACGAAACTGATGCCTCCAATATCGAGGATCAGTCTGAGACAGAAGCCAATGTGAGTCTTGCAAGTTG
GGATGTTGAGAAGACAGCCATCTTTGCTTTCAATATTTCCACGTCAGTAACAAGGTTCTGAATCCTAGAACTCCT
TCCAGCTCTTACAACCTCTGACGAATCACAACAGATACTTGATCGAATCTGGAAATGAAGATGGCTTCTTTAAAT
CAACCAAAGGAAGGGATCAGCTACCTCCACTTCACAAAGAAGAAGCCAGTGGCTGGAACCTATTATTACAAAT
CAGTAGTACTCCACTTTATAAAAAGAAAGAACTTAACCAACTAGAAGACAAATATGACAAAGACTACCTCAGTGG
TGAACCTGGGTGATAATCTGAAGATGAAAATCCAGGTTTTGCTTCATTAATTCACCATCCAGAGACCAAATAATTA
AAAGAAAAACAAATATAGATAGGTAGAACTATATTTTCCCCAATCAGAATCATCATATCATAGGTACAATCTTT
CACCAAGTAAATTTGTATAAATAAGCACTATTCTTTGTATTACCAAAGCAAGGTACAGGTGACTACCCTAGTTCA
AAACAACCCTTTCTCAGGCTTCTCATGTGTGTAGCTAAGCTACCTTGTCTATATGTGTTGATTCTTGAAAACCTGG
GACGTGTATTTCCATTGGGGGTGGCCATTTATGCTGACATGCCATCCTTCCAGCAAACGTACGGGAATGTGCTT
TCAATTGATGGACTACTCTATTTTTTGCAAATTTGTAACTTTGCTTCTCAAATACAAGTACTAGGTTGTCCAT
TTATGGTACCTATTTGGTGCTAGTAAATTTTCAAACCTAGATTTATAAATGCACTGTAATATGTACACAACCTAGA
AACCAAATTACAAGTATTCAGTTCCAATACTTCATTAATTTCAATCAACCAAAGTTAGTTCAGTAGCTTATCTCA
GTTATGAGTATAATACATTACATGTAAATTAAGTGTGTGTATACTGTAATCGTGCTATTTTTTATCATTGAAACA
TTTATAAACTAGATAATAATAATGCCCTTAATGTGAGGGTTTGTAATGGTGCTTATTAAGACCAAAGACTTGTTAA
TGTATACACCAAGTGGTAATGAAATTTCCGGTGACTGGCCACACGTGCATAGAGGTCTGGGAGGACCAGGAAACA
GCCTCAGTGGCCAGAGGATCACCAGTGCATCCTTCATCACAGCATGTGCAATATGCCAAGATTACCCTCGGTCAT
TCCTGTCAACAAGGGGTCAATGTCTATAAATGTCACAATAAAACAATCTCTTCTTTTTTTTAGTTT

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FIGURE 4185

MRRGRLLLEIALGFTVLLASYTSHGADANLEAGNVKETRASRAKRRGGGGHDALKGPNVCGSRYNAYCCPGWKTLF
GGNQCIVIPICRHSCGDGFCSRPNMCTCPSGQIAPSCGSRSIQHNCNIRCMNGGSCSDDHCLCQKGYIGTHCGQPVC
ESGCLNGGRCVAPNRCACTYGFTGTPQCERDYRTGPCFTVISNQMCQGQLSGIVCTKTLCCATVGRAWHPCCEMCP
AQPHPCRRGFIPNIIRTGACQDVDECQAIPGLCQGGNCINTVGSFECKCPAGHKLNEVSQKCEDIDECSTIPGICE
GGECTNTVSSYFCKCPPGFYTSPDGTRCIDVRPGYCYTALTNGRCSNQLPQSITKMQCCCDAGRCWSPGVTVAPE
MCPIRATEDFNKLCVPMVIPGRPEYPPPPPLGPIPPVLPVPPGFPPGPQIPVPRPPVEYLYPSREPPRVLPVNV
DYCQLVRYLCQNGRCIPTPGSCRCECNKGFLDLRGECIDVDECEKNPCAGGECINNQGSYTCQCRAGYQSTLTR
TECRDIDECLONGRICNNGRCINTDGSFHCVCNAGFHVTRDGKNCEDMDECSIRNMCLNGMCINEDGSFKCICKP
GFQLASDGRYCKDINECETPGICMNGRCVNTDGSYRCECFPGGLAVGLDGRVCVDTHMRSTCYGGYKRGQCIKPLF
GAVTKSECCCASTEYAFGEPCQPCPAQNSAEYQALCSSGPGMTSAGSDINECALDPDPCNGICENLRGTYKCI
NSGYEVDSTGKNCVDINECVLNSLLCDNGQCRNTPGSFVCTCPKGFYKPDCLKTCEDIDECESSPCINGVCKNSP
GSFICECSSESTLDPKTIETIKGTCTWQTVIDGRCEININGATLKSQCCSSLGAAWGSPCTLCQVDPICGKGY
SRIKGTQCEDIDECVFPVCKNGLCVNTRGSFKCQCPSGMTLDATGRICLDIRLETCLFVRYEDEECTLP IAGR
RMDACCCSVGAAWGTEEECECPMRNTPEYEELCPRGPGFATKEITNGKPFKIDINECKMIPSLCTHGKCRNTIGS
FKCRCDSGFALDSEERNCTDIDECRISPDLCGRGQCVNTPGDFECKCDEGYESGFMMMKNCMDIDECQRPDLPCR
GGVCHNTEGSYRCECPPGHQLSPNISACIDINECELSAHLCPNGRCVNLIGKYQCACNPGYHSTPDRLFCVDIDE
CSIMNGGCETFTCNSEGSYECSCQPGFALMPDQRSCTDIDECEDNPNICDGGQCTNIPGEYRCLCYDGFMASEDM
KTCVDVNECDLNPNICLSGTCENTKGSFICHCDMGYSKKGKTGCTDINECEIGAHCNGKHAVCTNTAGSFKCSC
SPGWIGDGIKCTDLDECSNGTHMCSQHADCKNTMGSYRCLCKEGYTGDFCTCTDLDECSENLNLGNGQCLNAPG
GYRCECDMGFVPSADGKACEDIDECSLPNICVFGTCHNLPGLFRCECEIGYELDRSGGNCTDVNECLDPTTCISG
NCVNTPGSYICDCPPDFELNPTRVGCVDTMSGNCYLDIRPRGDNGDTACSNEIGVGVSKASCCCSLGAWGTPCE
MCPAVNTSEYKILCPGGEGFRPNPITVILEIDIDECQELPGLCQGGKCINTFGSFQCRCPGTGYLNEEDTRVCDVN
ECETPGICGPGTCYNTVGNITCICPPDYMQVNGGNNCMMRRSLCYRNYADNQTCDELLFNMTKKMCCCSYNI
GRAWNKPEQCPPISTDEFATLCGSQRPGFVIDIYTGLPVDIDECREIPGVCENGVCINMVGSRCECPVGFFYN
DKLLVCEDIDECQNGPVCQRNAECINTAGSYRCDCKPGYRFTSTGQCNDRNECQEIPNICSHGQCIDTVGSFYCL
CHTGFKTNDQTMCLDINECERDAGNGTCRNTIGSFNCRCHNGFILSHNNDCIDVDECASGNGNLCRNGQCINT
VGSFQCCNEGYEVAPDGRITCVDINECLLEPRKCAPGTCQNLGDSYRCICPPGYSLQNEKCEDIDECVEEPEICA
LGTCNSNTEGSFKCLCPEGFSLSSSGRRQCQLRMSYCYAKFEGGKCSSPKSRNHKSQECCKALKGEGWGDPCCLCP
TEPDEAFRQICPYSGIIVGPDDSAVDMDECKEPDVCKHGQCINTDGSYRCECPFGYILAGNECVDTECSVGNP
CGNGTCKNVIGGFECTCEEGFEPGPMMTCEDINECAQNPLLCFAFCVNTYGSYECKCPVGYVLREDRRMCKDEDE
CEEKHDCTEKQMECKNLIGTYMCICGPGYQRRPDGEGCVDENECQTKPGICENGRCINTRGSYTCECNDGFTAS
PNQDECLDNREGYCFTEVLQNMCIQSSNRNPVTSECCCDGGRGWGPHCEICPFQGTVAFFKLLCPHGRGFMING
ADIDECKVIHDVCRNGECVNDGRSYHCICKTGYPDITGTSCVDLNECNQAPKPCNFICKNTEGSYQCSCPKEYI
LQEDGRSCKDLDECATKQHNCQFLCVNTIGGFTCKCPPGFTQHHTSCIDNNECTSDINLCGSKGICQNTPGSFTC
ECQRGFSLDQTGSSCEDVDECEGNHRCQHGCQNIIGGYRCSQPQGYLQHYQWNQCVDENECLSAHICGGASCHNT
LGSYKCMCPAGFYEQFSGGCQDINECGSAQAPCSYGCSNTEGGYLCGCPPGYFRIGQGHCVSGMGMGRGNPEPP
VSGEMDDNSLSPEACYECKINGYPKRGRKRSTNETDASNIEDQSETEANVSLASWDVEKTAIFAFNISHVSNKV
RILELLPALTTLTNHNRYLIESGNEDGFFKINQKEGISYLHFTKKKPVAGTYSLQISSTPLYKKKELNQLEDKYD
KDYLSGELGDNLMKIQVLLH

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FIGURE 4186

AAGATGCTGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCTGCAGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCGTTTGAGCAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCCAAAAGAGA
CCTCACCCGCTTTGTGAAATGGCCCCACTATATCAGGCTGCTGGCAAAGGGGATGTCCCCACGAAGAGACCACCT
GTCCTTCGAGCAGGAGTTGACACCGTCACCACCTTGGTGGACAATAAGAAAGCTCAGCTGGTGCTGATTGCACAC
GACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCTGCCCTGTGTCGTA AAAATGGGGGTCCCTTACTGCATTATC
AAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTGGCCTTCACACAGGTGAACTCG
GAAGACAAAGGCGCTTTGGCTAAGCTGGTGAAGCTATCAGGACCAATTACAACGACAGATACGATGAGATCCGC
CGTCACTGGGGCGGCAACGTCTGGATCCTAAGTCTGTGGCTCGCATCGCCAAGCTCGAAAAGGCAAAGGCTAAA
GAACTTGCCACTAAATTGGGTAAATGTACACTGTTGAGTTTTCTGTACATAAAATAATTAAAATAATATAAATT
TTCCTTC

FIGURE 4187

[illegible]

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FIGURE 4188

MAAAAKPNNLSLVVHGPGDLRLNYP IPEPGPNEVLLRMHSGVIGSDVHYWEYGRIGNFIVKKPMVLGHEASGT
VEKVGSSVKHLKPGDRVAIEPGAPRENDEFCKMGRYNLSPSIFFCATPPDDGNLCRFYKHNAAFICYKLPDNVTFE
EGALIEPLSVGIHACRRGGVTLGHKVLVCGAGPIGMVTLLVAKAMGAAQVVVTDLSATRLSKAKEIGADLVLIQIS
KESPQEIARKVEGQLGCKPEVTIECTGAEASIQAGIYATRSGGTLVLVGLGSEMTTVPLLHAAIREVDIKGVFRY
CNTWPVAISMLASKSVNVKPLVTHRFPLEKALEAFETFKKGLGLKIMLKCDPSDQNP

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FIGURE 4189

GGAGAACTATCCTATCCCTGAACCAGGCCCAAATGAGGTCTTGCTGAGGATGCATTCTGTTGGAATCTGTGGCTC
AGATGTCCACTACTGGGAGTATGGTCGAATTGGGAATTTTATTGTGAAAAAGCCCATGGTGCTGGGACATGAAGC
TTCGGGAACAGTCGAAAAAGTGGGATCATCGGTAAAGCACCTAAAACCAGGTGATCGTGTTGCCATCGAATCTGG
TGCTCCCCGAGAAAAATGATGAATTCTGCAAGATGGGCCGATACAATCTGTCACCTTCCATCTTCTTCTGTGCCAC
ACCCCTGATGATGGGAACCTCTGCCAGTTCTATAAGCACAATGCAGCCTTTTGTACAAAGCTTCCTGACAATGT
CACCTTTGAGGAAGGCGCCCTGATTGATCCACTTTCTGTGGGGATCCATGCCTGCAGGAGAGGCGGAGTTACCCCT
GGGACACAAGGTCCTTGTGTGTGGAGCTGGGGCAATCGGGGTAGTCACCTTTGCTCGTGCCAAAGGCAATGGGAGC
AGCTCAAGTAGTGGTGACTGATCTGTCTGCTACCCGATTGTCCAAAGCCAAGGAGATTGGGGCTGATTTAGTCCT
CCAGATCTCCAAGGAGAGCCCTCAGGAAATCGCCAGGAAAGTAGAAGGTCTGCTGGGGTGCAAGCCGGAAGTCAC
CATCGAGTGCACGGGGCAGAGGCCTCCATCCAGGCAGGCATCTACGCCACTCGCTCTGGTGGGACCCCTCGTGCTT
GTGGGGCTGGGCTCTGAGATGACCACCGTACCCCTACTGCATGCAGCCATCCGGGAGGTGGATATCAAGGGCGTG
TTTCGATACTGCAACACGTGGCCAGTGGCGATTTTCGATGCTTGCGTCCAAGTCTGTGAATGTAAAACCCCTCGTC
ACCCATAGGTTTCTCTGGAGAAAGCTCTGGAGGCCTTTGAAACATTTAAAAAGGGATTGGGGTTGAAAAATCATG
CTCAAGTGTGACCCAGTGACCAGAATCCCTGATGTTAATGGGCTCTGCCCTCATCCCCAGTCTCGGGATCTCAG
GGCACAATGGCTGGACATGGGTGGGCTCTGATGCAGAACTTTCTCTTTTGAATGTTAAGAATAACTAATACAATT
CATTGTGAACAGAAGTCCTTACGCAGAGGAATTGGTGTGCCTTAAAGATACAATCTGGGATAGTTTGGGGGAAC
TGTAGCCAGAATGCCCTGTTTCATGCTGAGCAAAGTTCAGCAAGTAGAGCAGAGTTTGGCAGGCAGGTGCCAGGAA
CTCCCCCTTCTTCTGGAGTGCCTTCATTGAGGAAGGAAATCTGGCCCTTGGGTTTCTGGTTCCACTGCTACTGA
CCCAGAGGGGAATGAGGGCTGAGTTATGAAAAGATAAATTTCATGAAGACTTAACTGGCCCAGAAGCTGATTTTCA
TGAAAATCTGCCACTCAGGGTCTGGGATGAAGGCTTGTGAGCACTTCCAGTTTAGAACGCAATGTTTCTAGAGAC
ATATTGGCTGTTTGTGTTTGTATGATAAAAAGGAGAATAAGAAAAGGCATCACTTTCCTGGATCCAGGATAATTTTA
AACCAATCAAATGAAAAAAACAAACAAACAAAAAGGAAATGTCATGTGAGGTAAACCAGTTTGCATTCCCCTA
ATGTGGAAGAAAGTAAGAGGACTACTCAGCACTGTTTGAAGATTGCCTCTTCTACAGCTTCTGAGAATTGTGTTAT
TTCACCTGCCAAGTGAAGGACCCCTCCCCAACATGCCCCACCCCACTAAGTACGGTCCCTTGTCAACAGGC
AACCAGGAAACTGCTACTTGTGGACCTCACCAGAGACCAGGAGGGTTTGGTTAGCTCACAGGACTTCCCCACCC
CAGAAGATTAGCATGCCATACTAGACTCATACTCAACTCAACTAGGCTCATACTCAATTGATGGTTATTAGACAA
TTCCATTTCTTTCTGGTTATTATAAACAGAAAATCTTCTCTTCTCATTACCAGTAAAGGCTCTTGGTATCTTT
CTGTTGGAATGATTTCTATGAACTTGTCTTATTTTAATGGTGGGTTTTTTTTCTGGTAAGATTGGACCTAAATC
GCATCATGCCAACTTGTGACTTTGAGACTATTTCATCAAGAATGAGGATATAGTAGCCATGACATAGCTTGAGCTA
TAGCCTTTAATTCCTTACTTTGGCTATGGGTGGAGGGTGAGTTTGAAGAGGTTCTGATTTTCTGTAACCTGGGA
AAGCCATGACCTTGTGCCCGATTCTTTCAGATTGCTTTGGGTAATAAATATTGGTGGTGGTATCTG

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FIGURE 4190

MHSVIGCGSDVHYWEYGRIGNFIVKKPMVLGHEASGTVEKVGSSVKHLKPGDRVAIESGAPRENDEFCKMGRYNL
SPSIFFCATPPDDGNLCQFYKHNA AFCYKLPDNVTFE EGALIDPLSVGIHACRRGGVTLGHKVLVCGAGAI G VVT
LLVAKAMGAAQVVVTDLSATRLSKAKEIGADLV LQISKESPQEIARKVEGLLGCKPEVTIECTGQRPPSRQASTP
LALVGPSCLWG WALR

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FIGURE 4191

ATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACATGGTATCACCATT
CATATCTCCTTGTGGAAATTTGAGACCAGCAGGTACTATGTGACTATCACTGATGTCCCAGGACACAGAGACTTC
ATCAAAAATATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATAGTTGCTGCTGGTGTGCCCCTGCTT
CTCCAGGATGTCTACAAAATTGATGGTATTGGTACTGTTCCCTATTGGCCAAGTGGAGACTGGTGTCTCAAACCT
GGTATGGTGGTCATCTTTGCTCCAGTCAACATTACAACCTGAAGTAAAATCTGTCAAAAGGCACCATGAAGATTTG
AGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATCTTTGTCTGGCAAC
TTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGATGATTATCCTGAACCGT
CCAGGCCTAATCAGCCCTGGCTACGTCCCTGTACTGGATTGCCACATGGCTCACCTTGCATGCAAGTTTGCTGAG
CTGAAGAAAAGATTGATCGCCATTCTGCTGGAAGATGGCCCTAAATTCTTGAAGTCTGGTGATGCTGCCATCGTT
GACATGGTTTCCTGTAAAGCCCATGTGTGTTAAGAGCTTCTCAGACTATCCACCTCTGGATCGCTTTGCTGTTTCA
GATATGAGACAGACAGTTGTCTATGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGCTGTC
CACACCCTCTACACTTTAGAGGCTTCCCTGAATGGGATGCCCCGTGATGAAAACATCCACCAGGAAGAAAGTGGCC
TTTGAAAAAGACGTACAATAA

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FIGURE 4192

MGKGSFKYAWVLDKKAEREHGITIHLWKFETSRYVVTITDVEGHRDFIKNMITGTSQADCAVLIVAAGVGEF
EAGISRMSTKLMVLVLFLLAKWRLVFSNLVWWSSLLQSTLQLK

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FIGURE 4193

CTGGTCTAACAGACCCGCGAGAACGAAGGACGCTTGCCTTTTTCCGGTCGGGGAAGGGGAAGAAGGTAACTTCC
GGTGACGGGGTTGCATCACTTCCTCTCAAGCTTGGCGTTTGTTTGGTGGGGTTACACGCGGGTTCAAC**ATG**CGTA
TCGAAAAGTGTTATTTCTGTTTCGGGGCCCATCTATCCTGGACACGGCATGATGTTTCGTCCGCAACGATTGCAAGG
TGTTTCAGATTTTGCAAATCTAAATGTCATAAAAACTTTAAAAAGAAGCGCAATCCTCGCAAAGTTAGGTGGACCA
AAGCATTCCGGAAAGCAGCTGGTAAAGAGCTTACAGTGGATAATTCATTTGAATTTGAAAAACGTAGAAATGAAC
CTATCAAATACCAGCGAGAGCTATGGAATAAACTATTGATGCGATGAAGAGAGTTGAAGAAATCAAACAGAAGC
GCCAAGCTAAATTTATAATGAACAGATTGAAGAAAAATAAAGAGCTACAGAAAGTTCAGGATATCAAAGAAGTCA
AGCAAAACATCCATCTTATCCGAGCCCCTCTTGCAAGCAAAGGGAAACAGTTGGAAGAGAAAATGGTACAGCAGT
TACAAGAGGATGTGGACATGGAAGATGCTCCT**TAAAA**ATCTCTGTAACCATTTCTTTTATGTACATTTGAAAAATG
CCCTTTGGATACTTGGAAGTCTAAATTATTTTATTTTTTACATAAGGTCACCTAAATGAAAAGCGATTAAAAAGA
CATCTTTCCTGCATTGCCATCTACATAATATCAGATATTACGGATGTTAGATTGCATCTCAGTGTAAATCTTTA
CTGATAGATGTACTTAAGTAAATCATGAAAATTCTACTTGTAAGTATAGAAAGTGAATTGTGGACGTAAATGGTT
GTGCTATTTGGATAATGGCACTAGGCAGCATTGTATAGTAACTAATGGCAAAAATTCATGGCTAGTGATGTATA
AAATAAAATATTCTTTGCAGTAAATATTCCTTTGTTAATGTTATAGAAGGGGGGATACAAAAGGAACATAACA
ATTTGTATGGCAGTGTGAGATATTTTATTTTAGTATTTCTGTTTTTGGTTTATTTGCATCTTAGAAGAGCATAA
TGACATTGTTTGATGAAGCCTAATTATGCTGGACTGTTTTGACCTGGTTTAACCTTCTGATAGGTAGTTGTGGA
TGCTGGGGATGAGAACTGAATAATCTTGCCTGGAGTGACACTACACTCTAGAATTTCCACTTTGGAGAATACTC
AGTTCCAACCTGTGATTCTGATAGAACAGACTTTACTTTTCTAGCCCAGCATTGATCTAGAAGCAGAGGAATCC
CAGCGCCTTTTAAAAGTTGTTATGTGGTTTTCTTTTAAAAGCTCCTGTTTTTGGAAAGTAGAATTTATGGGTAC
AACGTATGTTTCATTATTTGTACATAAAATAAAACCATTTAAAAGTAAAAAAAAAAAAAAAAA

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FIGURE 4194

MRIEKCYFCSGPIYPGHGMMFVRNDCKVFRFCKSKCHKNFKKKRNPRKVRWTKAFRKAAGKELTVDNSFEFEKRR
NEPIKYQRELWNKTIDAMKRVEEIKQKRQAKFIMNRLKKNKELQKVQDIKEVKQNIHLIRAPLAGKGKQLEEKMV
QQLQEDVDMEDAP

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FIGURE 4195

ACATAACTCCCCATGTCTGTTGATAAAAAAGAGACCCTAAGGAGGATTAACTGTTCTCATCCTTTCGTTAGGGA
ACTGGGAATTGAAGCTGGAGTGACTGCAGCTACTTATACACCTGGTGCATTGCATCCTCACTTGGCCCATTATCA
CGCACCTCCTCGACTTCATCACTTACAATTAGGAGCTCTTCCTTTA**ATG**GTTTCCTGATATGGCAGGCTATCCTCA
CATCCGTTACATTTTCATCAGGATTGGATGGAACATCATTAGAGGTCCTTTCAGGGGCAATTTTGAGGAACTGAT
TCATTTGGAAGAAAGATTAGGCAATGTCAATCGTGGAGCATCCAGGGGACAATTGAAAGATGTACATATCCACA
TAAATACAAAAAGAGGAACTGCACTGCAAACAAGATGGGGAAGAAGGGACTGAGGAAGACACAGAGGAAAAATG
TACTATCTGTTTGTCTATTTTAGAGGAAGGTGAAGATGTGAGACGTCCTTCATGTATGCACCTTTTCCACCAAGT
GTGTGTTGACCAATGGTTGATTACCAATAAGAAGTGCCCCATATGCAGAGTGGACATTGAGGCCAGCTGCCAAG
TGAAAGT**TGA**CACCATGTTTCAGAACTCTTGCCCTCCCTCTCATTCCCATCCTTCCTGGTACTGCAGTCAACCA
AGATGGCATGACTTACCTGCGCAGATTTGGAAGCATTGAAGTTAGAGTGCTGGCTCTGCTATATGGTACAACATA
TGCTAGACCTACAGTTTATGTATACAGTTGATTTTGATGTATTTATAAAAGCTTTTTTTCTAGATTGACATTT
TTCTGTATCATTTTACTGTATTTTTCATGGTTCCCTGTATTGCATTTCTTTGCACATATTATGGGCTTGTGACC
CTAAACTTGCAGGCAAGGTTAGCTGCTTTAGTAAGTAGAATTTTGTGGTCTTTTTGTTTTTTACATAGTACCAAG
CCTTGATAATTATGAATTTTTTATCCATTACTAACCTTTAATTTAATCAATCATGACTTTAGTTTAAATGTATAA
AGATCCTCTAGAAAATGATAATATTGTGTATTAAGACATTCCTTAATTAGGACAAAATGGCTGCTGTATATTTAC
TATATGGAGTTCTGAGTTAAATACCATCCTTAATACTGGGAACAGAATACAACCCATATAAATCAGATGCAGGTG
GTAGTCACATCACCAGAGTGATCAGTATAAATTTTCTTGGTGTATCCTTTTCTTTCAACACAGTGCAGATAAGA
GTTGAATATTGATATCATACTTTAGACTGCTGTTCTGATTGCATTTATCTTTTCTTACATCATTTAGAATTTT
ATTTCCCTGATTTCAGTTTTTGTCTGTGTGAAACAGCTCTGATGAACACTAAATATTAATTTCAATTAGCTAGATT
GTACATACTTGCAGATTTAACAAAATTTTAGGGAAATTGAAAAAGACATGTAGAATTTGTTGTCTTCTGCTAAGC
ACGAAAAGTTAAGATATCTGCTTACATTGATTTTGTAGACACATTAAGTCAAGATTTGGAATTTAAGTCACTGGC
AGGTATCTGTGCATTCATAGAACTTATAAAGGTCCAGGATCACTTTTAAGGGATTTTTATTAGTTTAAAGGTAA
ATAAAGTCAGCTGAATCTACATGTCTCTTGTGTTTTATTTCTCTCTAACTTGAAAACAGTAAATCTGCAGATACTG
TGAGGCACAAATTATACTGTCAACCTACTGTTGCTATGGTTATATACTCCCACTTCATACATTACCAAGAGTCGA
TCACTGATTTAAATTTTTAATTTCTATAGTTAAGATTTACTGCATAATATAGAATATAAAGTTAAGTTAACATA
CTAACATTTCTCCTTTGGAGGAAGTTTTAATCTACTTCAGGATGCATATTATTATCAAGATACTTTTCATATACAG
GATAGCCTAATTTTATTTGTTTAAATATGCTTAATATGCCCCAGATTGCAAATGCATCCAGTCAGTAATATCACT
GTCTGTATGTGGAGGACATGTTCCCATGGATCATATGTGAAGATGTCAATAAGCTTGCATTAAGCCACCTGCTTT
GTAAGTGGATTGATTAATAAATAACTTATATTTCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4196

MVPDMAGYPHIRYISSGLDGTSTFRGPFGRGNFEELIHLEERLGNVNRGASQGTIERCTYPHKYKKRKLHCKQDGE
GTEEDTEEKCTICLSILEEGEDVRRLPCMHLFHQVCVDQWLITNKKCPICRVDIEAQLPSES

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FIGURE 4197

AATCCTGGAACAAGGCTACAGCGTCGAAGATCCCCAGCGCTGCGGGCTCGGAGAGCAGTCCTAACGGCGCCTCGT
ACGCTAGTGTCTCCCTTTTTCAGTCCGCGTCCCTCCCTGGGCCGGGCTGGCACTCTTGCCCTTCCCCGTCCCT**CAT**
GCGCGTGTCTCCGACGCCCCGACGGTGTCCAGTGATTTGGAGAATATTGACACAGGAGTTAATTCTAAAGTTAAGAG
TCATGTGACTATTAGGCGAACTGTTTTAGAAGAAATTGGAAATAGAGTTACAACCAGAGCAGCACAAGTAGCTAA
GAAAGCTCAGAACACCAAAGTTCCAGTTCAACCCACCAAAACAACAATGTCAACAAACAACCTGAAACCTACTGC
TTCTGTCAAACCAGTACAGATGGAAAAGTTGGCTCCAAAGGGTCCTTCTCCACACCTGAGGATGTCTCCATGAA
GGAAGAGAATCTCTGCCAAGCTTTTTCTGATGCCTTGCTCTGCAAAATCGAGGACATTGATAACGAAGATTGGGA
GAACCCCTCAGCTCTGCAGTGAAGTAAAGGATATCTATCAGTATCTCAGGCAGCTGGAGGTTTTGCAGTCCAT
AAACCCACATTTCTTAGATGGAAGAGATATAAATGGACGCATGCGTGCCATCCTAGTGGATTGGCTGGTACAAGT
CCACTCCAAGTTTAGGCTTCTGCAGGAGACTCTGTACATGTGCGTTGGCATTATGGATCGATTTTTACAGGTTCA
GCCAGTTTCCCGGAAGAAGCTTCAATTAGTTGGGATTACTGCTCTGCTCTTGGCTTCCAAGTATGAGGAGATGTT
TTCTCCAAATATTGAAGACTTTGTTTACATCACAGACAATGCTTATACCAGTTCCCAAATCCGAGAAATGGAAAC
TCTAATTTTGAAGAATTGAAATTTGAGTTGGGTCGACCCCTGCCACTACACTTCTTAAGGCGAGCATCAAAGC
CGGGGAGGTTGATGTTGAACAGCACACTTTAGCCAAGTATTTGATGGAGCTGACTCTCATCGACTATGATATGGT
GCATTATCATCCTTCTAAGGTAGCAGCAGCTGCTTCCTGCTTGCTCAGAAGGTTCTAGGACAAGGAAAATGGAA
CTTAAAGCAGCAGTATTACACAGGATACACAGAGAATGAAGTATTGGAAGTCATGCAGCACATGGCCAAGAATGT
GGTGAAGTAAATGAAAACCTTAATAAATTCATCGCCATCAAGAATAAGTATGCAAGCAGCAAACCTCCTGAAGAT
CAGCATGATCCCTCAGCTGAAGTCAAAAGCCGTCAAAGACCTTGCCCTCCCCACTGATAGGAAGGTCCT**TAGG**CTGC
CGTGGGCCCTGGGGATGTGTGCTTCATTGTGCCCTTTTTCTTATTGGTTTAGAACTCTTGATTTTGTACATAGTC
CTCTGGTCTATCTCATGAAACCTCTTCTCAGACCAGTTTTCTAAACATATATTGAGGAAAAATAAAGCGATTGGT
TTTTCTTAAGGTAAAAA

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FIGURE 4198

MALLRRPTVSSDLENIDTGVNSKVKSHVTIRRTVLEEIGNRVTTTAAQVAKKAQNTKVPVQPTKTTNVNKQLKPT
ASVKPVQMEKLAPKGPSTPEDVSMKEENLCQAFSDALLCKIEDIDNEDWENPQLCSDYVKDIYQYLRQLEVLS
INPHFLDGRDINGRMRAILVDWLQVHVKFRLLQETLYMCVGIMDRFLQVQPVSRKKLQLVGITALLLASKYEEM
FSPNIEDFVYITDNAYTSSQIREMETLILKELKFELGRPLPLHFLRRASKAGEVDVEQHTLAKYLMELTLLIDYDM
VHYHPSKVAAAASCLSQKVLGQGKWNLKQYYTGYTENEVLEVMQHMAKNVVKVNENLTKFIAIKNKYASSKLLK
ISMIPQLNSKAVKDLASPLIGRS

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FIGURE 4199A

CGAGACTCAGCCAGAGGAGTACGGATTAAGTGGCCGAAGAAAGAGGAGTGAGGCAGGGGAGCGAGGGCGGACGCTC
CGAGCGCATCGGACTCACCTGGGCCGGCGGCGACCGGCGAGTACGAGTGGACTCTTGCCCTCCGCAGCATGCGCC
CCGCCTGCTAAGTCGCCGCCGTCTCGCCCTCACCTAGCACCGCCAATCCCGCCTGGATGGAGTCCCCCTCTGGGTT
CCCATTTGGCTCCTGTGAGTGCTTGGGTGTGCGGAGCCTGTTTTTGGCGAGGGGAACCAACTTTTGAAGTTCGCCC
AGAAGACTGCGTTCCAGCCCCAGTTCCCCGGCAGCGGGACCCGGCGAAGACGCGACCGCGGCGCGAGTCACCATG
GGAAGCAAAGGTGTCTACCAGTACCACTGGCAAAGCCACAATGTCAAGCACAGTGGTGTGGACGACATGGTGCTA
CTGTCCÀAGATCACAGAGAACTCCATCGTGGAGAATCTGAAGAAGAGATACATGGATGACTACATTTTTTACATAT
ATAGGATCTGTATTAATCTCAGTCAACCCTTTCAAGCAGATGCCATATTTTGGGGAAAAGGAAATTGAAATGTAC
CAAGGAGCGGCACAGTATGAAAACCCACCACATATCTATGCCCTTGCAGATAATATGTACAGAAACATGATCATT
GACAGAGAGAACCAGTGCGTCATTATCAGTGGTGAAAGTGGTGCTGGAAAAACAGTGGCTGCCAAATATATCATG
AGCTACATCTCCAGAGTGTCTGGAGGAGGGACCAAAGTCCAGCACGTGAAGGACATTATCCTGCAGTCCAACCCG
CTGCTGGAGGCCTTCGGGAACGCCAAGACCGTCCGGAACAACAACCTCCAGCCGATTTGGAAAATACTTTGAAATC
CAGTTCAGTCCAGGTGGGGAAACCAGATGGTGGAAAGATCTCCAACCTTCCTTCTGGAAAAATCTAGGGTGGTGATG
AGGAACCCAGGAGAGCGGAGTTTTACATATTTTACCAGCTCATCGAGGGCGCCTCTGCAGAGCAGAAACACAGC
CTTGGCATCACCAGCATGGACTATTATTACTACCTGAGCCTCTCGGGCTCATACAAGGTTGATGACATTGACGAC
AGGCGGGAGTTTTAGGAACTCTGCACGCCATGAATGTGATTGGGATCTTTGCAGAAGAGCAAACGCTGGTGTG
CAGATAGTGGCGGGTATTCTCCACCTGGGAAACATCAGCTTCAAAGAAGTTGGCAACTACGCGGCTGTGGAGAGT
GAAGAGTTTTTAGCTTTTCTGTCATATCTGCTAGGGATAAACAGGACCGGTTGAAAGAAAAGCTAACAAGCCGG
CAGATGGATAGCAAGTGGGGAGGCAAATCCGAATCCATCCACGTGACCCCAACGTAGAGCAGGCCTGTTACACC
CGGGATGCGCTCGCCAAGGCCCTGCACGCCCGGGTCTTTGATTTCTTGGTAGATTCCATCAATAAAGCCATGGAG
AAAGACCATGAAGAATACAACATTGGCGTCTTAGACATCTATGGCTTTGAAATATTCCAGAAAAATGGCTTTGAA
CAGTTTTGTATCAATTTTGTAAATGAAAACTGCAGCAGATTTTTATTGAACTGACATTAAAGGCAGAACAGGAA
GAATATGTTCAAGAGGGAATAAGATGGACACCCATTGAGTACTTTAATAATAAAATCGTATGTGACCTCATAGAG
AACAAAGTGAACCTCCTGGCATCATGAGCATCCTGGATGACGTGTGCGCCACGATGCATGCGGTGGGTGAGGGG
GCAGATCAGACGCTGCTCCAGAACTTCAGATGCAGATTGGGAGTCATGAGCACTTCAACAGTTGGAACCAAGGC
TTCATCATTATCATTATGCTGGGAAGGTATCCTATGACATGGATGGCTTTTGTGAAAGGAACCGGGATGTGCTT
TTTATGGATCTCATCGAGCTTATGCAGAGCAGCGAGCTGCCTTTTATAAAGTCTTTATTTCCGGAATACTGCAG
GCTGACAAGAAAGGGCGCCCAACTACTGCCGGAAGCAAATAAAGAAACAAGCCAATGACCTTGTGAGCACCTG
ATGAAATGTACGCCCCACTACATTCGCTGCATCAAGCCAAACGAAACCAAGAAGCCCAGAGACTGGGAGGAAAGC
AGGGTAAAGCATCAAGTCGAATATTTGGGTCTGAAAGAGAACATTCGAGTGAGAAGAGCTGGCTATGCCTATCGG
CGCATCTTCCAAAATTCCTACAGAGGTATGCCATTCTGACCAAAGCCACCTGGCCTTCTTGGCAGGGAGAGGAG
AAGCAAGGCGTCTGCACCTGCTGCAGTCGGTCAACATGGACAGCGACCAAGTTCCAGCTGGGGAGGAGTAAAGTG
TTCATCAAAGCCCCGAGTCTCTATTTCTTTTAGAAGAGATGAGAGAGAGAAAGTATGATGGGTATGCTCGAGTG
ATACAGAAATCATGGAGGAAATTCTGTGGCCCGGAAGAAATACGTTCAAATGAGAGAAGAAGCCTCAGACCTCTTA
TTGAACAAGAAGGAGAGAAGGAGAAACAGTATTAACAGGAACCTTTATAGGGGATTATATTGGGATGGAAGAGCAC
CCAGAACTCCAGCAGTTCTGTGGCAAGAGGGGAGAAGATTGATTTTCGACAGACACAGTCACCAAGTATGACAGGAGG
TTCAAGGGTGTAAGCGAGACCTGCTCCTTACCCCAAAGTGCTTGTAATCGGACGAGAAAAAGTCAAACAG
GGCCCAGACAAGGGCCTGGTGAAAGAAGTCTGAAGCGGAAAATCGAGATAGAACGGATCTTGTCTGTGTCCCTC
AGTACTATGCAGGATGACATTTTTTATTCTCCATGAGCAAGAGTATGACAGTTTGCTTGAATCTGTCTTCAAACCT
GAATTCTTAAGCCTCTTAGCAAAGCGTTACGAGGAGAAGACCCAGAAGCAACTACCTCTGAAATTCAGCAATACG
CTTGAAGTGAAGTTGAAAAAGGAAAACCTGGGGCCCCCTGGAGTGCAGGGGGCTCCCGGCAAGTGCAGTTCCACCAA
GGGTTTGGGGACCTGGCTGTCTCAAGCCCAGTAACAAAGTGCTGCAGGTGAGCATCGGACCTGGACTGCCCAAG
AACTCCCGTCTTACCAGAAGGAACACTACCCAAAATACAGGTTATTCCAGTGGGACTCAAAATGCCAACTACCCA
GTGAGAGCTGCCCCCTCTCCCCCAGGATACCATCAGAACGGAGTCATCAGAAACCAGTATGTGCCATATCCCCAT
GCTCCTGGAAGCCAGAGGTCCAATCAGAAAAGCCTGTACACCTCCATGGCCCGCCCGCCCTTGCTCGGCAGCAG
TCTACCAGTTCAGACCGAGTGTACAGACGCCAGAGAGCCTGGATTTCTCAAGGTCCCGGACCAAGGGAGCTGCA
GGGGTCAGGAGACAAACAACCAGTCGGCCTCCCCCAGCAGGGGGCAGACCCAAGCCCCAGCCCAAGCCCCAAGCCT
CAGGTGCCACAGTGCAAGGCTTTGTATGCCTATGACGCTCAGGACACAGACGAACTCAGCTTTAATGCCAATGAC

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FIGURE 4199B

ATTATTGATATTATCAAAGAAGATCCTTCTGGCTGGTGGACGGGTCGACTACGAGGCAAGCAGGGCCTGTTCCCC
AACAACTATGTGACCAAGATCTGAGGTGCGCGTGA CTCTGACACATGGGGCAGAGGAGCTCCAGGCACAGACCAG
GGGAGGGGATATTTAGGGGCTCCCCTTACAATCCACAATGAGCAATTGCTTCTCCAAGGCCTGGAGCTATTCTGG
TACCTTCCCCATGGAGGACACTGAAAAGGCTGGGTTGGGGACAGGGAGTATCACTCCATAAGTGATCCTAAAAGG
TAGCCTCTTCATAGGAACCCAGGAGGACAAAACCACCATGCATTAAGATTTATTTATTGTATTTAAACCTGGTGA
GAGGACAAGTGAGGTCTGCTCAGACCTTGTAGGCTTCTATCAAAACAGCACCCCTGCTTGCTCACCAGGCCTAGAG
AATGGCTGTAGGTGGCCGCTGACAAGTGCCTTTAGTTGAAGAGCACATTTCTTTCATCTCTCTTGTCCTACCTG
ATAGACACATTCCTCTCTGCCACCTTCCTTCAGGGAGGACCCGCCCTCTGCAGACTGGGCTTAGCGTGAGCAGGC
ACTTCCCATGTACGTGCCAAGGGTAAGCTGGCCTGCTGAGCCCAGGGCGACAGAGGGGCACTGGTTTACACTTTG
CCGGGACCATCAGGGCCGCCAAGCAGGTGAGGGGCTGGGGGCTGGGGGCTGGGCTGCTGGCTTTGCTTTCTCTGG
GTCTTCAATTAGAATGTGGCTGGCCCATATTGGTTTGTGTTTAAATGCTGTACTTACTACAAGAAGGATCTTTTT
TCAAGCTGTACATTTATAAAAACAGATCATATACTGTATATATAAAAATCTTGAGATGGTAGAAACATGTATGAA
TGTAAGTAGTATTCCACTGTACTCATTATAAGGTAGGTTTTCTTACAAAACCTCACACCAGGTACTTAAAGA
TGTGCTCTGCTTTTTTCCAACCTACGGAGTGTCACTGCTTTCTAGGTCAGTCCCTGCAGACTCTTCTCAACTCTTT
CCCTATAGGAAACTTACT

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FIGURE 4200

TTTTGGCTCTCTCACCAGCACCATGGCTGTTGGCAAGAACAAGCGCCTTACGAAAGGCGGCCAAAAAGGGAGCCAA
GAAGAAAGTGGTTGATCCATTTTCTAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTCAATATAAGAAA
TATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCGTCTGATGGTCTCAAGGGTCGTGTGTTTGA
AGTGAGTCTTGCTGATTTCAGAAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGG
TAAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAATGTGTTCCATGGTCAAAAAATGGCA
GACAATGATTGAAGCTCACGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTGTTCTGTGTTGTTTTAC
TAAAAAACGCAAAAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGAT
GATGGAAATCATGATCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCAT
TGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCATGATGTCTTCGTTAGAAAAGTAAAAATGCT
GAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACTGG
GGACGAGACAGGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGTTCAGA
CTTCAAAATAGTGGCAAATAAAACGTGCTATTTGT

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FIGURE 4201

MAVGKNKRLTKGGKKGAKKKVVDPF SKKDWDYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRKNQI
RKTSYAQHQQVRQIRKKMMEIMIREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFEL
GKLMELHGEGSSSGKATGDETGAKVERADGYEPPVQESV

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FIGURE 4202

GTGTGGATGAGGTCACCATTGTCAACATTTTGACCAACCGCAGCAATGCACAGAGACAGGATATTGCCTTCGCCT
ACCAGAGAAGGACCAAAAAGGAACTTGCATCAGCACTGAAGTCAGCCTTATCTGGCCACCTGGAGACGGTGATTT
TGGGCCTATTGAAGACACCTGCTCAGTATGACGCTTCTGAGCTAAAAGCTTCCATGAAGGGGCTGGGAACCGACG
AGGACTCTCTCATTGAGATCATCTGCTCCAGAACCAACCAGGAGCTGCAGGAAATTAACAGAGTCTACAAGGAAA
XX
XXXXXGGTAGAAGAGCAGAGGATGGCTCTGTCATTGATTATGAACTGATTGACCAAGATGCTCGGGATCTCTATG
ACGCTGGAGTGAAGAGGAAAGGAACTGATGTTCCCAAGTGGATCAGCATCATGACCGAGCGGAGCGTGCCCCACC
TCCAGAAAGTATTTGATAGGTACAAGAGTTACAGCCCTTATGACATGTTGGAAAGCATCAGGAAAGAGGTTAAAG
GAGACCTGGAAAATGCTTTCCTGAACCTGGTTCAGTGCATTCAGAACAAAGCCCCCTGTATTTTGCTGATCGGCTGT
ATGACTCCATGAAGGGCAAGGGGACGCGAGATAAGGTCTGATCAGAATCATGGTCTCCCGCAGTGAAGTGGACA
TGTTGAAAATTAGGTCTGAATTCAAGAGAAAGTACGGCAAGTCCCTGTACTATTATATCCAGCAAGACACTAAGG
GCGACTACCAGAAAGCGCTGCTGTACCTGTGTGGTGGAGATGACTGAAGCCCGACACGGCCTGAGCGTCCAGAAA
TGGTGCTCACCATGCTTCCAGCTAACAGGTCTAGAAAACCAGCTTGCGAATAACAGTCCCCGTGGCCATCCCTGT
GAGGGTGACGTTAGCATTACCCCCAACCTCATTTTAGTTGCCTAAGCATTGCCTGGCCTTCCTGTCTAGTCTCTC
CTGTAAGCCAAAGAAATGAACATTCCAAGGAGTTGGAAGTGAAGTCTATGATGTGAAACACTTTGCCTCCTGTGT
ACTGTGTCATAAACAGATGAATAAACTGAATTTGTACTTT

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FIGURE 4203

GTACTCGCCACGGCACCCAGGCTGCGCGCACGCGGTCCCGGTGTGCAGCTGGAGAGCGAGCGGCCACCGGGAGCC
CCCGGCACAGCCCGCGCCCGCCCGCAGGAGCCCGCGAAGATGCCCGGCGCAGCCTGCACGCGGCGGCCGTGCT
CCTGCTGGTGATCTTAAAGGAACAGCCTTCCAGCCCCGCCAGTGAACGGTTCCAAGTGGACTTATTTTGGTCC
TGATGGGGAGAATAGCTGGTCCAAGAAGTACCCGTCGTGTGGGGGCGCTGCTGCAGTCCCCCATAGACCTGCACAG
TGACATCCTCCAGTATGACGCCAGCCTCACGCCCCCTCGAGTTCCAAGGCTACAATCTGTCTGCCAACAAGCAGTT
TCTCCTGACCAACAATGGCCATTCACTGAAGCTGAACCTGCCCTCGGACATGCACATCCAGGGCCTCCAGTCTCG
CTACAGTGCCACGCAGCTGCACCTGCACTGGGGGAACCCGAATGACCCGCACGGCTCTGAGCACACCGTCAGCGG
ACAGCACTTCGCCGCCGAGCTGCACATTGTCCATTATACTCAGACCTTTATCCTGACGCCAGCACTGCCAGCAA
CAAGTCAGAAAGGCCTCGCTGTCTGGCTGTTCTCATTGAGATGGGCTCCTTCAATCCGTCTCTATGACAAGATCTT
CAGTCACCTTCAACATGTAAAGTACAAAGGCCAGGAAGCATTCTGCCGGGATTCAACATTGAAGAGCTGCTTCC
GGAGAGGACCGCTGAATATTACCGCTACCGGGGTCCCTGACCACACCCCTTGCAACCCCACTGTGCTCTGGAC
AGTTTTCCGAAACCCCGTGCAAATTTCCAGGAGCAGCTGCTGGCTTTGGAGACAGCCCTGTACTGCACACACAT
GGACGACCTTCCCCCAGAGAAATGATCAACAACCTCCGGCAGGTCCAGAAGTTTCGATGAGAGGCTGGTATACAC
CTCCTTCTCCCAAGTGCAAGTCTGTACTGCGGCAGGACTGAGTCTGGGCATCATCCTCTCACTGGCCCTGGCTGG
CATTCTTGGCATCTGTATTGTGGTGGTGGTGTCCATTTGGCTTTTCAGAAGGAAGAGTATCAAAAAAGGTGATAA
CAAGGGAGTCATTTACAAGCCAGCCACCAAGATGGAGACTGAGGCCACGCTTGAAGTCCCCGGAGCTCCCCGGGC
ACATCCAGGAAGGACCTTGCTTTGGACCCCTACACACTTCGGCTCTCTGGACACTTGCGACACCTCAAGGTGTTCT
CTGTAGCTCAATCTGCAAACATGCCAGGCCTCAGGGATCCTCTGCTGGGTGCCTCCTTGCCCTGGGACCATGGCC
ACCCCAAGAGCCATCCGATCGATGGATGGGATGCACTCTCAGACCAAGCAGCAGGAATTCAAAGCTGCTTGCTGTA
ACTGTGTGAGATTGTGAAGTGGTCTGAATTCTGGAATCACAAACCAAGCCATGCTGGTGGGCCATTAATGGTTGG
AAAACACTTTCATCCGGGGCTTTGCCAGAGCGTGCTTTCAAGTGTCTGGAAGTCTGCTGCTTCTCCAAGCTTT
CAGACAAGAATGTGCACTCTCTGCTTAGGTTTTGCTTGGGAACTCAACTTCTTTCTCTGAGACGGGGCATCT
CCCTCTGATTTCTTCTGCTATGACAAAACCTTTAATCTGCACCTTACAACCTCGGGGACAAATGGGGACAGGAAG
GATCAAGTTGTAGAGAGAAAAAAGAAAACAAGAGATATACATTGTGATATATTAGGGACACTTTCACAGTCCTGT
CCTCTGGATCACAGACACTGCACAGACCTTAGGGAATGGCAGGTTCAAGTTCCACTTCTTGGTGGGGATGAGAAG
GGAGAGAGAGCTAGAGGGACAAAGAGAATGAGAAGACATGGATGATCTGGGAGAGTCTCACTTTGGAATCAGAAT
TGGAATCACATTCTGTTTATCAAGCCATAATGTAAGGACAGAATAATACAATATTAAGTCCAAATCCAACCTCCT
GTCAGTGGAGCAGTTATGTTTTATACTCTACAGATTTTACAAATAATGAGGCTGTTCTTGAAAATGTGTTGTTG
CTGTGTCCTGGAGGAGACATGAGTTCCGAGATGACCAATCTGCCTTTGAATCTGGAGGAAATAGGCAGAAACAA
AATGACTGTAGAACTTATTCTCTGTAGGCCAAATTTCAATTCAGCCACTTCTGCAGGATCCCTACTGCCAACCTG
GAATGGAGACTTTTATCTACTTCTCTCTCTCTGAAGATGTCAAATCGTGGTTTAGATCAAAATATATTTCAAGCTA
TAAAAGCAGGAGGTTATCTGTGCAGGGGGCTGGCATCATGTATTTAGGGGCAAGTAATAATGGAATGCTACTAAG
ATACTCCATATTCTTCCCCGAATCACACAGACAGTTTCTGACAGGCGCAACTCCTCCATTTCTCCCGCAGGTG
AGAACCCTGTGGAGATGAGTCAGTGCCATGACTGAGAAGGAACCGACCCCTAGTTGAGAGCACCTTGCAGTTCCC
CGAGAACTTTCTGATTCACAGTCTCATTTTGACAGCATGAAATGTCTCTTGAAGCATAGCTTTTTAAATATCTT
TTTCTTCTACTCCTCCTCTGACTCTAAGAAATTCTCTCTTCTGGAATCGCTTGAACCCAGGAGGCGGAGGTTGC
AGTAAGCCAAGGTCATGCCACTGCACTCTAGCCTGGGTGACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAA

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FIGURE 4204

MPRRSLHAAVLLLVILKEQPSSPAPVNGSKWTYFGPDGENSWSKKYPSCGGLLQSPIDLHSDILQYDASLTPLE
FQGYNLSANKQFLLTNNGHSVKLNLPSDMHIQGLQSRYSATQLHLHWGNPNDPHGSEHTVSGQHFAAELHIVHYN
SDLYPDASTASNKSEGLAVLAVLIEMGSFNPSYDKIFSHLQHVKYKGQEA FVPGFNIEELLPERTAEYYRYRGS
L TTPPCNPTVLWTVFRNPVQISQEQLLALETALYCTHMDDPSPREMINNFRQVQKFDERLVYTSFSQVQVCTAAGL
SLGIILSLALAGILGICIVVVVSIWLFRRKSIKKGDNKGVIYKPKATKMETEAHA

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FIGURE 4205

GCAGATCGCTTGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATG
CCTTTGGCTAGAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAACATAAAAAGAAACGCCTAGTACAA
AGTCCAAATTCTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTTCAGCCATGCTCAG
ACAGTGGTTCTTTGTGTAGGTTGTTCAACAGTGTTGTGCCAGCCTACAGGAGGAAAGGCCAGACTCACAGAAGGG
TGTTCAATTTAGAAGAAAGCAACACTAATGATTCAAACAGCTTCCTGAATTTTAATTTTGTGTTGTCTCACAGAAA
GCCTTATCATAAATTCATAATTCTAATTAATTTACCAAGATAATGTAATTACATTTGGTTTTGTAAGGTATACA
GCAGTAATCTCCTATTTTGGTGTCAGTTTTTCAATAAAGTTTTGATTATGGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4206

MPLARDLLHPSLEEEKKKKKKRLVQSPNSYFMDVKCPGCKYKITTVFSHAQTVVLCVGCSTVLCQPTGGKARLTE
GCSFRRKQH

4565/6881
FIGURE 4207

CCGCGCGCTCGCCCCGCGCTCCTGCTGCAGCCCCAGGGCCCCCTCGCCGCCGCCACCATGGACGCCATCAAGAAG
AAGATGCAGATGCTGAAGCTCGACAAGGAGAACGCCTTGGATCGAGCTGAGCAGGCGGAGGCCGACAAGAAGGCG
GCGGAAGACAGGAGCAAGCAGCTGGAAGATGAGCTGGTGTCACTGCAAAAGAACTCAAGGGCACC GAAGATGAA
CTGGACAAATACTCTGAGGCTCTCAAAGATGCCCAGGAGAAGCTGGAGCTGGCAGAGAAAAAGGCCACCGATGCT
GAAGCCGACGTAGCTTCTCTGAACAGACGCATCCAGCTGGTTGAGGAAGAGTTGGATCGTGCCAGGAGCGTCTG
GCAACAGCTTTGCAGAAGCTGGAGGAAGCTGAGAAGGCAGCAGATGAGAGTGAGAGAGGCATGAAAGTCATTGAG
AGTCGAGCCCCAAAAGATGAAGAAAAAATGGAAATTCAGGAGATCCAAGTAAAGAGGCCAAGCACATTGCTGAA
GATGCCGACCGCAAATATGAAGAGGTGGCCCGTAAGCTGGTCATCATTGAGAGCGACCTGGAACGTGCAGAGGAG
CGGGCTGAGCTCTCAGAAGGCAAATGTGCCGAGCTTGAAGAAGAATTGAAAAGTGTGACGAACAACCTTGAAGTCA
CTGGAGGCTCAGGCTGAGAAGTACTCGCAGAAGGAAGACAGATATGAGGAAGAGATCAAGGTCCTTTCCGACAAG
CTGAAGGAGGCTGAGACTCGGGCTGAGTTTTCGGAGAGGTCAGTAACTAAATTGGAGAAAAGCATTGATGACTTA
GAAGACGAGCTGTACGCTCAGAACTGAAGTACAAAGCCATCAGCGAGGAGCTGGACCACGCTCTCAACGATATG
ACTTCCATATAAGTTTTCTTTGCTTCACTTCTCCCAAGACTCCCTCGTTCGAGCTGGATGTCCCACCTCTCTGAGCT
CTGCATTTGTCTATTCTCCAGCTGACCCTGGTTCTCTCTCTTAGCATCCTGCCTTAGAGCCAGGCACACACTGTG
CTTTCTATTGTACAGAAGCTCTTCGTTTCAGTGTCAAATAAACACTGTGTAAGCT

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FIGURE 4208

TTGATGCTCTAAATGCAGAATTAATGGAGACTTCAATGACTGATATGTCAATTCTTAGTTTCTTTGAACATTTCC
ATATTTCTCCTGTGAAGTTGCATTTGAGTTTGTCTTTGGGTTCCGGAGGTGAAGAATCAGACAAAGAAAAACAGG
AAATGTTTGCAGTTCATTCTGTCAACTTGCTGTTGAAGAGCATAGGTGCTACTCTGACTGATGTGGATGACCTTA
TATTCAACTTGCTTATTATGAAATTCGATATCAGTTCTACAAGAGAGATCAGCTTATATGGAGTGTGTGGTAGGC
ATTACAGTGAACAGTTCTTGAAACAGATGTATGTCCTTGTATTGGGGTTAGATGTACTTGGAACCCATTTGGAT
TAATTAGAGGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCCTTCCAGGGTGCTGTTCAAGGCCCTGAAG
AATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTAGGTGGTGCAGCAGGAGTTGTAT
CTCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAGAGAG
AAGAGTTGAGTCGACAGCCCAGAGATTTTGGAGACAGCCTGGCCAGAGGAGGAAAGGGCTTTCTGCGAGGAGTTG
TTGGTGGAGTGACTGGAATAATAACAAACCTGTGGAAGGTGCCAAAAAGGAAGGAGCTGCTGGATTCTTTAAAG
GAATTGGAAGGGGCTTGTGGGTGCTGTGGCCCGTCCAACCTGGTGGAAATCGTAGATATGGCCAGTAGTACCTTCC
AAGGCATTTCAGAGGGCAGCAGAATCAACTGAGGAAGTATCTAGCCTCCGTCCCCCTCGCCTGATCCATGAAGATG
GCATCATTTCGTCTTATGACAGACAGGAATCTGAGGGCTCTGACTTACTTGAGAATCATATCAAAAAGTTGGAAG
GAGAGACTTACCGATAACCACTGTGCTATTCTGGAAGCAAGAAGACAATCCTTATGGTTACAAATAGGCGAGTGT
TGTGTATAAAGGAAGTTGAAATCCTGGGCCTTATGTGTGTAGACTGGCAATGTCCATTTGAAGATTTTGTATTTC
CTCCTAGTGTCTAGTGAATAATGTGCTAAAAATTTTCTAGTTAAGGAACAGGGTCTGTTCCACAAAAAGACAGTGCCA
ATCAAGGCTGTGTTTGAAGAGTTTACCTGAAGGACACCGCCACAGCAGAGAGAGCATGTAATGCCATTGAGGATG
CACAGTCAACGAGACAGCAGCAAAAAATTGATGAAGCAGTCATCAGTGAGACTTCTCAGACCCCAATTGCCATCTT
AATCACAGACCTCAGGGGCTCCAACAGGGAGAAAAACAATCACTGGTCTTGTCTATAAGTCACTCTGCTTTATC
TTGCTAAAGACAATTTTTCAAGCAATCCTTTAGTTTTAGTTTTCTGGAATAGCTAGTATTGGGTTTTCTAGTTTT
TTCACCTTTTAGTTTTTACTCTAATTTTGTAAACCATGTATATGCTAGCAGTCCACTTCTACGCCACCACCCAAAT
GGGTTCAGACCCTTGAAGAAACGTCACTTCAAACCTCAGAATGAAATTTTCATTAATATTAATAATTGTGAAGCAAAG
GTCAATAGGCTTATATTTAATTAAGCCTTACTGAAGAATAAGAAATGAGCTTAGAATGACTAGTGTCTTTGAA
AGGTTTTTTTTATTTTTGTTTTTTTGGGGTTTTTTTTTTTTTTTTTTTGGAGCCGAGTCTTGCTCTGTCGCCAGGCT
GGAATGCAGTGGTGCATCTTGGCTCACTGCAATCTCTGCCTCTCGGGTTCAAGCGGTTCTACTGCCTCAGCCTC
CTGAGTAGCTAGGATTACAGGTGTGTGCCACCACGCCTGGGTAATTTTTTTTTTTTTTTTGTATTTTTTAGTAGAGAT
GAGTTTCACCATGTTGGTCAGTCTAGTCTCGAACTCTGACCTTGTGATCCGCATGCCTCAGCCTCCCAAAGTGC
TGGGATTACAGGCATGAGCCACCACGGCCCGCCAAAAGGCTTTAACCCATGAACAAATGTTGGATCCTGACATTT
TGTTTAAGAGTGATTGTTCATAATTGAACTGAGTTAACAATTCTTGGTAAACCAGGTAATTGAATGAAGAAAGG
TCACTAAAGGGAGAAATGACATGTTTTCTATTTTCTTTTCATGAAAACACTGTTTTTCCCCCTAATAAAGCATAT
TTTACTTTGGTGCTTATTTTTCTCTCTGTCAGTCTAATAAAAAAATCTGGACAATCAAACCTTAAATAGCTACA
CTCTGCCCTCTGTAATGTAGCATTCAATAAAATTTGGAAGTATTTACATCCTCTTTCAAGATGAGCTTATATGAC
ACAATTATTATTTGCTGATACATGAAAAACTGCACCTTAAAGTTTCTCAAGACTCTGAAATATGTAATTTCAAT
ATTTTTATATTCCCAGAAATTGTTTCTTACAGGTTGAAAGTCTTTTAAAGGGCATCACAAATTAACATTTACTCCT
AATGCACGCCTAGAATGTATTTTAAATACTTACTAAGAAGAATGAAAATTTCTTTGGTTGTTTTATATATAAATAA
GGCATATATAATGACACTGTGTTCTGTGAGGGAGCAGGCCCTGTGAGAATCAATTCAGGACAGTATTTTTTTTTTG
TCCTTTCTCCATCCTTGATCAGAGATAAACTATTAAAACCTTTAAAAAATACTCAAAAATATGTAAGTTTTTTGGT
TGAACCTTTAGATTTGCTCATAATGTTTAAACATAACAACATTTATTTCAAATCACTGAATTCATGGAGATGTGGA
CACGCTTGGTTTGCTCTATTTTTGTTTATGTGTGATAGTGGTTCTGTCTATCATCATTCATGTTTTTTAAGGCCTG
GTCATAAAACCTTAAATTTTACTAGTGTACTTAATGTATATTCTAAAAAGAGAATGCAGTAACCTAATGCCCTAA
ATGTTTGATCTCTGTTTGTCTACTTTTTCAAATTTATTTTTTCTGTAAAGTATAATATATAAACTTCTTGC
TTAAATTGAATTTCTATATTAGTGGTTAATTGCAGTTTATTAAAGGGATCATTATCAGTAATTTTCATAGCAACTG
TTCTAGTGTTTTGTGTTTTTAAACAGAATTAGGAATTTGAGATATCTGATTATATTTTTTCATATGAATCACAGC
TGTTGACAATGTCCCATATATTTAAGAAATTATATCATACTGATACTATTTGTAACATTTTGATTGATTTAATC
TCCAGGGACAGAAATAATTCATTGGTAAAGTGTAATAATGCGTTTTTTAAAAATGCTTTGAGAGGTAATTACTTG
CATATGAGAGAAATAAAACATTTGGCACATTGTTTACAGGTGTGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4209

METSMTDM SILSFFEHFHISPVKLHLSLSLGS GGEESDKEKQEMFAVHSVNLLKLSIGATLTDVDDLIFKLAYYE
IRYQFYKRDQLIWSVVRHYSEQFLKQMYVLVLGLDVLGNPFGLIRGLSEGVEALFYEPFQGAVQGPEEFAEGLVI
GVRSLFGHTVGGAGVVSRTG SVGKGLAAITMDKEYQQKRREELSRQPRDFGDSLARGGKGF LRGVVGVTGII
TKPVEGAKKEGAAGFFKGIGKGLVGAVARPTGGIVDMASSTFQGIQRAAEESTEEVSSLRPPRLIHEDGII RPYDR
QESEGSDLLENHIKKLEGETYRYHCAIPGSKKTILMVTNRRVLCIKEVEILGLMCVDWQCPFEDFVFPPSVSENV
LKISVKEQGLFHKKDSANQGCVRKVYLKDTATAERACNAIEDAQSTRQQQKLMKQSSVRLLRPQLPS

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FIGURE 4210

GCGGCGGCGGCGGCGGCGGCGGTGACGGCCGGGAAGGGTCAGTTGGAGGCAGGCGCTCGCTGAGGCAAAAAGGAGG
CGCTCGGCCCCGCGGCCTGACAGGGACTTAGCCCCGAGAGATCGACCCCGCGCGCTGACCCACACCCACCCACT
CATCCATCTATCCACTCCCTGCGCCGCTCCTCCACCCCTGAGCAGAGCCGCCGAGGATGATAAACACCCAGGAC
AGTAGTATTTTGCCTTTGAGTAACTGTCCCCAGCTCCAGTGCTGCAGGCACATTGTTCCAGGGCCTCTGTGGTG
TCCTGATGCCCCTCACCCACTGTCTGAAGATCCCCGGTGGGCGAGGGGGCGGCAGGGATCCTTCTCTCTCAGCTCT
AATATATAAGGACGAGAAGCTCACTGTGACCCAGGACCTCCCTGTGAATGATGGAAAACCTCACATCGTCCACTT
CCAGTATGAGGTCACCGAGGTGAAGGTCTCTTCTTGGGATGCAGTCCTGTCCAGCCAGAGCCTGTTTGTAGAAAT
CCCAGATGGATTATTAGCTGATGGGAGCAAAGAAGGATTGTTAGCACTGCTAGAGTTTGCTGAAGAGAAGATGAA
AGTGAACATATGTCTTCATCTGCTTCAGGAAGGGCCGAGAAGACAGAGCTCCACTCCTGAAGACCTTCAGCTTCTT
GGGCTTTGAGATTGTACGTCCAGGCCATCCCTGTGTCCCTCTCGGCCAGATGTGATGTTTCATGGTTTATCCCTT
GGACCAGAACTTGTCCGATGAGGACTAATAGTCATAGAGGATGCTTTACCCAAGAGCCACAGTGGGGGAAGAGGG
GAAGTTAGGCAGCCCTGGGACAGACGAGAGGGCTCCTCGCTGTCTAGGGAAGGACACTGAGGGGCTCAGGGTGAG
GGTTGCCTATTGTGTTCTCGGAGTTGACTCGTTGAAATTGTTTTCCATAAAGAACAGTATAAACATATTATTCAC
ATGTAATCACCAATAGTAAATGAAGATGTTTATGAACTGGCATTAGAAGCTTTCTAAACTGCGCTGTGTGATGTG
TTCTATCTAGCCTAGGGGAGGACATTGCCTAGAGGGGGAGGGACTGTCTGGGTTTCAGGGGCATGGCCTGGAGGGC
TGGTGGGCGAGCACTGTCTAGGCTCAGGTTTCCCTGCTGTTGGCTTTCTGTTTTGGTTATTAAGACTTGTGTATTTT
CTTTCTTTGCTTCCTGTACCCCGAGGGGCTCCTGAGTATAGGCTTTTTCAGTCCCTGGGCAGTGTCTTGAGTTGT
TTTTTGACACTCTTACCTGGGCTTCTCTGTGTGCATTTGCGTCTGGCCTGGAGTAAGCAGGTCCGACCCCTCGTT
CTTTACAGCTTAGTGTTATTCTGGCATTGTTTAAAGCTGGCTTAATCTTGTTTAAATGTTATCAGTACATTTTAA
TAGGGGCATTGAAATTTACTCCACCACCAGGGCTTTTTTGGGGGATGCCTGGGCCTTTAAACACTAGCCAAAC
TCTAATTAATTCTCAAATCACTGCCAGGAGTTCTTGCTCCTGGCTGCAGGCCAGGCCCAAGGTCTCCTTCTTG
GGGTCACAAACAGCAGTAAGGAAGAGGAATATATAGCAACTCAGGGCCTGGGAATTGTGGGGCAATCCGTTCTTA
GGGACTGGATACTTCTGGCTGGCTGAGTATAGTACTAGCTGCCTCCCCACCAGGTTCCGAGTAGTGTCTGAGACT
CTGCTCTGCAGGGCCTAGGGTAGCGCTGGGAGTGTAGAAGTGGCCTGCCCTTAACTGTTTTCACTAAACAGCTTT
TTCTAAGGGGAGAGCAAGGGGGAGAGATCTAGATTGGGTGAGGGGGACGGGGATGTCAGGGAGGCAAGTGTGTTG
TGTTACTGTGTCAATAAACTGATTTAAAGTT

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FIGURE 4211

AGACAGAGTCTCACTCTGCCGCCAGGCTGGAGTGCAGTGGTGTGATCTGGGCTCACTGCAACCTCTGCCTCCTG
GGTTCAAGCGATTCTCCTGCTTCAGCCTCCTGAGTAGCTGGGATTACAGTGCCTCACCATGCCCCGGCTAATTTTT
GTATTTTTAGTGGAGATGGTGTCTTCCATGTTGACCAGGCTAGTCTCAAACCTCCTGACTTCAGGTGATTCACCC
GCCTCAGCTTCCCAAAGTGCTGGGATTACAGGCACGAGCCATCATGCCCCGCCATCAGTTCAATTAAATCTAGAT
ATCACATTCTTCCTATCCTTTTTTATTATACATGTCATGATATGGGATGTTGGTGGTAAATGTAACGTGGAGGAA
CAAGACATATGTAGGTACACTCCTTGAAGTGCACACGACATGATTGGGCACCCCCAAGGTTCTGTGACTCCCCGAC
CAGTGACCTGGAAATGCGCAATGGCCGGGGTAGAGGCAAACGCATGCGTCCCAACAGTAATACACCTGTCAATGA
GACAGCCACAGCCTCTGACAGCAAAGGGACCAGTAACAGCAGCAAAACCCGGGCAGGAGCCAATAGCAAAGGCCG
TCGGGGCAGCCAGAATTCTTCAGAGCACCGCCACCTGCCAGCAGCACTTCTGAGGATGTCAAGGCCAGCCCTTC
CTCAGCTAATAAGCGGAAAAACAAACCCCTTTTCAGACATGGAGCTGAATTCTAGCTCAGAGGACTCCAAAGGGAG
CAAGCGTGTCCGTACTAATTCCATGGGCTCAGCCACTGGCCCCCTTCTGGGACAAAGGTAGAACCCACTGTTCT
GGACAGAAACTGCCCTCCCCCGTCTAATTGACTGTCCCCACCCAACTGCAACAAGAAGTACAAGCACATCAA
TGGACTTAAGTACCACCAAGCTCATGCCATACAGATGATGACAGCAAGCCGGAAGCGGATGGGGACAGTGAGTA
CGGAGAGGAACCTATTCTCCATGCAGATCTTGGGAGCTGCAACGGTGCATCTGTCTCACAAAAAGGTTCTTGTC
CCCTGCCCCGCTCAGCTACCCCCAAAGTTCGACTTGTAGAGCCCCATAGCCCTTCTCCTTCAAGCAAATTCAGCAC
AAAAGGCCTCTGTAAGAAAAAGTTGAGTGGGGAAGGGACACAGACCTTGGGGCCTTATCCAATGATGGCTCTGA
TGATGGACCCTCAGTGATGGATGAAACAAGCAATGATGCCTTTGATTCTTTAGAAAGGAAGTGATGG

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FIGURE 4212

MIGH PQGSVTPRPVTWKCAMAGVEANACVPTVIHL SMRQPQPLTAKGPVTA AKPGQEP IAKAVGAARILQST AHL
PAALLRMSRPALPQLISGKTNPFTWS

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FIGURE 4213

CTCTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCAC
ATGCAGCCTATTCGCTGCACTAACTGTGCCCGATGCGTGCCCAAGACAAGGCCATTAAGAAATTCGTCATTTCGA
AACATAGTGGAGTCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTGCATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GGTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 4214

GTGAAACACCCTCGGCTGGGAAGTCAGTTCGTTCTCTCCTCTCCTCTCTTCTTGTGTTGAAC**ATGG**TGCGGACTAA
AGCAGACAGTGTTCCAGGCACTTACAGAAAAGTGGTGGCTGCTCGAGCCCCCAGAAAGGTGCTTGGTTCTTCCAC
CTCTGCCACTAATTTCGACATCAGTTTCATCGAGGAAAGCTGAAAATAAATATGCAGGAGGGAACCCCGTTTGCCT
GCGCCCAACTCCCAAGTGGCAAAAAGGAATTGGAGAATTCTTTAGGTTGTCCCCTAAAGATTCTGAAAAAGAGAA
TCAGATTCTGAAGAGGCAGGAAGCAGTGGCTTAGGAAAAGCAAAGAGAAAAGCATGTCCTTTGCAACCTGATCA
CACAAATGATGAAAAAGAA**TAGA**ACTTTCTCATTTCATCTTTGAATAACGTCTCCTTGTTTACCCTGGTATTCTAG
AATGTAAATTTACATAAATGTGTTTGTTCGAATTAGCTTTGTTGAACAGGCATTTAATTAAAAAATTTAGGTTTA
AATTTAGATGTTCAAAAGTAGTTGTGAAATTTGAGAATTTGTAAGACTAATTATGGTAACTTAGCTTAGTATTCA
ATATAATGCATTGTTTGGTTTCTTTTACCAAATTAAGTGTCTAGTTCTTGCTAAAATCAAGTCATTGCATTGTGT
TCTAATTACAAGTATGTTGTATTGAGATTTGCTTAGATTGTTGTACTGCTGCCATTTTTATTGGTGTTTGATTA
TTGGAATGGTGCCATATTGTCCTCCTTCTACTTGCTTTAAAAAGCAGAGTTAGATTTTTTGCACATTAAAAAATT
CAGTATTAATT

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FIGURE 4215

MVRTKADSVPGTYRKVVAARAPRKVLGSSTSATNSTSVSSRKAENKYAGGNPVCVRPTPKWQKGIGEFFRLSPKD
SEKENQIPEEAGSSGLGKAKRKACPLQPDHTNDEKE

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FIGURE 4216

AATATGGTGCTAAAAGAACTCCTTACCTTTCTCTGACTACAATTTATTTGGACATACTTTTGTATTGAAGAGAGG
TATACATACTGAAGCTACTTGCTGTACTATAGGAGACTCTGTCCTGTAGGATCATGGACCATCCTAGTAGGGAAA
AGGATGAAAGACAACGGACAACCTAAACCCATGGCACAAAGGAGTGCACACTGCTCTCGACCATCTGGCTCCTCAT
CGTCCTCTGGGGTTCTTATGGTGGGACCCAACTTCAGGGTTGGCAAGAAGATAGGATGTGGGAACCTCGGAGAGC
TCAGATTAGGTAAAAATCTCTACACCAATGAATATGTAGCAATCAAACCTGGAACCAATAAAATCACGTGCTCCAC
AGCTTCATTTAGAGTACAGATTTTATAAACAGCTTGGCAGTGCAGGTGAAGGTCTCCACAGGTGTATTACTTTG
GACCATGTGGGAAATATAATGCCATGGTGTCTGGAGCTCCTTGGCCCTAGCTTGGAGGACTTGTTTGACCTCTGTG
ACCGAACATTTACTTTGAAGACGGTGTTAATGATAGCCATCCAGCTGCTTTCTCGAATGGAATACGTGCACTCAA
AGAACCTCATTTACCGAGATGTCAAGCCAGAGAACTTCCTGATTGGTCGACAAGGCAATAAGAAAGAGCATGTTA
TACACATTATAGACTTTGGACTGGCCAAGGAATACATTGACCCCGAAACCAAAAAACACATACCTTATAGGGAAC
ACAAAAGTTTAACTGGAACCTGCAAGATATATGTCTATCAACACGCATCTTGGCAAAGAGCAAAGCCGGAGAGATG
ATTTGGAAGCCCTAGGCCATATGTTTCATGTATTTCCCTTCGAGGCAGCCTCCCCTGGCAAAGGACTCAAGGCTGACA
CATTAAAAGAGAGATATCAAAAAATTGGTGACACCAAAAGGAATACTCCCATTTGAAGCTCTCTGTGAGAACTTTC
CAGAGGAGATGGCAACCTACCTTCGATATGTCAAGCGACTGGACTTCTTTGAAAAACCTGATTATGAGTATTTAC
GGACCCCTCTTCACAGACCTCTTTGAAAAGAAAAGGCTACACCTTTGACTATGCCTATGATTGGGTTGGGAGACCTA
TTCCTACTCCAGTAGGGTCAGTTCACGTAGATTCTGGTGCATCTGCAATAACTCGAGAAAAGCCACACACATAGGG
ATCGGCCATCACAACAGCAGCCTCTTCGAAATCAGAGCCTTAGGACTGTTACAGCTGAGCATTATGATGTTAACA
ACTCAGCCATCTGGCACAGGGGAAGAGGCACCTTAAAACAGATTCTTCTGGACAAAAGTCACATATGAGCAAGATCA
GAATAGTAGCAGATGTAAAAGCAGAATGTATCATCAGAGCGCCGAGGAGAGTGGGAAATTCAGCCCAGCCGGCA
GACCAATACCTCATACCTAACGTCTCACTTGGCTGCAGACCGCCATGGGGGATCAGTGCAGGTGGTTAGCTCAAC
CAATGGAGAGCTGAATGTTGATGATCCACGGGAGCCCACTCCAATGCACCAATCACAGCTCATGCCGAGGTGGA
GGTAGTGGAGGAAGCTAAGTGCTGCTGTTTCTTTAAGAGGAAAAGGAAGAAGACTGCTCAGCGCCACAAGTGACC
AGTGCCTCCCAGGAGTCTCAGGCCCTGGGGACTCTGACTCAATTGTACCTGCAGCTCCTGCCATTTCTCATTGG
AAGGGACTCCTCTTTGGGGGAGGGTGGATATCCAACTAAAAGAAGAAAACAGATGCCCCCAGAAGGGGGCCAGT
GCGGGCAGCCAGGGCCTAGTGGGTCATTGGCCATCTCCGCCTGCCTAAGGCTCTGAGCAGGTCCCAGAGCTGCTG
TTCCTCCACTGCTTGCCCATAGGGCTGCCTGGTTGACTCTCCTTCCCATTGTTTACAGTGAAGGTGTCATTACAA

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FIGURE 4217

MDHPSREKDERQRTTKPMAQRS AHCSRPSGSSSSSGVLMVGP NFRVGGKIGCGNFGE LRLGKNLYTNEYVAIKLE
PIKSRAPQLHLEYRFYKQLGSAGEGLPQVYYFGPCGKYNAMVLELLGPSLEDLFDLCDRTFTLKT VLMIAIQLLS
RMEYVHSKNLIYRDVKPENFLIGRQGNKKEHVIHIIDFGLAKEYIDPETKKHIPYREHKSLTGTARYMSINTHLG
KEQSRRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTKRNTPIEALCENFPEEMATYLRVVRRLDFFE
KPDYEYLRTLFTDLFEKKGYTFDYAYDWVGRPIPTPVGSVHVDSGASAITRESHTHDRPSQQQPLRNQSLRTVT
AEHYDVNNSAIWHRGRGT

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FIGURE 4218

GGCACGAGGACGGCGCCCCGCCGCCCGCCGGAGCCCGCGAGCAACCCAGTCCCCCCCACCCGCGCGTGGCGGCG
CCGGCTCCCTAGCCACCGCGGCCCCACCCTCTTCCGGCCTCAGCTGTCCGGGCTGCTTTTCGCCTCCGCCTGTGGA
TGCTGCGCCTCTCCGAACGCAACATGAAGGTGCTCCTTGCCGCCGCCCTCATCGCGGGGTCCGTCTTCTTCCTGC
TGCTGCCGGGACCTTCTGCGGCCGATGAGAAGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTAC
GAATTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAAGACTGTTCCAAAAACAGTGGATAATT
TTGTGGCCTTAGCTACAGGAGAGAAAAGGATTTGGCTACAAAAACAGCAAATTCCATCGTGTAATCAAGGACTTCA
TGATCCAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAAAGAGCATCTACGGTGAGCGCTTCCCCGATG
AGAACTTCAAACGAAGCACTACGGGCCTGGCTGGGTGAGCATGGCCAACGCAGGCAAAGACACCAACGGCTCCC
AGTTCTTCATCACGACAGTCAAGACAGCCTGGCTAGATGGCAAGCATGTGGTGTGTTGGCAAAGTTCTAGAGGGCA
TGGAGGTGGTGCGGAAGGTGGAGAGCACCAAGACAGACAGCCGGGATAAACCCTGAAGGATGTGATCATCGCAG
ACTGCGGCAAGATCGAGGTGGAGAAGCCCTTTGCCATCGCCAAGGAG**TAG**GGCACAGGGACATCTTTCTTTGAGT
GACCGTCTGTGCAGGCCCTGTAGTCCGCCACAGGGCTTTGAGCTGCACTGGCCCCGGTGCTGGCATCTGGTGGAG
CGGACCCACTCCCCTCACATTCCACAGGCCCATGGACTCACTTTTGTAACAACTCCTACCAACCCTGACCAATA
AAAAAAAAATGTGGGTTTTTTTTTTTTTTTAAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4219

MLRLSERNMKVLLAAALIAGSVFFLLLPGPSAADEKKKGPKVTVKVYFDLRI GDEDVGRVIFGLFGKTVPKTVDN
FVALATGEKGFGYKNSKFHRVIKDFMIQGGDFTRDGTGGKSIYGERFPDENFKLKHYGPWVSMANAGKDINGS
QFFITTVKTAWLDGKHVVFGKVLEGM EVVRKVESTKTDSRDKPLKDVI IADCGKIEVEKPF AIAKE

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FIGURE 4220

TGCCTTTTCGCTGCTTGTGTTGGGGTTACAGGTGAAGGGGTTATGGGGTGAAGAACAACCCAGGGCCAGCGCTTGGCC
TTCCCGCCACCGTGGCGGCCGCCCGCGCTGTCTGTGAGGCGCCAGTTCCGGGGCGCTGCTCCCGGCCCTCCCCTC
GCTCTGAGGCTCGGGGTCCCCAGCTCCGCGTAAACTGCACGATTTGCGCCCTCTGCTCAGCTCCCCCTCTGCCCCCT
CTTTCCAAGAGAGACTTCCAGATCCCACATTTTCTTGACTGATTTTAAAGCATTCTTCGTTTATAGCTGTCTGT
TTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGATGTATCCCTTTCCAT
GACCCGACCTGTGTCTATTGAGGGGTCCGAGGAATACCAGCGTAAGCACCTAGCAGCCCATGGTTTAAACGATGCT
GTTTGAGCACATGGCCACAAATTACAAGCTTGAATTTACAGCACTTGTGGTTTTTTCATCACTTTGGGAGTTGAT
GGTCCCCTTACGAGAGATTATAATACCCTACAGGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTT
GGAGTCTGCATTAGTTGGTGTGTTTGCAATATCGTTTCAGCAAGAATGGGGTGGTGCAATTCCTTGCCAGGTTGTCCT
GGTGACAGACGGCTGTCTTGGCATTGGTAGAGGGTCACTGCGACATTCCTTAGCCACTCAAAATCAACGAAGTGA
GAGCAACAGGTTTCCACTACCTTTTCCCTTTCCCCTCTAAGTTATATATCATGTGCATGGCGAATTTGGAGGAGCT
CCAGAGCACCGATTCTTGGAAATGCCTTGAACGTCTCATAGATTTAAACAATGGTGAAGGGCAGATTTTTACTAT
TGATGGCCCCCTGTGCTTGAAGAATGTACAGTCTATGTTTGGAAAACTGATAGATTTGGCATATACGCCCTTTCCA
TGCTGTTTCTCAAGTGTGGCCACCTAACTGCTGATGTACAAGTCTTCCCCAGGCCAGAACCTTTTTGTTGTAGATGA
AGAAATTGATCCTATCCCTAAAGTCATTAACACAGATTTGGAAATAGTGGGATTTATTGATATAGCTGATATTTT
AAGTCCCCCAGTTCTGTCCAGACATCTGGTCTTACCTATAGCACTTAACAAAGAAGGTGATGAGGTGGGTACTGG
CATCACTGATGACAATGAAGATGAAAATTCAGCCAATCAGATTGCAGGCAAAATACCCAACTTTTGTGTCTCTGCT
CCATGGTAGCCTAAAAGTGAAGGAATGGTAGCGATTGTTCAATTAGGTCCTGAATGGCATGGAATGCTCTACTC
CCAAGCTGACAGCAAGAAGAAATCAAACCTCATGATGTCTCTCTTTGAGCCTGGCCCAGAACCTCTCCCATGGC
TAGGGAAAATGGCACAGTTGGGTCTTATTTTCAGATGCTAAAGAAAACCTTATGGCGAGGATGACAATAAGAGTC
CATTCCCCCTGCAGCCCCAAAAACAAACGCAGTTATGCCCAGAATGTGACTGTCTGGATCAAACCCAGCGGCCCTGC
AGACAGATGTACAGAAGATTTTAAGAAATGCAAGGAACTACCTGAAAAAACACAGACATTCTATAAGGAGCTGA
ACCGTTTGCAGAAAGGCCGCTCTAGCCTTTGGTTTTCTTGACCTGCTGAAAGGGGTGGCTGACATGCTGGAAAGGG
AATGCACACTGCTGCCTGAGACAGCCCACCCTGATGCTGCATTCCAGCTGACCCATGCTGCCCAGCAGCTCAAGC
TGGCCAGTACCGGCACCTCTGAGTATGCCGCTTATGACCAGAACATCACACCTTTGCACACGGACTTCTCTGGGA
GCAGCACTGAAAGAATTTGAACTGACTTTTGGAGCTTTCTTCTTTTTTTCATTTCACTGAAAATGCTTTAGGT
AAAAACCTTTCCAGTATGTTTACCTCTAGAAATAGCCACCCAAAGACCTTCCTGAGGCTGCCTCAGAAGCACCCT
TGCTGTTTTGAATGACTCTACTAGTATGAGAAGGATGTGAAGGTGGTTGGCTGGTTGGGCTTTAACTTCCTGGGA
TTCATAATTTTTAAGCTTGAAGATAGCTGCTGTTCCCATGATGGGCACATTTCTGAGAAGCTTGAATGACTGA
TGAGCATAGAGCACCCCTGCCTTCCTCAGGAAACCTGACCGGCAGGGGCTCTCTGGCTTCCTGAAAGCTTCACCT
CTTCCCTCGTTTATATCTCAACTGTAAGGGCATTTTCAAGCTTCTGTTTATGGAATGAGCAACTCAGACTGTCTG
GAGCTTGCTGAGTACAAACACACCACCCTAAGTTTTCAGAACTTTCTTAGAACTTGGGCAAAATGTGGTGGTAA
CTCTTAAGTGCTTTTGGTATCTCTTGAGATTCTAACTTTTAAAGAGCAACCATTAAATGTGTAAAATGATTCCCTAT
TATTCAGGTTTTTTTTTAATGAAAATAAAATATTTGATTTTCTAG

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FIGURE 4221

GAGCGTGGGGTATCTCGAGGTGCCGGGTTGCAGGCGCTCAGGAGCGCTAGGGTTTGAGGCCTGCTTTCTGCTCGC
GCCAGCAGAGCACTACCTGAGGCAGCGAGGCGCAGCGAGCCTAGCCTCCCCGCGCCCTGGGCAGTGTGGCCATGG
AGAATCAGGTGTTGACGCCGCATGTCTACTGGGCTCAGCGACACCGCGAGCTATATCTGCGCGTGGAGCTGAGTG
ACGTACAGAACCCTGCCATCAGCATCACTGAAAACGTGCTGCATTTCAAAGCTCAAGGACATGGTGCCAAAGGAG
ACAATGTCTATGAATTTACCTGGAGTTCTTAGACCTTGTGAAACCAGAGCCTGTTTACAAACTGACCCAGAGGC
AGGTAAACATTACAGTACAGAAGAAAGTGAGTCAGTGGTGGGAGAGACTCACAAAGCAGGAAAAGCGACCACTGT
TTTTGGCTCCTGACTTTGATCGTTGGCTGGATGAATCTGATGCGGAAATGGAGCTCAGAGCTAAGGAAGAAGAGC
GCCTAAATAAACTCCGACTGGAAAGCGAAGGCTCTCCTGAAACTCTTACAAACTTAAGGAAAGGATACCTGTTTA
TGTATAATCTTGTGCAATTCTTGGGATTCTCCTGGATCTTTGTCAACCTGACTGTGCGATTCTGTATCTTGGGAA
AAGAGTCCTTTTATGACACATTCCATACTGTGGCTGACATGATGATTTCTGCCAGATGCTGGCAGTTGTGGAAA
CTATCAATGCAGCAATTGGAGTCACTACGTCACCGGTGCTGCCTTCTCTGATCCAGCTTCTTGGAAGAAATTTTA
TTTTGTTTATCATCTTTGGCACCATGGAAGAAATGCAGAACAAAGCTGTGGTTTTCTTTGTGTTTTATTTGTGGA
GTGCAATTGAAATTTTCAGGTACTCTTTCTACATGCTGACGTGCATTGACATGGATTGGAAGGTGCTCACATGGC
TTCGTTACACTCTGTGGATTCCCTTATATCCACTGGGATGTTTGGCGGAAGCTGTCTCAGTGATTACAGTCCATT
CAATATTCAATGAGACCGGACGATTACAGTTTCACATTGCCATATCCAGTGAAAATCAAAGTTAGATTTTCCTTTT
TTCTTCAGATTTATCTTATAATGATATTTTTAGGTTTATACATAAATTTTCGTACCTTTATAAACAGCGCAGAC
GGCGCTATGGACAAAAAAGAAAAAGATCCACTAAAAAGAAAGATTTAGATGGCTTCTTGCCAGTTTGAGCCTAA
TCTGATTCTTACAGTTTTACCTTCTTGAACCAATGTAAAAGTTTTTTTAATGTTAAATGATTAAATTCTCAGTGA
GGCTATCTTCCTTTTCCCCAGTAACATTCCCTGAATTTACTGTTATCTTATTGTAGTACTTGCATGACATGGATT
CTGATATCTGATGAGAGGTTTATTCTTGTGTATTAGTTAATGACACCAAAGGCTCAGCCCACCCCAACCCAT
CTCATGTTTCAGTCTGTCTAATACATGCCAGAGATTTTTTTTTTCAAAAAGTGCTTTATCCCTACAATGTACTGACA
GTTCTTACAGTTGAGATTTGTTCTTTTCAGCTATTGCTTGTGAAAAAAGCAAGACTATGTCACTCTATAGAAGG
CTGTTAAAGTGACTCAGGCA

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FIGURE 4222A

GGCACGAGGTCACTGCCGTCCAGGTATCATCCTAGTCTTCCCTCCGTCTCTGGGATGGGAAACTCTTGTCTAGT
GATGTGACTCATTACGTGATCCCAGACTGGAAAGTTGTTCAAGATTATCTTGAGATCCTTGAGTTTCTGAGTTG
AAGGGAATTATTTTCATGCAGACAGCTTGTCAAGCTGTGCAGCATCAAAGAGGCAGGAGACAGTATAACAAACTG
CGAAACCTGCTGAAGGATGCGCGTCATGATTGCATTCTCTTTGCTAATGAATTCCAGCAATGCTGCTATCTGCCA
CGGGAAAGAGGAGAGTCCATGGAGAAGTGGCAGACCAGGAGCATATACAACGCAGCTGTTTGGTACTATCATCAC
TGCCAGGACAGGATGCCAATTGTTATGGTGACAGAAGATGAAGAGGCAATTGAGCAGTATGGAAGTGAAACAGAA
GGAGTATTCGTGATTACTTTCAAGAATTACCTGGACAATTTCTGGCCTGATTTAAAAGCTGCCCACGAGCTTTGT
GATTCTATCCTTCAGTCTCGACGGGAGAGAGAGAATGAGAGTCAGGAGAGCCATGGGAAGGAGTACCCAGAACAT
CTTCCCCTGGAAGTGTTAGAAGCTGGGATTAAATCTGGACGCTATATCCAGGGAATTCTGAATGTCAACAAACAC
AGAGCCCAAATAGAAGCTTTTGTTCGACTTCAAGGAGCCAGCAGTAAAGATTGAGATTTAGTCAGTGACATCCTA
ATCCACGGGATGAAGGCTCGAAACCGCTCAATTCATGGAGATGTGGTAGTTGTGGAGCTGCTTCCTAAAAATGAA
TGGAAGGAAGAACCGTAGCCCTGTGTGAGAATGACTGTGACGACAAGGCTTCGGGCGAGTCCCCAAGTGAGCCC
ATGCCTACAGGTCGAGTGGTGGGCATACCTCAGAAGAACTGGCGGGATTATGTGGTGACATTTCCGTCCAAAGAA
GAGGTCCAATCTCAGGGCAAAAAATGCTCAGAAAATCCTGGTTACACCTTGGGATTACAGAATTCCCAAAATTCGA
ATTAGCACTCAGCAAGCAGAAACCCCTCCAGGACTTCAGGGTGGTTCGTGCGCATCGATTCTGGGAGTCAACATCT
GTGTATCCAAACGGACATTTTGTGCGTGTTTTAGGAAGAATCGGAGATCTGGAAGGGGAAATTGCAACCATCCTG
GTGGAAGAACAGTATTTGAGTTATTCCTTTCTCAGAAGCTCAGATGTGTGAGATGCCAGTAAACACACCAGAAAGT
CCCTGGAAGGTGAGTCCGTAAGAGGAACAAAAACGTAAAGACTTGAGGAAAAGCCATCTCGTATTGAGCATTGAC
CCCAAAGGTTGTGAAGATGTGGATGACACACTCTCAGTCAGAACCTTAAATAATGGCAACCTGGAACCTGGGGTC
CACATCGCAGATGTAACACACITTTGTGGCACCAATTCTTACATTGATATTGAAGCTAGAACAAAGGGCCACCACT
TATTATCTAGCAGATCGTTCGCTATGACATGCTGCCTTCCGTCTCAGTGCAGATTTGTGTTCCCTTCTGGGAGGC
GTTGATAGGTATGCTGTAAGCATCATGTGGGAAGTGGATAAAGCCTCTTATGAAATTAAGAAAGTGTGGTATGGC
AGAACCATTATTGATCAGCATACAACTGTTCTATGAAGCAGCCCAAGAACTACTGGATGGAACTTAAGCGTT
GTTGATGATATTCCAGAATTCAAAGACTTGGATGAGAAGAGCAGACAAGCCAAGCTGGAGGAGTTGGTGTGGCA
ATTGGAAGCTGACCGACATAGCTCGCCATGTCAGAGCTAAACGAGACGGATGTGGTGCCCTGGAAGTGGAAAGGG
GTAGAGGTTTGCCTACAGCTAGATGACAAAAAGAACATTACAGACCTCATCCCCAAGCAGCCCCCTGGAAGTCCAC
GAGACAGTGGCTGAATGCATGATCCTGGCCAACCACTGGGTGCGCAAAAAGATCTGGGAGAGCTTCCCTCATCAG
GCCTTGCTGCGCCAGCACCTCCTCCACACCAGGAGTTCTTTTCAAGACTCCGGGAATGTGCTAAAGCCAAAGGC
TTCTTCATAGATACACGGTCCAATAAAACACTGGCTGATTCTCTGGATAATGCGAACGACCCCCACGATCCCATT
GTGAACAGGCTACTGCGCTCCATGGCCACGAGGCCATGTCGAATGCTCTGTACTTCTCCACCGGATCCTGTGCG
GAGGAGGAGTTCCATCATTACGGTCTTGCAATTAGATAAATATACCCACTTTACTTCTCCAATAAGAAGATATTCA
GATATTGTAGTACACCGCTTGTTAATGGCAGCCATTTCAAAAGATAAGAAAATGGAAATTAAGGGAAATCTGTTT
AGCAACAAAGATCTTGAGGAATTATGCAGACATATCAACAACAGAAACCAAGCAGCACAGCATTCTCAGAAGCAG
TCTACTGAGCTCTTCCAGTGCATGTACTTCAAAGACAAAGACCCTGCCACCGAGGAGCGTTGCATATCTGACGGA
GTTATTTATTCAATTAGAACAAATGGTGTGCTTCTATTATACCAAGGTTTGGGATTAAAGGTGCTGCTTATCTA
AAAAATAAAGATGGTTTAGTCATCTCATGTGGCCAGATAGCTGTTCTGAATGGAAACCAGGATCCCTTCAACGA
TTTCAAAACAAAATTACCTCTACTACAACAGATGGGGAATCTGTTACGTTCCATTTGTTTGACCATGTAACCGTA
AGAATATCCATACAGGCCTCACGTTGCCATTCTGATACAATCAGACTTGAAATAATTAGTAACAAACCATAACAAG
ATACCAAATACAGAACTTATTCATCAGAGTTCCCCCTTGTGTAAGAGTGAGTTAGTGAAAGAAGTAACTAAATCT
GTGGAAGAAGCTCAGCTTGCCCAAGAAGTCAAAGTAAACATCATTGAGGAGGAATATCAAGAATATCGCCAAACA
AAGGGAAGGAGCCTATACACACTTCTAGAGGAGATACGGGACCTAGCTCTCCTGGATGTTTCAAACAATTATGGA
ATATGAGAGGCTCTTACTTCACTAAGAGCTGTCATATGTGAATGTTTTACAGTCTTTTCAAACCTTAACATTTAAT
GTGTGCTACTCAGTGCTCTAGTCGATCAGGACTGGGTAGCTATTTTCGCATATATGTAAAATGTTCTCAGCCGGGC
ACGGTGGCTCACGCTGTAAACCCAGCACTTTGGGAGGCTGAGGCGGGCGGATCACGAGGTCAGGAGATTGAGAC
CATCCTGGCTAACACGGTGAAACCCAGTCTCTACTAAAAATACAAAAATTAGCCCGGCGTGGTGGCATGCGCCTG
TAGTCCCAGCTACTTGGGAGGCTGAAGCAGGAGAATTGCCTGAACCCAGGAAGAGGAGGTTGCAGTGAGCCGAGA
TCGCACCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAGTT
CTCTCATTCAATAAGTTGCATTAAATAAAGTATAATTAGGTCATATGGAAACAGTTTTTCAGTAATGAGTGGAC

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FIGURE 4222B

AGTAAGTGGTGGCTCTGCAGATGGCCCCCTTTCTAATAAGTTTAATAAACCCGAAATTACTGGTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4223

MQTACQAVQHQRGRQYNKLRNLLKDARHDCILFANEFQCCYLPRERGESMEKWQTRSIYNAAVWYYHHCQDRM
PIVMVTEDEEAIQQYGSETEGVFVITFKNYLDNFWPDLKAAHELCDSILQSRRERENESQESHGKEYPEHLPLEV
LEAGIKSGRYIQGILNVNKHRAQIEAFVRLQGASSKSDLVSDILIHGMKARNRSIHGDVVVVELLPKNEWKGRT
VALCENDCDDKASGESPSEPMTGRVVGILQKNWRDYVVTFPSKEEVQSQGKNAQKILVTPWDYRIPKIRISTQQ
AETLQDFRVVVRIDSWESTSVYPNGHFVRVLGRIGDLEGEIATILVENSISVIPFSEAQMCEMPVNTPESPWKVS
PEEEQKRKDLRKSHLVFSIDPKGCEVDVDTLSVRTLNNGNLELGVHIADVTHFVAPNSYIDIEARTRATTYYLAD
RRYDMLPSVLSADLCSLLGGVDYAVSIMWELDKASYEIKKVWYGRTIIRSAYKLFYEAAQELLDGNLSVVDDIP
EFKDLDEKSRQAKLEELVWAIGKLTDIARHVRAKRDGCGALELEGEVVCVQLDDKKNIHDLIPKQPLEVHETVAE
CMILANHWVAKKIWESFPHQALLRQHPPPHQEFFSELRECAKAKGFFIDTRSNKTLADSLDNANDPHDP IVNRL
RSMATQAMSNALYFSTGSCAEFFHHYGLALDKYTHFTSPIRRYS DIVVHRLMAAISKDKKMEIKGNLFSNKDL
EELCRHINNRRNQAQHSQKQSTELFQCMYFKDKDPATEERCISDGVIIYSIRTNGVLLFIPRFGIKGAAYLKNKDG
LVISCGPDSCSEWKPGSLQRFQNKITSTTTDGESVTFHFLDHVTVRISIQASRCHSDTIRLEIISNKPYKIPNTE
LIHQSSPLLKSELVKEVTKSVEEAQLAQEVKNIIQEEYQEYRQTKGRSLYTLLEEIRDLALLDVSNNYGI

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FIGURE 4224

GAACCGCCCCGCGCTGGGAATTTGCGGCGGCCCTCCGCCGGGGCAGCCGAGCTGAACCGGTCTCTTCCTCGGAAAG
GCAGGGCCGAGGGGCTGCGGGGCAGCC**ATG**GAGGCGACGCGGAGGCGGCAGCACCTGGGAGCGACGGGCGGCC
AGGCGCGCAGCTGGGCGCCTCCTTCCTGCAGGCCAGGCATGGCTCTGTGAGCGCTGATGAGGCTGCCCGCACGGC
TCCCTTCCACCTCGACCTCTGGTTCTACTTCACACTGCAGAACTGGGTCTGGACTTTGGGCGTCCCATTTGCCAT
GCTGGTATTCCCTCTCGAGTGGTTTCCACTCAACAAGCCCAGTGTGGGGACTACTTCCACATGGCCTACAACGT
CATCACGCCCTTTCTCTTGCTCAAGCTCATCGAGCGGTCCCCCGCACCCCTGCCACGCTCCATCACGTACGTGAG
CATCATCATCTTCATCATGGGTGCCAGCATCCACCTGGTGGGTGACTCTGTCAACCACCGCCTGCTCTTCAGTGG
CTACCAGCACCACTGTCTGTCCGTGAGAACCCCATCATCAAGAATCTCAAGCCGGAGACGCTGATCGACTCCTT
TGAGCTGCTCTACTATTATGATGAGTACCTGGGTCACTGCATGTGGTACATCCCCTTCTTCCTCATCCTCTTCAT
GTACTTCAGCGGCTGCTTTACTGCCTCTAAAGCTGAGAGCTTGATTCCAGGGCCTGCCCTGCTCCTGGTGGCACC
CAGTGGCCTGTACTACTGGTACCTGGTCACCGAGGGCCAGATCTTCATCCTCTTCATCTTCACCTTCTTCGCCAT
GCTGGCCCTCGTCTCTGCACCAGAAGCGCAAGCGCCTCTTCCTGGACAGCAACGGCCCTCTTCCTCTTCTCCTCCTT
CGCACTGACCCTCTTGCTTGTGGCGCTCTGGGTGCGCTGGCTGTGGAATGACCCTGTTCTCAGGAAGAAGTACCC
GGGTGTCTACTACGTCCCTGAGCCCTGGGCTTTCTACACCCTTCACGTGAGCAGTCGGCAC**TG**AGTCCCTGGCAC
CAGGCTCTGGCGCTCTGCTGGGTGGGAGGGTGGGCCATGGAGGGCATCTGAATACAGGAGTAGGGGGGGTGTGGG
TGTGTAACCAGAGACCGAGAGCATGAGTGGGGTGTGCCTCGTGTGCGTGGATTCTGTGTGTGTGTGTGTGTCTTGT
ATATGTGTGCGCAGAGTGCATCATTTTCAGACTCTACTATTTCCGTCAAGTTTCTGTTTGATTGGATCATCTCA
GGATCGGATTCTGTTTTAGAGTGTTCCTGGGCCAGGATCCGGGGCCCTGCCCTCCTCTGCACCTGACCACACTCC
CTACTCAGGGCTAGTCTGTTCTTCCCGGACATCTTCTGGTAGCCGTGCAGGAGAGGGCTGGGTGGGGCAGAGGCC
AGGAGGGGACCTGGTGTGTACCTGCCCACCACCTGGCTCATCCCTCAGGCCACCCCTGACCCTACATTACATAG
GTTACGTGAGCCTACTGTGGCTGTTGAGCAAAGCATTTCTCCTTTCTGGGCCTCATTGCACTAGATGGGCCTGT
GGTCCCAAAGTAGGTGAGTAGGTTGGGGTGTGCTGACACCCCTTGGGTGCAGCTTTGGGACAGATGAGTGGCTCTG
TCCTGTCACTGCCCTCTCCCTGCCCTGGGGGCTATGTGCACTCCAGACCCCTGCCAGGCTCAGGCCCATGAGGTA
TGGAGACACCCTGGCCCCCAGGAGCTGGAGGCACCGCCCACTCCCCTGGCATTCCAGCTTTGCAGGTGACCCCTC
TCTACCCAAAGCTCTGTCCCCCTGCTCCCACTCCAGAAGAACTGCGGCACGTGCTTCGGGCAGCCTAGCCACAGG
CTTTGAGCGCCTGCATTCCTGGGGGCTGGAGGGTGGGGTGCCAAAGGCCCTGAGCAAAGCCAGAGCTCCTCTCA
TCAAAGCCTTTACAAGGTACTGGGCCCAGAGGCTTTGCCTTGACAGAGTGGCCCAGGGTTTCAAGGGAGGAGGAA
CCTCCCCCTACCTAGGACCCCTTCTGTGGGGGTCTACAGAGTCAGGGACAGAAGGGAAGGGACCCACAGGAAGT
CACAGTGGTGCCAGGGATGTGTAGCCCCCAGCCACGGGGACGCGGGATTCAAGAATGAAGTAAATACAGTCAC
AGCCCCAAA

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FIGURE 4225

MEATRRRQHLGATGGPGAQLGASFLOARHGVSADAEAARTAPFHLDLWFYFTLQNWVLD FGRPIAMLVFFLEWFP
LNKPSVGDYFHMAYNVITPFLLLKLIERSPRTLPRSITYVSIIIFIMGASIHLLVGDSVNHRLLFSGYQHHL SVRE
NPIIKNLKPETLIDSFELLYYYDEYLGHCMWYIPFFLILFMYFSGCFTASKAESLIPGPALLLVAPSGLYYWYLV
TEGQIFILFIFTFFAMLALVLHQKRKRLFLDSNGLFLFSSFALTLLLVALWVAWLWNDPVL RKKYPGVIYVPEPW
AFYTLHVSSRH

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FIGURE 4226

GGCACGAGGCGCTCTTGCGGGAGCGTTCCGCATCGCCCCGGGGGCCCTACGCGAGGATCTCCGGGGCCGTTGGC
AGCGCCTGGCACTTCTGAGCTCGGCGGACGAGAGCCTGCAGGTTTCCTCCAGTCAGGGACGGCGAAGGGCGGAAA
GCGCAGGAGGAGGAGTGTTAGGCCTTAGGCCGGGTGGGCCGGGTGAGGAGAGACGCGCCCATCTTTCGCCATCC
GGGGTGCGCGAGGTCCTCTCGGGACCCGGCCGGCGACCCGTAGCTCGGGCACGCGCCTGTGCGATCCCGCAGGAA
GGAGGGGTCCGGCCTGAGGCCCGGGGCGGCGTCCGCCATGGAGATCCCCTCGGTCCAGGGCCGGCGCCTGGGACC
TGGCGGGCGGCCCTGACCGCCTTCCTCCCTGCGCGGGCTGGGTGCGGACGTGCCCTTCGCGGCACTCGGCCTCC
TCTGCGTCTCCGCCTTCCTGGGCCGCACTGCTGCCTGGGCGCGGCGGCGGCGACGGCGCCCTGTTGAATGGGCT
GTGAGGGCCCAGGTTTAAAGCGCTGGCGAACGCGGCCCTCCGGGGGCGCACGGCAGCTGCAGCGGTGGCGACCAA
CGGGTGTTGGAGTTGGCGGGGCC**ATG**GAGGGCCTGGCTGGCTATGTATACAAGGCGGCCAGCGAGGGCAAGGTG
CTGACTCTGGCCGCCTTGCTTCTCAACCGGTCTGAAAGCGACATCCGCTATCTGCTTGGCTATGTCAGCCAGCAG
GGAGGGCAGCGCTCCACGCCCCCTCATCATCGCAGCCCGCAATGGACACGCAAAGGTGGTACGCTTGCTCTTAGAA
CATTACCGGGTGCACTCAGCAGACTGGCACCGTCCGCTTCGACGGGTATGTCATTGATGGTGGCACTGCTCTT
TGGTGTGCAGCTGGAGCAGGACATTTTGAAGTTGTTAAACTTCTAGTCAGCCATGGAGCCAACGTGAACCATAAC
ACAGTAACATAATTCAACCCCCCTGCGGGCAGCATGCTTTGATGGCAGACTGGACATTGTGAAATACTTGGTTGAA
AATAATGCCAACATCAGCATTGCCAACAAATATGACAACACCTGCCTAATGATTGCGGCATATAAGGGACACACT
GATGTGGTCAGATACCTTTTAGAACAACTGCTGATCCCAATGCCAAAGCACATTGTGGAGCCACAGCATTGCAC
TTTGCAGCTGAAGCTGGGCACATAGATATTGTGAAAGAGCTGATAAAATGGCGTGCTGCTATAGTAGTGAATGGC
CATGGGATGACGCCATTGAAAGTAGCTGCCGAAAGCTGTAAAGCTGATGTGCTAGAACTGTTACTCTCTCATGCT
GATTGCGACCGAAGAAGTCGGATTGAAGCTTTGGAAGCTTTGGGTGCCTCCTTTGCAAATGACCGTGAGAACTAT
GACATCATAAAGACATAACCACTATCTATATTTAGCCATGTTAGAGAGGTTCCAAGATGGTGATAACATTCTCGAA
AAAGAGGTTCTTCCACCAATCCATGCTTATGGGAATAGAACTGAATGTAGAAATCCTCAGGAAGTGGAGTCCATT
CGGCAAGACAGAGATGCTCTTCATATGGAAGGCCTTATAGTTTCGGGAACGGATTTTAGGTGCTGACAATATTGAT
GTTTCTCATCCCATCATTTACAGAGGAGCTGTTTATGCGGATAATATGGAATTTGAGCAGTGTATCAAGTTGTGG
CTTCATGCCCTGCACCTCAGACAAAAAGGTAACAGGAACACCCACAAGGATCTTCTTCGATTTGCTCAAGTTTTC
TCACAAATGATACATTTGAATGAACTGTGAAGGCCCCAGACATAGAATGTGTTTTGAGATGCAGTGTTTTGGAA
ATAGAACAAAGTATGAACAGAGTGAAAAATATTTAGATGCTGATGTCCACAATGCTATGGACAATTATGAATGT
AATCTCTATACCTTTCTGTATTTAGTGTGCATCTCTACCAAAACACAGTGCAGCGAAGAAGATCAGTGCAAAATT
AACAAAGCAGATCTACAACCTGATTCACCTTGATCCAGAACTCGTGAAGGTTTCACCTTGCTGCATCTGGCTGTC
AACTCCAATACTCCAGTTGATGATTTCCACACCAATGACGTCTGCAGCTTTCCAAATGCACTTGTACAAAGCTC
CTGCTGGACTGTGGTGCTGAGGTGAATGCCGTGGACAATGAGGGAAACAGTGCCCTTCATATTATCGTTCAGTAC
AACAGGCCCATCAGTGATTTTTTGACCTTGCACTCCATCATCATTAGCCTAGTTGAAGCCGGAGCTCACACTGAC
ATGACGAATAAACAGAATAAGACTCCGCTAGACAAAAGTACAAGTGGGGTATCTGAAATACTGCTTAAAGCTCAA
ATGAAGATGAGTCTCAAGTGCCCTGGCTGCCCGAGCAGTTCGGGCTAATGACATTAACTACCAAGACCAGATCCCC
AGAAGTCTTGAAGAGTTTGTGGATTTCAT**TAA**GTGACTGGATATGTAAAGTCGTTTAATGTGGTGCTAAAAAGT
AAAGGACTTTTAAATCACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4227

MEGLAGYVYKAASEGKVLTLAALLLNRSSEDIRYLLGYVSQQGGQRSTPLIIAARNGHAKVVRLLEHYRVQTQQ
TGTVRFDGYVIDGATALWCAAGAGHFEVVKLLVSHGANVNHTTVTNSTPLRAACFDGRLDIVKYLVENNANISIA
NKYDNTCLMIAAYKGHTDVVRYLLEQRADPNAKAHCGATALHFAAEAGHIDIVKELIKWRAAIVVNGHGMTPLKV
AAESCKADVVELLLSHADCRRSRIEALLELGASFANDRENYDIKTYHYLYLAMLERFQDGDNILEKEVLPPIH
AYGNRTECRNPQELESIRQDRDALHMEGLIVRERILGADNIDVSHPIIYRGAVYADNMEFEQCIKLWLHALHLRQ
KGNRNTHKDLLRFAQVFSQMIHLNETVKAPDIECVLRCSVLEIEQSMNRVKNISDADVHNAMDNYECNLYTFLYL
VCISTKTQCSEEDQCKINKQIYNLIHLDPRTREGFTLLHLAVNSNTPVDDFHTNDVCSFPNALVTKLLD CGAEV
NAVDNEGNSALHIIVQYNRPISDFLTLSIIISLVEAGAHTDMTNKQNKTPDKSTTGVS EILLKTQMKMSLKCL
AARAVRANDINYQDQIPRTLEEFVGFH

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FIGURE 4228

CCTTTCCTCAGCTGCCGCCAAGGTGCTCGGTCTTCCGAGGAAGCTAAGGCTGCGTTGGGGTGAGGCCCTCACTT
CATCCGGCGACTAGCACCGCGTCCGGCAGCGCCAGCCCTACACTCGCCCGCGCC**ATG**GCCTCTGTCTCCGAGCTC
GCCTGCATCTACTCGGCCCTCATTCTGCACGACGATGAGGTGACAGTCACGGAGGATAAGATCAATGCCCTCATT
AAAGCAGCCGGTGTAATGTTGAGCCTTTTTGGCCTGGCTTGTTTGCAAAGGCCCTGGCCAACGTCAACATTGGG
AGCCTCATCTGCAATGTAGGGGCCGGTGGACCTGCTCCAGCAGCTGGTGCTGCACCAGCAGGAGGTCCCTGCCCC
TCCACTGCTGCTGCTCCAGCTGAGGAGAAGAAAGTGGAAGCAAAGAAAGAAGAATCCGAGGAGTCTGATGATGAC
ATGGGCTTTGGTCTTTTTGAC**TAA**ACCTCTTTTATAACATGTTCAATAAAAAGCTGAACTTT

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FIGURE 4229

MASVSELACIYSALILHDDEVTVTEDKINALIKAAGVNVEPFWPGLFAKALANVNIGSLICNVGAGGPAPAAGAA
PAGGPAPSTAAAPAEKKVEAKKEESEESDDDMGFGLFD

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FIGURE 4230A

CGCAGGTGGCAGGCAGGTGGGGCTGGTACAGCCCGCGCCGCTCTGCTGCAGCCGCTGCCGTCTACTCCTTGCGC
GCTGGCACTCCGCGAGCCTTTAAGGTTTCGCGCGGGGGCCAGGCAAGAGTTAGCC**ATGA**AGAGCCTCAAGTCCCGCC
TGAGGAGGCAGGACGTGCCCCGCCCCGCGTCGTCTGGCGCCCGCCGCCAGCGCATGCAGCAGATTGGAATA
AATATGATGACCGATTGATGAAAGCAGCAGAAAGGGGGGATGTAGAAAAAGTGACCTCAATCCTTGCTAAAAAGG
GGGTCAATCCAGGCAAACCTAGATGTGGAAGGCAGATCTGTCTTCCATGTTGTGACCTCAAAGGGGAATCTTGAGT
GTTTGAATGCCATCCTTATACATGGAGTTGATATTACAACAGTGACACTGCAGGGAGAAATGCTCTTCACCTGG
CTGCTAAGTATGGACATGCATTGTGCCTACAAAACTTCTACAGTACAATTGTCCCACTGAGCATGCAGACCTGC
AGGGAAGAACTGCACTTCACGATGCCGCAATGGCAGATTGTCTTCTAGCATACAGCTGCTTTGTGACCATGGGG
CCTCTGTGAATGCCAAAGATGTAGACGGGCGGACACCACTTGTTCTGGCTACTCAGATGAGTAGGCCAACAATAT
GTCAACTGCTGATAGATAGAGGAGCGGATGTTAATTCCAGAGACAAAACAAACAGAACTGCCCTCATGCTAGGTT
GCCAATATGGTTGCAGAGATGCAGTAGAAGTCTTAATTAATAATGGTGCTGATATAAGCTTGCTGGATGCGCTTG
GCCATGATAGTTCTTACTATGCAAGAATTGGTGACAATCTGGACATTCTAACCTTGTTGAAGACTGCATCGGAAA
ATACCAACAAAGGGAGAGAACTTTGGAAGAAAGGGCCATCTTTGCAACAGCGAAATTTGACACACATGCAAGATG
AAGTAAATGTGAAGTCACATCAGAGGGAGCATCAAAATATTCAGGATTTGGAGATTGAAAATGAAGATTTGAAAG
AGAGGTTGAGAAAAATTCAGCAAGAACAAAGAATACTTTTGGATAAAGTCAATGGTTTACAGTTACAGCTGAATG
AGGAAGTTATGGTTGCTGATGATCTGGAAAGCGAGAGAGAAAAGCTGAAGTCCCTTTTGGCAGCTAAAGAAAAGC
AACATGAAGAAAGCTTAAGGACTATTGAGGCTCTGAAAAATAGATTTAAATATTTTGAGAGTGATCATTTAGGAT
CAGGAAGTCATTTAGTAACCGAAAAGAAGATATGCTTCTTAACAAGGTCAGATGTATATGGCAGACTCACAGT
GTACTTCCCCAGGTATACAGCCCATATGCAAAGCAGATCTATGTTAAGACCTCTGGAAGTATCTTTACCCAGTC
AAACGTCATACTCTGAAAAATGAAATTTTAAAGAAAGAGTTAGAAGCAATGCGAACTTTCTGTGAGTCAGCAAAAC
AAGACCGACTGAAGCTCCAAAATGAAGTGGCACACAAAGTGGCAGAATGCAAAGCTTTAGCATTAGAATGTGAAA
GGTCAAGGAGGATTAGATGAACAGATAAAGCAATTAGAAGATGCATTAAAAGATGTGCAGAAGAGGATGTATG
AGTCAGAAGGTAAAGTTAAACAAATGCAGACCCATTTTCTTGCCCTTAAAGAACACTTAACAAGTGAAGCAGCCT
CAGGGAATCACAGACTAACCGAGGAAGTGAAGGATCAGTTGAAAGACTTGAAAGTAAAATATGAAGGTGCTTCAG
CAGAAGTGGGGAAATTAAGAAACCAAATCAAACAAATGAGATGATAGTAGAAGAGTTTAAAGGGGATGAAGGCA
AGCTGATAGAAGAAAATAAGCGATTACAGAAGGAAGTATGATGTGTGAAATGGAGCGAGAGAAGAAAGGAAGAA
AGGTCACAGAGATGGAAGGCCAGGCAAAAGAATTGTCAGCGAAGTTGGCCCTTTCATTCCAGCTGAAAAATTTG
AAAACATGAAGAGCTCATTATCAAATGAAGTGAATGAGAAAGCAAAAAAATTAGTAGAAATGGAAGAGAACATG
AAAAATCACTTAGTGAAATTAGACAGTTAAAGAGAGAACTTGAGAATGTTAAGGCCAAGCTTGCTCAGCACGTCA
AACCAGAGGAACATGAACAGGTTAAGAGCAGATTAGAACAGAAATCAGGAGAACTTGGGAAGAAGATCACTGAGT
TAACATTGAAAAATCAGACACTACAAAAGGAAATTGAAAAAGTTTATTTGGATAATAAGCTCCTCAAGGAGCAAG
CACATACTTAACAATTGAAATGAAAAATCATTATGTTCTTTAAAGTAAGTGAAGACATGAAAAAGTCACATG
ATGCAATTATTGATGATCTTAATAGAAAGCTTTTAGATGTAACACAAAAATATACAGAAAAGAAGTTGAAATGG
AGAAATTGCTACTGGAAAATGACAGCTTAAGTAAGGATGTAAGCCGCTAGAACTGTGTTTGTACCTCCTGAGA
AACATGAAAAAGAGATAATAGCTCTGAAATCCAATATTGTTGAAGTGAAGAAACAGCTGTCTGAAGTGAAGAAA
AATGTGGTGAAGACCAGGAGAAAATACACGCTCTCACATCTGAAAACACTAAGTGAAGAAAGATGATGAGTAATC
AGTATGTGCCAGTTAAAACCCATGAAGAGGTTAAAATGACACTGAATGACACGTTAGCCAAAACCTAACAGAGAAT
TATTAGATGTGAAGAAAAAATTTGAAGATATAAATCAGGAATTTGTAATAATAAAGATAAGAATGAAATATTAA
AAAGAAAACCTGGAACCACTCAGAACCAATAAAAGCTGAGTACATCAGCCTGGCAGAGCACGAGGCAAAGATGA
GCTCGCTAAGTCAGAGCATGAGAAAGGTGCAGGATAGTAATGCTGAAATCTTGCCCAACTACAGAAAAGGCCAAG
AAGAGATTGTGACACTGCATGCCGAAATTAAGGCCAGAGAAGGAGCTCGACACAATACAAGAATGCATTAAGG
TAAATACGCCCAATTGTGAGCTTTGAGGAGTGCGAGAGAAAATTTAAAGCAACAGAGAAAGAACTAAAAGACC
AGTTATCAGAGCAGACACAAAAGTATAGTGTGAGTGAAGAAGAAGTCAAGAAAAACAAGCAAGAGAATGACAAGT
TAAAGAAGGAGATTTTACCCTTCAGAAAGATTGAGAGATAAGACAGTTCTCATTGAGAAGTCTCATGAAATGG
AAAGAGCATTAAAGCAGAAAAACAGACGAGCTAAACAAACAGTTAAAGACTTGTCACAGAAATACACGGAAGTAA
AGAATGTGAAAGAGAAGCTAGTAGAAGAAAATGCCAAACAGACTTCTGAGATACTTGAGTGCAAAATCTTTTGC
AAAAACAACATGTTCCATTGGAACAGGTTGAGGCTCTGAAAAATCTCTTAATGGCACAATTGAAAAATCTAAGG
AAGAACTGAAGAGTATGCAAAGGTGTACGAGAAAGAGCAGCAGACAGTGACCAAAGTGCATCAATTGTTGGAGA

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FIGURE 4230B

ATCAAAAGAACTCTTCTGTACCCCTGGCAGAGCATTTCAGATTAAAGAAGCATTGAGAAAGAAGTTGGAATCA
TAAAAGCCAGCTTGAGAGAAAAGGAAGAAGAAAGCCAAAACAAAATGGAAGAAGTCTCCAACTTCAGTCGGAGG
TTCAGAATACTAAACAAGCATTAAAAAAATTAGAGACTAGAGAGGTAGTTGACTTGTCTAAATATAAAGCAACAA
AAAGTGATTTGGAGACACAGATTTCTAGCTTAAATGAAAAATTGGCCAATCTGAATAGAAAGTATGAGGAAGTAT
GTGAGGAAGTTTTGCATGCCAAAAAGAAGGAAATATCTGCAAAAGATGAGAAGGAATTACTGCATTTTCAGCATTG
AGCAAGAAATTAAGGATCAGAAGGAACGATGTGATAAGTCCTTAACAACAATCACAGAGTTACAAAGAAGAATAC
AAGAATCTGCTAAACAAATAGAAGCAAAAGATAATAAGATAACTGAACTGCTTAATGATGTGGAAAGATTAAAC
AGGCACTCAATGGCCTTTCCCAACTCACCTACACAAGTGGGAACCCACCAAGAGGCAGAGCCAGCTGATTGACA
CTCTGCAGCACCAAGTGAAATCTCTGGAGCAACAGCTGGCCGATGCTGACAGACAGCACCAAGAAGTAATTGCAA
TTTATCGGACACACCTTCTTAGTGCTGCACAGGGTCACATGGATGAAGATGTTTCAGGAGGCTCTGCTCCAGATCA
TACAAATGCGGCAGGGGCTTGTGTGCT**TAG**CCGTTAGCACTGACTGCCAGTATCTGTTTTATCTTGCTGGTGCTGA
ACATTCTTTGTGCAACTCCATGGTCTTTCTGGGCCTTACTGTGCTGGTATAATTAAATAAAATATATTTTGTTC
T

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FIGURE 4231

MKSLKSRLRRQDVPGPASSGAAAASAHADWNKYDDRLMKAAERGDVEKVTASILAKKGVNPGKLDVEGRSVFHVV
TSKGNLECLNAILIHGVDITTSDDTAGRNALHLAAKYGHALCLQKLLQYNCPTEHADLQGR TALFLKAMADCPSSI
QLLCDHGASVNAKDVDGRTPVLVATQMSRPTICQLLIDRGADVNSRDKQNR TALMLGCEYGCRDAVEVLIKNGAD
ISLLDALGHDSSYYARIGDNL DILTLLKTASENTNKGRELWKKGPSLQQRNLT HMQDEVNVKSHQREHONTQDLE
IENEDLKERLRKIQQEQRILLDKVNGLQQLNNEEVMVADDLESEREKLKSLAAKEKQHEESLRTIEALKNRFKY
FESDHLGSGSHFSNRKEDMLLKQGQMYMADSQCTSPGIPAHMQSRSMRPLELSLPSQTSYSENEILKKELEAMR
TFCESAKQDR LKLQNELAHKVAECKALALECERVKEDSDEQIKQLEDALKDVQKRMYESEGKVKQMOTHTFLALKE
HLTSEAASGNHRLTEELKDQLKDLKVYEGASAEVGKLRNQIKQNEMIVEEFKRDEGKLIENKRLQKELSMCEM
EREKKGKRVTEMEGQAKELSAKLALSIPA EKFFENMKSSLSNEVNEKAKKLVEMEREHEKSLSEIRQLKRELENVK
AKLAQHVKPEEHEQVKSRL EQKSGELGKKITELTLKNQTLQKEIEKVYLDNKLLKEQAHNLTIE MKNHYPVKVS
EDMKKSHDAIIDD LNRKLLDVTQKYTEKKLEMEKLLLEND SLSKDVSRLET VFPPEKHEKEI IALKSNIVELKK
QLSELKKKCGEDQEKIHALTSENTNLKKMSNQYVPVKTHEEVKMTLNDTLAKTNRELLDVKKKFEDINQEFVKI
KDKNEILKRNLENTQNQIKAEYISLAEHEAKMSSLSQSMRKVQDSNAEILANYRKGQEEIVTLHAEIKAQKKELD
TIQECIKVKYAPIV SFEECERKFKATEKELKDQLSEQTQKYSVSEEEVKKNQENDKLKKEIFTLQKDLRDKTVL
IEKSHEMERALS RKTDELNQLKDL SQKYTEVKNVKEKLVEENAKQTSEILAVQNLLQKQHVPLEQVEALKKSLN
GTIENLKEELKSMQRCYEKEQQT VTKLHQ LLENQKNSSVPLAEHLQIKEAFEKEVGI IKASLREKEEESQNKMEE
VSKLQSEVQNTKQALKKLETREVV DLSKYKATKSDLETQISSLNEKLANLNRKYEEVCEEVLHAKKKEI SAKDEK
ELLHFSIEQEI KDQKERCDKSLTTITELQRRIQESAKQIEAKDNKITELLNDVERLKQALNGLS QLTYSNPTK
RQSQ LIDTLQHQVKSLEQQ LADADRQHQEVIAYRTHLLSAAQGHMDEDVQEALLQIQMRQGLVC

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FIGURE 4232

GCAGTCACTGCCGACCGGCTGGCTGGGCCTTGCGGCGTGAGGACCCCGGCGGCGCCGAGTCCCGCGAGCC**ATGG**
CCCAGTCCGGCGGGGAGGCTCGGCCCGGGCCCAAGACGGCGGTGCAGATCCGCGTCGCCATCCAGGAGGCCGAGG
ACGTGGACGAGTTGGAGGACGAGGAGGAGGGGGCGGAGACTCGGGGCGCCGGGGACCCGGCCCGGTACCTCAGCC
CCGGCTGGGGCAGCGCGAGCGAGGAGGCCGAGCCGCGGGCACAGTGGCACCCTGCAAGTGGAGGTGAGAATG
AGCGTGAGGACCTGGAGCAGGAGTGGAAGCCCCGGATGAGGAGTTGATCAAGAACTGGTGGATCAGATCGAAT
TCTGCTTTTCTGATGAAAACCTGGAGAAGGACGCCTTTTGTCTAAACACGTGAGGAGGAACAAGCTGGGATATG
TGAGCGTTAAGCTACTCACATCCTTCAAAAAGGTGAAACATCTTACACGGGACTGGAGAACCACAGCACATGCTT
TGAAGTATTCAGTGGTCCTTGAGTTGAATGAGGACCACCGGAAGGTGAGGAGGACCACCCCGTCCCACTGTTCC
CCAACGAGAACCTCCCCAGCAAGATGCTCCTGGTCTATGATCTCTACTTGTCTCCTAAGCTGTGGGCTCTGGCCA
CCCCCAGAAGAATGGAAGGTGCAAGAGAAGGTGATGGAACACCTGCTCAAGCTTTTGGGACTTTTGGAGTCA
TCTCATCAGTGC GGATCCTCAAACCTGGGAGAGAGCTGCCCCCTGACATCCGGAGGATCAGCAGCCGCTACAGCC
AAGTGGGGACCCAGGAGTGCGCCATCGTGGAGTTCGAGGAGGTGGAAGCAGCCATCAAAGCCCATGAGTTCATGA
TCACAGAATCTCAGGGCAAAGAGAACATGAAAGCTGTCTGATTGGTATGAAGCCACCCAAAAAGAAACCTGCCA
AAGACAAAAATCATGACGAGGAGCCCACTGCGAGCATCCACCTGAACAAGTCCCTGAACAAGAGAGTCGAGGAGC
TTCAGTACATGGGTGATGAGTCTTCTGCCAACAGCTCCTCTGACCCCGAGAGCAACCCACATCCCCTATGGCGG
GCCGACGGCACGCGGCCACCAACAAGCTCAGCCCGTCTGGCCACCAGAATCTCTTTCTGAGTCCAAATGCCTCCC
CGTGCAAAAGTCCTTGAGCAGCCCCCTTGCCCAACGCAAAGGCGTTTCCAGAAAGTCCCCACTGGCGGAGGAAG
GTAGACTGAACTGCAGCACCAGCCCTGAGATCTTCCGCAAGTGTATGGATTATTCCTCTGACAGCAGCGTCACTC
CCTCTGGCAGCCCCCTGGGTCCGGAGGCGTCGCCAAGCCGAGATGGGGACCCAGGAGAAAAGCCCCGGTACGAGTC
CCCTGCTCTCCCGGAAGATGCAGACTGCAGATGGGCTACCCGTAGGGGTGCTGAGGTTGCCCAGGGGTCTGACA
ACACCAGAGGATTTTCATGGCCATGAGAGGAGCAGGGCCTGTGTAT**TAA**ATACCTTCTATTTTTTAATACAAGCTCCA
CTGAAAACCACCTTCGTTTTCAAGGTTCTGACAAACACCTGGCATGACAGAATGGAATTCGTTCCCCTTTGAGAG
ATTTTTTATTCATGTAGACCTCTTAATTTATCTATCTGTAATATACATAAATCGGTACGCCATGGTTTGAAGACC
ACTTCTAGTTTCAAGACTCCTGTTCTTCCAGCATGGCCACTATTTTGTATGATGGCTGATGTGTGTGAGTGTGAT
GGCCCTGAAGGGCTGTAGGACGGAGTTCCCTGGGGGAAGTCTGTTCTTTGGTATGGAATTTTTCTCTCTCTTT
GGTATGGAATTTTTCCCTTCAGTGACTGAGCTGTCTCGATAGGCCATGCAAGGGCTTCCTGAGAGTTCAGGAAA
GTTCTCTTGTGCAACAGCAAGTAGCTAAGCCTATAGCATGGTGTCTTGTAGGACCAAATCGATGTTACCTGTCAA
GTAAATAAATAATAAAACACCCAACTGGGAGTGCTG

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FIGURE 4233

MAQSGGEARPGPKTAVQIRVAIQEAEDVDELEDEEEGAETRGAGDPARYLSPGWGSASEEEPSRGHSGTTASGGE
NEREDLEQEWKPPDEELIKKLVDQIEFCFSDENLEKDAFLKXHVRRNKLGYVSVKLLTSFKKVKHLTRDWRTTAH
ALKYSVVLELNEDHRKVRRTTPVPLFPNENLPSKMLLVYDLYLSPKLWALATPQKNGRVQEKVMEHLLKLFGTFG
VISSVRILKPGRELPPDIRRISSRYSQVGTQECAIVEFEEVEAAIKAHEFMITESQGKENMKAVLIGMKPPKKKP
AKDKNHDEEPTASIHNLKSLNKRVEELQYMGDESSANSSSDPESNPTSPMAGRRHAATNKLSPSGHQNLFLSPNA
SPCTSPWSSPLAQKGVSRKSPLAEEGRINCSTSPFIFRKCMDYSSDSSVTPSGSPWVRRRRQAEMGTQEKSPGT
SPLLSRKMQTADGLPVGVRLRPRGPDNTRGFHGHRSRACV

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FIGURE 4234

ATGTCCATCAGGGTGACCCAGAAGTCCTACAAGATGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCTGCTCCTAC
ACAAGCTCTACACACCCAAAGAAGGAGCAGATCAAGGCCCTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTA
TGGTTCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAAC
AACAAGAACAACATGTTCCAGAGCTATATCAACAACCTTAGGTGGCAGCTGGAGACTCTGAGCCAGGAGAAGCTG
AAGCTGGAGGTGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAATATGAGGATGAGATCAAT
AAGCGTACAGAGGTGGAGAATGAATTTGTCCTCATCAAGAAGGATGTGGATGAAGCTTACATGAACAAGATAGAG
CTGGAGTCTTGCCTGGAAGGGCTGACTGACGAGATGGACTTCCTCAGGCAGCTGTTTGAAGAGGAGATCTGGGAG
CTGCAGTCCCACATCTCGGACATATCTGTGGTGCTGTCCATGGACAACAGCTACTTCCTGGACACGGTCAGCATC
ATTGCTGAGGTCAAGGAGGAGATTGCCAACCGCAGCCAGGCGGAGGCTGAGAGCATGCACCAGATCAAGTATGAG
GAGCTGCAGACGCTGGCTGGGAAGCTTGGGCATGACCTGCAGCCTATAAAGACTGAGATCTCCGAGATGAACTGG
AACATCAGCCGGCTCCAGGCTGAGATTAAGGGCCTCAAAGGCCAGATGGCTTCCCTGGAGGCCACCATCGCAGAT
GTGGAGCAGCGTGGGGAGCTGGCCGTTAAGGATGCCAACGCCAAGCTGTCCGAGCTGGAGGCCTCTCTGCAATGG
GCCAGGCAGGATATGGTGTGGCAGCTGCGTGAGTACCAGGAGCTGATGAATGTCAAGCTGGCCTTGGGCATCAAA
ACTGCCACCTACAGGAAGCTGCTGGAGGGTGAGGAGAGCCGGCTGGAGTCTGGGATGCAGAACATGACAATCCAT
ACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCCACCTATGGGGACCTCACAAGCCCCGGCCTCAGCTAC
AGCCTGGGCTCCAGCTTTGGCTCTGGCGCAGGCTCCAGCTCCTTCAGCCGCACCGGCTCCACCAGGGCTGTGGTT
GAAGAAGATTGA

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FIGURE 4235

MSIRVTQKSYKMSTSGPRAFSSCSYTSSTHPKKEQIKALNNKFASFIDKVFLEQQNKMLETKWSLLQQQKMARN
NKNNMFQSYINNLRWQLETLSQEKLKLEVELGNMQGLVEDFKNKYEDEINKRTEVENEFVLIKKDVDEAYMNKIE
LESCLEGLTDEMDFLRQLFEEEIWELQSHISDISVVLSDNSYFLDTVSIIEVKEEIANRSQAEAESMHQIKYE
ELQTLAGKLGHDLPQIKTEISEMNWNISRLQAEIKGLKGQMASLEATIADVEQRGELAVKDANAKLSELEASLQW
ARQDMVWQLREYQELMNVKLALGIKTATYRKLEGEESRLESGMQNMTIHTKTTSGYAGGLSSTYGDLTSPGLSY
SLGSSFSGAGSSSFRTGSTRAVEED

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FIGURE 4236

GCAGTACATTGAGCTCCACAGAGACAGCGCCAGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTC
GCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAATGTCATCATATGCATTT
TTTGTGCAAACGTCGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAAGAGTTTTCTAAGA
AGTGCCCATTTATGAAAGAGAAATGAAAACCTACATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCAAGGATCCC
AATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCTCTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGAACAT
CCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAG
CCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAG
CCTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAA
GATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGAAGATGATGATGAATAAGTT
GGTTCCTAGCGCAGTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAA
AAAACTGAAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTGTATAGTTAACACACT
ACCGAATGTGTCTTTAGATAGCCCTGTCTGGTGGTATTTTCAATAGCCACTAACCTTGCTTGGTACAGTATGGG
GGTTGTAAATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGACACAGCACAAATTAGTTATATATGGGGATGG
TAGTTTTTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTAACTGAATACCACTC
TGTAATTGCAAAAAAAAAAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTT
TTTTATTAGTATTGTTGTCTTTTCATAGGTCTGAAATTTTTCTTCTTGAGGGGAAGCTAGTCTTTTGCTTTTGC
CCATTTTGAATCACATGAATTATTACAGTGTTTATCCTTTTCATATAGTTAGCTAATAAAAAGCTTTTGTCTACCC
ACCCTGCATATCATAATGAGGGTAAAGTTAAGTTGAGATAGTTTTTCATCCATAACTGAACATCCAAATCTTGAT
CAGTTAAGAAATTTACATAGCCCACTTACATTTACAACTGAAGAGTAATCAATCTACTCAAAGCATGGGATTA
CTAGAATCAAACATTTTGAAAGTCTGTCTTGAAGGACTAATAGAAAAGTATGTTCTAACCTTTACATGAGGACT
CTATTCTTTAACTCCCATTACCATGTAATGGCAGTTATATTTTGCAGTTCCCACATTAAAGAAGACCTGAGAATG
TATCCCCAAAAGCGTGAGCTTAAAATACAAGACTGCCATATTAAATTTTTTGTGACATTAGTCTCAGTGAAGAC
TATGAAAATGCTGGCTATAGATGTCTTTTCCATTTATCTAAATATGGACTGCTCAGGAAACGAGACTTTCCATT
ACAAGTATTTTTAATTAATTGGGCCAGCTTTTCAAACAAAGATGCCACATTCAAATAGGGTATATTTTCCTATA
TTACGGTTTGGCCCTTTATAAATCCAAGTAGATAGGAGGAAAGAAGACACTTAACTTTGCATCTCAGTATGAAT
TATTCAATTTATTTGAATGATTTTCTTTACAAAACAACTCATCATTAGTCATGTTTATCTGCTTAGCAGTTTA
GGGAACAATTTGGCAATTTTGTGGTTTTCGAGATTATCGTTTTCTTAAAGTGCCAGTATTTTAAATAGCGTTCT
TATAATTTTACACGCTTTTGTGATGGAGTGCTGTTTTGTTATATAATTTTGAAGTTGGATTCTTTCCATTTGCATT
TGTTTATGTAATTTCAGGAGGAATACTGAACATCTGAGTCCTGGATGATACTAATAAACTAATAATTGCAGAGGT
TT

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FIGURE 4237

TTACAGGAAAAAGGCTCTTGCTATGAAAGTTAATCCATAAAATTACAAAAATGACTGTTTTGGCAGTACATTGAG
CTCCACAGAGACAGCGCCAGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTCGCTGAGGAAAAAT
AACTAAACATGGGCAAAGGAGATCCTAAGAAGCTGAGAGGC AAAATGTCATCATATGCATTTTTTTGTGCAAACGT
CGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAAGAGTTTTCTAAGAAGTGCTCAGAGAG
GTGGAAGACCATTCTCTGCTAAAGACAAAGGAAAATTTCAAGATATGGCAAAGGTGGACAAGGCCCATTTATGAAAG
AGAAATGAAAACCTACATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGATCCCAATGCACCCAAGAGGCC
TCCTTCGGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGAACATCCTGGCCTGTCCATTGG
TGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGCCTTATGAAAAGAAGGC
TGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGCCTGATGCAGCAAAAAA
GGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAGATGAAGAGGATGAGGA
GGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGAAGATGATGATGAATAAGTTGGTTCTAGCGCAGTTTT
TTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACTCACTCCTTTTAAAGAAAAAACTGAAATGTAAG
GCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATGTGTCCTTAG
ATAGCCCTGTCCTGGTGGTATTTTCAATAGCCACTAACCTTGCTTGGTACAGTATGGGGGTTGTAAATTGGCATG
GAAATTTAAAGCAGGTTCTTGTGGTGCACAGCACAAATTAGTTATATATGGGGATGGTAGTTTTTTCATCTTCA
GTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTAACTGAATACCACTCTGTAATTGCAAAAAAA
AAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTTATTA

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FIGURE 4238

MLQSTSQEFSSKCSERWKTISAKDKGKFQDMAKVDAHYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFCS
EYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAACLKEKYEKDIAAYRAKGKPDAAKKGVVKAESK
KKKEEEEDEEDEEDESWF

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FIGURE 4239

AGGTAATCTGTGAAAATGGTTCGCTATTCACTTGACCCGGAGAACCCACGAAATCAGGCAAATCAAGAGGTTCC
AATCTTTCGTGTTCACTTTAAGAACACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACG
AAGTATCTGAAAGATGTCACTTTACAGAAACAGTGTGTACCATTCGACATTACAACGGTGGAGTTGGCAGGTGT
GCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCAAAAAGAGTGCTGAATTCTTGCTGCACATGCTT
AAAAACGCAGAGAGTAATGCTGAACTTAAGGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAAC
AAAGCACCTAAGATGCACCGCCGGACCTACAGAGCTCATGGTCGGATTAACCCATACATGAGCTCTCCCTGCCAC
ATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTCTAAACCAGAAGAGGAGGTTGCCCAGAAGAAAAAGATA
TCCCAGAAGAACTGAAGAAACAAAACTTATGGCACGGGAGTAAATTCAGCATTAAAATAAATGTAATTAAAAG
G

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FIGURE 4240

MVRYSLDPENPTKSGKSRGSNLRVHFKNTRETAQAIGMHIRKATKYLKDVTLQKQCVPPFRHYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLHMLKNAESNAELKGLDVDSLVIEHIQV NKAPKMHRRTYRAHGRINPYMSSPCHIEMIL
TEKEQIVPKPEEEVAQKKKISQKKLKKQKLMARE

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FIGURE 4241

GAATCAAAGTTCCTCTTGGGGAAATGGCAAGTCTTTAGGACAGGCGAGACCCTGTATGAATAGTACCAAAGCATT
ACTGCATGGTAGAGAACACACTCAATTAAAAATGTTAAGCTATCTGAAAAATAAAATGTGCAAGTCTTCAGGATG
GCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATATAATCGACTT
TTGTTTGTGTTACATGACTTCTGTGACTTCACTGAAAATCTGCACAATTCAGTTTCAGCTCTGGATTACTTCAGT
TGACCTTTGTGAAGGTTTTTATCTGTGTAGAATGGGTGTTTGAAGTTTGTGTTTACATTAAATGGTTTTGGATTGGCTT
TCACTCTGTATTAAAAGTAAACTTACTAAAAGAAAAGAGGTTTGTGTTTACATTAAATGGTTTTGGATTGGCTT
TTTTTAGTGAGGCTTCTGAACATTGAGATATCCTGAAGTTAGAGCTCTTCAATCCTAAGATTTTCATGAAAAGC
CTCTCACTTGAACCCAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTTCAGGAAAAGCATCGTCAGTTCAG
TCTTTTCAGAATGAGGGAGAAACATTTGCCTGCCTTGTAAATAACAAGACTCAGCGCTTATTTTTTTAACTGCAT
TTTAAAAATTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTCTT
AATCCAAACATTTTATATTTCTTCTTTTGGAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATACA
GTGAGTTGAGTTGCCTCTCCACAGTCTTTGAGGCGAATTACAAAAGTCCAGCCATTATCATCTTCCGTAGTTAT
TATTTTGAAATGATTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCT
ACTTCTGTATTTATTTATTTATTTACTAGACCTCAACCACAGTCTTCTTTTCCCCTTCCACTGCTTCTTTTCC
CCTTCCACCTCTCTTTGCCTGTAAAGATGTACTGTATGTAGTCATGCACCTTGTATTAATATATTAGAAATCTACA
GATCTGTTTTGTACTTTTTATACTGTTGGATACTTATAATCAAACTTTTACTAGGGTATTGAATAAATCTAGTC
TTATTAGAAAATAAAAAATAAAAAATAAAAAATAAAAAA

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FIGURE 4242

GGCTGAGGCAGTGGCTCCTTGACACAGCAGCTGCACGCGCCGTGGCTCCGGATCTTCTTCGTCTTTGCAGCGTAGC
CCGAGTCGGTCAGCGCCAGAGGACCTCAGCAGCCATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTCA
GACCCAGCAGCTGCACGCAGCCATGGCTGACACATTCCCTGGAGCACATGTGCCGCTGGACATTGATTACCCACC
CATCACAGCCCCGAACACTGGCATCATCTGTACCATTGGCCCAGCTTCCCGATCAGTGGAGACGTTGAAGGAGAT
GATTAAGTCTGGAATGAATGTGGCTCGTCTGAACCTCTCTCATGGAACATCATGAGTACCATGCGGAGACCATCAA
GAATGTGCGCACAGCCACGGAAAGCTTTGCTTCTGACCCCATCCTCTACCGCCCCGTTGCTGTGGCTCTAGACAC
TAAAGGACCTGAGATCCGAACCTGGGCTCATCAAGGGCAGCGGCACTGCAGAGGTGGAGCTGAAGAAGGGAGCCAC
TCTCAAAATCACGCTGGATAACGCCTACATGGAAAAGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACAT
CTGCAAGGTGGTGGAAAGTGGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCTCCAGGTGAAGCAGAAAGG
TGCCGACTTCCTGGTGACGGAGGTGGAAAATGGTGGCTCCTTGGGCAGCAAGAAGGGTGTGAACCTTCCTGGGGC
TGCTGTGGACTTGCTGTGTGTCGGAGAAGGACATCCAGGATCTGAAGTTTGGGGTCGAGCAGGATGTTGATAT
GGTGTTCGCTCATTCATCCGCAAGGCATCTGATGTCCATGAAGTTAGGAAGGTCTGGGAGAGAAGGGAAAGAA
CATCAAGATTATCAGCAAAATCGAGAATCATGAGGGGGTTCCGAGGTTTGATGAAATCCTGGAGGCCAGTGATGG
GATCATGGTGGCTCGTGGTGATCTAGGCATTGAGATTCTGCAGAGAAGGTCTTCCTTGCTCAGAAGATGATGAT
TGGACGGTGCAACCGAGCTGGGAAGCCTGTCACTGTGCTACTCAGATGCTGGAGAGCATGATCAAGAAGCCCCG
CCCCACTCGGGCTGAAGGCAGTGATGTGGCCAATGCAGTCCTGGATGGAGCCGACTGCATCATGCTGTCTGGAGA
AACAGCCAAAGGGGACTATCCTCTGGAGGCTGTGCGCATGCAGAACCTGATTGCCCGTGAGGCAGAGGCTGCCAT
CTACCACTTGCAATTATTTGAGGAACCTCCGCCGCTGGCGCCCATTACCAGCGACCCACAGAAGCCACCGCCGT
GGGTGCCGTGGAGGCCTCCTTCAAGTGCTGCAGTGGGGCCATAATCGTCCTCACCAAGTCTGGCAGGTCTGCTCA
CCAGGTGGCCAGATACCGCCACGTGCCCCCATCATTGCTGTGACCCGGAATCCCCAGACAGCTCGTCAGGCCCA
CCTGTACCCTGGCATCTTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAGGCCTGGGCTGAGGACGTGGACCTCCG
GGTGAACCTTTGCCATGAATGTTGGCAAGGCCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACCGG
ATGGCGCCCTGGCTCCGGCTTACCAACACCATGCGTGTTGTTTCTGTGCCGTGATTGGACCCCAGAGCCCCCTCCT
CCAGCCCCGTGCCACCCCCCTTCCCCCAGCCCATCCATTAGGCCAGCAACGCTTGTAAGAACTCACTCTGGGCTGT
AACGTGGCACTGGTAGGTTGGGACACCAGGGAAGAAGATCAACGCCTCACTGAAACATGGCTGTGTTTGCAGCCT
GCTCTAGTGGGACAGCCCAGAGCCTGGCTGCCCCATCATGTGGCCCCACCCAATCAAGGGAAGAAGGAGGAATGC
TGGACTGGAGGCCCTGGAGCCAGATGGCAAGAGGGTGACAGCTTCCTTTCTGTGTGTACTCTGTCCAGTTCTT
TTAGAAAAAATGGATGCCCAGAGGACTCCCAACCCTGGCTTGGGGTCAAGAAACAGCCAGCAAGAGTTAGGGGCC
TTAGGGCACTGGGCTGTTGTTCCATTGAAGCCGACTCTGGCCCTGGCCCTTACTTGCTTCTCTAGCTCTCTAGGC
CTCTCCAGTTTGACCTGTCCCCACCCTCCACTCAGCTGTCTGCAGCAAACACTCCACCCTCCACCTTCCATTT
TCCCCACTACTGCAGCACCTCCAGGCCTGTTGCCGC

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FIGURE 4243

MSKPHSEAGTAFIQTTQQLHAAMADTFLEHMCRLDIDSPPI TARNTGI ICTIGPASRSVETLKEMIKSGMNVARLN
FSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKSGTAEVELKKGATLKITLDNAYME
KCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVNLPGAAVDLPAVSEKD
IQDLKFGVEQDVDMVFASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRFDEILEASDGIMVARGDLGIE
IPAEEKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAE GSDVANAVLDGADCIMLSGETAKGDYPLEAV
RMQNLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEASFKCCSGAIIVLTKSGRSAHQVARYRPRAPI
IAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTM
RVVPVP

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FIGURE 4244

CCTCCGAGAGGGGAGACCAGCGGGCCATGACAAGCTCCAGGCTTTGGTTTTCGCTGCTGCTGGCGGCAGCGTTTCG
CAGGACGGGCGACGGCCCTCTGGCCCTGGCCTCAGAACTTCCAAACCTCCGACCAGCGCTACGTCTTTTACCCGA
ACAACTTTCAATTCCAGTACGATGTCAGCTCGGCCGCGCAGCCCGGCTGCTCAGTCCTCGACGAGGCCTTCCAGC
GCTATCGTGACCTGCTTTTTCGGTTCCGGGTCTTGGCCCCGTCTTACCTCACAGGGAAACGGCATACTACTGGAGA
AGAATGTGTTGGTTGTCTCTGTAGTCACACCTGGATGTAACCAGCTTCCTACTTTGGAGTCAGTGGAGAATTATA
CCCTGACCATAAATGATGACCAGTGTCTTACTCCTCTCTGAGACTGTCTGGGGAGCTCTCCGAGGTCTGGAGACTT
TTAGCCAGCTTGTTTGGAAATCTGCTGAGGGCACATTCTTTATCAACAAGACTGAGATTGAGGACTTTCCCCGCT
TTCCTCACCGGGGCTTGCTGTTGGATACATCTCGCCATTACCTGCCACTCTCTAGCATCCTGGACACTCTGGATG
TCATGGCGTACAATAAATTGAACGTGTTCCACTGGCATCTGGTAGATGATCCTTCCCTCCCATATGAGAGCTTCA
CTTTTCCAGAGCTCATGAGAAAGGGGTCTACAACCTGTCAACCCACATCTACACAGCACAGGATGTGAAGGAGG
TCATTGAATACGCACGGCTCCGGGGTATCCGTGTGCTTGCAGAGTTTGACACTCCTGGCCACACTTTGTCTGGG
GACCAGGTATCCCTGGATTACTGACTCCTTGCTACTCTGGGTCTGAGCCCTCTGGCACCTTTGGACCAGTGAATC
CCAGTCTCAATAATACCTATGAGTTTATGAGCACATTCTTCTTAGAAGTCAGCTCTGTCTTCCAGATTTTTATC
TTCATCTTGGAGGAGATGAGGTTGATTTACCTGCTGGAAGTCCAACCCAGAGATCCAGGACTTTATGAGGAAGA
AAGGCTTCGGTGAGGACTTCAAGCAGCTGGAGTCCTTCTACATCCAGACGCTGCTGGACATCGTCTCTTCTTATG
GCAAGGGCTATGTGGTGTGGCAGGAGGTGTTTGATAATAAAGTAAAGATTTCAGCCAGACACAATCATAACAGGTGT
GGCGAGAGGATATTCCAGTGAACATATGAAGGAGCTGGAAGTGGTCACCAAGGCCGGCTTCCGGGGCCCTTCTCT
CTGCCCCCTGGTACCTGAACCGTATATCCTATGGCCCTGACTGGAAGGATTTCTACATAGTGGAACCCCTGGCAT
TTGAAGGTACCCCTGAGCAGAAGGCTCTGGTGATTGGTGGAGAGGCTTGTATGTGGGGAGAATATGTGGACAACA
CAAACCTGGTCCCCAGGCTCTGGCCCAGAGCAGGGGCTGTTGCCGAAAGGCTGTGGAGCAACAAGTTGACATCTG
ACCTGACATTTGCCTATGAACGTTTGTCACTTCCGCTGTGAATTGCTGAGGCGAGGTGTCCAGGCCCAACCC
TCAATGTAGGCTTCTGTGAGCAGGAGTTTGAACAGACCTGAGCCCCAGGCACCGAGGAGGGTGTGGCTGTAGGT
GAATGGTAGTGGAGCCAGGCTTCCACTGCATCCTGGCCAGGGGACGGAGCCCCCTTGCCCTTCGTGCCCCCTTGCCCTG
CGTGCCCCCTGTGCTTGGAGAGAAAGGGGCCGGTGTGGCGCTCGCATTCAATAAAGAGTAATGTGGCATTITTTCT
ATAATAAACATGGATTACCTGTGTTTAAAAAAAAAAGTGTGAATGGCGTTAGGGTAAGGGCACAGCCAGGCTGGA
GTCAGTGTCTGCCCCCTGAGGTCTTTTAAGTTGAGGGCTGGGAATGAAACCTATAGCCTTTGTGCTGTTCTGCCTT
GCCTGTGAGCTATGTCACTCCCCTCCCACTCCTGACCATATTCCAGACACCTGCCCTAATCCTCAGCCTGCTCAC
TTCATTCTGCATTATATCTCCAAGGCGTTGGTATATGGAAAAAGATGTAGGGGCTTGGAGGTGTTCTGGACAGT
GGGGAGGGCTCCAGACCCAACCTGGTCACAGAAGAGCCTCTCCCCATGCATACTCATCCACCTCCCTCCCCTAG
AGCTATTCTCCTTTGGGTTTCTTGCTGCTTCAATTTTATACAACCATTATTTAAATATTATTAAACACATATTGT
TCTCT

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FIGURE 4245

CCCTGAGCAGAAGGCTCTGGTGATTGGTGGAGAGGCTTGTATGTGGGGAGAATATGTGGACAACACAAACCTGGT
CCCCAGGCTCTGGTAAGGGTTTTTCGGGGGGGAGGTGGAGGGTTGGGCCTGAGAGCAGGAGTTCTCCCTTAGAGAC
CCAATCCCATCTAGCCACCTCTGGACTAGTACCCTTCTTTCAGGCCTGAGAGAGAGCAGGCCGTGCAACGAGCCT
TCTGAAGATTTGTGTGCAATATTTCACTCTCCACATGACTTCCGTCTATATCCCTCCAGCTGCCCTTTGGTATGTG
GGATAGGGATTGTTAACCTTACTTCCCAGAGAGATAATGAGGCCTGGAGAACATAGGTGAGTTGCTCAAGACCCA
GCACAAGCATCCATGATTCTGTAAATAAGGCTTCCCTCTGCTGTTTTCACTGCAGCCTTACCAAGTATGGTTGGG
TGTGCAAAGTTTACATTTTAAGGACCTCTGCTGCTGCCACTGTCATTGTGGTTAATGATGGCTTTAAGGTTTATT
CTTATTCCCATATCTTTGAGAGAGGAAGAGAGTGGGATTGCTACCCACATTTTAATGAAGGTGGAGCTGAGCCGT
AGAACTCTCTGGGAGCCATCCAACCTGGCTGTGGCTCATAACAAGGTATTGATCACTTCCTTTGGCCTGAGTGAG
TCCAGGGTGCCTAGACAAGAGGTAGCAGCCTGTGGATGTCCAGCACCTTTGCAGGGAATACAGGGCCCAATCTGG
CACATGCCCCTTTTCTCCAGGCCCCAGAGCAGGGGCTGTTGCCGAAAGGCTGTGGAGCAACAAGTTGACATCTGA
CCTGACATTTGCCTATGAACGTTTGTACACTTCCGCTGTGAATTGCTGAGGTAAGCAAGCTGTGGGGCCTTCGC
AAGGCGGAGCAGGCCAGATCCAGGGCTGGGGAACCCCTTAGAGAGAGGAAGACAATAATTAACAATAGCTAACAC
TTACAGAGGCTTATAGTCAGCCCTCATCCACGGATTCAACCAACTGCGATAAAAAAGTATTCAGGAAAAAAAAAAT
ACAACAAAAAATGGTACAAATAAAAAATACTGTATAACAACCT

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FIGURE 4246

CCAGAAAGGGGCAGGCTGAGGCTGGGGGAGGGGCTCAAGGGAGCCCAGCTGGGAGGGGCCAGGCAGGCAGTGCGG
AGCTGGCCGTGGGCTGCCCTACCCCTTTCATCTCTGCAACTCCTTCCTCCCTGGGCCTCCCTTCTGGAGAAGGGCCA
GAGA**ATG**TCGTCCCAGCCAGCAGGGAACCAGACCTCCCCCGGGGCCACAGAGGACTACTCCTATGGCAGCTGGTA
CATCGATGAGCCCCAGGGGGGCGAGGAGCTCCAGCCAGAGGGGGAAGTGCCCTCCTGCCACACCAGCATAACCACC
CGGCCTGTACCACGCCTGCCTGGCCTCGCTGTCAATCCTTGTGCTGCTGCTCCTGGCCATGCTGGTGAGGCGCCG
CCAGCTCTGGCCTGACTGTGTGCGTGGCAGGCCCCGGCCTGCCAGCCCTGTGGATTTCTTGGCTGGGGACAGGCC
CCGGGCAGTGCCCTGCTGCTGTTTTCATGGTCCCTCCTGAGCTCCCTGTGTTTGTGCTCCTCCCGACGAGGACGCATT
GCCCTTCCTGACTCTCGCCTCAGCACCCAGCCAAGATGGGAAAAGTGAAGCTCCAAGAGGGGCTGGAAGATACT
GGGACTGTTCTATTATGTGCCCCCTACTACCCTCTGGCTGCCTGTGCCACGGCTGGCCACACAGCTGCACACCT
GCTCGGCAGCAGCTGTCTTGGGCCACCTTGGGGTCCAGGTCTGGCAGAGGGCAGAGTGTCCTCCAGGTGCCCAA
GATCTACAAGTACTACTCCCTGCTGGCCTCCCTGCCTCTCCTGCTGGGCCTCGGATTCTGAGCCTTTGGTACCC
TGTGACAGCTGGTGAGAAGCTTCAGCCGTAGGACAGGAGCAGGCTCCAAGGGGCTGCAGAGCAGCTACTCTGAGGA
ATATCTGAGGAACCTCCTTTGACAGGAAGAAGCTGGGAAGCAGCTACACACCTCCAAGCATGGCTTCCTGTCTCTG
GGCCCGCTCTGCTTGAGACACTGCATCTACACTCCACAGCCAGGATTCCATCTCCCGCTGAAGCTGGTGCTTTT
AGCTACACTGACAGGGACGGCCATTTACCAGGTGGCCCTGCTGCTGCTGGTGCGTGCTTACCCACTATCCAGAA
GGTGAGGGCAGGGGTACCCACGGATGTCTCTACCTGCTGGCCAGCTTTGGAATCGTGCTCTCCGAGGACAAGCA
GGAGGTGGTGAGCTGGTGAAGCACCATCTGTGGGCTCTGGAAGTGTGCTACATCTCAGCCTTGGTCTTGTCTCTG
CTTACTACCTTCCTGGTCTCTGATGCGCTCACTGGTGACACACAGGACCAACCTTCGAGCTCTGCACCGAGGAGC
TGCCCTGGACTTGAGTCCCTTGCACTCGGAGTCCCCATCCCTCCCGCCAAGCCATATTCTGTTGGATGAGCTTCAG
TGCCTACCAGACAGCCTTTATCTGCCTTGGGCTCCTGGTGCAGCAGATCATCTCTCTTCCCTGGGAACCACGGCCCT
GGCCTTCCTGGTGTCTATGCCTGTGCTCCATGGCAGGAACCTCCTGCTCTTCCGTTCCCTGGAGTCTCTGTGGCC
CTTCTGGCTGACTTTGGCCCTGGCTGTGATCCTGCAGAACATGGCAGCCCATTTGGGTCTTCCCTGGAGACTCATGA
TGGACACCCACAGCTGACCAACCGGCGAGTGCTCTATGCAGCCACCTTTCTTCTTCCCCCTCAATGTGCTGGT
GGGTGCCATGGTGGCCACCTGGCGAGTGCTCCTCTCTGCCCTCTACAACGCCATCCACCTTGGCCAGATGGACCT
CAGCCTGCTGCCACCGAGAGCCGCCACTCTCGACCCCGGCTACTACACGTACCGAAAATTCTTGAAGATTGAAGT
CAGCCAGTCGCATCCAGCCATGACAGCCTTCTGCTCCCTGCTCCTGCAAGCGCAGAGCCTCCTACCCAGGACCAT
GGCAGCCCCCAGGACAGCCTCAGACCAGGGGAGGAAGACGAAGGGATGCAGCTGCTACAGACAAAGGACTCCAT
GGCCAAGGGAGCTAGGCCCCGGGGCCAGCCGCGGCAGGGCTCGCTGGGGTCTGGCCTACACGCTGCTGCACAACCC
AACCTTGCAGGTCTTCCGCAAGACGGCCCTGTTGGGTGCCAATGGTGCCAGCCCC**TGAG**GGGCAGGGAAGGTCAAC
CCACCTGCCCATCTGTGCTGAGGCATGTTCTGCTACCATCCTCCTCCCTCCCCGGCTCTCCTCCCAGCATCAC
ACCAGCCATGCAGCCAGCAGGTCTCCGGATCACTGTGGTTGGGTGGAGGTCTGTCTGCACTGGGAGCCTCAGGA
GGGCTCTGCTCCACCCACTTGGCTATGGGAGAGCCAGCAGGGGTTCTGGAGAAAAAACTGGTGGGTAGGGCCT
TGGTCCAGGAGCCAGTTGAGCCAGGGCAGCCACATCCAGGCGTCTCCCTACCCTGGCTCTGCCATCAGCCTTGAA
GGGCTCGATGAAGCCTTCTCTGGAACCACTCCAGCCAGCTCCACCTCAGCCTTGGCCTTCACGCTGTGGAAGC
AGCCAAGGCATTCTCACCCTCAGCGCCACGGACCTCTCTGGGGAGTGGCCGGAAAAGTCCCGGGCCTCTGG
CCTGCAGGGCAGCCCAAGTCATGACTCAGACCAGGTCCCACACTGAGCTGCCACACTCGAGAGCCAGATATTTT
TGTAAGTTTTTATGCCTTTGGCTATTATGAAAGAGGTTAGTGTGTTCCCTGCAATAAACTTGTCTGAGAAAAA
AAA

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FIGURE 4247

MSSQPAGNQTSFGATEDYSYGSWYIDEPQGGEELQPEGEVPSCHTSIPPGLYHACLASLSILVLLLLAMLVRRRQ
LWPD CVRGRPGLPSPVDFLAGDRPRAPPAVFMVLLSSLCLLLPDEDALPFLTLASAPSQDGKTEAPRGAWKILG
LFYYAALYYPLAACATAGHTAAHLLGSTLSWAHLGVQVWQRAECPQVPKIYKYSSLLASPLLLGLGFLSLWYPV
QLVRSFSRRTGAGSKGLQSSYSEEYLRNLLCRKKLGSSYHTSKHGFLSWARVCLRHCIYTPQPGFHLPLKLVLSA
TLTGTAIYQVALLLLVGVVPTIQKVRAGVTTDVSYLLASFGIVLSEDKQEVVELVKHHLWALEVCYISALVLSCL
LTFLVLMRSLVTHRTNLRALHRGAALDLSPLHRSPHPSRQAIFCWMSFSAYQTAFICLGLLVQQIIFFLGTTALA
FLVLMPLVHGRNLLLFRSLESSWPFWLTALAVILQNMAAHWVFLETHDGHPQLTNRRVLYAATFLFPLNVLVG
AMVATWRVLLSALYNAIHLGQMDLSLLPPRAATLDPGYYTYRNFLKIEVSQSHPAMTAFCSLLLQAQSLLPRTMA
APQDSL RPGEDEGMQLLQTKDSMAKGARPGASRGARWGLAYTLLHNPTLQVFRKTALLGANGAQP

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FIGURE 4248

GGCACGAGGGGCGCTGGGGCCCTGGGCAGCGGGGCTCGATGTGTGTCAGCCAAGTAGCTGGTCCCACTGGAGCG
GTGAGGTGCGCCACCGGATAGTGTTCCCTGCCCCATTACTAGCGATCTGTGACCTTGGGCCAGTGATTTTACTGAGT
CTTGCTTCCCTCATCTTTAAATGTGGCTAATGCCTGCCTTAGGGAACCGTTGTGAGGATTAAGTGAGACATGGT
ATATAAAACGACCTCCTTCTGGCATAAACTTGAGGTGGAAGATACCTTGAGGATGCTTGAAGGTCTGCTAGGCAG
CTTCACAGCCTTTTCTTCCCTCTTCTCTATCAGAGGTCTCTTTGGAAGCAATAATGATGACTATAACAAGAACTT
ATCTTGCTTTGCAAGATTCTTCCGCCGTCAGAGTTTCTGATTTATTTCTGGGGTTCCATGTATGCCAGGGAGAA
AGAGAGAGCGCGAAAGAGAGAGGATGTCTCTCTCAGACTGGCACCTGGCGGTGAAGCTGGCTGACCAGCCACTTA
CTCCAAAGTCTATTCTTCCGTTGCCAGAGACAGAACTGGGAGAATACTCGCTAGGGGGCTATAGTATTTTCAATTC
TGAAGCAGCTTATTGCTGGCAAACCTCCAGGAGTCTGTTCCAGACCCTGAGCTGATTGATCTGATCTACTGTGGTC
GGAAGCTAAAAGATGACCAGACACTTGACTTCTATGGCATTCAACCTGGGTCCACTGTCCATGTTCTGCGAAAAGT
CCTGGCCTGAACCTGATCAGAAACCGGAACCTGTGGACAAAGTGGCTGCCATGAGAGAGTTCCGGGTGTTGCACA
CTGCCCTGCACAGCAGCTCCTCTTACAGGGAGGCGGTCTTTAAGATGCTCAGCAATAAGGAGTCTCTGGATCAGA
TCATTGTGGCCACCCCAGGCCTCAGCAGTGACCCTATTGCTCTTGGGGTTCTCCAGGACAAGGACCTCTTCTCTG
TCTTCGCTGATCCCAATATGCTTGATACGTTGGTGCCTGCTCACCCAGCCCTCGTCAATGCCATTGTCTCTGGTTC
TGCACTCCGTAGCAGGCAGTGCCCCAATGCCTGGGACTGACTCCTCTTCCCGGAGCATGCCCTCCAGCTCATACC
GGGATATGCCAGGTGGCTTCCCTGTTTGAAGGGCTCTCAGATGATGAGGATGACTTTCACCCAAACACCAGGTCCA
CACCTCTAGCAGTACTCCCAGCTCCCGCCCAGCCTCCCTGGGGTACAGTGAGCTGCTGGGGCCCCGGCCCATCA
CCCAGAGTGAGCTGGCCACCGCCTTGGCCCTGGCCAGCACTCCGGAGAGCAGCTCTCACACACCGACTCCTGGCA
CCCAGGGTCATTCTCAGGGACCTCACCAATGTCTCTGGTGTCCAGTCAGGGACGCCCATCACCAATGATCTCT
TCAGCCAAGCCCTACAGCATGCCCTTCAGGCCTCTGGGCAGCCCAGCCTTCAGAGCCAGTGGCAGCCCCAGCTGC
AGCAGCTACGTGACATGGGCATCCAGGACGATGAGCTGAGCCTGCGGGCCCTGCAGGCCACCGGTGGGGACATCC
AAGCAGCCCTGGAGCTCATCTTTGCTGGAGGAGCCCCATGAACTCCCTGCTTCCCCTGAACCCCCAGCAAGTTGC
AGAGGCTACTGCCCTTGGGAGGCACTCATGAAGGTGCCTCCATCTCTCCCTTCCCAATATACCTGATGGTCAAC
TCTCAA

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FIGURE 4249

MSLSDWHLAVKLADQPLTPKSILRLPETELGEYSLGGYSISFLKQLIAGKLQESVPDPELIDLIYCGRKLKDDQT
LDFYGIQPGSTVHVLKSWPEPDQKPEPVDKVAAMREFRVLHTALHSSSSYREAVFKMLSNKESLDQIIVATPGL
SSDPIALGVLQDKDLFSVFADPNMLDTLVPFAHPALVNAIVLVLSVAGSAPMPGTDSSSRSMPSSTYRDMPPGGFL
FEGLSDDDDFHPNTRSTPSSSTPSSRPASLGYSGAAGPRPITQSELATALALASTPSSSHTPTPGTQGHSSGT
SPMSSGVQSGTPITNDLFSQALQHALQASGQPSLQSQWQPQLQQLRDMGIQDDELSLRALQATGGDIQAALELIF
AGGAP

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FIGURE 4250

GGCGGGACGCGCACGCTCACAGTGAGGTCTCAAAAGATCCCCACCTCAGTTTTCTCATCTGGAAAGTGGGGCCTC
GTAATCCTGTCCGACCCGGCGCGGGACAGTAGGTGTCAGGGATTTTGGTGACCCACGCTCGAGGCCTCTGCAAA
AGGGGGCTGTCCAGTGGCCCAGAGACGCAGCCGGCGGGGCTTTTGTCTAGCGGGGGAGTCTTAACTGAGAGGCCA
CGCAGGCCGGCAGGAAGCCGCTCCACAGGAGGGGGCTCAAGGAGAGGGGATCTCCTCCCTCCAGACTCCGGCCCC
GCCAGAGTAGCTCTAGGGTATCTTCCCAGAACTGCCCCGCACGCACTGGCGAGCTGGGAGCGCCACCACGGCTT
TCAAAAAACCCGCACACACCAAGATAATAATGTGTCTGTTTCGCTCGTTTCGCGCAAGCGGAGTCGCGTCCGCCTTC
CCGAGCTCCGGCACACAGACCTCAGGCCGCTCTCGCGCTCTCCGGGGCCCCGAGAACAATGCCCGTCTCTCCGC
GCGCAGGAGGGAGTTGGCGGACCACGCGGGGTGCGGGCGACGGAGCGGGCCCAGCCCCACGGCCAGGTGCGGGGCC
CCACCTCTCGGCTCTGAGAGCCCAGCCGGCCCCGGGCCGCGCACCTGTCAGGTCGGGGGACCTACGTGCGCCGCGA
CACGGCGGGAGGCGGGCCGGGCCAGGCTCGTCCCCTCGGCCCTCCCGGAAC TAGTCTCCTAGGCCGCGGGCCCCG
CCGGAGCGGAGAGGGCTGGTGCCCCGGAGCCTTCGAGTCGGGGGCTAGAGCGGCCAGGCCTCCGAGCCGGGTCTGA
GCCGAGGCTGGCGACGGCTGCGTCACGCGAGGGGGCGGGGCTGCCACGGGCGGAGGTTCGACCCGGAAGCGGAAG
AGGCGCTCGGAGCGGGGAGTGGGGCCTAGCTGCAGCCGGAGCCTGGGAGACGCCATGACCGCCTGCCCTACCAGA
GGAGGTACCGGGAGCGCCGTGACAGCGATACATACCGGTGTGAAGAGCGGAGCCCATCCTTTGGAGAGGACTACT
ATGGACCTTCACGTTCTCGTCATCGTCGGCGATCGCGGGAGAGGGGGCCATACCGGACCCGCAAGCATGCCCACC
ACTGCCACAAACGCCGCACCAGGTCTTGTAGCAGCGCCTCCTCGAGAAGCCAACAGAGCAGTAAGCGCAGCAGCC
GGAGTGTGGAAGATGACAAGGAGGGTCACCTGGTGTGCCGATCGGCGATTGGCTCCAAGAGCGATATGAGATTG
TGGGGAACCTGGGTGAAGGCACCTTTGGCAAGGTGGTGGAGTGCTTGGACCATGCCAG

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FIGURE 4251

ATGTATAATATATCTAACTGTGGGTCACAGCCCCCTCCCACGACCGTCCACAAACCAGTAGCCTCCCTTCGCTCC
CACCTCCGCGCCGACGGGCCTGGAGCTCCTCCGCACACCACACCAAGCCGACCACTCAACACCAGAGGACCCACA
GAAGAATTCTCTCCACGCCCACCCCCACAGCATCGGCCTTCACCACCGCCGCGCTGCCGGAAGCGCCCCACGT
CTCCACGCCACCACCGTGAGTGCTCAGTGTGGGCCCCCTTCCTGTTATTGTGAACTGTTAGCCAAGATACGGCTT
GGTGATGAGAAGTGCAACATCTCTTGTAACCCCAGTGCACCAGTCCAGGGGTGTGGAGAG

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FIGURE 4252

ATGGCGGCTGCGCCGGCCTTGAAGCACTGGCGCACACGCTGGAGCGGGTGGAGAAGTTCTGTGCGCCGCTCTAC
TTTACCGACTGTAACTCCGCGGCAGGCTTTTTGGGGCCAGCTGCCCTGTGGCTGTGCTCTCCAGCTTCCTGACG
CCGGAGAGACTTCCCTACCAGGAGGCAGTCCAGCGGGACTTCCGCCCCGCGCAGGTCGGCGACAGCTTCGGACCC
ACATGGTGGACCTGCTGGTTCCGGGTGGAGCTGACCATCCCAGAGGCATGGGTGGGCCAGGAAGTTACCTTTGC
TGGGAAAGTGATGGAGAAGGTCTGGTGTGGCGTGATGGAGAACCTGTCCAGGGTTTAACCAAAGAGGGTGAGAAG
ACCAGCTATGTCCTGACTGACAGGCTGGGGGAAAGAGACCCCCGAAGCCTCACTCTCTATGTGGAAGTAGCCTGC
AATGGGCTCCTGGGGGCGGGGAAGGGAAGCATGATTGCAGCCCCCTGACCCTGAGAAGATGTTCCAGCTGAGCCGG
GCTGAGCTAGCTGTGTTCCACCGGATGTCCACATGCTCCTGGTGGATCTGGAGCTGCTGCTGGGCATAGCCAAG
GGCCTCGGGAAGGACAACCAGCGCAGCTTCCAGGCCCTGTACACAGCCAATCAGATGGTGAACGTGTGTGACCCCT
GCCCAGCCCGAGACCTTCCCAGTGGCCCAGGCCCTGGCCTCCAGGTTCTTTGGCCAACATGGGGGTGAAAGCCAA
CACACCATTTCATGCCACAGGGCACTGCCACATTGATACAGCCTGGCTTTGGCCCTTCAAAGAGACTGTGAGGAAA
TGTGCCCCGAGCTGGGTGACCGCCCTGCAGCTCATGGAGCGGAACCTGAGTTCATCTTTGCCTGCTCCCAGGCG
CAGCAGCTGGAATGGGTGAAGAGCCGCTACCCTGGCCTGTACTCCCGCATCCAGGAGTTTGCCTGCCGTGGGCG
TTTGTGCTGTGGGGGGCACCTGGGTGGAGATGGATGGGAACCTGCCAGTGGAGAGGCCATGGTGAGGCAGTTT
TTGCAGGGCCAGAACTTCTTTCTGCAGGAGTTTGGGAAGATGTGCTCTGAGTTCTGGCTGCCGGACACCTTTGGC
TACTCAGCACAGCTCCCCCAGATCATGCACGGCTGTGGCATCAGGCGCTTCTCACCCAGAAATTGAGCTGGAAT
TTGGTGAACCTCCTTCCCACACCATACAATTTTTCTGGGAGGGCCTGGATGGCTCCCGTGTACTGGTCCACTTCCCA
CCTGGCGACTCCTATGGGATGCAGGGCAGCGTGGAGGAGGTGCTGAAGACCGTGGCCAACAACCGGGACAAGGGG
CGGGCCAACCACAGTGCCCTTCTCTTTGGCTTTGGGGATGGGGGTGGTGGCCCCACCCAGACCATGCTGGACCGC
CTGAAGCGCCTGAGCAATACGGATGGGCTGCCAGGGTGCAGCTATCTTCTCCAAGACAGCTCTTCTCAGCACTG
GAGAGTGACTCAGAGCAGCTGTGCACGTGGGTGGGGAGCTCTTCTTGAGCTGCACAATGGCACATACACCACC
CATGCCCAGATCAAGAAGGGGAACCGGGAATGTGAGCGGATCCTGCACGACGTGGAGCTGCTCAGTAGCCTGGCC
CTGGCCCGCAGTGCCAGTTCTATACCCAGCAGCCAGCTGCAGCACCTCTGGAGGCTCCTTCTTCTGAACCAG
TTCCATGATGTGGTGAAGCTGCATCCAGATGGTGGCAGAGGAAGCCATGTGCCATTATGAAGACATCCGT
TCCCATGGCAATACACTGCTCAGCGCTGCAGCCGACGCCCTGTGTGCTGGGGAGCCAGGTCCTGAGGGCCTCCTC
ATCGTCAACACACTGCCCTGGAAGCGGATCGAAGTGATGGCCCTGCCCAAACCGGGCGGGGCCACAGCCTAGCC
CTGGTGACAGTGCCAGCATGGGCTATGCTCCTGTTCTCCCCCACCTCACTGCAGCCCCCTGCTGCCCCAGCAG
CCTGTGTTCTGTAGTGCAAGAGACTGATGGCTCCGTGACTCTGGACAATGGCATCATCCGAGTGAAGCTGGACCCA
ACTGGTCGCCTGACGTCTTGGTCTTGGTGGCCTCTGGCAGGGAGGCCATTGCTGAGGGCGCCGTGGGGAACCAG
TTTGTGCTATTTGATGATGTCCCCCTGTACTGGGATGCATGGGACGTGATGGACTACCACCTGGAGACACGGAAG
CCTGTGCTGGGCCAGGCAGGGACCTGGCAGTGGGCACCGAGGGCGGCCTGCGGGGCAGCGCCTGGTTCTTGCTA
CAGATCAGCCCCAACAGTCGGCTTAGCCAGGAGGTTGTGCTGGATGTTGGCTGCCCTATGTCCGCTTCCACACC
GAGGTACACTGGCATGAGGCCACAAAGTTCTGAAGGTGGAGTTCCCTGCTCGCGTGGGAGTTCCAGGCCACC
TATGAGATCCAGTTTGGGCACCTGCAGCGACCTACCCACTACAATACCTCTTGGGACTGGGCTCGATTTGAGGTG
TGGGCCCATCGCTGGATGGATCTGTGAGAACACGGCTTTGGGCTGGCCCTGCTCAACGACTGCAAGTATGGCGCG
TCAGTGCAGGAGCAGCATCCTCAGCCTCTCGCTCTTGGGGCGCCTAAAGCCCCGGACGCTACTGCTGACACGGGG
CGCCACGAGTTCACCTATGCACTGATGCCGCACAAGGGCTCTTTCCAGGATGCTGGCGTTATCCAAGCTGCCTAC
AGCCTAAACTTCCCCCTGTTGGCTCTGCCAGCCCCAGCCCAGCGCCGCCACCTCCTGGAGTGCCTTTTCCGTG
TCTTACCCGCGGTGCTATTGGAGACCGTCAAGCAGGCGGAGAGCAGCCCCAGCGCCGCTCGCTGGTCTGAGG
CTGTATGAGGGCCACGGCAGCCACGTGGACTGCTGGCTGCACTTGTGCTGCCGGTTCAGGAGGCCATCCTCTGC
GATCTCTTGGAGCGACCAGACCCTGCTGGCCACTTGACCCTTCGGGACAACCGCCTGAAGCTCACCTTTTCTCCC
TTCCAAGTGCTGTCCCTGTTGCTCGTTCAGCCTCCGCCACACTGAGTCCCTGGGGCTGGGGTTTTGTTTGTA
GAAGGCTCTGGGGACTCCTAATTTCTGCTTCCCCAGCCTAAAGCAGGGATCAGTCTTTTCTGTGGAATAAATCC
TTGGATCGGG

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FIGURE 4253

MGVVAPPRPMLDRLKRLSNTDGLPRVQLSSPRQLFSALES DSEQLCTWVGELFLELHNGTYTTHAQIKKGNRECE
RILHDVELLSSLALARSAQFLYPAAQLQHLWRLLLLNQFHDVVTGSCIQMVAEEAMCHYEDIRSHGNTLLSAAAA
ALCAGEPGPEGLLIVNTLPWKRIEVMALPKPGGAHSLALVTVPSMGYAPVPPPTSLQPLLQQPVFVVQETDGSV
TLDNGIIRVKLDPTGRLTSLVLVASGREAI AEGAVGNQFVLFDDVPLYWDAWDVMDYHLETRKPVLGQAGTLAVG
TEGGLRGS AWFL LQISPNSRLSQEVVLDVGCPYVRFHTEVHWHEAHKFLKVEFPARVRSSQATYEIQFGHLQRPT
HYNTSWDWARFEVWAHRWMDLSEHGFG LALLNDCKYGASVRGSILSLSLLRAPKAPDATADTGRHEFTYALMPHK
GSFQDAGV IQAAYSLNFP LLALPAPSPAPATSWSAFSVSSPAVVLETVKQAESSPQRRSLVLRLYEAHGSHVDCW
LHLSLPVQEAILCDLLERPDPAGHLTLRDNRLKLTFS PFQVLSLLLVLQPPPH

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FIGURE 4254

GTAACCTTGGCTCCGGGGGCTCCGCTCGCCTGCCCCACGCCGCCGCCACCCAGGACCGCGCCGCCGGCCTCTGC
CGCGAACAAACCCTTCTGACGGCCCTCGCTGTGCAGGCCAGGATGCCTCTCCCCATCCGCCCCGCTGCGGAAA
GTTAAGTTTGAAGAGGGGGGAAGAGGGGAACATGGACATGAAGAGGAGGATCCACCTGGAGCTGAGGAACTGGAC
CCCGTCAGCTGTTTCGAGAACTTGTCTTGGACAATTGCAAATCAAATGATGGAAAAATTGAGGGCTTAACAGCTGA
ATTTGTGAACCTTAGAGTTCCTTAGTTTAATAAATGTAGGCTTGATCTCAGTTTCAAATCTTCCCAAGCTGCCTAA
ATTGAAAAAGCTTGAACCTCAGTGAAAAATAGAATCTTTGGAGGTCTGGACATGTTAGCTGAAAAGCTTCCAAATCT
CACACGTCTAACTTAAGTGGAATAAACTGAAAGATATCAGCACCTTGGAACCTTTGAAAAAGTTAGAATGTCT
GAAAAGCCTGGACCTCTTTAACTGTGAGGTTACTAACATGAATGACTACTTGAGAGTGCTTCAAGCTCCTGCCCC
AGCTTACCTACATGGATGGCTATGACCAAGAGGACCAGGAGGAACCTGACTCAGATGCTGAGGTGGATGGTGTGG
ATGAAGAGTAGGAGGGCGAAGAAGAAGACGAAGAAGACGAGGAGGATGAAGATGGTGAAGAAGAGGAGTTTGATG
AAGAAGATGATTAAGACCCCAGATGACCTGCAGAAACAGAACTGTTTAGTATCGGTTGGACTGCTCATGGATTTG
GTAGCTGTTAAAAAAAAAAAAAAAAAAGGTAGCTGATACAAACCCAGGACACCCACCCACCCAAAGAGCCAAAGA
ATAGTTCCTGTGACATTCCGTCTTCTCCATGTAGTCCCTCTTGGTAATCTACCAATCTACCATCGAGCTTAGGG
ACTTCACCCCAACAAAATTGTAAGTGTGTTAGGTTTTTGTGTGAGACTCTTGCTGTAGCGTAGATAGCTGTGAT
TGGTGAGTCAACCATCTGTGGCTACCAGTTACACTGGGACTGTAACAGCATTTTTACTTTCTGTACAACAAAAAT
CTTTGTAAATAAAATCTTAACATT

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FIGURE 4255

MDMKRRIHLELRNWTPSAVRELVDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLKKLELSEN
IFGGLDMLAEKLPNLTRLNLSGNKLKDISTLEPLKKLECLKSLDLFNCVETNMNDY

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FIGURE 4256

GAGCGGCGCCCGCTCGAGAGAAGTGGGGCCGAGATCGCGCCGTCCCAGCCCGCCCGCGGCGTCTGCGCTGCTCC
GGCGCCCTTACCCCTGCTGGCCCTTGCAAGGCGCGACCGGCGGCCATGCAGCCCCGGGGCTGAGGCCGCCCATG
GCAAAGCCGGCGGTCCC GCGACGACGCGCATGGAGA ACTTCCGTAAGGTGCGCTCCGAAGAGGCGCCAGCGGG
GTGCGGGGCGGAGGGAGGCGGGCCGGGCTCCGGCCCTTCGCAGACCTGGCGCCGGGCGCGGTGCACATGCGGGT
CAAGGAAGGCAGCAAGATCCGGAACCTGATGGCCTTCGCCACCGCCAGCATGGCGCAGCCAGCCACGCGGCCAT
CGTCTTCAGCGGCTGCGGCCGGGCCACCACAAAACCGTCACGTGCGCCGAGATCCTCAAGCGCCGCCTGGCGGG
CCTGCACCAGGTCACGCGGCTGCGCTACCGGAGCGTACGCGAGGTGTGGCAGAGCCTCCCGCCTGGGCCCCACGCA
GGGTCAGACGCCTGGCGAGCCGGCCGCTAGTCTCAGCGTACTTAAGAACGTGCCCCGGCCTCGCCATCCTACTTTC
CAAGGACGCGCTGGATCCGCGACAGCCCGGCTACCAGCCCCGAATCCCCATCCTGGTCCCTCGTCCCCGCCAGC
CGCGCCAGCGTCCAAGAGGAGCCTAGGGGAACCCGCAGCTGGAGAAGGCTCCGCGAAGCGATCGCAACCCGAGCC
AGGGGTGCGGACGAGGATCAGACGGCCTGAACTCCGGACTGTGGGCCACCTAGTCCGGCAGGATCTTCCGCCA
GCGCCTCCACCTTCAGATGTACCTCCAGCCTTTCACTCCTCGGTCCCTCCGGAGCCCACAACCTGGACACAGCTCC
TCAAGACAGGTAGCATGGACCTTAAGGCGACAAGAGAGGGGGCCCCAGGAGTGGCAGGAGAGGATCCCCGACCACC
CTAGGGAACTTCGTGCGATAATTGCTGCTTATGCCCGTGTTGCGTGAAGACACGGAACCTTACCTTTTCTGGGA
CCTTCTTTGGGGGAGAATGGTGGACAGTGGGATTCTGGAACTTGTTTGGGACCCCCAAGGGTTAAAGCCACCCA
GCATTCACGAAGAGCACCTGAAGTATGGAAGCTGAGAAGAGTTATTGGAATCACCCCCACCGTTGACAGAGGAAG
GCAGGGGGTGAGAATTAACTGCTTGAGGGTAGGAGAGTCTGAGATGTGGGGGCCCTATTCCGCTCCCCGCCCTGG
GACAGTTTTCTTTCTAGTTTTCTTTCCCTGCTTCAGAGGAGCATCTCTGAGGGTTCTAGCTCTTTTAACACCC
CTTTTCCCCCTGCTGGCCCAGAGGGAGACCAGGACTGAACTCTCCAGGCCTCCTCCCTGAGCCCTGCAGCTGG
CTGGAGTCTTGCTTCCAATAAAACAAGCACA

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FIGURE 4257A

GGCAGCTAGGAGGGTTGCTCCGGGCTTGGTGCTCACTGCGACTTCCCGCGCAGGGCCCCGGTCGGACTAGGACCCG
CGGCCTGAGAGACGCTGGAGGATGCGGACGCGGAGGCCCGCTGGGGTAGCGGCGGCGGGAGTCTGGCGCTCTGC
AGGTCAGAAGTTGAGTAGCAGGGGCCTAGGAGGGCTCGAAGCCTTCACAGCGATGGCAGAGAAGCGACCCCTGAG
AACCTGGGGCCTGTGATGTATGGCAAGCTGCCCCGCTTAGAGACAGACTCCGGGCTCGAGCACAGCCTGCCCA
CTCTGTTGGTAACCAGGATCCCTGCACCTACAAGGGGTCTACTTCTCCTGCCCCATGGCAGGTACTCCTAAGGC
CGAGTCTGAGCAGTTGGCGTCTTGACCCCATACCCACCCTTGTACTCTACCGGTATGGCAGGACCCCCACTTCA
GGCAGACAACCTGCTGACCAACTGCCGTGTTCTACCGCTCGCCAGCAGAAGGCCCTGAGAAGATGCAGGACTCCAG
CCCTGTTGAGCTCCTGCCCTTCAGTCCCCAGGCTCACTCCTACCCAGGCCACCCTGGCAGCACCCAAACCTGT
CTACCGCAACCTCTGTGCTATGGGCTCTCAACTTGTCTGGGGGAAGGAGCAGTGAAGAGGCCACTGGATGTTGA
CTGGACTCTGGCGACTGGGCCCCCTGTTGCCCTCAGCTGACCCACCCTGCTCTCTGGCCCCAGCTCCTAGCAAGGG
CCAGACTCTGGATGGCACCTTCTTGCGGGGGTGCCAGCTGAGGGGTCCAGTAAAGACTCCTCAGGGAGCTTCTC
CCCATGCCAGCCCTTCTTGAGAAATATCAGACCATCCACAGCACGGGCTTCTGGCCTCCAGGTACACAGGTCC
TTACCCTAGGAACTCCAAGCAAGCAATGTCTGAGGGGCCCTCAAGTCTTGAGCCAGCTGGCCCAGCCCCCTGGG
GCCACCCTGTGAGACACCGGGCCCCACCCACTACCCACCACCCACCACCCACCACCCACCCTTCACAGGCCCT
GCCTTGCCCTCCAGCCTGTGCGCACCCAGAGAAGCAGGGCAGCTACAGCCCAGCACTCCCCTGCAGCCTCTGGG
GGGCCACAAGGGGACCGGGTACCAGGCTGGTGGGCTGGGCAGCCCCCTACCTGAGGCAGCAGGCAGCCCAGGCACC
TTACATTCCCCCACTGGGGCTGGACGCTTACCCCTACCCCTCTGCCCCCTCTCCAGCACCCCTCTCCAGGCCTCAA
GCTGGAGCCGCTCTCACTCCACGGTGCCATTGGACTTTGCCCCCAGACACTGAGTTTTCTTATGCCCCGGA
TGACCTCTCTCTATGGAGCATCCCCTGGGCTTGGAGGGACACCACCTTCCAGAACAAATGTGCGGGCTGTGCC
ACAGCCTGGTGCCTTCCAGAGGGCATGCCAGCCTTTGCCAGCGAGCCAGCCCTGCTCAGAGCCTGTGAGGCCTGC
ACAGGAAGCCGAAGAGAAGACCTGGCTGCCAGCTGCAGGAAGAGAAGCTCCAGCCCCGGCTCAGTGAGCACTC
TGGGCCGCCCATCGTCATCCGAGACAGTCCAGTTCCCTGTACCCCCCAGCACTGCCCCCTGTGCCCGGGAGTG
CCAGTCTCTTCCACAGAAGGAGGGCGCAAGGCCACCCAGCTCTCCACCAATGCCTGTCATTGACAATGTCTTCAG
CCTGGCCCCCTACCGTGACTATCTGGATGTGCCGGCACCCGAGGCCACAAGTGAAGCCTGACTCTGCCACAGCTGA
GCCTGACTCAGCCCCAGCCACCAGTGAAGTTCAGGACAAAGGCTGCAGGGGGACCCCTGCCTGCCAGGAGGGCCC
CTCAGGGAGTAAACCCCTAAGGGGCTCACTTAAGGAGGAGGTAGCCCTGGATTTGAGTGTGAGGAAGCCCACAGC
AGAGCCTCCCTGTCAAGGCTTCCCGTCTGTGGAGCATGCCAAGCCTACTGCAGCCATGGATGTGCCAGATGT
GGGCAACATGGTGTGAGATCTGCCAGGCCTGAAAAGATAGACACAGAAGCACCAGGCTTGCCTGGGGTGCCAGT
GACCACAGATGCCATGCCAAGGACCAACTTCCACAGCTCTGTGGCCTTCATGTTCCGAAAGTTCAAGATCCTCCG
TCCGGCACCTTTGCCTGCAGCCGTGGTCCCGTCCACGCCCACCTCAGCTCCTGCTCCACACAGCCTGCACCCAC
CCCCACATCTGGGCCCATTGGACTGCGGATTCTCGCTCAACAGCCCTTGTCTGTGACCTGCTTCAGCCTGGCACT
GCCAGCCCTCCAGCCGTAGCTGTGGCCTCCCCTGCCCCCTGCTCCAGCTCCATCCCCTGCTCCGGCTCGAGCTCA
GGCTCCAGCTTCAGCCCGGGATCCAGCTCCAGCTCCAGCTCCAGTTGCAGGCCCTGCTCCAGCATCTACTTCAGC
CCCAGGGGACTCCCTGGAGCAGCATTTTACAGGACTACATGCGTCCCTGTGTGATGCTATTTCTGGCTCCGTCGC
CCTCTCTCCAGAGAAGCTTCGCGAGTGCTAGAGACGGCTGGGCCCTGGGGCCAGGCTGCGTGGCAGGACTG
CCAGGGTGTGAGGGGCTGCTGGCCAAGCTGCTGTCTCAGCTGCAGCGCTTCGATCGCACCCACCGGTGCCCTT
CCCCATGTGGTGCGAGCTGGCGCCATCTTCGTGCCATTACCTGGTGAAGGAGCGGCTCTTCCCTCGGCTGCC
ACCCGCTTCTGTGGACCATGTGCTGCAGGAGCATCGTGTGGAGCTGCGGCCACCACGCTGTGCGAGGAGCGGGC
ACTGCGGGAGCTCGCCCTGCCAGGCTGCACCTCACGCATGCTGAAGTTACTGGCGCTGCGCCAGCTGCCGGACAT
TTACCCCGACCTTCTCGGCCTGCAGTGGCGCGACTGTGTACGCCGCCAGCTGGGTGACTTTGACACTGAGGCTGG
AGCTGTGTCTCCTCAGAGCCCACTGTGGCCAGAGGTGAGCCAGAGAGCCTAGCCCTGGCTCAGAAGTCACCGGC
CCCCAAGGTCAGGAAGCCAGGCAGGAAGCCACCAACCCTGGCCCCGAGAAAGCAGAGGCAGCTGCTGGGGAAGA
GTCTGTGGTGCTTCCCTACCCCTGCTACCAAGTCCAGCCACCTGGCCCCACACTGAAGGCCCGCTTCCGCAG
TCTGCTGGAGACCGCCTGGCTCAATGGCCTGGCTCTGCCACCTGGGGCCACAAGTCTCAAGACCAGACCAGCC
CTCACCCCTGCCACAGCTGCTGGACAGCCAGAGCCATCACCTGTAGCACTGGTTGCCAGTGCTGTGTGTATAGCA
GTACTCTCCACCCTTCCCTTCTGCCTGCCAGCTGCCCCGGGGCCACGAGTGGATGCTGGGGCTGTGGCTGCTC
CCCTGGAGGGGTTCATCTCTGACCCTGTGGCCCATTCAGGGTGGGCTGAAGAGCCCCTGAGCTTTTAAAGTGAG
GGTCTTTATTGGATAGGACTACTCCCTATTTCTTGCTAGAGAACACACATGGGCTTTGGAGCCCCGACAGACCTG

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FIGURE 4257B

GGCTTGAATCCCGGCTCGTGTTCTTGCTGCAGGACCTGGGCAAGAACTTCACCTCTGCTGAGCCCTCATTCCCC
ATGTGTAAAATGGGACAACGCAACCTACCTCACAGGGTTGTTGTGGGGATGCTGCCTGATACATACCCTGTCACC

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FIGURE 4258

MDVPDVGNMVSDLPGLKKIDTEAPGLPGVPVTTDAMPRTNFHSSVAFMFRKFKILRPAPLPAAVVPSTPTSAPAP
TQPAPTPTSGPIGLRILAQQLSVTCFSLALPSPPAVAVASAPAPAPSPAPARAQAPASARDPAPAPAPVAGPA
PASTSAPGDSLEQHFTGLHASLCDALSGSVAHSPPEKLREWLETAGPWGQAAWQDCQGVQGLLAKLLSQLQRFDR
THRCFPFHVVRAIAIFVPIHLVKERLFPRLPPASVDHVLQEHVELRPTTLSEERALRELALPGCTSRMLKLLAL
RQLPDIYPDLLGLQWRDCVRRQLGDFDTEAGAVSSSEPTVARGEPESLALAQKSPAPKVRKPGRKPTPGPEKAE
AAAGEESCGASPTPATASPPGPTLKARFRSLLETAWLNGLALPTWGHKSSRPDQPSPCPQLLDSQSHHL

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FIGURE 4259

GTCTCCCCGCGGGTCCGAGGGCGCTGGAAACCCAGCGGCGGCGAAGCGGAGAGGAGCCCCGCGCGTCTCCGCCCCG
CACGGCTCCAGGTCTGGGGTCTGCGCTGGAGCCGCGCGGGGAGAGGCCGTCTCTGCGACCGCCGCGCCGCTCCC
GACCGTCCGGGTCCGCGGCCAGCCCGGCCACCAGCCATGGGCTCTGGCCCGCTCTCGCTGCCCCCTGGCGCTGTCTG
CCGCCGCGGCTGCTGCTGCTGCTGCTGTCTCTGCTGCCAGTGCCAGGGCCTCAGAGGCTGAGCACCGTCTA
TTTGAGCGGCTGTTTGAAGATTACAATGAGATCATCCGGCCTGTAGCCAACGTGTCTGACCCAGTCATCATCCAT
TTCGAGGTGTCCATGTCTCAGCTGGTGAAGGTGGATGAAGTAAACCAGATCATGGAGACCAACCTGTGGCTCAAG
CAAATCTGGAATGACTACAAGCTGAAGTGAACCCCTCTGACTATGGTGGGGCAGAGTTCATGCGTGTCCCTGCA
CAGAAGATCTGGAAGCCAGACATTGTGCTGTATAACAATGCTGTTGGGGATTTCCAGGTGGACGACAAGACCAAA
GCCTTACTCAAGTACACTGGGGAGGTGACTTGGATACCTCCGGCCATCTTTAAGAGCTCCTGTAAAAATCGACGTG
ACCTACTTCCCGTTTGATTACCAAACTGTACCATGAAGTTCGGTTTCTGGTCCTACGATAAGGCGAAAAATCGAT
CTGGTCCTGATCGGCTCTTCCATGAACCTCAAGGACTATTGGGAGAGCGGCGAGTGGGCCATCATCAAAGCCCCA
GGCTACAAACACGACATCAAGTACAACCTGCTGCGAGGAGATCTACCCCGACATCACATACTCGCTGTACATCCGG
CGCCTGCCCTTGTCTACACCATCAACCTCATATCCCTGCGCTCATCTCCTTCTCCTACTGTGCTCGTCTTC
TACCTGCCCTCCGACTGCGGTGAGAAGGTGACCCTGTGCATTTCTGTCTCCTCTCCTTGACGGTGTTCCTCTG
GTGATCACTGAGACCATCCCTTCCACCTCGCTGGTCATCCCCCTGATTGGAGAGTACCTCCTGTTTACCATGATT
TTTGTAACCTTGTCCATCGTCATCACCGTCTTCGTGCTCAACGTGCACTACAGAACCCCGACGACACACAATG
CCCTCATGGGTGAAGACTGTATTCTTGAACCTGCTCCCCAGGGTCATGTTTCATGACCAGGCCAACAAGCAACGAG
GGCAACGCTCAGAAGCCGAGGCCCTCTACGGTGCCGAGCTCTCAAATCTGAATTGCTTCAGCCGCGCAGAGTCC
AAAGGCTGCAAGGAGGGCTACCCCTGCCAGGACGGGATGTGTGGTTACTGCCACCACCGCAGGATAAAAAATCTCC
AATTTAGTGCTAACCTCACGAGAAGCTCTAGTTCTGAATCTGTTGATGCTGTGCTGTCCCTCTCTGCTTTGTCA
CCAGAAATCAAAGAAGCCATCCAAAGTGTCAAGTATATTGCTGAAAATATGAAAGCACAAATGAAGCCAAAGAG
ATTCAAGATGATTGGAAGTATGTGTCATGGTGATTGATCGTATTTTTCTGTGGGTTTTACCCTGGTGTGCATT
CTAGGGACAGCAGGATTGTTTCTGCAACCCCTGATGGCCAGGGAAGATGCATTAAGCACTAAGCTGTGTGCCTGCC
TGGGAGACTTCCTTGTGTGAGGGCAGGAGGAGGCTGCTTCCTAGTAAGAACGTACTTTCTGTTATCAAGCTACCA
GCTTTGTTTTTGGCATTTCGAGGTTTACTTATTTTCCACTTATCTTGAATCATGCAAAAAAAAAAATGTCAAGA
GTATTTATTACCGATAAATGAACATTTAACTAGCCTTTTTGGTATGGTAAAGAGATGTCAAAATGTGATTCTATG
TGATTAGTATGCTATGCTATGGAATATACATGTAAAAATGTTTCCTTTTAGTTGTTGAAACAAAACCTGGATAGAA
AAATGCTGTTTCAGAAATATGAAAAGTCATTCAAGTTATCACTACAGATCTCCAGTAATTTTTCTTATTTAGCCCA
TAATCTCTTTGAAGGTTTATACTAATTCAGCAATCCCCCATCGTTACCCATTTCTTACCATGCATTTCTCGTTCT
TTACTGGGTCTAAAGGGCTATGCCTCCATTTAGAGAGCTTCAACTACTTCTCTTGACATACTTCTAAATTATACT
ATGAGAAATCATGCCTAGTTATTTCATTGTTAATATAACTGTCTTAGTACACCATAAACTGGGTGGATTATAAACA
ACAGAAACTTCTCAGTTTTGAGGTTGGGAGGTCCAAGGTCAAGGCACCAGCAAAATTTGGTGTCTGGTGAGGGTC
CTCTTCTCAAAGGGTGCCTTCTAGCTGTGTCTCACATGACTGAAGGGACTAGCTATCTCTGTGGGGTCTATTT
TATAAGGGCACTAACCCCATTCATGAGAGCAGAGCCCCCATGGCCTAATCACCTTTCCAAGGCCCCACCTTCTAT
CTAAGACAATCACGCTGGGAATAGGTTTTCAACATATGAATTGGGGGAGGACACATTTGGACCACAGCATGAACCT
TTAGAACAGGGTTTTCTCAGCCTTAGCACTACGGACATTTTGGGCTGGATAAATATGTGTTGGTACAGAATGGGGG
TATCTGTGCATTGTAGGATCTTTAGCAGTACCCTAGCCTCAACTCACTAGATGCCAATGACATACCTTGCTTCT
TCACCAGTTATGATAACCAAGAATGTCTCCATTGTTAAATGTCCCCTTAGGAGCAAAATTGCCCTGGTTGAGAA
ACATTGCTTTAGACAAATTGTTAAGAGTATCATGTACTACACTTCTGAACTTAACGTGATCATCACCCTGACA
GATGATTACAGAGAGAGACTGTTTGAATCTTGTCTCACTAGTTTTTCTGTGCAAAAAATAAATGGACAGAATT
GCAAAAAAAAAAAAAAAAAA

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FIGURE 4260

MSGPLSLPLALSPPRLLLLLLLSLLPVARASEAEHRLFERLFEDYNEIIRPVANVSDPVIIHFEVSMSQIVKVD
EVNQIMETNLWLKQIWNDYKLKWNPSDYGGAEFMRVPAQKIWKPDIVLYNNAVGDVFQVDDKTKALLKYTG EVTWI
PPAIFKSSCKIDVTYFPPFDYQNCTMKFGSWSYDKAKIDLVLIGSSMNLKDYWESGEWAI IKAPGYKHDIKYNCC
EIYPDITYSLYIRRLPLFYTTINLIIPCLLISFLTVLVFFYLPSDCGEKVTLCSVLLSLTVFLLVITETIPSTSLV
IPLIGEYLLFTMIFVTL SIVITVFVLNVHYRTPTTHTMP SWVKTVFLNLLPRVMFMTRPTSNEGNAQKPRPLYGA
ELSNLNCFSRAESKGCKEGYPCQDGMCGYCHHRRIKISNFSANLTRSSSESVD AVL SLSALSPEIKEAIQSVKY
IAENMKAQNEAKEIQDDWKYVAMVIDRIFLWVFTLVCILGTAGLFLQPLMAREDA

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FIGURE 4261

GCGCATGCGCGGGGGCCATATTAGCAGCGGTTATTCGGTGAGCGGTGGTGGTTTATTCTTCCGCGGAGTTAAGGG
CTCCGTGGACATCTCAGGTCTTCAGGGTCTTCCATCTGGAACATATATAAAGTTCAGAAAACATGTCTCGAAGATA
TGA CTCCAGGACCACTATATTTTCTCCAGAAGGTCGCTTATACCAAGTTGAATATGCCATGGAAGCTATTGGACA
TGCAGGCACCTGTTTGGGAATTTTAGCAAATGATGGTGTGTTTGCTTGCAGCAGAGAGACGCAACATCCACAAGCT
TCTTGATGAAGTCTTTTTTTCTGAAAAAATTTATAAACTCAATGAGGACATGGCTTGCAGTGTGGCAGGCATAAC
TTCTGATGCTAATGTTCTGACTAATGAACTAAGGCTCATTGCTCAAAGGTATTTATTACAGTATCAGGAGCCAAT
ACCTTG TGAGCAGTTGGTTACAGCGCTGTGTGATATCAAACAAGCTTATACACAATTTGGAGGAAAACGTCCCTT
TGGTGTTCATTGCTGTACATTGGCTGGGATAAGCACTATGGCTTTCAGCTCTATCAGAGTGACCCTAGTGGA
TTACGGGGGATGGAAGGCCACATGCATTGGAAATAATAGCGCTGCAGCTGTGTCAATGTTGAAACAAGACTATAA
AGAAGGAGAAATGACCTTGAAGTCAGCACTTGCTTTAGCTATCAAAGTACTAAATAAGACCATGGATGTTAGTAA
ACTCTCTGCTGAAAAAGTGGAATTTGCAACACTAACAAGAGAGAATGGAAAGACAGTAATCAGAGTTCTCAAACA
AAAAGAAGTGAGCAGTTGATCAAAAAACACGAGGAAGAAGCCAAAGCTGAGCGTGAGAAGAAAGAAAAAGA
ACAGAAAGAAAAGGATAAATAGAATCAGAGATTTTATTACTCATTTGGGGCACCATTTAGTGTAAGCAGTCC
TACTCTTCCACACTAGGAAGGCTTTACTTTTTTTAACTGGTGCAGTGGGAAAATAGGACATTACATACTGAATTG
GGTCCTTGTCATTTCTGTCCAATTGAATACTTTATTGTAACGATGATGGTTACCCTTCATGGACGTCTTAATCTT
CCACACACATCCCCTTTTTTTTGAATAAAATTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4262

MSRRYDSRTTIFSPEGRLYQVEYAMEAIGHAGTCLGILANDGVLLAAERRNIHKLLDEVFFSEKIYKLNEDMACS
VAGITSDANVLTNELRLIAQRYLLQYQEPICEQLVTALCDIKQAYTQFGGKRPFQVSLLYIGWDKHYGFQLYQS
DPSGNYGGWKATCIGNNSAAVSMKQDYKEGEMTLKSALALAIKVLNKTMDVSKLSAEKVEIATLTRENGKTVI
RVLKQKEVEQLIKKHEEEAKAEREKKEKEQKEKDK

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FIGURE 4263

ATGGTTAACCCCACTGTGTTTTTTGACATCGCCGTCGATGGCGAGCCCTTGGGCCACGTCTCCTTCGAGCTGCTT
GCAGACAAGTTTCCAAAGACAGCAGAAAACTTTCATGCTCTGAGCACTGGAGAGAAAGGATTTGAATTATCAGAG
TTTATGTGTCAGGGTGGTGACTTCACATGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAT
GATGAGAACTTCATCCTAAAGCATAACAGTGGTGGATGGCAAGCATGTGGTCTTTGGCAAGGTGAAAGAAGGCATG
AATATTGTGGAGGCCACGGAGCGCTTTGAGTCCAGGAATGGCAAGACCAGGAAGAAGATCACCATTGCTGACTGT
GGACAACCTTAA

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FIGURE 4264

MVNPTVFFDIAVDGEPLGHVSFELLADKFPKTAENFHALSTGEKGFELSEFMCQGGDFTCHNGTGGKSIYGEKFD
DENFILKHTVVDGKHVVFGKVKEGMNIVEATERFESRNGKTRKKITIADCGQL

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FIGURE 4265

AGTGCGCGCCGGCCGGGCAACCCTATGCTGGCGTAATCGGGTTCCCTCCGAGCCGCCGTAGGACTGGTTCCGGCGG
GCTGGTGAGGAATGGAGCCGGTAGGCTGCTGCGGCGAGTGCCGCGGCTCCTCCGTAGACCCGCGGAGCACCTTCG
TGTTGAGTAACCTGGCGGAGGTGGTGGAGCGTGTGCTCACCTTCCTGCCCGCCAAGGCGTTGCTGCGGGGTGGCCT
GCGTGTGCCGCTTATGGAGGGAGTGTGTGCGCAGAGTATTGCGGACCCATCGGAGCGTAACCTGGATCTCCGCAG
GCCTGGCGGAGGCCGCGCCACCTGGAGGGGCATTGCTTGTTTCGCGTGGTAGCAGAGGAGCTTGAGAATGTTTCGCA
TCTTACCACATACAGTTCTTTACATGGCTGATTTCAGAACTTTTCATTAGTCTGGAAGAGTGTCTGGCCATAAGA
GAGCAAGGAAAAGAACTAGTATGGAAACAGCACTTGCCCTTGAGAAGCTATTCCCCAAACAATGCCAAGTCCTTG
GGATTGTGACCCCAAGGAATTGTAGTGACTCCAATGGGATCAGGTAGCAATCGACCTCAGGAAATAGAAATTGGAG
AATCTGGTTTTTGCTTTATTATTCCTCAAATTGAAGGAATAAAAATACAACCTTTCATTTTATTAAGGATCCAA
AGAATTTAACATTAGAAAGACATCAACTCACTGAAGTAGGTCTTTTAGATAACCTGAACTTCGTGTGGTCCTTG
TCTTTGGTTATAATTGCTGTAAGGTGGGAGCCAGTAATTATCTGCAGCAAGTAGTCAGCACTTTCAGTGATATGA
ATATCATCTTGGCTGGAGGCCAGGTGGACAACCTGTCATCACTGACTTCTGAAAAGTATGTCTTGTGTGCTTCTG
ATTCGTCTGTGAATTGAAGGGAAATGGTCTCAGGTTTTGTCACTTTGGGGTTAACAATTTAAAAAACGTGTTTAA
AGAATTATTAAGATAATAGTTTCATTCCATTTTGTAGTAGACATTGGCTAAGGGGCTTACTGAACATAATTCTGCT
TACGGTTGAATAATTACATTTTATATATATTGTCCTTCAAGAACTTCCTTGAGTCACATTCTCCTTAAAATTTG
ACATTGCCTGTTGATCTTTCCTTTGACAGATGTGGTACTCTGTGTGACCTCAATGTGTCACCTCCTTCTAGTTT
CCTCCTTTAAAGGAAACACATGGTTAGAGTGATCTTTATGGCAAACTTCTCAGAGCTTCTAATATGCCCGGTG
CTGTGGAAATCTGGAAGGAGAATAGCATTACCTGTGACAGTTCCCAAATCTGTTTGGTCACAAAACCTTTTTTCCA
CAGAATGTCTTGCAAGTCGTACTGGTTTTTGGAAATTCTGTATTAGATCTTTTGAAAGGCTTTTTCAAGCTTAAA
AATTGTGGATCTTTTTTGTACTAAGGCTTTTGTCTTCAAAGATAAAAATATTTGCTCTTC

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FIGURE 4266

MEPVGCCGECRGSSVDPRSTFVLSNLAEVVERVLTFLPAKALLRVACVCRLWRECVRRVLRTHRSVTWISAGLAE
AGHLEGHCLVRVVAEELNVRILPHTVLYMADSETFISLEECRGHKRARKRTSMETALALEKLFPPKQCQVLGIVT
PGIVVTPMGSGSNRPQEIEIGESGFALLFPQIEGIKIQPFHFIDPKNLTLEVRHQLTEVGLLDNPELRVVLVFGY
NCKVGASNYLQQVVSTFSDMNIIILAGGQVDNLSSLTSEKYVLCASDFVCE

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FIGURE 4267

ATGTTCCGAGCGGCGGCTCCGGGGCAGCTCCGGCGGGCGGCCTCATTGCTACGATTTTCAGAGTACCCTGGTAATA
GCTGAGCATGCAAATGATTCCCTAGCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCTTGGAGGTGAA
GTGTCCTGCTTAGTAGCTGGAACCAAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAA
GTTCTGGTGGCTCAGCATGATGTGTACAAAGGCCTACTTCCAGAGGAACTGACACCATTGATTTTGGCAACTCAG
AAGCAGTTCAATTACACACACATCTGTGCTGGAGCATCTGCCTTCGGAAAGAACCTTTTGCCAGAGTAGCAGCC
AACTTGAGGTTGCCCCGATTTCTGACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAACTATTTATGCA
GGAAATGCTCTATGTACAGTGAAGTGTGATGAGAAAGTGAAAGTGTTCCTGTCCGTGGAACATCCTTTGATGCT
GCAGCAACAAGTGGCGGTAGTGCCAGTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAATATCAGAGTGGCTT
GACCAGAAATTAACAAAAAGTGATCGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGGTCGAGGCTTG
AAGAGTGGAGAGAACTTTAAGTTGTTATATGACTTGGCAGATCAACTACATGCTGCAGTTGGTGGCTTCCCGTGCT
GCTGTTGATGCTGGCTTTGTTCCCAATGACATGCAAGTTGGACAGACGGGAAAAATAGTAGCACCAGAACTTTAT
ATTGCTGTTGGAATATCTGGAGCCATCCAACATTTAGCTGGGATGAAAGACAGCAAGACAATTGTGGCAATTAAT
AAAGACCCAGAAGCTCCAATTTTCCAAGTGGCAGATTATGGAATAGTTGCAGATTTATTTAAGGTAGTTCCTGAA
ATGACTGAGATATTGAAGAAAAATGAATCAGGATCATGCCTTAAAAAGAAAACTTTTGTTAAAGTATTCCACTG
AAATCACAGATATTTGTGGGTATTATAACAATCATTGGAAAGCATGGAGAGCTACATTTCATAATTTGAGGGAAA
ATTTCTAACAGATGCCAGAATGCTTGTTCATGGGATTGCTGTGTTTCCTTTTAATTATTTGTGGTTCCAAACAAT
TATTGTTTGAACTTTTTTAATTCTGTACTAAAATCTATAATAAAGCTTTTCCACAGCTTTAAACT

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FIGURE 4268

MFRAAAPGQLRRAASLLRFQSTLVIAEHANDSLAPITLNTITAATRLGGEVSCLVAGTKCDKVAQDLCKVAGIAK
VLVAQHADVYKGLLPEELTPLILATQKQFNETHICAGASAFGKNLLPRVAAKLEVAPISDIIAIKSPDTFVRTIYA
GNALCTVKCDEKVKVFSVRGTSFDAAATSGGSASSEKASSTSPVEISEWLDQKLTCSRPELTGAKVVVSGGRGL
KSGENFKLLYDLADQLHAAVGASRAAVDAGFVPNDMQVGQTGKIVAPELYIAVGISGAIQHLAGMKDSKTIVAIN
KDPEAPIFQVADYGIVADLFRVVPMTTEILKKK

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FIGURE 4269

GCAGCCGGCCCCGGGCCCCCGCCAGCCTCCCTCCTCGCGTCCCTCGGTGTCCTCCGCGGGCCGGCGCGATGCGGGCT
GGGCCCCGAGGACCGCGGCGTTGGGGCTGCTGCTGCTGTGCGCCGCCGCGCGCCGGCAAGGCCGAGGAGCT
GCACTACCCGCTGGGCGAGCGCGCAGCGACTACGACCGCGAGGCGCTGCTGGGCGTCCAGGAAGATGTGGATGA
ATATGTTAAACTCGGCCACGAAGAGCAGCAAAAAAGACTGCAGGCGATCATAAAGAAAATCGACTTGGACTXCAG
ATGGCTTTTCTCACTGAAAGTGAAGTCACTCATGGATTGAGATGTCTTTAAGCATTATGCTATGCAAGAAGCAA
ACAACAGTTTGTGTAATATGATAAAAAACAGTGATGATACTGTGACTTGGGATGAATATAACATTGAGATGTATG
ATCGTGTGATTGACTTTGATGAGAACACTGCTCTGGATGATGCAGAAGAGGAGTCCTTTAGGAAGCTTCACTTAA
AGGACAAGAAGCGATTTGAAAAAGCTAACCAGGATTGAGGTCCCGGTTTGAGTCTTGAAGAATTTATTGCTTTTG
AGCATCCTGAAGAAGTTGATTATATGACGGAATTTGTCAATTCAAGAAGCTTTAGAAGAACATGACAAAAATGGTG
ATGGATTTGTTAGTTTGGGAAGAATTTCTTGGTGATTACAGGTGGGATCCAACTGCAAATGAAGATCCAGAATGGA
TACTTGTGAGAAAGACAGATTCGTGAATGATTATGACAAAGATAACGATGGCAGGCTTGATCCCCAAGAGCTGT
TACCTTGGGTAGTACCTAATAATCAGGGCATTGCACAAGAGGAGGCGCTTCATCTAATTGATGAAATGGATTTGA
ATGGTGACAAAAAGCTCTCTGAAGAAGAGATTCTGGAACCCGGACTTGTTTCTCACCAGTGAAGCCACAGATT
ATGGCAGACAGCTCCATGATGACTATTTCTATCATGATGAGCTTTAATCTCTGAGCCTGTCTCAGTAGAGTACTG
GCTCCTTTTATAATTTGTTACCAGCTTTACTTTTGTGATAAAATATTGATGTTGTATTTTACACTCTTAAGTCTT
AACCACAGTCAGAATTATCTTAATGTAGATTATAATTTTGGTCTTTTAGGAAAAAAAAAACAAAATCTGATATTT
ATTTCAAAATGTATTGAAGCAACAAAATATTAATATTGTGCCATATGACAACAAAGTCTTTCCTAAATACTCCAT
CTGTTTAGTACTGTATTGTGGAATATTTGAGTTCTATTTCCATACTTGAAAACATGGAGGATTTTAGAGATGCCT
GAACAATATTATTTAAGTAGTATGTGACCGAGCTATAAATTTTTGTTTTTGTCTAAGTAGATTTAATTTGGGAA
CTGACAGGACAATGTTTTTAGGTTTAGCATTTTGTGTTTAAAACCTTTAAAGAAACCTTTAGAAGGACTTAGACCT
CACATATTAATGTTGAGAAGTTCTGCTTAATTTTAAAATGGTTTCTATAAAGGGTTTTATTGTATGAAATAGAAC
TTTATATTTTTGCATATGTATAGATAGTAATTATATTTAATGTATAACTATAGCATTATGGTGAGTGGAATTTGA
CATGTGCCAACCTTTTTCAATTTTGTAGTGATTAAAAATGAAATGTCCTTTGTA

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FIGURE 4270

GAGCCCGTCTTCCGACGTGCAGCCTGGCAGTGCAGTGCAGTGTCTGGCCTTTTGTCTTGATCCTTGTTAAGGA
AATGACCAACCAGTACGGTATTCTCTTCAAACAAGAGCAAGCCATGATGATGCCATTTGGTCAGTTGCTTGGGG
GACGAACAAGAAGGAAAACTCTGAGACAGTGGTCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATGGCG
TGATGAGAGGCTGGACCTACAGTGGAGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC
CCTGCCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGATAAA
GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGATTCCCAGTATCTGGCCACAGGAAC
TCATGTCGGGAAAGTGAACATTTTTGGTGTGGAAAGTGGGAAAAAGGAATATTCTTTGGACACGAGAGGAAATT
CATTCTTAGTATTGCATATAGTCCTGATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT
TGATATTGCAACTGGAAAACCTTCTGCATACCCTGGAAGGCCATGCCATGCCATTGCTCCTTGACCTTTTCCCC
GGACTCCCAGCTCCTTGTCACTGCTTCAGATGATGGCTACATCAAGATCTATGATGTACAACATGCCAATTTGGC
TGGCACGCTGAGCGGCCATGCCTCCTGGGTGCTGAACGTTGCATTCTGTCTGATGACACTCACTTTGTTTCCAG
TTCGTCTGACAAAAGTGTAAGTTTGGGATGTTGGAACGAGGACTTGTGTTTACACCTTCTTTGATCACCAGGA
TCAGGTCTGGGGAGTAAAATACAATGGAAATGGTTCAAAAATTGTGTCTGTTGGAGATGACCAGGAAATTCACAT
CTATGATTGTCCAATTTTAAACATCAAAGTCTCCAGGCTTATGCTGCAAAGAGAATGTACGGATTGATCATGACAT
TCCTTACCTTCTTAGGCTTGTTTAAAAGAAATATAGCATTTATTGTAGCAAAGACTTAAATTTTGTAGATACAAT
ATGAATCTTTTCATGTTTTATTGGAAATGCTGTTTACTTTAACATAAAGCTTTCTTAATGCAAAAAAAAAAAAA
AAAAA

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FIGURE 4271

MTNQYGILFKQEQAHDDAIWSVAWGNTNKKENSETVVTGSLDDLVKVKWRDERLDLQWSLEGHQLGVVSVDISHT
LPFAASSSLDAHIRLWDLENGKQIKSIDAGPVDATLAFSPDSQYLATGTHVGKVNIFGVESGKKEYSLDTRGKF
ILSIAYSPDGKYLASGAIDGIINIFDIATGKLLHTLEGHAMP IRSLTFSPDSQLLVTA SDDGYIKIYDVQHANLA
GTL SGHASWVLNVAFCPDDTHFVSSSSDKSVKVDVGTRTCVHTFFDHQDQVWGVKYNNGSKIVSVGDDQEIH
YDCPI

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FIGURE 4272

GTGCAGGGACTTCACAGCCACACGGGCTACGAGGTGCTGCTGCAGCGGCTTCTGGATGGCAGGAAGATGTGCAA
AGACATGGAGGAGCTACTGAGGCAGAGGGCCAGGCGGAGGAGCGGTACGGGAAGGAGCTGGTGCAGATCGCACG
GAAGGCAGGTGGCCAGACGGAGATCAACTCCCTGAGGGCCTCCTTTGACTCCTTGAAGCAGCAAATGGAGAATGT
GGGCAGCTCACACATCCAGCTGGCCCTGACCCTGCGTGAGGAGCTGCGGAGTCTCGAGGAGTTTCGTGAGAGGCA
GAAGGAGCAGAGGAAGAAGTATGAGGCCGTATGGACCGGGTCCAGAAGAGCAAGCTGTGCTCTACAAGAAGGC
CATGGAGTCCAAGAAGACATACGAGCAGAAGTGCCGGGACGCGGACGACGCGGAGCAGGCCTTCGAGCGCATTAG
CGCCAACGGCCACCAGAAGCAGGTGGAGAAGAGTCAGAACAAAGCCAGGCAGTGCAAGGACTCGGCCACCGAGGC
AGAGCGGGTATACAGGCAGAGCATTGCGCAGCTGGAGAAGGTCCGGGCTGAGTGGGAGCAGGAGCACCGGACCAC
CTGTGAGGCCTTTTCAGCTGCAAGAGTTTGACCGGCTGACCATTTCTCCGCAACGCCCTGTGGGTGCACAGCAACCA
GCTCTCCATGCAGTGTGTCAAGGATGATGAGCTCTACGAGGAAGTGCGGCTGACGCTGGAAGGCTGCAGCATAGA
CGCCGACATCGACAGTTTCATCCAGGCCAAGAGCACGGGCACAGAGCCCCCGCTCCGGTGCCCTACCAGAACTA
TTACGATCGGGAGGTACCCCCGCTGACCAGCAGCCCTGGCATAACAGCCGTCCTGCGGCATGATAAAGAGGTTCTC
TGGACTGCTGCACGGAAGTCCCAAGACCACCTTCGTTGGCAGCTTCTGCTGCGTCCACAGAGACCCTGACCCCCAC
CCCCGAGCGGAATGAGGGTGTCTACACAGCCATCGCAGTGCAGGAGATACAGGGAACCCGGCCTCACCAGCCCCA
GGAGTACCGGGGCGCTCTACGATTATACAGCGCAGAACCCAGATGAGCTGGACCTGTCCGCGGGAGACATCCTGGA
GGTGATCCTGGAAGGGGAGGATGGCTGGTGGACTGTGGAGAGGAACGGGCAGCGTGGCTTCGTCCCTGGTTCCCTA
CCTGGAGAAGCTTTGAGGAAGGGCCAGGAGCCCCTTCGGACCTGCCCTGCCAGTGGAGCCAGCAGTGCCCCCAGC
ACTGTCCCCACCTTGCTAGGGGCCAGAACCAAGCGTCCCCCAGCCCCGAGAGGGAGCCTGTGCTCTCCAGGGAA
TAAAGGAGTGCGTTCTGTT

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FIGURE 4273

GTGCCAGGGAGCGGCGCGGGAGCCCTGAGGGGACTGCGGCGGCTGCGCGGAGGAGCGAGGCGCTTGCTGGGGTC
GGGGCTGCGCGACGGCGCAGGGGCTGCGGGGAGCGCCGCGCAGGCCGTGCAGTTCCTAGCGAGGAGGCGCCGCCG
CCATTGCCGCTCTCTCGGTGAGCGCAGCCCCGCTCTCCGGGCGGGCCTTCGCGGGCCACCGGCGCC**ATG**GGCCA
GTGCGGCATCACCTCCTCCAAGACCGTGCTGGTCTTTCTCAACCTCATCTTCTGGGGGGCAGCTGGCATTTTATG
CTATGTGGGAGCCTATGTCTTCATCACTTATGATGACTATGACCACTTCTTTGAAGATGTGTACACGCTCATCCC
TGCTGTAGTGATCATAGCTGTAGGAGCCCTGCTTTTCATCATTGGGCTAATTGGCTGCTGTGCCACAATCCGGGA
AAGTCGCTGTGGACTTGCCACGTTTGTTCATCATCCTGCTCTTGGTTTTTGTACAGAAGTTGTTGTAGTGGTTTT
GGGATATGTTTACAGAGCAAAGGTGGAATGAGGTTGATCGCAGCATTTCAGAAAGTGATAAGACCTACAATGG
AACCAACCCTGATGCTGCTAGCCGGGCTATTGATTATGTACAGAGACAGCTGCATTGTTGTGGAATTCACAATA
CTCAGACTGGGAAAATACAGATTGGTTCAAAGAAACCAAAAACAGAGTGTCCCTCTTAGCTGCTGCAGAGAGAC
TGCCAGCAATTGTAATGGCAGCCTGGCCACCCTTCCGACCTCTATGCTGAGGGGTGTGAGGCTCTAGTTGTGAA
GAAGCTACAAGAAATCATGATGCATGTGATCTGGGCCGCACTGGCATTTCAGCTATTTCAGCTGCTGGGCATGCT
GTGTGCTTGCATCGTGTGTGTGCAGAAGGAGTAGAGATCCTGCTTACGAGCTCCTCATCACTGGCGGAACCTATGC
A**TAG**TTGACAACTCAAGCCTGAGCTTTTTGGTCTTGTTCTGATTTGGAAGGTGAATTGAGCAGGTCTGCTGCTGT
TGGCCTCTGGAGTTCATTTAGTTAAAGCACATGTACACTGGTGTGGACAGAGCAGCTTGGCTTTTCATGTGCCC
ACCTACTTACCTACTACCTGCGACTTTCTTTTTCTTGTCTAGCTGACTCTTCATGCCCCTAAGATTTTAAGTA
CGATGGTGAACGTTCTAATTTCAAGAACCAATTGCGAGTCATGTAGTGTGGTAGAATTAAAGGAGGACACGAGCCT
GCTTCTGTTACCTCCAAGTGTAACAGGACTGATGCCGAAATGTCACCAGGTCCTTTTCAGTCTTCACAGTGGAGA
ACTCTTGGCCAAAGTTTTTGGGGGGAGGAGGAGGAAACCAGCTTTCTGGTTAAGGTAAACACCAGATGGTGCCC
CTCATTGGTGTCTTTTTAAAAATATTTACTGTAGTCCAATAAGATAGCAGCTGTACAAAATGACTAAAATAGAT
TGTAGGATCATATGGCGTATATCTTGGTTCATCTTCAAATCAGAGACTGAGCTTTGAACTAGTGGTTTTTAAT
CAAAGTTGGCTTTATAGGAGGAGTATAATGTATGCACTACTGTTTTAAAGAATTAGTGTGAGTGTGTTTTTGT
TGAATGAGCCCATTCATGGTAAGTCTTAAGCTTGTGGAAATAATGTACCCATGTAGACTAGCAAAATAGTATGT
AGATGTGATCTCAGTTGTAAATAGAAAAATCTAATTCAATAAACTCTGTATCAGCCCCAACATATTATTTTCA
TTATTTGGGGGATATTTAGTTCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 4274

MGQCGITSSKTVLVFLNLIFWGAAGILCYVGAYVFITYDDYDHHFFEDVYTLIPAVVILAVGALLFIIGLIGCCAT
IRESRCGLATFVIILLVFEVTVVVVLGYVYRAKVENEVDRSIQKVYKTYNGTNPDAASRAIDYVQRQLHCCGI
HNYSDWENTDWFKETKNQSVPLSCCRETASNCNGSLAHPSDLYAEGCEALVVKKLQEIMMHVIWAALAFAAIQLL
GMLCACIVLCRRSRDPAYELLITGGTYA

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FIGURE 4275

CTTTCTTTGCTGCGTCTACTGCGAGAATGAAAGACTATTCTCAGCAATCAGACTGTGACATTCCAGAAAATGTGCG
ACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCCTGCGGAGGGACTTCAATCACATCA
ATGTAGAACTCAGCCTTCTTGGAAGAAAAAAGAGGGCTCCGGGTTGACAAATGGTGGGGTAAACAGAAAGGAAC
TGGCTACCGTTCGGACTATTTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAAGA
TGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATT
TCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAAAG
ATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTTCAGCAAGCCACAACAG
TTAAAAACAAGGATATCAGGAAATTTTGGATGGTATCTATGTCTCTGAAAAGGAACTGTTTCAGCAGGCTGATG
AATAAGATCTAAGAGTTACCTGGCTACAGAAAGAAGATGCCAGATGACACTTAAGACCTACTTGTGATATTTAAA
TGATGCAATAAAAGACCTATTGATTTGGA

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FIGURE 4276

MKTILSNQTVDIPENVDTLKGRTVIVKGPRGTLRRDFNHINVELSLLGKKKKRLRVDKWWGNRKELATVRTICS
HVQNMIGVTLGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGEKYIRRVMRPGVACSVSQAQKDELILEGND
IELVSNSAALIQQATTVKNKDIRKFLDGIYVSEKGTVQQADE

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FIGURE 4278

GCGCAAGAGCCAAGCCGCCAGCGCTGCGATGTGGGCCACGCTGCCGCTGCTCTGCGCCGGGGCCTGGCTCCTGGG
AGTCCCCGTCTGCGGTGCCGCCGAAGTGTGCGTGAAGTCTTAGAGAAGTTTCACTTCAAGTCATGGATGTCTAA
GCACCGTAAGACCTACAGTACGGAGGAGTACCACCACAGGCTGCAGACGTTTGCCAGCAACTGGAGGAAGATAAA
CGCCCACAACAATGGGAACACACATTTAAAATGGCACTGAACCAATTTTCAGACATGAGCTTTGCTGAAATAAA
ACACAAGTATCTCTGGTCAGAGCCTCAGAATTGCTCAGCCACCAAAAGTAACTACCTTCGAGGTACTGGTCCCTA
CCCACCTTCCGTGGACTGGCGGAAAAAAGGAAATTTTGTCTCACCTGTGAAAAATCAGGGTGCCTGCGGCAGTTG
CTGGACTTTTCTCCACCACTGGGGCCCTGGAGTCTGCGATCGCCATCGCAACCGGAAAGATGCTGTCTTGGCGGA
ACAGCAGCTGGTGGACTGCGCCAGGACTTCAATAATCACGGCTGCCAAGGGGGTCTCCCCAGCCAGGCTTTCGA
GTATATCCTGTACAACAAGGGGATCATGGGTGAAGACACCTACCCCTACCAGGGCAAGGATGGTTATTGCAAGTT
CCAACCTGGAAAGGCCATCGGCTTTGTCAAGGATGTAGCCAACATCACAATCTATGACGAGGAAGCGATGGTGGA
GGCTGTGGCCCTCTACAACCCTGTGAGCTTTGCCTTTGAGGTGACTCAGGACTTCATGATGTATAGAACCGGCAT
CTACTCCAGTACTTCTGCCATAAACTCCAGATAAAAGTAAACCATGCAGTACTGGCTGTTGGGTATGGAGAAAA
AAATGGGATCCCTTACTGGATCGTGAAAACTCTTGGGGTCCCCAGTGGGGAATGAACGGGTACTTCCTCATCGA
GCGCGGAAAGAACATGTGTGGCCTGGCTGCCTGCGCCTCCTACCCCATCCCTCTGGTGTGAGCCGTGGCAGCCGC
AGCGCAGACTGGCGGAGAAGGAGAGGAACGGGCAGCCTGGGCCTGGGTGGAAATCCTGCCCTGGAGGAAGTTGTG
GGGAGATCCACTGGGACCCCCAACATTCTGCCCTCACCTCTGTGCCAGCCTGGAAACCTACAGACAAGGAGGAG
TTCCACCATGAGCTCACCCGTGTCTATGACGCAAAGATCACCAGCCATGTGCCTTAGTGTCTTCTTAACAGACT
CAAACCACATGGACCACGAATATTCTTTCTGTCCAGAAGGGCTACTTTCCACATATAGAGCTCCAGGGACTGTCT
TTTCTGTATTGCTGTTCAATAAACATTGAGTGAGCACCTCC

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FIGURE 4279

GGCAAAATCCGGCCCCAGGATGTAGAGCTGGCAGTGCCTGACGGCGCGTCTGACGCGGAGTTGGGTGGGGTAGAGAG
TAGGGGGCGGTAGTCGGGGGTGGTGGGAGAAGGAGGAGGCGGCGAATCACTTATAAAATGGCGCCGAAGCAGGACC
CGAAGCCTAAATTCCAGGAGGGTGAGCGAGTGCTGTGCTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAA
AGGTTGCCATAAAGGACAAACAAGTGAAATACTTCATACATTACAGTGGTTGGAATAAAAAATTGGGATGAATGGG
TTCCGGAGAGCAGAGTACTCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGG
AGCAGTATGCAGAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTG
AAGTGAAAACGAAAAAGAACAACAGAAAACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGC
CTCCTCGGAAGAAAAGGGCCCGGGTAGATCCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTA
AAGTAAAGATTCTGAAGAGCTAAAACCGTGGCTTGTTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCT
TTTATCTTCTGCCAAGAAGAATGTGGATTCCATCTTGAGGATTATGCAAATTACAAGAAATCTCGTGGAACA
CAGATAATAAGGAGTATGCGGTTAATGAAGTTGTGGCAGGGATAAAGAATACTTCAACGTAATGTTGGGTACCC
AGCTACTCTATAAATTTGAGAGACCACAGTATGCTGAAATCTTGAGATCATCCCGATGCACCCATGTCCCAGG
TGTATGGAGCGCCACATCTCCTGAGATTATTTGTACGAATTGGAGCAATGTTGGCTTATACACCTCTGGATGAGA
AGAGCCTTGCTTTATTACTCAATTATCTTCACGATTTCTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTCA
GTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATG
TTTGGATCTCCGTAAACACATTTTTGTTCTTAGTCTATCTCTTGTAACAAACGATGTGCTTTGAAGATGTTAGTGT
ATAACAATTGATGTTTTGTTTTCTGTTTGATTTTAAACAGAGAAAAATAAAAGGGGGTAATAGCTCCTTTTTTCT
TCTTTCTTTTTTTTTTTTTCATTTCAAAATTGCTGCCAGTGTTTTCAATGATGGACAACAGAGGGATATGCTGTAGA
GTGTTTTATTGCCTAGTTGACAAAGCTGCTTTTGAATGCTGGTGGTTCTATTCTTTGACACTACGCACTTTTAT
AATACATGTTAATGCTATATGACAAAATGCTCTGATTCCCTAGTGCCAAAGGTTCAATTCAGTGTATATACTGAA
CACACTCATCCATTTGTGCTTTTGTTTTTTTTTTATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCA
TGTGTACTTAGGCATTTTATCTTGCTCAAATTGTTGAAGAATGGTGGCTTGTTTCATGGTTTTTGTATTTGT
GTCTAATGCACGTTTTAACATGATAGACGCAATGCATTGTGTAGCTAGTTTTCTGGAAGTCAATCTTTTAGGA
ATTGTTTTTCAGATCTTCAATAAAATTTTTCTTTAAATTC

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FIGURE 4280

MAPKQDPKPKFQEGERVLCFHGPLL YEAKCVKVAIKDKQVKYFIHYSGWNKNWDEWVPESRVLKYVDTNLQKQRE
LQKANQEQYAEGKMRGAAPGKKTSGLQQKNVEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRARVDPTVENEETF
MNRVEVKVKIPEELKPWLVDWDLITRQKQLFYLPKKNVDSILEDYANYKKS RGNTDNKEYAVNEVVAGIKEYF
NVMLGTQLLYKFERPQYAEILADHPDAPMSQVYGAPHLLRLFVRIGAMLAYTPLDEKSLALLLN YLHDFLKYLA
NSATLFSASDYEVAPPEYHRKAV

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FIGURE 4281

GAACCGCCATCTTCCAGTAATTGCGCCAAAATGACGAACACAAAGGGAAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTGCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTGGAAGAGTCTATA
ATGTCCCCCAGCATGCTGTTGGCATTGTTGTAAACACACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAAATG
TGCGTATTGAGCACATTAAGCACTCTAAAAGCTGAGATAGTTTCCTGAAACACATGAAGGAAAATGATCAGAAAA
AGAAGGAAGCCAAATAGAAAGGTACCTGGGTTCAACAGAAGCACCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGCGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATGAATTCATGGCATAACAGGTGTTAATAA
ATAAATAAAAGACCTCTGGGCTGT

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FIGURE 4282

CTTTCTTTGCTGCGTCTACTGCGAGAATGAAGACTATTCTCAGCAATCAGACTGTGCGACATTCCAGAAAAATGTCG
ACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCCTGCGGAGGGACTTCAATCACATCA
ATGTAGAACTCAGCCTTCTTGGAAGAAAAAAGAGGCTCCGGGTTGACAAATGGTGGGGTAACAGAAAGGAAC
TGGCTACCGTTCGGACTATTTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAAGA
TGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATT
TCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAAAG
ATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTGAGCAAGCCACAACAG
TTAAAAACAAGGATATCAGGAAATTTTTGGATGGTATCTATGTCTCTGAAAAAGAAGATGCCAGATGACACT

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FIGURE 4283

CCTCTTTTACCAAGGACCCGCCAACATGGGCCGCGTTTCGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCAT
AGAAAAGTACTACACGCGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCGAGGAGATCGCCATTATCCC
CAGCAAAAAGCTCCGCAACAAGATAGCAGGTTATGTCACGCATCTGATGAAGCGAATTCAGAGAGGCCCAGTAAG
AGGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAGGAGAGACAATTATGTTCCCTGAGGTCTCAGCCTTGGA
TCAGGAGATTATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCT
TCAGGTCACTCAGCCTACAGTTGGGATGAATTTCAAAACGCCTCGGGGACCTGTTTGAATTTTTTCTGTAGTGCT
GTATTATTTTCAATAAATCTGGGACAACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4284

MGRVRTKTVKKAARVIEKYYTRLGNDFHTNKRVC EEIAIIPSKLRNKIAGYVTHLMKRIQRGPVRGISIKLQE
EERERRDNYVPEVSALDQEIEVDPDTKEMLKLLDFGSLSNLQVTQPTVGMNEKTPRGPV

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FIGURE 4285

CAGTGGCAGCATGGAACCTGCATTTTCATAGAGGAGATCTTCTCTTTCTAACAAATCGAGTTGAAGATCCCATACG
AGTGGGAGAAATTGTTGTTTTTAGGATAGAAGGAAGAGAGATTCCTATAGTTCACCGAGTCTTGAAGATTCATGA
AAAGCAAAATGGGCATATCAAGTTTTTGACCAAAGGAGATAATAATGCGGTTGATGACCGAGGCCTCTATAAACA
AGGACAACATTGGCTAGAGAAAAAGATGTTGTGGGGAGAGCCAGGGGATTGTTTCCTTATATTGGAATTGTGAC
GATCCTCATGAATGACTATCCTAAATTTAAGTATGCAGTTCTCTTTTTGCTGGGTTTATTCGTGCTGGTTCATCG
TGAGTAAGAAGCCTGCCTTGCTGTTCTGGGAAGATGCCATAGTTTTTCGTTACTGGATGTTTGGAGTAGATACTG
GTCTGTGATTGGTGGAATGGAGAACACACGTGTTGGTGCTTCTGGGTAGCACTGGTTTGCATTAGTTTATGTTTC
CATGCCAGAGTTTGTGTGGGCGGGCGCATGTGCACCACAGAGTGCACCTCGAGGGGACTTTCAGTCACAGGATTTTC
ATAATTGTCATTGTCACACTTTCAAATTTTTGTACATCAGTGAATTTTTTTATATTAAAAGGTTGAGCCAAAGCC
CCCAGTGTTTGTATTTTGAAGCCAAGCTTCACTTCTAAAGTGCTTACAGAGACTTGTAATGAAAATGCAGCTCT
GCACGAGTTTGAAACCGTCATACCTCCTTCTATTAGGAATGGCATATACTGAGGTGGTCGTAAGTCTTAACTTCT
AAAATTTTAAATAAAAAGACTTTGCACATTG

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FIGURE 4286

AATCCTTGCGCTTGTAATCGTACGGGGCTGGGACATGGGAGCTGGGCCTGGAGCTTGCCCTGGCGGGCGGATGGG
TGTGGGTGGAGGCACGTTGGGGATCCTGGTGCAGAGTGGGCCAGCTGTGGCCTCGGGGCTCGCCACCGTGGAGGA
CTCCGCCTGGGCCTAGGCCCCATCTCTAGGAAATGGCTCCTTCCTGCGTGCGCGCGTTGTGAGATTACTAGTAA
GAGCCGCGCTTGTAAGACGCAGTGCCAGTTAGTTTGCGCCAGCCTCTGAGTTCAGCTCAGAACACAGATGATC
TCATTGATTCCCTCACGTCAACCTTGGGAAATCTGGGTACCCCTGGGACGTCCACACATGAGGACCGAGGCTCAGGG
ACATCAAGGGACTGGCCTGGTCCCAGAAACAGGGAGTAAATGGGAAGTAACTCAGTCCCACGTCTGCCTGACT
CCAGAGTTTGGGCCACTGAACCATGCGGCTGCCATCTTGGAGTTCTTTGAGCTGTGAAGTGCTGTGCATCGTGTG
ATTCTGTGTCCCTTTTGTGTCAGGTACCAGGATTTCTATGCATTCGACCTGTCAGGAGCCACTCGAGTCCTTGAAT
GGATTGATGACAAAGGAGTCTTTGTTGCTGGCTATGAAAGCCTGAAAAAGAATGAAATTCTTCATCTGAAATTAC
CTCTCAGACTTTCTGTAAAGGAAAAACAAGGGCTTATTTCCAGAAAGAGATTTCAAAGTGCGCCATGGAGGATTTT
CAGACAGGTCTATCTTTGATCTAAAGCATGTGCCACATACCAGATTGCTGGTTACCAGTGGCCTTCCAGGTTGTT
ATCTGCAGGTGTGGCAGGTTGCAGAGGACAGTGGTGAGTGAATTTGACTTGATGGGGTTTGGGGTTCTAGGAAAG
TGTGACTCATACACCCCTGTCCCCTAATCTGAGCCAGTTAAGAAGGAGACTCAGGCTGGGGACAGTCTCATGCCT
GTAATTGTAGCACTTTGGGAGGCTGAGCTGGGTGGATCACTTGAATTCAGGAGTTGAAGACCACCTTGTACAACA
TGGTGAAACCTGTCTCTATTAAAAATACAAAAAATTAGCCGGGCATGGTGGTAGGCACCTGTAATCCCTGCTACT
GGGGAGACTGAGGCAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTACAGTGAGCCGAGATCATGCCACTGCAC
TCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCCAAAAAAAAGTAGTAGTAGACTCAGAGCCAGGTGGGAAT
TAATCTACTTTAATGC

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FIGURE 4287

CCGGAAGAGACACGCGGGGCTTCAGGCTGCTGCCCCATTGGAAGATTACTCCCCAGGCTTCCCTTGCCCCAAGCA
GTGAGCTGACTGGAATGGTACCCCGGGAGGCCCTGAGTCTGCTCAGTGCCTGTGCCCTTCCCTCACCATCCCAA
ATGCCAAGGATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGTTTCATGGCCCGGAAGGCCT
TGCTGCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCCCTCCCCACTGCCACCCCTTTTCGGGGCAG
CGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGCCCCATGCAGCAGAA
GGCCTGCTCCCGGGAAGCCTCAGGGCCCTTGCCCAGCAAGTGTGTGGCTATCGACTGTGAGATGGTGGGCACGG
GACCCCGAGGGCGGGTAAGCGAGCTGGCCCGCTGTTCCATTGTGAGCTACCATGGCAATGTCTCTATGACAAGT
ACATCAGGCCTGAGATGCCCATCGCTGACTACCGTACCCGCTGGAGTGGCATCACTCGGCAGCACATGCGCAAGG
CTGTCCCCCTTCCAGGTGGCCAGAAAGAGATCCTTAAGCTCCTGAAGGGCAAGGTGGTGGTGGGGCACGCGCTGC
ACAACGACTTCCAGGCGCTCAAGTATGTCCACCCCTCGGAGCCAGACCCGGGATACGACCTATGTCCCAAACCTTC
TCAGCGAGCCCCGGCCTCCACACCCGGGCCCCGGGTCTCTCTAAAGGACCTGGCCCTGCAGCTGCTGCACAAGAAGA
TCCAGGTGGGCCAGCACGGGCACTCATCAGTAGAAGATGCCACGACAGCCATGGAGCTCTACCGGCTGGTGGAGG
TGCAGTGGGAACAGCAGGAGGCCCGCAGCCTCTGGACCTGCCCCGAGGACAGAGAACCTGACAGCAGCACAGACA
TGGAACAGTACATGGAGGACCATCCACCCAGTACTGGGCTCTTAAGCAAAAGTCTGAGAAACAAGACAGTGGTTT
GAATTCTGGGGCCTTTGTGTAGGATTGTGCCTGACCTTTATTTATTTATTAACAGCAGGGCCACTCGTCTAGGGC
AGTGGAGTCTGCGTGTCTCCTGGGGCTGGGGCAGGGCATTGGCAGTTACGCAGTGGCCCTGAACCTGGTCTGGTG
CCCCCGAACCTGGTCTGATGCCCCCTCAGCTCTTTGACAATCACTGTGGCTGTTGGGTTTTCTCCTATTTCTAAA
AATGTTCTCTTTCTTTTCTTAAGTGACAGTTTTTGAAGTATTGGATAACCAAGAGCTCAGGTCACACAGACCTTGGAG
CCCCATCTTTGCTTGCAGCTTAGCTTTGAGATACTAAGCAAGCGAGGGACTTCACTCTTGAGGCTGTTTTTTCTCT
CATCTGTAAAGTGGGGATAGTGGTACGGCCTACCTCATAGGGTTGTAATGAGCACTAAATGTGAAGTGCTTGGCA
CAGTGCCTGGCACATGGTGAGCCACAGCTACTGTGAGTTTCTGTTTATCCCCCTTTTTTTTTTTAAGCCCATTG
TTTATTCTTTGAGAATTTGTTGTAACCTCTTCAGGATAACACCTGAGTCCACAGGCTGAGCAGCTGTGGCCAGAA
CAGAACTGCTCCGGCTTGGCTGTTCCAGCAGGTGGGGCGCTGGCCTCGGTGAGGGCACAGCAGCAAGGTTACGG
ATATCCGTGTGTCTTGTCTGTGGCCACCAGGCACAGGTTTGGCTTCCGGTCAGTGTCCCGACACTGTGCGGGAGG
TGACAACAGAGCAAAGCAGCGCAGGGGTCAGGGAGGTACAGACACTGCTGAAATCACACTACCCACCCTCAGCT
GAAGCCCCACGTTCCACAAACTTGGGGTCATAGATTGTCCAGTCACTGGCTCCCTCCCTGTCAGCACAGCACAGA
GGAAGGGGCTAACTGAATCTTTTACCACCTCTGGCCTGGCTCCAGAACTTTGTTCTAGATTCTTAAAAGTCGGT
AGCTGATGTCAAACCTCAATTGAGCAGTAGCTTTGATCCCTTGGTCTGGGGGTCGAAGGAAGATGGTGTGTTATC
AGCGGGGAAATGTACTATTTAAGATCAGCTTTGTTGTAAACCATTGTTCTAGAATAAACTCAATTGGAACG
TG

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FIGURE 4288

MVPREAPESAQCLCPSLTIPNAKDVLKRHKRRSRQHQRFMARKALLQEQGLLSMPPEPGSSPLPTPFGAATATE
AASSGKQCLRAGSGSAPCSRRPAPGKASGPLPSKCVAIDCEMVGTGPRGRVSELARCSIVSYHGNVLYDKYIRPE
MPIADYRTRWSGITRQHMRKAVPFQVAQKEILKLLKGKVVVGHALHNDFQALKYVHPRSQTRDTTYVPNFLSEPG
LHTRARVSLKDLALQLLHKKIQVGQHGHSVEDATTAMELYRLVEVQWEQQEARSLWTCPEDREPDSSDMEQYM
EDQYWPDDL AHGSRGGAREAQDRRN

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FIGURE 4289

CCAAATGCCAAGGATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGGTTTCATGGCCCCGGAAG
GCCTTGCTGCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCCTCCCCACTGCCCACCCCTTTCGGG
GCAGCGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGCCCCATGCAGC
AGAAGGCCTGCTCCCGGGAAAGCCTCAGGGCCCTTGCCCAGCAAGTGTGTGGCTATCGACTGTGAGATGGTGGGC
ACGGGACCCCGAGGGCGGGTAAGCGAGCTGGCCCGCTGTTCCATTGTGAGCTACCATGGCAATGTCCTCTATGAC
AAGTACATCAGGCCTGAGATGCCCATCGCTGACTACCTCTTCCTCCACTCATTGGGTTTCAGAATAAACATGTCC
TGAAGTTAAAGAGGAGTTAAGTCCTAAAGGAGGCATTTCTTCCCCACCTCCCTGACCTGGAACCTCTGGCTACAGC
CATTGTAGGAACTCCGTGCCTGGCCTGTCAGCTCCCTGCTAGGCTACAGTGGAATAGCAGAGCCCACAGGCTTCT
CGTGGGGAGTTGGCTCCTTAACATTTCTTGGCAACAGAAAGCCCCAGGCACAGCTCAGGGAGGAGGGAAGGCAGG
TAAGCTTTGGACGAGAACTGGCATATTTATTTTGACCCAAATCAGGGATTTCCTCCAGTCCACCCAGTACTGGGCT
CTTAAGCAAAAGTCTGAGAAAC

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FIGURE 4290

AGTCCCGGAAC TGCTAGAACGAACCATTTCGCATATGGAGGGGGTGACCCACCATCTCAGAACATTAAAAAAGGGA
AAGAATCCCCTGGTGAACTACAGTGAAAGTCTTATTGAGCATT TAAATGGAAATAAAAAATATTCAGTGACCTAA
TGAAGAGTAGATGACTTTCCCTTCTGTCCCCTCCCCGACAGGCACTCATGGTACCGGCGCCGGCGCAGCTGTGAC
TGTCGCTGCAGACGGAAACTGACTGGGGTCAATTCAAGTC ATGCAGGCTGTGAGAAACGCGGGGTGCGGGTTCCCT
GCGGTCCTGGACTTGGCCCCAGACAGCCGGCAGGGTCGTGGCCAGAACGCCGGCCGGGACCATCTGCACAGGCGC
TCGACAGCTCCAAGACGCTGCGGCCAAGCAGAAAGTTGAACAGAACGCGGCTCCCAGCCACACCAAGTTCAGCAT
TTACCCTCCCATTCCAGGAGAGGAGAGCTCTCTGAGGTGGGCAGGAAAGAAATTTGAGGAGATCCCAATTGCACA
CATTAAAGCATCCCACAACAACACACAGATCCAGGTAGTCTCTGCTAGTAATGAGCCCCCTTGCCTTTGCTTCCTG
TGGCACAGAGGGATTTGGAATGCCAAGAAGGGCACAGGCATCGCAGCACAGACAGCAGGCATAGCCGCAGCGGC
GAGAGCTAAACAAAAGGGCGTGATCCACATCCGAGTTGTGGTGAAAGGCCTGGGGCCAGGACGCTTGTCTGCCAT
GCACGGA CTGATCATGGGCGGCCTGGAAGTGATCTCAATCACAGACAACACCCCAATCCCACACAACGGCTGCCG
CCCCAGGAAGGCTCGGAAGCTG TGATGGGAAGGAGGCCTGCACCTGGACCTGACCTCAAGCCTCAGCTCCAGTGG
GACCTTGTA AATGCTCCCTGT CAGAGCTCTCCAGAATATGCTTGTGGAGATCCTTCAGGCAGTAAGGGAGAGT
TTTGCTCCTTACACAGTGGCCTTTGCTTGACCTCCAGCTGGAGATGGGTGTGCCCCAGAAGTAAGCTTTGCAT
CTCTTACAAGAGGGGAGCTACAGGGGCAGCCGTGGCCTAGGCCCAA ACTCTGCTCTGAGAAAATAAATATCTGTA
CCACCTGTCAA

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FIGURE 4291

MQAVRNAGSRFLRSWTWPQTAGRNVARTPAGTICTGARQLQDAAAKQKVEQNAAPSHTKFSIYPPPIPGEESSLRW
AGKKFEEIPIAHIKASHNNTQIQVVSASNEPLAFASCGTEGFRNAKKGTGIAAQTAGIAAAARAKQKGVIHIRVV
VKGLGPGRLSAMHGGLIMGGLEVISITDNTPIPHNGCRPRKARKL

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FIGURE 4292

TAATTTTTTGGCCAGTCTGCCTGTTGTGGGGCTCCTCCCTTTGGGGATATAAGCCCGGCTGGGGCTGCTCCGTT
CTCTGCCTGGCCTGAGGCTCCCTGAGCCGCTCCCCACCATCACCATGGCCAAGGGCTTCTATATTTCCAAGTCC
CTGGGCATCCTGGGGATCCTCCTGGGCGTGGCAGCCGTGTGCACAATCATCGCACTGTCAGTGGTGTACTCCCAG
GAGAAGAACAAGAACGCCAACAGCTCCCCCGTGGCCTCCACCACCCCGTCCGCCTCAGCCACCACCAACCCCGCC
TCGGCCACCACCTTGGACCAAAGTAAAGCGTGAATCGTTACCGCCTCCCCAACACGCTGAAACCCGATTCCCTAC
CGGGTGACGCTGAGACCGTACCTCACCCCAATGACAGGGGCTGTACGTTTTTAAGGGCTCCAGCACCGTCCGT
TTCACCTGCAAGGAGGCCACTGACGTCATCATCATCCACAGCAAGAAGCTCAACTACACCCTCAGCCAGGGCACA
GGGTGGTCTCTGCGTGGTGTGGGAGGCTCCCAGCCCCCGACATTGACAAGACTGAGCTGGTGGAGCCCACCGAGT
ACCTGGTGGTGCACCTCAAGGGCTCCCTGGTGAAGGACAGCCAGTATGAGATGGACAGCGAGTTCGAGGGGGAGT
TGGCAGATGACCTGGCGGGCTTCTACCGCAGCGAGTACATGGAGGGCAATGTCAGAAAGGTGGTGGCCACTACAC
AGATGCAGGCTGCAGATGCCCGGAAGTCTTCCCATGCTTCGATGAGCCGGCCATGAAGGCCGAGTTCAACATCA
CGCTTATCCACCCCAAGGACCTGACAGCCCTGTCCAACATGCTTCCCAAAGGTCCCAGCACCCCACTTCCAGAAG
ACCCCAACTGGAATGTCACTGAGTTCACACCACGCCCAAGATGTCCACGTACTTGCTGGCCTTCATTGTCACTG
AGTTCGACTACGTGGAGAAGCAGGCATCCAATGGTGTCTTGATCCGGATCTGGGGCCCGGCCAGTGCCATTGCGG
CGGGCCACGGCGATTATGCCCTGAACGTGACGGGCCCCATCCTTAACTTCTTTGCTGGTCAATTATGACACACCCCT
ACCCACTCCCCAAATCAGACCAGATTGGCCTGCCAGACTTCAACGCCCGGCCATGGAGAACTGGGGACTGGTGA
CCTACCGGGGAGAACTCCCTGCTGTTTCGACCCCTGTCTCTCCTCCAGCAGCAACAAGGAGCGGGTGGTCACTGTGA
TTGCTCATGAGCTGGCCCCACAGTGGTTCGGGAACCTGGTGACCATAGAGTGGTGAATGACCTGTGGCTGAACG
AGGGCTTCGCCTCCTACGTGGAGTACCTGGGTGCTGACTATGCGGAGCCACCTGGAACCTGAAAGACCTCATGG
TGCTGAATGATGTGTACCGCGTGATGGCAGTGGATGCACTGGCCTCCTCCACCCGCTGTCCACACCCGCCTCGG
AGATCAACACGCCGGCCCGAGATCAGTGAGCTGTTTGACGCCATCTCCTACAGCAAGGGCGCCTCAGTCTCAGGA
TGCTCTCCAGCTTCTGTCCGAGGACGTATTCAAGCAGGGCCTGGCGTCTACCTCCACACCTTXXXXXXXXXXXX
XXXGCTGTGAACAACCGGTCCATCCAATCCCCACCACCG
TGCGGGACATCATGAACCGCTGGACCCTGCAGATGGGCTTCCCGGTCAACGCTGGATAACCAGCACGGGGACCC
TTTCCCAGGAGCACTTCTCCTTGACCCCGATTCCAATGTTACCCGCCCTCAGAATTCAATGGATTGTGCCCAT
CACATCCATCAGAGATGGCAGACAGCAGCAGGACTACTGGCTGATAGATGTAAGAGCCAGAACGATCTCTTCAG
CACATCAGGCAATGAGTGGGTCTGTGAACCTCAATGTGACGGGCTATTACCGGTGAACTACGACGAAGAGAA
CTGGAGGAAGATTCACTCAGCTGCAGAGAGACCACTCGGCCATCCCTGTCATCAATCGGGCACAGATCATTAA
TGACGCCTTCAACCTGGCCAGTGCCCATAGGTCCCTGTCACTCTGGCGCTGAACAACACCCCTCTTCTGATTGA
AGAGAGACAGTACATGCCCTGGGAGGCCGCCCTGAGCAGCCTGAGCTACTTCAAGCTCATGTTTGACCGCTCCGA
GGTCTATGGCCCCATGAAGAACTACCTGAAGAAGCAGGTACACCCCTCTTCATTCACTTCAGAAATAATACCAA
CAACTGGAGGGAGATCCCAGAAAACCTGATGGACCAGTACAGCGAGGTTAATGCCATCAGCACCGCCTGCTCCAA
CGGAGTTCCAGAGTGTGAGGAGATGGTCTCTGGCCTTTTCAAGCAGTGGATGGAGAACCCCAATAATAACCCGAT
CCACCCCAACCTGCGGTCCACCGTCTACTGCAACGCTATCGCCAGGGCGGGGAGGAGGAGTGGGACTTCGCCTG
GGAGCAGTTCCGAAATGCCACACTGGTCAATGAGGCTGACAAGCTCCGGGCAGCCCTGGCCTGCAGCAAAGAGTT
GTGGATCCTGAACAGGTACCTGAGCTACACCCTGAACCCGGACTTAATCCGGAAGCAGGACGCCACCTCTACCAT
CATCAGCATTACCAACAACGTCATTGGGCAAGGTCTGGTCTGGGACTTTGTCCAGAGCAACTGGAAGAAGCTTTT
TAACGATTATGGTGGTGGCTCGTTCTCCTTCTCCAACCTCATCCAGGCAGTGACACGACGATTCTCCACCGAGTA
TGAGCTGCAGCAGCTGGAGCAGTTCAAGAAGGACAACGAGGAAACAGGCTTCGGCTCAGGCACCCGGGCCCTGGA
GCAAGCCCTGGAGAAGACGAAAGCCAACATCAAGTGGGTGAAGGAGAACAAGGAGGTGGTGTCCAGTGGTTTAC
AGAAAACAGCAAATAGTCCCCAGCCCTTGAAGTACCCGGCCCCCATGCAAGGTGCCACATGTGTCCATCCCAG
CGGCTGGTGCAGGGCCTCCATTCTGGAGCCCGAGGCACAGTGTCTCCTCCCTCAAGGACAAAGTCTCCAGCCCA
CGTTCTCTCTGCCTGTGAGCCAGTCTAGTTCCTGATGACCCAGGCTGCCTGAGCACCTCCCAGCCCTGCCCTC
ATGCCAACCCCGCCCTAGGCCTGGCATGGCACCTGTGCGCCAGTGCCTGGGGCTGATCTCAGGGAAGCCAGCT
CCAGGGCCAGATGAGCAGAAGCTCTCGATGGACAATGAACGGCCTTGCTGGGGGCCGCCCTGTACCCTCTTTTAC
CTTTCCCTAAAGACCCTAAATCTGAGGAATCAACAGGGCAGCAGATCTGTATATTTTTTTCTAAGAGAAAATGTA
AATAAAGGATTTCTAGATG

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FIGURE 4293

CCAGCGTTAGCCCGCGGCCAGGCAGCCGGGAGGAGCGGCGCGCGCTCGGACCTCTCCCGCCCTGCTCGTTCGCTC
TCCAGCTTGGGATGGCCGGCTACCTGCGGGTTCGTGCGCTCGCTCTGCAGAGCCTCAGGCTCGCGGGCCGGCCTGGG
CGCCGGCGGCCCTGACAGCCCCACCTCGCAAGAGCATCCGCGGCGCCACTATGCCGACAAAAGGATCAAGGTGG
CGAAGCCCGTGGTGGAGATGGATGGTGATGAGATGACCCGTATTATCTGGCAGTTCATCAAGGAGAAGCTCATCC
TGCCCCACGTGGACATCCAGCTAAAGTATTTTGACCTCGGGCTCCCAAACCGTGACCAGACTGATGACCAGGTCA
CCATTGACTCTGCACTGGCCACCCAGAAGTACAGTGTGGCTGTCAAGTGTGCCACCATCACCCCTGATGAGGCC
GTGTGGAAGAGTTCAAGCTGAAGAAGATGTGGAAAAGTCCCAATGGAACATCCGGAACATCCTGGGGGGGACTG
TCTTCCGGGAGCCCATCATCTGCAAAAACATCCCACGCCTAGTCCCTGGCTGGACCAAGCCCATCACCATTGGCA
GGCACGCCCATGGCGACCAAGTACAAGGCCACAGACTTTGTGGCAGACCGGGCCGGCACTTTCAAATGGTCTTCA
CCCCAAAAGATGGCAGTGGTGTCAAGGAGTGGGAAGTGTACAACTTTCCCGCAGGCGGCGTGGGCATGGGCATGT
ACAACACCGACGAGTCCATCTCAGGTTTTTGCGCACAGCTGCTTCCAGTATGCCATCCAGAAGAAATGGCCGCTGT
ACATGAGCACCAAGAACACCATACTGAAAGCCTACGATGGGCGTTTCAAGGACATCTTCCAGGAGATCTTTGACA
AGCACTATAAGACCGACTTCGACAAGAATAAGATCTGGTATGAGCACCGGCTCATTGATGACATGGTGGCTCAGG
TCCTCAAGTCTTCGGGTGGCTTTGTGTGGGCCTGCAAGAACTATGACGGAGATGTGCAGTCAGACATCCTGGCCC
AGGGCTTTGGCTCCCTTGGCCTGATGACGTCCGTCCCTGGTCTGCCCTGATGGGAAGACGATTGAGGCTGAGGCCG
CTCATGGGACCGTCAACCCGCCACTATCGGGAGCACCAAGGGCCGGCCACCAGCACCAACCCCATCGCCAGCA
TCTTTGCCTGGACACGTGGCCTGGAGCACCGGGGGAAGCTGGATGGGAACCAAGACCTCATCAGGTTTGCCCAGA
TGCTGGAGAAGGTGTGCGTGGAGACGGTGGAGAGTGGAGCCATGACCAAGGACCTGGCGGGCTGCATTCACGGCC
TCAGCAATGTGAAGCTGAACGAGCACTTCCTGAACACCATGGACTTCCTCGACACCATCAAGAGCAACCTGGACA
GAGCCCTGGGCAGGCAGTAGGGGGAGGCGCCACCCATGGCTGCAGTGGAGGGGCCAGGGCTGAGCCGGCGGGTCC
TCCTGAGCGCGGCAGAGGGTGAGCCTCACAGCCCCTCTCTGGAGGCCTTTCTAGGGGATGTTTTTTTATAAGCCA
GATGTTTTTAAAAGCATATGTGTGTTTCCCTCATGGTGACGTGAGGCAGGAGCAGTGCGTTTTTACCTCAGCCAG
TCAGTATGTTTTGCATACTGTAATTTATATTGCCCTTGGAACACATGGTGCCATATTTAGCTACTAAAAAGCTCT
TCACAAAAAATAACGGATTCCGCG

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FIGURE 4294

MAGYLRVVRSLCRASGSRPAWAPAALTAPTSQEHFRRHYADKRIKVAKPVVEMDGDDEMTRIIWQFIKEKLILPHV
DIQLKYFDLGLPNRDQTDQVTIDSALATQKYSVAVKCATITPDEARVEEFKLKKMWKSPNGTIRNILGGTVFRE
PIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVADRAGTFKMVFTPKDGSQVKEWEVYNFPAGGVGMGMNTD
ESISGFAHSCFYAIQKKWPLYMSTKNTILKAYDGRFKDIFQEIFDKHYKTDFDKNKIWEHRLIDDMVAQVLKS
SGGFVWACKNYDGDVQSDILAQGFGLMTSVLVCPDGKTIEAEEAHGTVTRHYREHQKGRPTSTNPIASIFAW
TRGLEHRGKLDGNQDLIRFAQMLEKVCVETVESGAMTKDLAGCIHGLSNVKLNEHFLNTMDFLDTIKSNLDRALG
RQ

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FIGURE 4295

AGAACCCCGCGGGGTCTGAGCAGCCCAGCGTGCCCATTCAGCGCCCGCGTCCCCGCAGCATGCCGCGCCCCCGC
CTGCTGGCCGCGCTGTGCGGCGCGCTGCTCTGCGCCCCCAGCCTCCTCGTCGCCCTGGATATCTGTTCCAAAAAC
CCCTGCCACAACGGTGGTTTATGCGAGGAGATTTCCCAAGAAGTGCAGGAGATGTCTTCCCCTCGTACACCTGC
ACGTGCCTTAAGGGCTACGCGGGCAACCACTGTGAGACGAAATGTGTGAGCCACTGGGCCTGGAGAATGGGAAC
ATTGCCAACTCACAGATCGCCGCCTCGTCTGTGCGTGTGACCTTCTTGGGTTTGCAGCATTGGGTCCCGGAGCTG
GCCCCCTGAACCGCGCAGGCATGGTCAATGCCTGGACACCCAGCAGCAATGACGATAACCCCTGGATCCAGGTG
AACCTGCTGCGGAGGATGTGGGTAAACAGGTGTGGTGACGCAGGGTGCCAGCCGCTTGGCCAGTCATGAGTACCTG
AAGGCCTTCAAGGTGGCCTACAGCCTTAATGGACACGAATTCGATTTTCATCCATGATGTTAATAAAAAACACAAG
GAGTTTGTGGGTAACTGGAACAAAAACGCGGTGCATGTCAACCTGTTTGAGACCCCTGTGGAGGCTCAGTACGTG
AGATTGTACCCACAGAGCTGCCACACGGCCTGCACTCTGCGCTTTGAGCTACTGGGCTGTGAGCTGAACGGATGC
GCCAATCCCCTGGGCCTGAAGAATAACAGCATCCCTGACAAGCAGATCACGGCCTCCAGCAGCTACAAGACCTGG
GGCTTGCACTCTCTTCAGCTGGAACCCCTCCTATGCACGGCTGGACAAGCAGGGCAACTTCAACGCCTGGGTTGCG
GGGAGCTACGGTAACGATCAGTGGCTGCAGGTGGACCTGGGCTCCTCGAAGGAGGTGACAGGCATCATCACCCAG
GGGCCCCGTAACCTTTGGCTCTGTCCAGTTTGTGGCATCCTACAAGGTTGCTTACAGTAATGACAGTGCGAAGTGG
ACTGAGTACCAGGACCCCAGGACTGGCAGCAGTAAGATCTTCCCTGGCAACTGGGACAACCACTCCCACAAGAAG
AACTTGTTTGAGACGCCCATCCTGGCTCGCTATGTGCGCATCCTGCCTGTAGCCTGGCACAACCGCATCGCCCTG
CGCCTGGAGCTGCTGGGCTGTTAGTGGCCACCTGCCACCCCCAGGTCTTCTGCTTTCCATGGGCCCCGCTGCCTC
TTGGCTTCTCAGCCCCCTTTAAATCACCATAGGGCTGGGGACTGGGGAAGGGGAGGGTGTTCAGAGGCAGCACCCAC
CACACAGTCACCCCTCCCTCCCTCTTTCCCACCCCTCCACCTCTCACGGGCCCTGCCCCAGCCCCCTAAGCCCCGTC
CCCTAACCCCCAGTCCTCACTGTCTGTTTCTTAGGCACTGAGGGATCTGAGTAGGTCTGGGATGGACAGGAAA
GGGCAAAGTAGGGCGTGTGGTTTCCCTGCCCTGTCCGGACCGCCGATCCCAGGTGCGTGTGTCTGTCTCTCTCC
TAGCCCTCTCTCACACATCACATTCCCATGGTGGCCTCAAGAAAGGCCCGGAAGCGCCAGGCTGGAGATAACAG
CCTCTTGCCCGTCGGCCCTGCGTCGGCCCTGGGGTACCATGTGGCCACAACCTGCTGTGGCCCCCTGTCCCAAGA
CACTTCCCCTTGTCTCCCTGGTTGCCCTCTCTTGGCCCTTGTCTGAAGCCCAGCGACACAGAAGGGGGTGGGGCG
GGTCTATGGGGAGAAAGGGAGCGAGGTGAGAGGAGGCATGGGTTGGCAGGGTGGGCGTTTGGGGCCCTCTATGC
TGGCTTTTCACCCCAGAGGACACAGGCAGCTTCCAAAATATATTTATCTTCTTCACGGG

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FIGURE 4296

GGCCGCGCGTCCCAGAGAGCCAGCCCCGCGCCGCTCGCGGGGAAGTGCCGCCTGGTGGGGTCACGGCGCCTGAA
GCCCACGTGCGCCGCCGAGCCGAGGTGGCTCGAGCGCGCGGCTGACAGCACAGCCCGCCTGAGCTGCCTCCC
GCGCTCCTCCCCGAGGAAAGGATTTTGATTTCAAAGAAAGGAAGGAAGGACAACCTCCCAGCTTCCCCGTCC
CGCCCTCCCCGCTCCGAGGGCCGCGCCAGGCCATGCCCAAGAAGGCGGCGGCGGCGGCGAACCAGCAGAAGGGAC
TTTCCTGGCAGCCCGGCGACGAGGAGCGCGGACAGTGAGTTTGCTCTGCCCCGGTTCATGGTTCTGCAAGCCCT
CTAGGAGGCCGAAAGCTGCAGCCCCCTCCCCTTGCCCCGAAGAGCCTTCCGCGTTCTCTCGCCCTCGGGCCCCACCC
CGCGCCGCCCCGGGCTCCCGCCGCCGAGCCAGTGCCCTCTGCCCCGCGGCGGTGGATGGCATGATGGTGCGGGGA
AGGCACGCGCGCCTTGGCCAGCTGAGTCGCGACGGCCGCCGGGGCGGCGGCAGTGGCCGCGGCAGCGGCGGTTGGT
AGCGGGCTCCCCAGCGGCATGCCAGTGCCCCCGGGCGCG**ATG**CTAGCGGCAGCGCCGGGAAGCCCACTGGCGA
GGCGGCTTCTCCGGCTCCTGCGAGCGCCATCGGCGGGGCCAGCTCGCAGCCGCGGAAGAGGCTGGTATCCGTCTG
CGACCACTGCAAGGGCAAGATGCAGCTGGTGGCTGACCTGCTGCTGCTGTCGAGCGAGGCGCGGCCCGTGCTCTT
CGAGGGCCCCGCCTCCTCTGGTGCCGGCGCCGAGTCCTTCGAGCAGTGCCGGGACACCATCATCGCGCGCACCAA
GGGGCTCTCCATCCTCACCCACGACGTGCAGAGCCAGCTCAACATGGGCCGCTTCGGGGAGGCGGGGGACAGCCT
GGTGGAGCTGGGCGACCTGGTGGTGTGCTGACCGAGTGCTCGGCCCCACGCGGCCTATCTGGCCGCTGTGGCCAC
GCCGGGCGCCAGCCCGCGCAGCCGGGCTGGTGGACCGCTACCGCGTGACGCGATGCCGCCACGAGGTGGAGCA
GGGTTGCGCCGTGCTGCGCGCCACGCCGCTGGCCGACATGACGCCGAGCTGCTGCTGGAGGTGTGCGAGGGCCT
GTCGCGCAACCTCAAGTTCTGACGGACGCGTGCGCCCTGGCCAGTGACAAGTCACGGGACCGCTTTTCGCGGGA
GCAGTTCAAGCTGGGCGTCAAGTGCATGAGCACCAGCGCGTCGGCGCTGCTGGCCTGCGTGCGCGAGGTGAAGGT
GGCGCCAGTGAGCTGGCGCGCAGCCGCTGTGCGCTCTTCAGCGGGCCCCCTGGTGACGGCAGTGAGCGCCCTGGT
AGGCTTCGCCACCGAGCCGAGTTCCTGGGTGCGCGGCGAGCTGTGAGCGCCGAGGGCAAGGCGGTGCAGACCGC
CATCCTGGGCGGCGCCATGAGCGTGGTGTGCGCCTGCGTGCTCCTGACCCAGTGCCCTCAGGGATCTGGCGCAGCA
CCCCGACGGGGGCGCCAAGATGTCGACCACAGGGAGAGGCTGAGGAACTCGGCCTGCGCCGTGTCTGAAGGCTG
CACCTGCTATCTCAGGCTTTAAGGGAGAGGTCTTCGCCCAGGACTTTACCGCCAGTGAATTCCAATTCTGTGAA
TAGCACCCACCCCCATAACCCCTTCTTCCACCCCCAGACTAAAGGAAGATACTTACTCTCTGCCCCCTCTCCATT
TATACCAAAGAAATCATAGGTGAAACCCCTACCCCTCCCCAACGTTAAATGCTCGAGAGGAATCTTCCACAAGGC
AGGGCCATGCACGCAACCTGCACACGCACTTGGAGGGCCAGGTGTCTCTCCACCAGCCCCCATGCAGTAGGGAC
TGGAAGATATGTCATCTGCTGGTTGTGTTATCACTCCACCCCTACCCAGCCCGTCTTCCGGAATTTCTCAAC
TAAATTTCAATTATTGGGCAGGAAGGAGGTCATGGGTTCAATTCATTTTTGTGTTTTTAAATTAAGAA
AGGTTACCTCAGTTTTTACTCCTTAGACATGGATGTAGCTACCTTTTTTTGTATGCTTTTTTTTTTAAGCAAT
CGTGTGAATTAGGAGTATACTTGGTGAGGAAAGAGTATGAATTTGCCATGTGATTGCAAATGGGGGGAAGCTA
CTGTGAGCGTGTGTTTTTTAATTTACACTATAGAGTGATTTTTTTTCCCCAACGTCAAGTTTTTACCTTGCA
GTACTGGAGTATTTATTTATCTATTAAATGTTATGTTTCTCAGAAAAAACCTCGTGGCGAATCTTGGCCTC
GAGGGCCAAAT

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FIGURE 4297

MASGSAGKPTGEAASPAPASAIGGASSQPRKRLVSVCDHCKGKMQLVADLLLLSSEARPVLFEGPASSGAGAESF
EQCRDTIIARTKGLSILTHDVQSQLNMGRFGEAGDSLVELGDLVVSLTECSAHAAYLAAVATPGAQPAQPGLVDR
YRVTRCRHEVEQGCAVLRATPLADMTPQLLLEVSQGLSRNLKFLTDACALASDKSRDRFSREQFKLGVKCMSTSA
SALLACVREVKVAPSELARSCALFSGPLVQAVSALVGFATEPQFLGRAAAVSAEGKAVQTAILGGAMSVVSACV
LLTQCLRDLAQHFPDGGAKMSDHRERLRNSACAVSEGCTLLSQALRERSSPRTLPPVNSNSVN

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FIGURE 4298A

GAGCTAGCGCTCAAGCAGAGCCCAGCGCGGTGCTATCGGACAGAGCCTGGCGAGCGCAAGCGGCGCGGGGAGCCA
GCGGGGCTGAGCGCGGCCAGGGTCTGAACCCAGATTTCCAGACTAGCTACCACTCCGCTTGCCACGCCCCGGG
AGCTCGCGGCGCCTGGCGGTGACGACAGACGTCCGGGGCCGCTGCGCTCCTGGCCCGGAGGCGTGACACTGT
CTCGGCTACAGACCCAGAGGGAGCACACTGCCAGGATGGGAGCTGCTGGGAGGCAGGACTTCCTCTTCAAGGCCA
TGCTGACCATCAGCTGGCTCACTCTGACCTGCTTCCCTGGGGCCACATCCACAGTGGCTGCTGGGTGCCCTGACC
AGAGCCCTGAGTTGCAACCCTGGAACCCTGGCCATGACCAAGACCACCATGTGCATATCGGCCAGGGCAAGACAC
TGCTGCTCACCTCTTCTGCCACGGTCTATTCCATCCACATCTCAGAGGGAGGCAAGCTGGTCATTAAAGACCACG
ACGAGCCGATTGTTTTGCGAACC CGGCACATCCTGATTGACAACGGAGGAGAGCTGCATGCTGGGAGTGCCCTCT
GCCCTTTCCAGGGCAATTTACCATCATTTTGTATGGAAGGGCTGATGAAGGTATTAGCCGGATCCTTACTATG
GTCTGAAGTACATTGGGGTTGGTAAAGGAGGCGCTCTTGAGTTGCATGGACAGAAAAAGCTCTCCTGGACATTTT
TGAACAAGACCCTTCACCCAGGTGGCATGGCAGAAGGAGGCTATTTTTTTGAAAGGAGCTGGGGCCACCGTGGAG
TTATTGTTTCATGTCATCGACCCCAAATCAGGCACAGTCATCCATTCTGACCGGTTTGACACCTATAGATCCAAGA
AAGAGAGTGAACGTCTGGTCCAGTATTTGAACGCGGTGCCCCGATGGCAGGATCCTTTCTGTTGCAGTGAATGATG
AAGGTTCTCGAAATCTGGATGACATGGCCAGGAAGGCGATGACCAATTTGGGAAGCAAACACTTCCTGCACCTTG
GATTTAGACACCCTTGAGTTTTTCTAACTGTGAAAGGAAATCCATCATCTTCAGTGAAGACCATATTGAATATC
ATGGACATCGAGGCTCTGCTGCTGCCCGGGTATTCAAATTTGTTCCAGACAGAGCATGGCGAATATTTCAATGTTT
CTTTGTCCAGTGAGTGGGTTCAAGACGTGGAGTGGACGGAGTGGTTTCGATCATGATAAAGTATCTCAGACTAAAG
GTGGGGAGAAAAATTCAGACCTCTGGAAAGCTCACCCAGGAAAAATATGCAATCGTCCCATTTGATATACAGGCCA
CTACAATGGATGGAGTTAACCTCAGCACCGAGGTTGTCTACAAAAAAGGCCAGGATTATAGGTTTGCTTGCTACG
ACCGGGGCGAGAGCCTGCCGGAGCTACCGTGTACGGTTCTCTGTGGGAAGCCTGTGAGGCCCAAACCTCACAGTCA
CCATTGACACCAATGTGAACAGCACCATTCTGAACCTTGGAGGATAATGTACAGTCATGGAAACCTGGAGATACCC
TGGTCAATTGCCAGTACTGATTACTCCATGTACCAGGCAGAAGAGTTCAGGTGCTTCCCTGCAGATCCTGCGCCC
CCAACCAGGTCAAAGTGGCAGGGAAACCAATGTACCTGCACATCGGGGAGGAGATAGACGGCGTGGACATGCGGG
CGGAGGTTGGGCTTCTGAGCCGGAACATCATAGTGATGGGGGAGATGGAGGACAAATGCTACCCCTACAGAAACC
ACATCTGCAATTTCTTTGACTTCGATACCTTTGGGGGCCACATCAAGTTTGCTCTGGGATTTAAGGCAGCACACT
TGGAGGGCACGGAGCTGAAGCATATGGGACAGCAGCTGGTGGGTGAGTACCCGATTCACTTCCACCTGGCCGGTG
ATGTAGACGAAAGGGGAGGTTATGACCCACCCACATACATCAGGGACCTCTCCATCCATCATACATTCTCTCGCT
GCGTCACAGTCCATGGCTCCAATGGCTTGTTGATCAAGGACGTTGTGGGCTATAACTCTTTGGGCCACTGCTTCT
TCACGGAAGATGGGCCGGAGGAACGCAACACTTTTGACCACTGTCTTGCCCTCCTTGTCAGTCTGGAACCCTCC
TCCCCTCGGACCGTGACAGCAAGATGTGCAAGATGATCAGAGGACTCCTACCCGGGGTACATCCCCAAGCCCCA
GGCAAGACTGCAATGCTGTGTCCACCTTCTGGATGGCCAATCCCAACAACCTCATCAACTGTGCCGCTGCAG
GATCTGAGGAAACTGGATTTTGGTTTATTTTTTACCACGTACCAACGGGGCCCCCTCCGTGGGAATGTACTCCCCAG
GTTATTTCAGAGCACATTCCACTGGGAAAATTTCTATAACAACCGAGCACATTCCAACCTACCGGGCTGGCATGATCA
TAGACAACGGAGTCAAAACCACCGAGGCCTCTGCCAAGGACAAGCGGCCGTTTCTCTCAATCATCTCTGCCAGAT
ACAGCCCTCACCAGGACGCCGACCCGCTGAAGCCCCGGGAGCCGGCCATCATCAGACACTTCATTGCCTACAAGA
ACCAGGACCACGGGGCCTGGCTGCGCGGCGGGGATGTGTGGCTGGACAGCTGCCGTTTGCTGACAATGGCATTG
GCCTGACCCTGGCCAGTGGTGGAACCTTCCCCTATGACGACGGCTCCAAGCAAGAGATAAAGAACAGCTTGTTTG
TTGGCGAGAGTGGCAACGTGGGGACGGAAATGATGGACAATAGGATCTGGGGCCCTGGCGGCTTGGACCATAGCG
GAAGGACCCTCCCTATAGGCCAGAATTTTCCAATTAGAGGAATTCAGTTATATGATGGCCCCATCAACATCCAAA
ACTGCACTTTCCGAAAGTTTGTGGCCCTGGAGGGCCGGCACACCAGCGCCCTGGCCTTCCGCCTGAATAATGCCT
GGCAGAGCTGCCCCATAACAACGTGACCGGCATTGCCTTTGAGGACGTTCCGATTACTTCCAGAGTGTTCTTCG
GAGAGCCTGGGCCCTGGTTCAACCAGCTGGACATGGATGGGGATAAGACATCTGTGTTCATGACGTCGACGGCT
CCGTGTCCGAGTACCCTGGCTCCTACCTCAGGAAGAATGACAACCTGGCTGGTCCGGCACCCAGACTGCATCAATG
TTCCCGACTGGAGAGGGGCCATTTGCAGTGGGTGCTATGCACAGATGTACATTCAAGCCTACAAGACCAGTAACC
TGCGAATGAAGATCATCAAGAATGACTTCCCCAGCCACCCTCTTTACCTGGAGGGGGCGCTCACCAGGAGCACC
ATTACCAGCAATACCAACCGGTTGTACCCCTGCAGAAGGGCTACACCATCCACTGGGACCAGACGGCCCCCGCG
AACTCGCCATCTGGCTCATCAACTTCAACAAGGGCGACTGGATCCGAGTGGGGCTCTGCTACCCGCGAGGCACCA
CATTCTCCATCCTCTCGGATGTTTCAATCGCCTGCTGAAGCAAACGTCCAAGACGGGCGTCTTCGTGAGGACCT

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FIGURE 4298B

TGCAGATGGACAAAAGTGGAGCAGAGCTACCCTGGCAGGAGCCACTACTACTGGGACGAGGACTCAGGGCTGTTGT
TCCTGAAGCTGAAAGCTCAGAACGAGAGAGAGAAGTTTGCTTTCTGCTCCATGAAAGGCTGTGAGAGGATAAAGA
TTAAAGCTCTGATTCCAAAGAAGCGCAGGCGTCAGTGACTGCACAGCCACAGCTTACCCCAAGTTCACCGAGAGGG
CTGTCGTAGACGTGCCGATGCCCAAGAAGCTCTTTGGTTCTCAGCTGAAAACAAAGGACCATTCTTGGAGGTGA
AGATGGAGAGTTCCAAGCAGCACTTCTTCCACCTCTGGAACGACTTCGCTTACATTGAAGTGGATGGGAAGAAGT
ACCCAGTTCGGAGGATGGCATCCAGGTGGTGGTGATTGACGGGAACCAAGGGCGCGTGGTGAGCCACACGAGCT
TCAGGAATCCATTCTGCAAGGCATACCATGGCAGCTTTTCAACTATGTGGCGACCATCCCTGACAATTCCATAG
TGCTTATGGCATCAAAGGGAAGATACGTCTCCAGAGGCCCATGGACCAGAGTGCTGGAAAAGCTTGGGGCAGACA
GGGGTCTCAAGTTGAAAGAGCAAATGGCATTTCGTTGGCTTCAAAGGCAGCTTCCGGCCCATCTGGGTGACACTGG
ACACTGAGGATCACAAAGCCAAAATCTTCCAAGTTGTGCCCATCCCTGTGGTGAAGAAGAAGAAGTTG**TGAGG**AC
AGCTGCCGCCCCGGTGCCACCTCGTGGTAGACTATGACGGTGACTCTTGGCAGCAGACCAGTGGGGGATGGCTGGG
TCCCCCAGCCCCCTGCCAGCAGCTGCCTGGGAAGGCCGTGTTTCAGCCCTGATGGGCCAAGGGAAGGCTATCAGAG
ACCCTGGTGCTGCCACCTGCCCCTACTCAAGTGTCTACCTGGAGCCCCCTGGGGCGGTGCTGGCCAATGCTGGAAA
CATTCACTTTCTGTCAGCCTCTTGGGTGCTTCTCTCTCTATCTGTGCCCTCTTCAAGTGGGGGTTTGGGGACCATATC
AGGAGACCTGGGTTGTGCTGACAGCAAAGATCCACTTTGGCAGGAGCCCTGACCCAGCTAGGAGGTAGTCTGGAG
GGCTGGTCATTACAGATCCCCATGGTCTTTCAGCAGACAAGTGAGGGTGGTAAATGTAGGAGAAAGAGCCTTGCC
CTTAAGGAAATCTTTACTCCTGTAAGCAAGAGCCAACCTCACAGGATTAGGAGCTGGGGTAGAACTGGCTATCCT
TGGGGAAGAGGCAAGCCCTGCCCTTGCCCGTGTCCACCTTTTCAGGAGACTTTGAGTGGCAGGTTTGGACTTGAC
TAGATGACTCTCAAAGGCCCTTTTAGTTCTGAGATTCCAGAAATCTGCTGCATTTACATGGTACCTGGAACCCA
ACAGTTCATGGATATCCACTGATATCCATGATGCTGGGTGCCCCAGCGCACACGGGATGGAGAGGTGAGAATAA
TGCCTAGCTTGAGGGGTCTGCAGTCCAGTAGGGCAGGCAGTCAGGTCCATGTGCACTGCAATGCCAGGTGGAGAA
ATCACAGAGAGGTAAAATGGAGGCCAGTGCCATTTTCAGAGGGGAGGCTCAGGAAGGCTTCTTGCTTACAGGAATG
AAGGCTGGGGGCATTTTGCTGGGGGGAGATGAGGCAGCCTCTGGAATGGCTCAGGGATTACGCCCTCCCTGCCGC
TGCCTGCTGAAGCTGGTGACTACGGGGTGCCTTTTGCTCACGTCTCTCTGCCCCACTCATGATGGAGAAGTGTG
GTCAGAGGGGAGCAATGGGCTTTGCTGCTTATGAGCACAGAGGAATTCAGTCCCCAGGCAGCCCTGCCTCTGACT
CCAAGAGGGTGAAGTCCACAGAAGTGAGCTCCTGCCTTAGGGCCTCATTGCTCTTCATCCAGGGAAGTGGAGCAC
AGGGGGCCTCCAGGAGACCCTAGATGTGCTCGTACTCCCTCGGCCTGGGATTTTCAGAGCTGGAATATAGAAAAT
ATCTAGCCCAAAGCCTTCATTTTAACAGATGGGGAAAGTGAGCCCCCAAGATGGGAAAGAACCACACAGCTAAGG
GAGGGCCTGGGGAGCCCCACCCTAGCCCTTGCTGCCACACCACATTGCCTCAACAACCGGCCCCAGAGTGCCAG
GCACTCCTGAGGTAGCTTCTGGAATGGGGACAAGTCCCCTCGAAGGAAAGGAAATGACTAGAGTAGAATGACAG
CTAGCAGATCTCTTCCCTCCTGCTCCCAGCGCACACAAACCCGCCCTCCCTTGGTGTTGGCGGTCCCTGTGGCC
TTCATTTGTTCACTACCTGTGAGCCAGCCTGGGTGCACAGTAGCTGCAACTCCCCATTGGTGCTACCTGGCTC
TCCTGTCTCTGAGCTCTACAGGTGAGGCCAGCAGAGGGAGTAGGGCTCGCCATGTTTCTGGTGAGCCAATTTG
GCTGATCTTGGGTGTCTGAACAGCTATTGGGTCCACCCAGTCCCTTTTCAGCTGCTGCTTAATGCCCTGCTCTCT
CCCTGGCCACCTTATAGAGAGCCCAAAGAGCTCCTGTAAGAGGGAGAACTCTATCTGTGGTTTATAATCTTGCA
CGAGGCACCAGAGTCTCCCTGGGTCTTGTGATGAACTACATTTATCCCTTTTCTGCCCCAACCAAACTCTTT
CCTTCAAAGAGGGCCTGCCTGGCTCCCTCCACCCAACTGCACCCATGAGACTCGGTCCAAGAGTCCATTCCCCAG
GTGGGAGCCAAGTGTGAGGGAGGTCTTTCCACCAAACATCTTTTCAGCTGCTGGGAGGTGACCATAGGGCTCTGC
TTTTAAAGATATGGCTGCTTCAAAGGCCAGAGTCACAGGAAGGACTTCTTCCAGGGAGATTAGTGGTGATGGAGA
GGAGAGTTAAATGACCTCATGTCTTCTTGTCCACGGTTTTTGTGAGTTTTCACTCTTCTAATGCAAGGGTCTC
ACACTGTGAACCACTTAGGATGTGATCACTTTCAGGTGGCCAGGAATGTTGAATGTCTTTGGCTCAGTTCATTTA
AAAAAGATATCTATTTGAAAGTTCTCAGAGTTGTACATATGTTTCACAGTACAGGATCTGTACATAAAAGTTTCT
TTCCTAAACCATTACCAAGAGCCAATATCTAGGCATTTTCTTGGTAGCACAAATTTCTTATTGCTTAGAAAAT
TGTCTCTTTTCTGTTTGTGTAAGACTTAAGTGAGTTAGGTCTTTAAGGAAAGCAACGCTCCTCTGAAATG
CTTGTCTTTTTCTGTTGCCGAAATAGCTGGTCCTTTTTCGGGAGTTAGATGTATAGAGTGTTTGTATGTAAACA
TTTCTGTAGGCATCACCATGAACAAAGATATTTTCTATTTATTTATTATATGTGCACTTCAAGAAGTCACTG
TCAGAGAAATAAAGAATTGTCTTAAATGTC

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FIGURE 4299

MGAAGRQDFLFKAMLTISWLTLTCTFPGATSTVAAGCPDQSPELQPWNPGHDQDHHVHIGQGKTLTSSATVYSI
HISEGGKLVIKDHDEPIVLRTRHILIDNGGELHAGSALCPFQGNFTIILYGRADEGIQPDPIYGLKYIGVGKGA
LELHGQKKLSWTFLNKTLHPGGMAEGGYFFERSWGHGRGVIVHVIDPKSGTVIHSDRFDITYRSKKESERLVQYLNA
VPDGRILSVAVNDEGSRNLDDMARKAMTKLGSKHFLHLGFRHPWSFLT VKGNPSSSVEDHIEYHGHRGSAAARVF
KLFQTEHGEYFNVSLSSSEWVQDVEWTEWFDHDKVSQTKGGEKISDLWKAHPGKICNRPIDIQATTMDGVNLSTEV
VYKKGQDYRFACYDRGRACRSYRVRF LCGKPVRPKLTVTIDTNVNSTILNLEDNVQSWKPGDTLVIASDYSMYQ
AEEFQVLP CRSCAPNQVKVAGKPMY L HIGEEIDGVDMRAEVGLLSRNII VMGEMEDKCYPYRNHICNFFDFTFG
GHIKFALGFKAHLEGTELKHMGGQLVGQYPIHFHLAGDVDERGGYDPPTYIRDLSIHHTFSRCVTVHGSNGLLI
KDVVGYNLGHCFFTEDGPEERNTFDHCLGLLVKSGTLLPSDRDSKMCKMITEDSYPGYIPKPRQDCNAVSTFWM
ANPNNNLINCAAAGSEETGFWFIFHHVPTGPSVGMYS PGYSEHIPLGKFYNNRAHSNYRAGMIIDNGVKTTEASA
KDKRPFLSII SARYSPHQDADPLKPREPAIIRHFIAYKNQDHGAWLRGGDVWLDSCR FADNGIGLTLASGGTFPY
DDGSKQEIKNSL FVGESGNVGTMMDNRIWGP GGLDHSGRTLPIGQNFPIRGIQLYDGPINIQNCTFRKFVALEG
RHTSALAFRLNNAWQSCPHNNVTGIAFEDVPITSRVFFGEPGPWFNQLDMDGDKTSVFHDVDGGSVSEYPGSYLTK
NDNWLVRHPDCINVPDWRGAICSGCYAQMYIQAYKTSNLRMKIIKNDFP SHPLYLEGALTRSTHYQQYQPVVTLQ
KGYTIHWDQTAPAE LAIWLINFNKGDWIRVGLCYPRGTTFSILSDVHNRLKQTSKTGVFVRTLQMDKVEQSYPG
RSHYYWDEDSGLLFLKLKAQNEREKFAFCSMKG CERIKIKALIPKNAGVSDCTATAYPKFTERAVVDVPM PKLF
GSQLKTKDHFLEV KMESSQHFFHLW NDFAYIEVDGKKYPSSSEDGIQVVVIDGNQGRVVSHTSFRNSILQGIPWQ
LFNYVATIPDNSIVLMASKGRYVSRGPWTRVLEKL GADRGLKLKEQMAFVGFKGSFRPIWVTLDTEDHKAKIFQV
VP I PVVKKKKL

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FIGURE 4300

AGTCCTGCTCTCCGCACGCCACCTTAGGCCCCGAGCCGTGCCGGGTGCTCTTCAGCATGTCCCTTCATCCCGGTGG
CCGAGGATTCCGACTTCCCCATCCACAACCTGCCCTACGGCGTCTTCTCGACCAGAGGCGACCCAAGACCGAGGA
TAGGTGTGGCCATTGGCGACCAGATCCTGGACCTCAGCATCATCAAGCACCTCTTTACTGGTCCTGTCTCTCCA
AACACCAGGATGTCTTCAATCAGCCTACACTCAACAGCTTCATGGGCCTGGGTGAGGCTGCCTGGAAGGAGGCGA
GAGTGTCTTTCAGAACTTGCTGTCTGTGAGCCAAGCCAGGCTCAGAGATGACACCGAACTTCGGAAGTGTGCAT
TCATCTCCCAGGCTTCTGCCACGATGCACCTTCCAGCCACCATAGGAGACTACACAGACTTCTATTCTCTCGGC
AGCATGCTACCAACGTCGGAATCATGTTTCAGGGACAAGGAGAATGCGTTGATGCCAAATTGGCTGCACTTACCAG
TGGGCTACCATGGCCGTGCCTCCTCTGTCTGTGGTGTCTGGCACCCCAATCCGAAGGCCCATGGGACAGATGAAAC
CTGATGACTCTAAGCCTCCCGTATATGGTGCCTGCAAGCTCTTGACATGGAGCTGGAAATGGCTTTTTTTGTAG
GCCCTGGAAACAGATTGGGAGAGCCGATCCCCATTTCCAAGGCCCATGAGCACATTTTGGAAATGGTCCTTATGA
ACGACTGGAGTGCACGAGACATTCAGAAGTGGGAGTATGTCCCTCTCGGGCCATTCTTGGAAGAGTTTTGGGA
CCACTGTCTCTCCGTGGGTGGTGCCCATGGATGCTCTCATGCCCTTTGCTGTGCCCAACCCGAAGCAGGACCCCA
GGCCCCGTGCCGTATCTGTGCCATGACGAGCCCTACACATTTGACATCAACCTCTCTGTTAACCTGAAAGGAGAAG
GAATGAGCCAGGCGGCTACCATATGCAAGTCCAATTTTAAGTACATGTACTGGACGATGCTGCAGCAGCTCACTC
ACCACTCTGTCAACGGCTGCAACCTGCGGCCGGGGGACCTCCTGGCTTCTGGGACCATCAGCGGGCCGGAGCCAG
AAAACCTTCGGCTCCATGTTGGAAGTGTCTGTGAAGGGAACGAAGCCCATAGACCTGGGGAATGGTCAGACCAGGA
AGTTTCTGCTGGACGGGGATGAAGTCATCATAACAGGGTACTGCCAGGGGGATGGTTACCGCATCGGCTTTGGCC
AGTGTGCTGGAAAAGTGTGCCTGCTCTCCTGCCATCATGAGATTTTCTCTGCTCTTCTGGAAACAAAGGGCTCA
AGCACCCCTTTCAACCCTGTGACTGGGGTCTCCCTCGGGCTGTAGGCCTGGTCCGCCATTCAAGTGACAAATAAA
GCCATTGTGCTCTGAGGCCTGC

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FIGURE 4301

MSFIPVAEDSDFFIHNLPYGVFSTRGDPRPRIGVAIGDQILDLSIIKHLFTGPVLSKHQDVFNQPTLNSFMGLGQ
AAWKEARVFLQNLLSVSQARLRDDTELKCAFI SQASATMHLPATIGDYTDFYSSRQHATNVGIMFRDKENALMP
NWLHLPVGYHGRASSVVVSGTPIRRPMGQMKPDDSKPPVYGACKLLDMELEMAFFVGPGNRLGEP IPI SKAHEHI
FGMVL MNDWSARDIQWEYVPLGPFLGKSFGTTVSPWVVPMDALMPFAVPNPKQDPRPLPYLCHDEPYTFDINLS
VNLKGE GMSQAATICKSNFKYMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGPEPENFGSMLELSWKGTKPIDL
GNGQTRKFLLDGDEVIITGYCQGDGYRIGFGQCAGKVL PALLPS

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FIGURE 4302

TCGACATGGCGGTTACCCTGAGTCTCTTGCTGGGCGGGCGCGTTTGCGCCGCCGTCACTCGCTGTGGGTTCGCGA
CCCGGGGGGTGGCGGGCCAGGCCCTATTGGCCGGGAGCCGGACCCCGATTCCGACTGGGAGCCGGAGGAACGGG
AGCTGCAGGAGGTGGAGAGGTACCGGCTTCTCCCCGGGCCCTCAGCTTGAAGCAGGGCCTCGTGCCCCGGCGCTC
CAGGCCGCGCCCCCTTGGCGCCGGGTGTCTGCCGCTGCTTGCGCAGCGGCCCTTGTTTCTTCTTACCCGTTGTT
AGGGGCGCAGCGTCAGGTGTTTACGCTCCCCGGGACCACTGGTCCCTTCATTAGTGACGTATTTTCATCATCAGTTT
AGAGAGTTCGGCATGCTTACAGGCAGTTATTGTTCTAGGTGTTAGCTTTCTGGGTGTACGGAGCAGCTCTAAGCC
GGCAACATGGCCCGGTTGCCCTTGCGATCAAAGAGAAGAGGGCTGGGCGCTCCATGATTTAGCCTGAGGCTCTTC
AAACATCCATTCTGCTTCCACGCATGGCTTCTGCCATTGGTTCTCTTCCCCAGCACCCCTGAAACGACAGAAACA
AGCAATCCGATTCCAGAAAATTTCGGAGGCAAATCGAGGCGCCTGGTGCCCCGCCAGGACCCTGACGTGGGAAGC
CATGGAGCAGATACGGTATTTACATGAGGAATTTCCAGAGTCCTGGTCAGTTCCCAGGTTGGCTGAAGGCTTTGA
TGTCAGCACTGATGTGATCCGAAGAGTTTTAAAAAGCAAGTTTTTACCCACATTGGAGCAGAAGCTGAAGCAGGA
TCAAAAAGTCCTTAAGAAAGCTGGGCTTGCCCACTCGCTGCAGCACCTCCGGGGCTCTGGAAATACCTCAAAGCT
GCTCCCTGCAGGCCACTCTGTATCAGGCTCTTTGCTTATGCCAGGGCATGAAGCCTCATCTAAAGACCCAAATCA
CAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAATACACCAAGGAGAAGGAAGGGAAGAAATAA
AGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCATCCAAGAGAGCTGCAGAAGTA
CTCCAGTGATTCTGAGAGCCCCAGAGGAACTGGCAGTGGTGCGTTGCCAAGTGGTCAGAAGCTGGAGGAGTTGAA
GGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGGGGCCGAGAGTTCTTTGACAGCAACGGGAACCTT
CCTGTACAGAAATTGAGTTCGGGGCTTGGCTTATGGAGATGCCTCGTGAAACACAGCTGGGCAAGTATTAATGTAT
ATGGAACAGCCTGGATTTCTGCATATGGATAAGCCACCTTGGGAATAGGAAGAGGTGTTGAGCCTGGACTGTGGGA
GGAAAGAGCTGCGTGGATAGATTCAAACCTTCTGTGGTAGTGCTCCCAGTCTGACCTCTGTAGACCTTCAGTACT
CACTCTTCTTGCTTAGGCTCTCTGTGTGTTGAAAGCCATCCCGTGTGTCATGTGTTGTTACAATTTTCTGTGATA
CTTGCAATTTATGTTTGAGAAGAAGTGAAAAGTTGCCTTCTGACCTCATTTCTTCTTGATCAGTGAACACTAA
CATTTTGGGGACAACCTTAGTCAATTGGTTTTCTTACAACAAAATAAAGTAAAATGTAGCAAAAAAAAAAAAAA
AAAA

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FIGURE 4303

MEAPGAPPRTLTWEAMEQIRYLHEEFPEWSVPRLAEGFDVSTDVIRRVLKSFLPTLEQKLKQDQKVLKKAGLA
HSLQHRLRGSGNTSKLLPAGHSVSGSLLMPGHEASSKDPNHSTALKVIESDTHRTNTPRRRKGRNKEIQDLEESFV
PVAAPLGHPRELQKYSSDSESPRGTGSGALPSGQKLEELKAEEPDNFSSKVVQRGREFFDSNGNFLYRI

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FIGURE 4304

CTGAAGGCTTTGATGTCAGCACTGATGTGATCCGAAGAGTTTTACAGGCTCTTTGCTTATGCCAGGGCATGAAGC
CTCATCTAAAGACCCAAATCACAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAATACACCAAG
GAGAAGGAAGGGAAGAAATAAAGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCA
TCCAAGAGAGCTGCAGAAGTACTCCAGTGATTCTGAGAGCCCCAGAGGAAGTGGCAGTGGTGCGTTGCCAAGTGG
TCAGAAGCTGGAGGAGTTGAAGGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGGGGCCGAGAGTT
CTTTGACAGCAACGGGAACTTCCTGTACAGAATTTGAGTCGGGGCTTGGCTTATGGAGATGCCTCGTGAAACACA
GCTGGGCAAGTATTAATGTATATGGAACAGCCTGGATTTCTGCATATGGATAAGCCACCTTGGAATAGGAAGAGG
TGTTGAGCCTGGACTGTGGGAGGAAAGAGCTGCGTGGATAGATTCAAACCTCCTGTGGTAGTGCTCCCAGTCTGA
CCTCTGTAGACCTTCAGTACTCACTCTTCTTGCTTAGGCTCTCTGTGTGTTGAAAGCCATCCCGTGTTCATGT

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FIGURE 4305

TCTCCCGAATTCTGGCACGAGGCGGCGTCTCGAGGCGAGTTGGCGGAGCTGTGCGCGCGGCGGGGCG**ATCG**GGGGGC
TCGGGCAGTCGCCTGTCCAAGGAGCTGCTGGCCGAGTACCAGGACTTGACGTTCTTGACGAAGCAGGAGATCCTC
CTAGCCCACAGGCGGTTTTTGTGAGCTGCTTCCCCAGGAGCAGCGGACCGTGGAGTCGTCACTTCGGGCACAAGTG
CCCTTCGAGCAGATTCTCAGCCTTCCAGAGCTCAAGGCCAACCCCTTCAAGGAGCGAATCTGCAGGGTCTTCTCC
ACATCCCCAGCCAAAGACAGCCTTAGCTTTGAGGACTTCCTGGATCTCCTCAGTGTGTTTCACTGACACAGCCACG
CCAGACATCAAGTCCCATTATGCCTTCCGCATCTTTGACTTTGATGATGACGGAACCTTGAACAGAGAAGACCTG
AGCCGGCTGGTGAAGTGCCTCACGGGAGAGGGCGAGGACACACGGCTTAGTGCGTCTGAGATGAAGCAGCTCATC
GACAACATCCTGGAGGAGTCTGACATTGACAGGGATGGAACCATCAACCTCTCTGAGTTCCAGCACGTCATCTCC
CGTTCTCCAGACTTTGCCAGCTCCTTTAAGATTGTCCTG**TGAC**AGCAGCCCCAGCGTGTGTCTGGCACCCCTGTC
CAAGAACCTTTCTACTGCTGAGCTGTGGCCAAGGTCAAGCCTGTGTTGCCAGTGCGGGCCAAGCTGGCCCAGCCT
GGAGCTGGCGCTGTGCAGCCTCACCCGGGCGAGGGCGGCCCTCGTTGTCAGGGCCTCTCCTCACTGCTGTTGTC
ATTGCTCCGTTTGTGTTTGTACTAATCAGTAATAAAGGTTTAGAAGTTTGACCCTAAAAAAAAAAAAAAAAAAAA
AAAAA

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FIGURE 4306

MGGSGSRLSKELLA EYQDLTFLTKQEILLAHRRFCELLPQE QRTVESSLRAQVPFEQILSLPELKANPFKERICR
VFSTSPAKDSL SFEDFLDLLSVFSDTATPDIKSHYAFRIFDFDDDGTLNREDLSRLVNC LTGEGEDTRLSASEMK
QLIDNILEESDIDRDGTINLSEFQHVISRSPDFASSFKIVL

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FIGURE 4307A

GCTCTGCCCCAAGCCGAGGCTGCGGGGCCGGCGCCGGCGGGAGGACTGCGGTGCCCCGCGGAGGGGCTGAGTTTGC
CAGGGCCCCACTTGACCCTGTTTCCCACCTCCCGCCCCCAGGTCCGGAGGCGGGGGCCCCGGGGCGACTCGGGG
GCGGACCGCGGGGCGGAGCTGCCGCCCGTGAGTCCGGCCGAGCCACCTGAGCCCGAGCCGCGGGACACCGTCGCT
CCTGCTCTCCGAATGCTGCGCACCCGCGATGGGCCTGAGGAGCTGGCTCGCCGCCCATGGGGCGCGCTGCCGCCT
CGGCCACCGCTGCTGCTGCTCCTGCTGCTGCTGCTCCTGCTGCAGCCGCCGCTCCGACCTGGGCGCTCAGCCCC
CGGATCAGCCTGCCTCTGGGCTCTGAAGAGCGGCCATTCTCAGATTCTGAAGCTGAACACATCTCCAACCTACACA
GCCCTTCTGCTGAGCAGGGATGGCAGGACCCTGTACGTGGGTGCTCGAGAGGCCCTCTTTGCACTCAGTAGCAAC
CTCAGCTTCTGCCAGGCGGGGAGTACCAGGAGCTGCTTTGGGGTGTCAGACGCAGAGAAGAAACAGCAGTGCAGC
TTCAAGGGCAAGGACCCACAGCGCGACTGTCAAACTACATCAAGATCCTCCTGCCGCTCAGCGGCAGTCACCTG
TTCACCTGTGGCACAGCAGCCTTCAGCCCCATGTGTACCTACATCAACATGGAGAACCTTACCCTGGCAAGGGAC
GAGAAGGGGAATGTCTCCTGGAAGATGGCAAGGGCCGTTGTCCCTTCGACCCGAATTTCAAGTCCACTGCCCTG
GTGGTTGATGGCGAGCTCTACACTGGAACAGTCAGCAGCTTCCAAGGGAATGACCCGGCCATCTCGCGGAGCCAA
AGCCTTCGCCCCACCAAGACCGAGAGCTCCCTCAACTGGCTGCAAGACCCAGCTTTTGTGGCCTCAGCCTACATT
CCTGAGAGCCTGGGCAGCTTGCAAGGCGATGATGACAAGATCTACTTTTTCTTCAGCGAGACTGGCCAGGAATTT
GAGTTCTTTGAGAACACCATTTGTGTCCCGCATTTGCCCGCATCTGCAAGGGCGATGAGGGTGGAGAGCGGGTGCTA
CAGCAGCGCTGGACCTCCTTCCTCAAGGCCAGCTGCTGTGCTCACGGCCCGACGATGGCTTCCCTTCAACGTG
CTGCAGGATGTCTTCACGCTGAGCCCCAGCCCCAGGACTGGCGTGACACCCTTTTCTATGGGGTCTTCACTTCC
CAGTGGCACAGGGGAACCTACAGAAGGCTCTGCCGTCTGTGCTTTCACAATGAAGGATGTGCAGAGAGTCTTCAGC
GGCCTCTACAAGGAGGTGAACCGTGAGACACAGCAGATGGTACACCGTGACCCACCCGTGCCACACCCCGGCCCT
GGAGCGTGATACCAACAGTGCCCGGGAAAGGAAGATCAACTCATCCCTGCAGCTCCAGACCCGCGTGCTGAAC
TTCCTCAAGGACCCTTCCTGATGGACGGGCAGGTCCGAAGCCGATGTGCTGCTGCAGCCCCAGGCTCGCTAC
CAGCGCGTGGCTGTACACCGCGTCCCTGGCCTGCACCACACCTACGATGTCCTCTTCCTGGGCACTGGTGACGGC
CGGCTCCACAAGGCAGTGAGCGTGGGCCCGGGGTGCACATCATTGAGGAGCTGCAGATCTTCTCATCGGGACAG
CCCGTGAGAATCTGCTCCTGGACACCCACAGGGGGCTGCTGTATGCGGCCCTCACACTCGGGCGTAGTCCAGGTG
CCCATGGCCAACTGCAGCCTGTACAGGAGCTGTGGGACTGCCTCCTCGCCCGGGACCCCTACTGTGCTTGGAGC
GGCTCCAGCTGCAAGCACGTCAGCCTCTACCAGCCTCAGCTGGCCACCAGGCCGTGGATCCAGGACATCGAGGGA
GCCAGCGCCAAGGACCTTTGCAGCGCTCTTCGGTTGTGTCCCGTCTTTTGTACCAACAGGGGAGAAGCCATGT
GAGCAAGTCCAGTTCCAGCCCAACACAGTGAACACTTTGGCCTGCCCGCTCCTCTCCAACCTGGCGACCCGACTC
TGGCTACGCAACGGGGCCCCCGTCAATGCCTCGGCCTCTGCCACGTGCTACCCACTGGGGACCTGCTGCTGGTG
GGCACCCAACAGCTGGGGGAGTTCCAGTGCTGGTCACTAGAGGAGGGCTTCCAGCAGCTGGTAGCCAGCTACTGC
CCAGAGGTGGTGGAGGACGGGGTGGCAGACCAACAGATGAGGGTGGCAGTGTACCCGTCATTATCAGCACATCG
CGTGTGAGTGACACAGCTGGTGGCAAGGCCAGCTGGGGTGCAGACAGGTCTACTGGAAGGAGTTCTGGTGATG
TGCACGCTCTTTGTGCTGGCCGTGCTGCTCCAGTTTTATTCTTGCTCTACCGGCACCGGAACAGCATGAAAGTC
TTCCTGAAGCAGGGGGAATGTGCCAGCGTGCACCCCAAGACCTGCCCTGTGGTGTGCCCCCTGAGACCCGCCCA
CTCAACGGCCTAGGGCCCCCTAGCACCCCGCTCGATACCGAGGGTACCAGTCCCTGTGAGACAGCCCCCGGGG
TCCCGAGTCTTCACTGAGTCAGAGAAGAGGCCACTCAGCATCCAAGACAGCTTCGTGGAGGTATCCCCAGTGTGC
CCCCGGCCCCGGGTCCGCCTTGGCTCGGAGATCCGTGACTCTGTGGTGTGAGAGCTGACTTCCAGAGGACGCTGC
CCTGGCTTCAGGGGCTGTGAATGCTCGGAGAGGGTCAACTGGACCTCCCTCCGCTCTGCTCTTCGTGGAACACG
ACCGTGGTGCCCGGCCCTTGGGAGCCTTGGGGCCAGCTGGCCTGCTGCTCTCCAGTCAAGTAGCGAAGCTCCTAC
CACCCAGACACCCAAACAGCCGTGGCCCCAGAGGTCTTGCCAAATATGGGGGCTGCCTAGGTTGGTGGAACAG
TGCTCCTTATGTAACTGAGCCCTTTGTTTAAAAACAATTCCAAATGTGAACTAGAATGAGAGGGAAGAGATA
GCATGGCATGCAGCACACACGGCTGCTCCAGTTTCATGGCCTCCAGGGGTGCTGGGGATGCATCCAAAGTGGTTG
TCTGAGACAGAGTTGGAACCCCTACCAACTGGCCTCTTACCTTCCACATTATCCCGCTGCCACCGGCTGCCCT
GTCTCACTGCAGATTAGGACCAGCTTGGGCTGCGTGCGTTCTGCCTTGCCAGTCAGCCGAGGATGTAGTTGTTG
CTGCCGTGCTCCACCACCTCAGGGACCAGAGGGCTAGGTTGGCACTGCGGCCCTCACCAGGTCTGGGCTCGGA
CCCAACTCCTGGACCTTTCCAGCCTGTATCAGGCTGTGGCCACACGAGAGGACAGCGCGAGCTCAGGAGAGATTT
CGTGACAATGTACGCCTTTCCCTCAGAATTCAGGGGAAGAGACTGTCGCCTGCCTTCTCCGTTGTTGCGTGAGAA
CCCGTGTGCCCTTCCCACCATATCCACCTCGCTCCATCTTTGAACTCAAACACGAGGAACCTAACTGCACCCCTG

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FIGURE 4307B

GTCCTCTCCCCAGTCCCCAGTTCACCCTCCATCCCTCACCTTCCTCCACTCTAAGGGATATCAACACTGCCCAGC
ACAGGGGCCCTGAATTTATGTGGTTTTTATACATTTTTTAATAAGATGCACTTTATGTCATTTTTTAATAAAGTC
TGAAGAATTACTGTTT

4671/6881
FIGURE 4308

MLRTAMGLRSWLAAPWGALPPRPPLLLLLLLLLLLLLLQPPPTWALSPRISLPLGSEERPFLRFEAEHISNYTALLL
SRDGRTLYVGAREALFALSSNLSFLPGGEYQELLWGADAEEKKQQCSFKGKDPQRDCQNYIKILLPLSGSHLFTCG
TAAFSPMCTYINMENFTLARDEKGNVLLEDGKGRCPPDPNFKSTALVVDGELYTGTVSSSQGNPAISRSQSLRP
TKTESSLNWLQDPAFVASAYIPESLGSLLQGDDDKIYFFFSETGQEFFEFFENTIVSRIARICKGDEGGERVLQQRW
TSFLKAQLLCSRPDGFPFNVLQDVFTLSPSPQDWRDTLFYGVFTSQWHRGTTEGSAVCVFTMKDVQRVFSGLYK
EVNRETQQWYTVTHPVPTPRPGACITNSARERKINSSLQLPDRVLNFLKDHFLMDGQVRSRMLLLQFQARYQRVA
VHRVPGLHHTYDVLFLGTGDGRLHKAVSVGPRVHIIEELQIFSSGQPVNLLLDTHRGLLYAASHSGVVQVPMAN
CSLYRSCGDCLLARDPYCAWSGSSCKHVSLYQPQLATRPWIQDIEGASAKDLCSASSVVSPSFVPTGEKPCEQVQ
FQNTVNTLACPLLSNLATRLWLRNGAPVNASASCHVLPTGDLLLVTQQLGEFQCWSLEEGFQQLVASYCPEVV
EDGVADQTDEGGSVPVIIISTSRVSAPAGGKASWGADRSYWKEFLVMCTLFVLAVLLPVLFLLYRHRNSMKVFLKQ
GECASVHPKTCPPVLPETRPLNGLGPPSTPLDHRGYQSLSDSPPGSRVFTSEKRPLSIQDSFVEVSPVCPRR
VRLGSEIRDSVV

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FIGURE 4309A

GGTGATTGTGTTGTTACAGTGCTGCTTGCTGAAGAGGACAAAGCTGAAGATGATGTAGTGTTTTACTTGGTATTT
TTGGGTTCCACCCTCCGTCACCTGTACAAGTACTCGGAAGGTCAGTTCTGATACATTGGAGACCATTGCTCCTGGT
CATGATTGTTGTGAAACAGTGAAGGTGCAGCTCTGTGCTTCCAAAGAGGGCCTTCCCGTGTTTGTGGTGGCTGAA
GAAGACTTTTCATTTTCGTCCAGGATGAAGCGTATGATGCAGCTCAATTCCTAGCAACCAGTGCTGGAAATCAGCAG
GCTTTGAACTTTACCCGTTTTCTTGACCAGTCAGGACCCCCATCTGGGGATGTGAATTCCTTGATAAGAAGTTG
GTGCTGGCATTTCAGGCACCTGAAGCTGCCCCAGGAGTGGAATGTATTGGGGACAGATCAGAGTTTGCATGATGCT
GGCCCCGCGAGAGACATTGATGCATTTTGTGCTGTGCGGCTGGGACTGCTGAGGTTGACGTGGTTTCTGTTGCAGAAG
CCAGGTGGCCGCGGAGCTCTCAGTATCCACAACCAGGAAGGGCGACGCCTGTGAGCTTGGCCTTGGAGCGAGGCT
ATCACAAGCTGCACCAGCTTCTAACCAGGAGAATGCTGGAGAACCAGACTCCTGGAGCAGTTTATCCTATGAAA
TACCGTATGGAGACTGTTCTGTGAGGCATCATCGAGAGTTGGACATCTATACATTAACCTCTGAGTCTGATTAC
ATCATGAACACCCATTTTCTGGAGACGGTTGCACTGGACCAATTTTAACTTATGAACATCCAACAGCAACTAA
TGAAAACAAACCTCAAGCAGATGGACAGTCTTATGCCCTTAATGATGACAGCACAGGATCCTTCCAGTGCCCCAG
AGACAGATGGCCAGTTTCTTCCCTGTGCACCGGAGCCCCACGGACCTCAGCGACTTTCTTCTTCTGAAGAGACTG
AGAGCACTCAGTGCTGCCAGGGAGCCCTGTTGCACAGACTGAAAGTCCCTGTGATTTGTCAAGCATAGTTGAGG
AGGAGAATACAGACCGTTTCTGTAGGAAGAAAAATAAAGGCGTGGAAGAAAAGGGGAAGAGGTGGAGCCAGCAC
CTATTGTGGACTCTGGAAGTGTATCTGATCAAGACAGCTGCCTTCAGAGCTTGCCTGATTGTGGAGTAAAGGGCA
CGGAAGGCCCTTTCGTCTGTGGAACAGAAATGAAGAACTGGAACAAAATCTTCTGGAATGCCACAGACCAGG
AGTCCCTGAGCAGTGGAGATGCTGTGCTTCAGAGAGACTTGGTCATGGAGCCAGGCACAGCCCAGTATTCCTCTG
GAGGTGAACTGGGAGGCATTTCAACAACAAATGTCAGTACCCAGACACTGCAGGGGAAATGGAACATGGGCTCA
TGAACCCAGATGCCACTGTTTGAAGAATGTGCTTCAGGGAGGGGAAAGTACAAAGGAAAGATTTGAGAAGTCTA
ATATTGGCACAGCTGGAGCCTCTGACGTGCACGTACAAGTAAGCCTGTGGATAAAATCAGTGTTCCAACTGTG
CCCCTGTGCCAGTTCCCTGGATGGTAACAAACCTGCTGAGTCTTCACTTGCATTTAGTAATGAAGAAACCTCCA
CTGAAAAACAGCAGAAACGGAACTTCACGAAGTCGTGAGGAGAGTGTGATGCTCCAGTAGATCAGAATTCTG
TGGTGATTCCAGCTGCTGCAAAAGACAAGATTTAGATGGATTAGAACCTTATACTCTCTTAGCAGCAGGCATAG
GTGAGGCAATGTACCCCTCAGATTTAGCCCTTCTTGGGCTGGAAGAAGATGTAATGCCACACCAGAACTCAGAAA
CAAATTCATCTCATGCTCAAAGCCAAAAGGGCAAATCCTCACCCATTTGTTCTACAACCTGGAGACGATAAACTTT
GTGCAGACTCTGCATGTCAACAGAACACAGTGACTTCTAGTGGCGATTTGGTTGCAAACTGTGTGATAACATAG
TTAGCGAGTCCGAAAGCACACAGCAAGGCAACCCAGCTCACAAGATCCACCCGATGCCTCCCACTGTGAAGACC
CACAGGCTCATACAGTCACCTCTGACCCTGTAAGGGATACCCAGGAACGTGCGGATTTTGTCCCTTTCAAAGTGG
TGGATAACAAAGGCCAACGAAAAGATGTGAACTAGATAAACCTTTAACAATAATGCTTGAGGTGGTTTTCACATC
CACATCCAGTTGTCCCTAAAATGGAGAAAAGAACTGGTGCCAGACCAGGCAGTAATATCAGACAGTACTTTCTCTC
TGGCAAACAGTCCAGGCAGTGAATCAGTAACCAAGGATGACGCACTTTCTTTTGTCCCCCTCCAGAAAGAAAAGG
GAACAGCAACTCCTGAACTACATACAGCTACAGATTATAGAGATGGCCCAGATGGAAATTCGAATGAGCCTGATA
CGCGGCCACTAGAAGACAGGGCAGTAGGCCCTGTCCACATCCTCCACTGCTGCAGAGCTTCAGCACGGGATGGGGA
ATACCACTCTCACAGGACTTGGTGGAGAGCATGAGGGTCCCGCCCCCTCCAGCAATCCCAAGCTCTGAATATCA
AGGGGAACACTGACTCTTCCCTGCAAAGTGTGGGTAAGGCCACTTTGGCTTTAGATTGAGTTTGGTACTGAAGAAG
GAAAACCTTCTGGTGGTTTCAGAAAGCTCTGCAGCTCAGGAACAAGATAAGGATAAAGCGGTGACCTGTTCTCTA
TTAAGGAAAATGCTCTCTCTTCAGGAACCTTGCCAGGAAGAGCAGAGAACACCACCTCCTGGACAAGATACTCAAC
AATTTTCATGAAAATCAATCTCAGCTGACTGTGCCAAGGACAAAGCACTTCAGCTAAGTAATTCACCGGGTGCAT
CCTCTGCCCTTTCTTAAGGCAGAACTGAACATAACAAGGAAGTGGCCCCACAAGTCTCACTGCTGACTCAAGGTG
GGGCTGCCCAGAGCCTGGTGCCACCAGGAGCAAGTCTGGCCACAGAGTCAAGGCAGGAAGCCTTGGGGGCAGAGC
ACAACAGCTCCGCTCTGTTGCCATGTCTGTTGCCAGATGGGTCTGATGGGTCCGATGCTCTTAAGTGCAGTCAGC
CTTCTCCTCTGGATGTTGGAGTGAAGAACACTCAATCCCAGGGAAAACTAGTGCCTGTGAGGTGAGTGGAGATG
TGACGGTGGATGTTACAGGGGTTAATGCTCTACAAGGTATGGCTGAGCCCAGAAGAGAGAATATATCACACAACA
CCCAAGACATCCTGATTCCAAACGTCTTGTGAGCCAAGAGAAGAATGCCGTTCTAGGTTTGCCAGTGGCTCTAC
AGGACAAAGCTGTGACTGACCCACAGGGAGTTGGAACCCAGAGATGATACCTCTTGATTGGGAGAAAGGGAAGC
TGGAGGGAGCAGACCACAGCTGTACCATGGGTGACGCTGAGGAAGCCCAATAGACGATGAAGCACATCCTGTCC
TACTGCAGCCTGTTGCCAAGGAGCTCCCCACAGACATGGAGCTCTCAGCCCATGATGATGGGGCCCCAGCTGGTG

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FIGURE 4309B

TGAGGGAAGTCATGCGAGCCCCGCTTCAGGCAGGGAAAGGAGCACTCCCTCTCTACCTTGTCATGGTCTCTGCCC
AGGACGCACCTCTGCCTAAGGGGGCAGACTTGATAGAGGAGGCTGCCAGCCGTATAGTGATGCTGTCATCGAAC
AAGTCAAGGCCGCTGGAGCACTGCTTACTGAGGGGGAGGCCTGTCACATGTCACTGTCCAGCCCTGAGTTGGGTC
CTCTCACTAAAGGACTAGAGAGTGCTTTTACAGAAAAAGTGAGTACTTCCACCTGGGGAGAGCCTACCAATGG
GCAGTACTCCTGAGGAAGCCACGGGGAGCCTTGCCAGGATGTTTTGCTGGAAGGGAGGAGCCAGAGAAGATCATTT
TACCTGTCCAGGGGCCCTGAGCCAGCAGCAGAAATGCCAGACGTGAAAGCTGAAGATGAAGTGGATTTTAGAGCAA
GTTCAATTTCTGAAGAAGTGGCTGTAGGGAGCATAGCTGCTACACTGAAGATGAAGCAAGGCCCAATGACCCAGG
CGATAAACCGAGAAAACTGGTGTAATAAGAGCCATGCCCTGATGCAGCATCTCTTCTGGCTTCCAAGCAGAGCC
CAGAATGTGAGAACTTCTTGATGTTGGACTGGGCAGAGAGTGACCTCAAAAACAGGTGTACTTAAAAGAGAAT
CTGGGAGTGATTCTGACCTCTTTCACCTACCCAGTGATGACATGGACAGCATCATCTTCCCAAAGCCAGAGGAAG
AGCATTTGGCCTGTGATATCACCGGATCCAGTTTCATCCACCGATGACACGGCTTCACTGGACCGACATTCTTCTC
ATGGCAGTGATGTGTCTCTCTCCAGATTTTAAAGCCAAACAGGTCAAGAGATCGGCAAAGCCTTGATGGATTCT
ACAGCCATGGGATGGGAGCTGAGGGTCGAGAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGG
AGATGGACAGTATCACTGAAGTGCCCTGCAAACTGCTCTGTCTTAAGGAGCTCCATGCGCTCTCTTCTCCCTTCC
GGAGGCACAGCTGGGGGCCCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAACCACCGGAGTATGAGCTGGTGCC
CCTCTGGTGTGTCAGTACTCTGCTGGCCTGAGTGCTGACTTTAATTACAGAAGTTTCAGTCTAGAAGGCTTGACAG
GAGGAGCTGGTGTGCGAAACAAGCCATCCTCATCTCTAGAAGTAAGCTCTGCAAAATGCCGAAGAGCTCAGACACC
CATTCAGTGGTGAGGAACGGGTTGACTCTTTGGTGTCACTTTTCAAGAGGATCTGGAGTCAGACCAGAGAGAAC
ATAGGATGTTTGATCAGCAGATATGTACAGATCTAAGCAGCAGGGATTTAATTACTGTACATCAGCCATTTCTCT
CTCCATTGACAAAATCCATCTCATTAAATGACAATCAGCCATCCTGGATTGGACAATTCACGGCCCTTCCACAGTA
CCTTCCACAATACCAGTGCTAATCTGACTGAGAGTATAACAGAAGAGAAGTATAATTTCTGCCACATAGCCCCCT
CCAAGAAAGATTCTGAATGGAAGAGTGGAACAAAAGTCAGTCGTACATTAGCTACATCAAGAATAAAATGTCTA
GCAGCAAGAAGAGCGAAAAGGAAAAAGAAAAAGATAAGATTAAGGAGAAGGAGAAAGATTCTAAAGACAAGGAGA
AAGATAAGAAGACTGTCAACGGGCACACTTTCAGTTCATTCTGTTGTGGGTCCCATCAGCTGTAGCCAGTGTA
TGAAGCCCTTCACCAACAAAGATGCCTATACTTGTGCAAATTGCAGTGCTTTTGTCCACAAAGGCTGCCGAGAAA
GTCTAGCCTCCTGTGCAAAGGTCAAATGAAGCAGCCCAAAGGGAGCCTTCAGGCACATGACACATCATCACTGC
CCACGGTCATTATGAGAAACAAGCCCTCACAGCCCAAGGAGCGTCTCGGTCCGACAGTCTCTGGTGGATGAAA
CCGCTACCAACCCCAATATTTGCCAATAGACGATCCCAGCAGAGTGCTCGCTCTCCAAAAGTGCTCCATACAGA
ACATTACTGGAGTTGGCAATGATGAGAACATGTCAAACACCTGGAAATTCCTGTCTCATTCAACAGACTCACTAA
ATAAAATCAGCAAGGTCAATGAGTCAACAGAATCACTTACTGATGAGGGAGTAGGTACAGACATGAATGAAGGAC
AACTACTGGGAGACTTTGAGATTGAGTCCAAACAGCTGGAAGCAGAGTCTTGAGAGTCGGATAATAGACAGCAAGT
TTCTAAAACAGCAAAAGAAAGATGTGGTCAAACGGCAAGAAGTAATATAGAGTTGATGCAGACAGAGTTTCATC
ATGTCCGCACTCTCAAGATCATGAGTGGTGTGTACAGCCAGGGGATGATGGCGGATCTGCTTTTTTGAGCAGCAGA
TGGTAGAAAAGCTGTTCCCTGTTTGGATGAGCTGATCAGTATCCATAGCCAATTCTTCCAGAGGATTCTGGAGC
GGAAGAAGGAGTCTCTGGTGGATAAAAGTGAAAAGAACTTTCTCATCAAGAGGATAGGGGATGTGCTTGTAATC
AGTTTTTCAGGTGAGAATGCAGAACGTTTAAAGAAGACATATGGCAAGTTTTGTGGGCAACATAACCAGTCTGTAA
ACTACTTCAAAGACCTTTATGCCAAGGATAAGCGTTTTTCAAGCCTTTGTAAAGAAGAAGATGAGCAGTTCAGTTG
TTAGAAGGCTTGGAATTCAGAGTGATATTGCTTGTAACCTCAGCGGATTACCAAGTACCCAGTTTTATTCCAAA
GAATATTGCAGTGTAACCAAGACAATGAAGTGGAGCAGGAAGATCTAGCACAGTCTTGAGCCTGGTGAAGGATG
TGATTGGAGCTGTAGACAGCAAAGTGGCAAGTTATGAAAAGAAAGTGCGTCTCAATGAGATTTATACAAAGACAG
ATAGCAAGTCAATCATGAGGATGAAGAGTGGTCAGATGTTTGCCAAGGAAGATTTGAAACGGAAGAAGCTTGATC
GTGATGGGAGTGTGTTTTCTGAAGAATGCAGCAGGAAGGTTGAAAGAGGTTCAAGCAGTCTTCTCACTGACATTT
TAGTTTTCTTTCAAGAAAAAGACCAGAAGTACATCTTTGCATCATTTGACCAGAAGTCAACAGTGATCTCTTTAA
AGAAGCTGATTGTGAGAGAAGTGGCACATGAGGAGAAAGGTTTATTCCTGATCAGCATGGGGATGACAGATCCAG
AGATGGTAGAAGTCCATGCCAGCTCCAAGAGGAACGAAACAGCTGGATTCAGATCATTTCAGGACACAATCAACA
CCCTGAACAGAGATGAAGATGAAGGAATTCCTAGTGAGAATGAGGAAGAAAAAGAAATGTTGGACACCAGAGCCC
GAGAATTAAAGAACAACCTTACCAGAAGGACCAAAAAATCCTACTCTTGTGGGAAGAGAAGGAGATGATTTTCC
GGACATGGCTGAGTGCAGCACCCCTCTCCAGAGGATTGCTCCCCAACACATAGCCCTAGAGTTCTCTCCGCT

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FIGURE 4309C

CCAACACAGAAGAGGCTCTCAAAGGAGGACCTTTAATGAAAAGTGCAATAAATGAGGTGGAGATCCTTCAGGGTT
TGGTGAGTGGAATCTGGGAGGCACACTTGGGCCGACTGTCAGCAGCCCCATTGAGCAAGATGTGGTCGGTCCCG
TTTCCCTGCCCCGGAGAGCAGAGACCTTTGGAGGATTTGACAGCCATCAGATGAATGCTTCAAAAGGAGGCGAGA
AGGAAGAGGGAGATGATGGCCAAGATCTTAGGAGAACGGAATCAGATAGTGGCCTAAAAAAGGTGGAAATGCTA
ACCTGGTATTTATGCTTAAAAGAAACAGTGAGCAGGTTGTCCAGAGCGTTGTTTCATCTCTACGAGCTCCTCAGCG
CTCTGCAGGGTGTGGTGCTGCAGCAGGACAGCTACATTGAGGACCAGAACTGGTGCTGAGCGAGAGGGCGCTCA
CTCGCAGCTTGTCCCGCCGAGCTCCCTCATTGAGCAGGAGAAGCAGCGCAGCCTGGAGAAGCAGCGCCAGGACC
TGGCCAACCTGCAGAAGCAGCAGGCCAGTACCTCGAGGAGAAGCGCAGGCGGAGCGTGAGTGGGAAGCTCGTG
AGAGGGAGCTGCGGGAGCGGGAGGCCCTCTGGCCCAGCGCGAGGAGGAGGTGCAGCAGGGGCAGCAGGACCTGG
AAAAGGAGCGGGAGGAGCTCCAGCAGAAGAAGGGCACATAACAGTATGACCTGGAGCGACTGCGTGCTGCCCAGA
AACAGCTTGAGAGGGAACAGGAGCAGCTGCGCCGGGAGGCAGAGCGGCTCAGCCAGCGGCAGACAGAACGGGACC
TGTGTCAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCTTGAGGAGCCCCCT
CGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGAATCAGAACTTTCAGTGTCCCCAAAAAGGAACAGCA
TCTCTCGGACACACAAAGATAAGGGGCCCTTTTACATACTGAGTTCAACCAGCCAGACAAACAAAGGACCAGAAG
GGCAGAGCCAGGCCCTGCGTCCACCTCTGCCTCTACCCGCCTGTTTGGGTTAACAAAGCCAAAGGAAAAGAAGG
AGAAAAAAGAAGAACAACAAACCAGCCGCTCTCAGCCCGGTGATGGTCCCGCGTCAGAAGTATCAGCAGAGGGTG
AAGAGATCTTCTGCTGACCCTCTTCTCTCTGCTGAGGCAGCTGCCTCCTGATCCTGGCCAGCCACCTCTCCTG
CTGTCCCCGCGTGCACAAGTCTCTTACACTGGACGCCACTGCTCCTCAGCGTCCAGTCTCCTGGGCGGCCCA
GGTCTGGACAATAAGCAACAGATGATATTGAGTGTGCGGTGGGAAGGAGGCCAGACTCTGCTTCGGCCATGA
TTTGTGACTGCCCAGGACTCTCAGGTTGGGCTGGCCCTACTCAGGATTACACTGAAAGTAATGGCCTCGTAAGTA
CAGGTGATGGTTTTTGGACACGTCAGGAATTCCTAAAGGCTGAAAGAGTGTATCCAAGTAAGGTCTGAACCTCCGA
ATGCCCTTTTATTTGGGGGAACACAAAACCAACAGCAGATGTTTTGGACTTGATCTGTGTACGTACATGGGGACC
TGTCTGCATATACACACGGGGAATGCCAGAAGAAGGCCAGTCTGCACCAGGCGTCTGGTCAACTTAGCACAAGG
GCAGTGCCTGGACGGACCCGGAGCCCCCGCATATCAGCAGTTCACCCAGTACTCCTCAGAGACTGGTTTTCCCTCT
AAACCCATCCCGGGCACATAACACCCGTGTTTTGCATGTATTTCTCATTTTATTTTAGGGATGACAAACATTTGT
GAAACCAGTGAGAGAAGGCTTGATGTGTATAAAAGACGTGATGTGCACCACCTCGATCTCGGTGTTTCAGGCACT
AAAGCAACAAAACAACCCATAGTATCTCATTCTGTCATCAGATCCAGAAGAAATATCCTGGTTTTCCAGCATGTT
TACCCACATGTTTTGGCCATGGATAAAGTGAAGAGGCCTACTCACCATTATCCCTGCAGCGTGACACCTTTTGAT
TGTCACTGACCACTCAGAAGGGGCCACGGCCTCCTGGCTGTGTTTCTGAGCCCCCGTCTGCTCCTCCTCCAGACAG
CAGCTGTCTGGCCCTTGCTGGGTGAGGGCACACCACTGCCAGGGGTGAGCCTCGCACCCAGGCCAGGCAGAAGCT
GTGCTCTGAAGCTAGGACAGCTGGCTGAGAAGTGGGTTGAGGCGAAGGGTGAAGCCATGTGTAGCAGTTCCTGCC
AGTGCAGATCTGGAGAGGAGCTGGCCCGGAAGGCGTGGTTGTGAAAGCGCCCTTCTTATGTTAGGAGGCCTTGGC
AAAATTGGATTTCTTCAAAAATACATGTAAAGGTCTGTTGTTGAATTGTACTCTGCCCTGGAAGCAGATACAGA
TGGCTGCCTGCTGCTCGGCTTTGCTTTTGCTTTTCCACCGTGTTTTTCATCTTTGTTCACTTGAGGCTTTCCCCA
GCTGGTGTGTGCAGGACAGTTCATGGTAATGTTGCCCTCTGAGGCCCCGTACACCAGAAGGGAGGCCCTTGAAAA
TTTTGTGCTTCCAACGTGGCCTTCAATTCTTGCTTTTTTGCCCTCGGAAGCATGGGGCTTTTGAGCACACTTAA
AAAAAGAAAA

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FIGURE 4310

GAAAAACAAAAAGAATCTTTGTTTTACCCCGAAAAGAGAGGCAGAGGCAGAAAGTCTTCTTGCTTTTTGTCATCT
CTAAGAGGCTGAAAAAGAGAATGGAAGTGCTGGGGCATTTTGGCCAGGGCAGTAATGGATATTTGGAGTTGGCAC
TTCCCTCAGCTAGAGGAGTCTCAGTGTGTCTGAGAAAAATGGCAGTCAGCCATCCAGGATTTTAGGAGCAACGCCA
CTGCTCTGTGCCACATCAGAAATCAGGCATGGCCCCAACCTGAAGGAACCTGTAGCTTAATGGGGAAGCACACCA
AGAATAAAAGAGCCTCCAGAACATGTGGTGCCTGTGGTCCTGAGACAGCAGGAAATGGCTCTCAGGCCAGAGTTG
CTGGAAGAACCCATGTGGCAGGATCGGTGGGAGGCAGTTACAGAGGGAAACGCCCATCCCAGCAACTAGGGGAGG
CCGCCACTCCTCTCGTGGATGGATGATATTCTTGCTTGGGGATGTTGAGACAGCTGCACTCTGCATAGTTCCTGA
TTTGCTCTCTACTGCTGATGAAAAACCTCTCTTCTCTATAGCTGCTGCTTATATTGGAAGGCTTTTGTTTATT
CAGCACACTCACTCCTGAGCTTATTTTCAGTGATATTCCTTGTTTATTTGAAACATGGATGCTTGTGGCAGATGG
AGAGCCTGGGTGTACACAGATCTGCCTGTGTTTTGAAATGCATACCATGTTGCCGTTTGTTTGATTGATTGATCT
TGGACCACGAAAGAAAATTATACTGACAGCTTCCAGGGTAGGGGGCAGTTGTAGCTTTCTGCAGATGTTGCCAAA
TATATTGGGGGTGGGGAGCAGCAAATGCCATGTGTTGCTTTTTATGACATAAGGAGGGATTCCACCCCCATCCCA
ATAAAATCGGTGCTTTGACAAAGGAGGGTTCCAGGCAGCTAAGAGAACCCAGAGTAGATGATCCTCTTTATCTC
TGGTTTAACCTGTGACTAGGATTCTTGGTGTAAGCTCGGCTTTTCCACTTATCCTCTAACCGGAACAGGCTTCTA
TAATCTCTTTGCCTTAAAATAATTATCTGCATCCCTGTGTAGAGCAATCTTAAGCAGCTCTCCTTGTTTCTTCAG
GGAATGGGAATTCTTTTCTAAGTCGCCCCATCAAAGGTACTATTGGTTTTTTTACAACGCCGGCGTTTGTTGTATGT
AGTAAAAGTATTAACAGCATTAAAGGCGATATTTTAAACATGTTTATAGATACTACTTGGGGGAGGGCAGCTAAT
GAAACCTTCAAGCTCTATGCAGTCCACAGACGTGAGCTCTGTAGAGTTTCGACAGAGGTGGGTAAGTACCCAGCCAG
CACACCCAGTTGAATTCAGCCAGGATTTATTGAGTTGGCATCACAGACGCTGACAGCCTCCAAGTGAAAACCTT
CTCTTGAATATGTACAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCTTGAGG
AGCCCCCTCGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGACTCAGAACTTTCAGTGTCCCCAAAAA
GGAACAGCATCTCTCGGACACACAAAGATAAGGGGCCTTTTACATACTGAGTTCAACCAGCCAGACAAACAAAG
GACCAGAAGGGCAGAGCCAGGCCCTGCGTCCACCTCTGCCTCTACCCGCCTGTTTGGGTAAACAAAGCCAAAGG
AAAAGAAGG

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FIGURE 4311A

TCTGTTAAATGTTCCGAAGCCACTGCCAAAACAACCTGTGGGAGACCAAGGAGATTTCAGTCCCTGTCAGGACGCCC
TCGATCCTGTGATGTTGGAGGTGGCAATGCTTTTCCACATAATGGTCAAAACCTAGGCCTCTCACCCCTTCTTGGG
GACCTTGAACACTGGAGGGTCATTGCCAGATCTAACCAACCTCCACTACTCGACACCCCTGCCAGCCTCCCTGGA
CACCACCGACCACCACTTTGGCAGTATGAGTGTGGGAATAGTGTGAACAACATCCCAGCTGCTATGACCCACCT
GGGTATAAGAAGCTCCTCTGGTCTCCAGAGTTCTCGGAGTAACCCCTCCATCCAAGCCACGCTCAATAAGACTGT
GCTTTCCTCTTCTTAAATAACCACCCACAGACATCTGTTCCCAACGCATCTGCTCTTCACCCTTCGCTCCGTCT
GTTTTCCCTTAGCAACCCATCTCTTCCACCACAAACCTGAGCGGCCCGTCTCGGCGTCGGCAGCCTCCCGTCAG
CCCTCTCACGCTTCTCCTGGCCCTGAAGCACATCAAGGTTTCAGCAGACAGCTGTCTTCAACCAGCCCACTGGC
CCCATATCCTACCTCCCAGATGGTGTCTCAGACCGAAGCCAACCTTCTCTTCTGCCCACAGAAGCTCAAGCCCCA
GGTGTGCGCGCCACCCCTTACCTGACCCCCAGGAGCTCACCCAGCCCCCTCCTGCAGCAGCCCCGCGCCCCCTGA
GGCCCTGCCCAGCAGCCCCAGGCAGCCTCCTCACTGCCACAGTCAGACTTTCAGCTTCTCCCGGCCCAGGGCTC
ATCTTTGACCAACTTCTTCCAGATGTGGGTTTTGACCAGCAGTCCATGAGGCCAGGCCCTGCCTTTTCTCAACA
GGTGCCTCTGGTGCAACAAGGTTCCCGAGAAGTGCAGGACTCTTTTCATTTGAGACCAAGCCCGTATTCCAAGT
CGGGAGTCTCCCGAACACCATCCTGCCAGACTCCAGCACCAGCCTGTTCAAAGACCTCAACAGTGCCTGGCAGG
CCTGCCTGAGGTTCAGCCTGAACGTGGACACTCCATTTCCACTGGAAGAGGAGCTGCAGATTGAACCCCTGAGCCT
GGACGGACTCAACATGTTAAGTGAAGTCCAGCATGGGCCTGCTGGACCCCTCTGTTGAAGAGACGTTTCGAGCTGA
CAGACTGTGAACAGAAGGCAGTGAACAGAAGAATGTTTTTCTGCAACAGCCAAAATAGAATGAATAGAATGAA
GCCAGCTGATACCACGGGCTTTCGTTATCTTGACATAGAAGGAAGCAATGCCACGGCTCCAGGGTTTCAGATGAG
ATCCCATCTCAGACACTGTGGCTTCTCCAGATCACACAGCTTTGTAAGTGCCTCTCCCGCCTGTGGCCAAAGTCG
TGTTGCAGCAGGCAGGCTGCTTGGAGCTTCCCATGAAGTGGAAAGCTCACCTCCACTGCATCTTTTTACTGGCCA
TCCAGTCAGCCGATGTGTAAGAGTAGGAAATACTGTGTCACTGGAGGCCTCCGTAGCATTGTGTAGTGTGCTCAG
AACCCTGATCTCCGTCCGCACCGAAGCGGGCCCGAGTGGGAGGCTCGGCCTGGGGCGGGCACCAGGAGAGG
GCACCTCGATGCCTGCTCTGACCTGACCCAGAGGGCGAGGCCCTCCAGCGGGGGACATTCCCAGGCTGAGTGGAC
CCCACGGCTCTCTCCACGCCTGGATTACGACATGAAGTTTTTACCACAAGCCCGAGGGCAGGCTTGAGTTAGGC
AGACTGAAGGCTAATTTTTCATTTTTCTCCAGCTGGTTTTCTGCTGCTTCAGAAAAGTACACCTTTTCTTATGGAC
CAGAGGAAGAGGAAGACCATTTTATCAGTCACTGAAAAGAGTCCCCTGGCACTGATGAGCCTGAAGAGAAGTGTG
CTCCTCCTCGGGGGCTGGGGAAGGAAGACAGGGACTGCAGGTGTCTCATACTCAGTGGCCTCCAGACAAACTCCA
GACAAGCACAGACCTCCCCACTAAGAGCAGCCAGAGGGAGCTGGTGAAGGCCCTAACCCACCCACCGAGCAACTG
AGCTTCCCCATCCCTCCCCAGAGCTGTGTCTCTGTGGGCTGGGAGTCTAATGTCAACCCCTAGACCGTAAGCTC
CTTGAGGGCAGGGACAGTGCCTTATCATTGTTGAACCCGTAGCACCTAACACGTGCGTGGCAGCACAGTGCCTGTG
CTGGAGTGAGTGTGTCAGAACCCTGCGTGCAGCGCATGATGAATGAGTGCCTCCGCCATGCCGTAAGGCAGGCTC
ACCTGTAGCTATCCCTTCCCTGCCAGATCTTCTCAGAGCTTTAGCTTTTCTAGCACTCGTGCCTATGGTGAAGC
ATGCACTTTAATATGCTTTTAACTAGGTGACCAATCACAGTGAAGCCGGGCACTGCATTCTCCTTGGGCTGT
GCTCCACGCGGGTGGGTGGGAGCTGTCTTCTGAGTACATCCGGAAGGGCTGAGCAGGTGAGTGCCCTGAGCATCC
TGGCTGGGCCCCACCCAGGAAGATCTTCTTCTCAGATCCACGTTTGGCTCTAAATTGCTTCAAGTAGAGATTCA
TTCTTTGAGGTTGAAAAAATAGTTTATAGTAAAACGAAGGCCTAATTCATGGAAGCATCATTAGTCATCAATACC
TTCTCATAAAATAGATGGGCCAGATTTCCACCACCGCCTGCCTCCTCTAACTTGGGTGATGCCAGTAGGTTTGAA
GGGGGCAGAGCATTGCAGGGGGAGGGGGGGGTCTAGGCTGTGAGAGGACAGGGTGGAGAGGAGAGAACCCTGAA
GGAGAGACGGAAGATGCCAGGACCTTTGCTTGGACAGCCATTGCCCTTCCAGGAGACCTGGAGTGTACTGAGGG
TTGCTGGACTGTTCCACCCAGAGGAGCAAGGCTGTACAATGAGGGTCTGAATCTGGCACACCTGTCCCTTATGTA
AAAGGAGTCGTGGTCAACAAGACCTGGGCTGGTTAGCCTCTCCCGACCTCATTCCATTTCTATCTTCTGACCTTG
CCTCTCATCTTTAAAATAACCCTCATGGGGTGCCCTCCACCTTCTCTGGAATCCAAGTATCCTGTTTCACAT
TTGCCCCAAATCTTTGCTGTGGAATTGGGAAATCAAACCAGAGTCTCCTCGCCTGATTCCAGCTCAGGAAGGG
CCTGCTGGCCTGCCCTGTTCCAGTTACACTTTCAGATCCCTTTGTGCTCAAGATCTCAGAGGGGGTGGCTTTTT
GTTAAAGAGCCTTCAGTCGCAATGCTACCCAGCACCCCATGTGCCAAAAGAAACCAGCTCCTGTGTCAAAGGGCT
TCCAAACCTGATCTCACTCTCAACAGGCGATGGTGTGATGTTTCAAGAATTGTGTTTTTATAAAACAGAGGTCT
CAGCATAGTCACTCTTACATAGTGCCTTACCCATGGGTATCGTCATATCCGGGTCCCAGTTTCAGTTTGTCTGCA
CAGCAGCCACCTGCCTGGCAACAGAGACCCCAAGACCTACACAGTGAACCTACTGCCCCAAAGGCGTTCTCCA

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FIGURE 4311B

GGTGACTTGTGAAAACAGACCTCCGGGGAAGTGATTTATTGGGGGTGTACACTGGGGGCAATATGGTTTAGCACT
GAATTCAATTTGTCCTTAGGTCTATGAGTGAGTCCGATCTTTTCTTGTGAAAGGTTTTGGGCATCGTACAACCCA
CTCTGCCTAGAAGGTGTGGAGGACTCACCACGGGCAGGGTCGCCCTGGCCCACAGCACGTGAGCCTGCACTCACT
GCGGCCCTTTGTAACAAAACCAGTTGTGGTCCTCAGCATTGAAGCAGCTGCATACTTCAGAGTAAACTATTTTTC
ATTATTTAGTTTTGTCACAAGAAATCGACCATTGTACTACTCTCACTTACAGCAGTTAAACAGCATAGAACTAAA
AACCTGTCTGCATTTCCATTTTTTCTTTCTGTATGGTTGTGGGTTTTAGGACATAGGGGGTTAGGAGAAGGGGTT
TCTTGATCATGTCATGAATTCTCCTTTGTCCTGTTTCTCCTGTTTCATTTCTCCTCCGCCTGCTGTATATTACCT
GAGCTGGTGTGTATCTTCAAGTCCATATGCGTATTTGCAGACCTTTCCTGTTCCCACTCTTGTTGGCTCTTCTG
ATTTATGCACAGATGGTTCCCAAGCATGTGTCCAGTGCTTCATGGATGGGACCATCCCAGCAACTAATCAGACTTC
CTGCCAGTGTCTTAACCCCCAGGGCACCCTGTTCAACCATATTTAAAAAATTGGAATTTGTATAAAAGTTGCTTCCA
AGTTTTATAATGCATCATTTTACATCTTTTGTAAATTAAGCATCACAAATGAGGTTGTCTCTGC

4678/6881
FIGURE 4312

TTTTTCTGGTAGAAGGCGGGGTTCTCCTCGTACGCTGCGGAGTCTCTGCGGGGTGTAGACCGGAATCCTGCTGAC
GGGCAGAGTGGATCAGGGAGGGAGGGTCGAGACACGGTGGCTGCAGGTCTGAGACAAGGCTGCTCCGAGGTAGTA
GCTCTCTTGCCCTGGAGGTGGCCATTTCATTCTGGAGTGTCTGCTGAGGAGCGAGGGCCCATCTGGGGTCTCTGGAA
GTCGGTGCCAGGCCCTGAAGGATAGCCCCCTTGCGCTTCCCTGGGCTGCGGCCGGCCTTCTCAGAACGAAGGGC
GTCCTTCCACCCCGCGGCGCAGGTGACCGCTGCC**ATG**GCTTTTCCCCATCGGCCGGACGCCCCCTGAGCTGCCTGA
CTTCTCCATGCTGAAGAGGCTGGCTCGAGACCAGCTCATCTATCTGCTGGAGCAGCTTCCTGGAAAAAAGGATTT
ATTTCATTGAGGCAGATCTCATGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAACACGAAGTAGA
CAAGCTATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCAGACCCCGCAT
CAAGAATATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTGGCTGGCCGAACCTCGCAAATACAAAGTGAT
CTTCAGCCCTCAAAAGTTCTATGCGTGTGAGATGGTGTCTGAGGAAGAGGGAATCTATGGAGATGTGAGCTGTGA
TGAATGGGCCTTCTCTTGTGCTGCTTGTATGTGGATCTGCTGAGCATGGAACCTACCAGAATTTTTCAGGGATTA
CTTTCTGGAAGGAGATCAGCGTTGGATCAACACTGTAGCTCAGGCCTTACACCTTCTCAGCACTCTCTATGGACC
CTTTCCAAACTGCTATGGAATTGGCAGGTGCGCCAAGATGGCATATGAATTGTGGAGGAACCTGGAGGAGGAGGA
GGATGGCGAAACCAAGGGCCGAAGGCCAGAGATTGGACATATCTTCTCTTGGACAGAGATGTGGACTTTGTGAC
AGCACTTTGCTCCCAAGTGGTTTATGAGGGCCTAGTAGATGACACCTTCCGCATCAAGTGTGGGAGTGTGCACTT
TGGCCCAAGTCAATCCTCTGACAAGAGCCTGAAGGTGCTACTCAATGCCGAGGACAAGGTGTTTAAATGAGAT
TCGGAACGAGCACTTCTCCAATGTCTTTGGCTTCTTGAGCCAGAAGGCCCGGAACCTTGCAAGGCCAGTATGATCG
CCGGAGAGGCATGGACATTAAGCAGATGAAGAATTTCTGTGTCCAGGAGCTCAAGGGCCTGAAACAGGAGCACCG
CCTGCTGAGTCTCCATATTGGGGCCTGTGAATCCATCATGAAGAAGAAAACCAAGCAGGATTTCCAGGAGCTAAT
CAAGACTGAGCATGCACTGCTAGAGGGGTTCAACATCCGGGAGAGCACCAGCTACATTGAGGAACACATAGACCG
GCAGGTGTGCTTATAGAAAGCCTGCGCCTCATGTGCCTTTTGTCCATCACTGAGAATGGTTTGTATCCCCAAGGA
TTACCGATCTCTGAAAACACAGTATCTGCAGAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAG
AGCTGGGCTCCTAACGGAGCAGGCCCCCGGGACACCCTCACAGCCGTGGAGAGTAAAGTGAGCAAGCTGGTGAC
CGACAAGGCTGCAGGAAAGATTACTGATGCCTTCAGTTCTCTGGCCAAGAGGAGCAATTTTCTGTGCCATCAGCAA
AAAGCTGAATTTGATCCACGTGTGGACGGCGAGTATGATCTGAAAGTGCCCGGAGACATGGCTTACGTCTTCAG
TGGTGCTTATGTGCCCCCTGAGCTGCCGAATCATTGAGCAGGTGCTAGAGCGGCGAAGCTGGCAGGGCCTTGATGA
GGTGGTACGGCTGCTCAACTGCAGTGACTTTGCATTACAGATATGACTAAGGAAGACAAGGCTTCCAGTGAGTC
CCTGCGCCTCATCTTGGTGGTGTCTTGGGTGGTGTGACATTCTCTGAGATCTCAGCCCTCCGGTTCTTGGGCAG
AGAGAAAGGCTACAGGTTCAATTTCTGACGACAGCAGTCACAAACAGCGCTCGCCTTATGGAGGCCATGAGTGA
GGTGAAGGCC**TGA**TGTTTTTCCCGGCCAGTGTGACATCTTCCCTGAACACATTCTCAGTGAGATGCAGGCATC
TGGCACCCAGCTGCTATAACCAAGTGTCCACCAACTACCTGCTAAGAGCCGGGAGCATGGAACGTGTTGGGATTT
AGAGAACATTATCTGAGAAAAGAGTTCATTCTCTGCTCCAGGATATTTCTCTTTTCTGTTTATGAAGTACAACC
CATGCTGCTAAGATGCGAGCAGGAAGAGGCATCCTTTGCTAAATCCTGTTTGAATGTCATTGTAAATAAAGCCTC
TGCTCTCAGATGTAAAAA

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FIGURE 4313

MAFPHRPDAPELPDFSMKRLARDQLIYLLLEQLPGKKDLFIEADLMSPLDRIANVSILKQHEVDKLYKVENKPAL
SSNEQLCFLVRPRIKNMRYIASLVNADKLAGRTRKYKVIFSPQKFYACEMVLEEEGIYGDVSCDEWAFSLLPLDV
DLLSMELPEFFRDYFLEGDQRWINTVAQALHLLSTLYGFFPNCYGIGRCAKMAYELWRNLEEEEDGETKGRRPEI
GHIFLLDRDVDFVTALCSQVVYEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFNEIRNEHFSNVFGF
LSQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLLSLHIGACESIMKKKTKQDFQELIKTEHALLEGFN
IRESTSYIEEHIDRQVSPIESLRMLCLLSITENGLIPKDYRSIKTQYLQSYGPEHLLTFSNLRRAGLLTEQAPGD
TLTAVESKVSKLVTDKAAGKITDAFSSLAKRSNFRAISKLNLI PRVDGEYDLKVPRDMAYVFSGAYVPLSCRII
EQVLERRSWQGLDEVVRLNCSDFAFDTMTKEDKASSESLRLILVVFLGGCTFSEISALRFLGREKGYRFIFLTT
AVTNSARLMEAMSEVKA

4680/6881
FIGURE 4314

GACGGGACGCGACGCCAATCGCGACGAGGCTTCGCCCCGTGGCGCGGTTTGAAATTTTTCGGGGCTCAACGGCTC
GCGGAGCGGCTACGCGGAGTGACATCGCCGGTGTTTTCGGGTGGTTGTTGCTCTCGGGGCCGTGTGGAGTAGGTC
TGGACCTGGACTCACGGCTGCTTGGAGCGTCCGCCATGAGGAGAAGTGAGGTGCTGGCGGAGGAGTCCATAGTAT
GTCTGCAGAAAGCCCTAAATCACCTTCGGGAAATATGGGAGCTAATTGGGATTCCAGAGGACCAGCGGTTACAAA
GAACTGAGGTGGTAAAGAAGCATATCAAGGAACTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAA
GACTCATCAAAAGCATATCCGTCTGTCAGAAAGAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTC
AGGTCCGTGGCAGCCACAGGGTCTCTGGTGATCTGTCTGGGGCCTGAGACTTAGAAAGCAACGTTGACTTGGGC
CTGCAGATGGAAGGCTTCCTCGTAGGGATGGAGCTAGACGAAGAAGGAGAGACGACCATCTTGCAACTAGAAAAA
GATTTGCGCACCCAAGTGGAATTGATGCGAAAACAGAAAAGGAGAGAAAACAGGAACTGAAGCTACTTCAAGAG
CAAGATCAAGAACTGTGCGAAATTCTTTGTATGCCCCACTATGATATTGACAGTGCCTCAGTGCCCAGCTTAGAA
GAGCTGAACCAAGTTCAGGCAACATGTGACAACTTTGAGGGAAACAAAAGACATTTCTTTTCGGGAGGCTAGAGGGC
TAGCCTCTGTGCTGCTGCTTTGCCGTGAGTGACACTGGCTTTCTATGCTGTAGCTGGAAATGCAGAAATCACAAA
ATGAAGCAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGG

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FIGURE 4315

GGCACGAGGGGCGTTTTCCTCCAAGGCTGCCCACCAGAAGGACCTGCCCCGAGAGGGTAGAGGGCATAGGGTCAAGA
TCAAGATAAGGCAGCTCCAGCCCCCTGGAAGGCCAGAGACTTGCCAGTGTCCCACTAGCGGGCTCTTCGCAAGAAT
CCCCCGGGGCGCCGAGCCAGGCGGGCGGCCGAGAGGGCGCTGCTCGGGCATGGCGGAGGAGCGGGCCGGGGG
CCTGGTTTCGGCTTCGGTTTCTGCGGCTTCGGGCAGGAGCTGGGCTCCGGACGCGGGCGCCAGGTGCACAGCCCCA
GTCCGCTGCGGGCGGGCGTTCGACATCTGCCGCGTGAGCGCGAGCTGGAGCTACACCGCTTTTCGTGACCCGTGAGC
ACTCCCCGCCCCGTCCCCACTTATTCCAGCCGCGCTCCCCAGTCGCTCCCCGCACCGCTGTGGCCAGTCCAGTT
TGTCTCCCCCGTTTCAGGCCGCCAGCCCCACATTCTGGGTGGTCCCCAATTCGACCCCTTCCCAGGAACACCCCCG
CTCCCCCATCCCCGCGCCTCCATTCTGGCCACCCTGCTCCAATCCGCCCCGAGGTGGAGGCCGCTTGGAGCT
GTCGGGCTCAGCCAGCGCGCGGGCGGGCCGCTGCAAGGACGCGTGGGCCTCGGAGGGGCTCCTCGCGGTGCTGCG
CGCCGGGCGGGGCGGAGGCGTTACTGCAGGTCTGGGCGGCCGAATCGGCGCTGCGTGGGGAGCCATTGTGGGC
CCAGAATGTGGTGCCCCGAGGCCGAAGGGGAAGACGATCCGGCCGCTGAGGCCAGGCTGGGAGGCTACCCCTGCT
GCCCTGCGCCCGTGCTACGTGAGCCCGCGGGCGCCCTTCTACCGGCCTCTGGCTCCGGAGCTGCGGGCACGCCA
GCTGGAGCTGGGCGCCGAGCACGCGTTGCTGCTGGACGCTGCTGGCCAGGTGTTCTCCTGGGGCGGGGGCAGGCA
TGGACAGCTGGGCCATGGGACCCTGGAGGCAGAGCTGGAGCCACGGCTGTTGGAGGCGTTGCAGGGCCTAGTCAT
GGCTGAGGTGGCCGCGGGGGGCTGGCATTCTGTGTGTGTGAGTGAGACTGGGGATATTTATATCTGGGGCTGGAA
TGAATCAGGGCAGCTGGCCCTGCCACCAGGAACCTGGCAGAGGATGGAGAGACTGTCGCAAGGGAAGCCACAGA
ACTGAATGAAGATGGTTCTCAGGTGAAGAGAACGGGTGGGGCTGAGGATGGAGCCCCTGCCCCCTTCATAGCTGT
CCAGCCCTTCCCGGCATTACTGGATCTCCCATGGGCTCAGATGCAGTCAAGGCCAGCTGTGGATCCCGGCACAC
AGCTGTGGTGACACGAACAGGGGAGCTCTACACCTGGGGCTGGGGTAAATATGGACAGCTGGGCCACGAGGACAC
CACCAGCTTGGATCGGCCTCGCCGTGTGGAATACTTTGTAGATAAGCAACTCCAAGTAAAGGCTGTACCTGTGG
GCCGTGGAACACCTACGTGTATGCTGTGGAGAAAGGGAAGAGCTTGACATGTGTACGTATATGTATATGCAACACC
TGTGAGACCCCCATTTCAGGTCAAGGAAAACCATTCCTGCACCCCAAGGGCCCCATATTTGCCCTCCCCATCAC
AGTCCTGCCCTTCACCCTCAAGCACGGTCCTAAACTTGTCTGCACTTTAGAAACACCTGGAGAGCATTGAAAAC
CTGCTGCCTAAGGTCAGCATCAATCAAAACAATGAAATCAATGAAACAATGAAACCAGAGCTTCTAGGTGTGTGG
CCTGGATAGTGGTAGATTCAAAGCTCCACCCACCTCATCCCAGGTACATTTGATGTGCAGCTGAGATTGGGGCAC
ATTCCAGGTCATCGTCTTCTGTGAGTCATTTCCCTGCTTTTCGTTTGAATTTTACCATTCTGTATGCAGCCTTAT
ACGACATAGTTGTGTTTGTCTTTGAGTGTTAGATAAATGGAATCCTGTGTATGTGCTTTTGTGTCGTTTTTGTCA
CTCAGCATTGTATAATCCATCCTTGTGGGTCTGGAGTTTATTTTAAATGCTATATGGTGTTCTGTTGTATGAA
TAATACCTCAAGTGATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 4316

MAEVAAGGWHSVCVSETGDIYIWGWNESGQLALPTRNLAEDGETVAREATELNEDGSQVKRTGGAEDGAPAPFIA
VQFFPALLDLPMGSDAVKASCGSRHTAVVTRTGELYTWGWGKYGQLGHEDTTSLDRPRRVEYFVDKQLQVKAVTC
GPWNTYVYAVEKGKS

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FIGURE 4317

CGCCCGCGGCCGAGGTGGACGGAGCCTCCCGGCTCGCTGCTCCCGCCGGCGGAGCGAGGCTGCCCTTTCTTCGCA
GCGTGATTTATTTTCTTCTTTTTTCTGAACTCTTCTTCCAGGGAGAGGCTAGTGGTAACAGGCCGAGCTGGATG
GATGGGTATGGGGAGAGGGGCAGGACGTTCAGCCCTGGGATTCTGGCCGACCCTCGCCTTCTTCTCTGCAGCTT
CCCCGCAGCCACCTCCCCGTGCAAGATCCTCAAGTGCAACTCTGAGTTCTGGAGCGCCACGTGCGGCAGCCACGC
CCCAGCCTCAGACGACACCCCCGAGTTCTGTGCAGCCTTGCGCAGCTACGCCCTGTGCACGCGGCGGACGGCCCCG
CACCTGCCGGGGTGACCTGGCCTACCACTCGGCCGTCCATGGCATAGAGGACCTCATGAGCCAGCACAACTGCTC
CAAGGATGGCCCCACCTCGCAGCCACGCCTGCGCAGCTCCACCCGGCCGGAGACAGCCAGGAGCGCTCGGACAG
CCCCGAGATCTGCCATTACGAGAAGAGCTTTCACAAGCACTCGGCCACCCCCAACTACACGCACTGTGGCCTCTT
CGGGGACCCACACCTCAGGACTTTCACCGACCGCTTCCAGACTTGCAAGGTGCAGGGCGCCTGGCCGCTCATCGA
CAATAATTACCTGAACGTGCAGGTACCAACACGCCTGTGCTGCCCGGCTCAGCGGCCACTGCCACCAGCAAGCT
CACCATCATCTTCAAGAACTTCCAGGAGTGTGTGGACCAGAAGGTGTACCAGGCTGAGATGGACGAGCTCCCCGC
CGCCTTCGTGGATGGCTCTAAGAACGGTGGGGACAAGCACGGGGCCAAACAGCCTGAAGATCACTGAGAAGGTGTC
AGGCCAGCACGTGGAGATCCAGGCCAAGTACATCGGCACCAACATCGTGGTGCGCCAGGTGGGCCGCTACCTGAC
CTTTGCCGTCCGCATGCCAGAGGAAGTGGTCAATGCTGTGGAGGACTGGGACAGCCAGGGTCTCTACCTCTGCCT
GCGGGGCTGCCCCCTCAACCAGCAGATCGACTTCCAGGCCTTCCACACCAATGCTGAGGGCACCGGTGCCCGCAG
GCTGGCAGCCGCCAGCCCTGCACCCACAGCCCCGAGACCTTCCCATACGAGACAGCCGTGGCCAAGTGCAAGGA
GAAGCTGCCGGTGGAGGACCTGTACTACCAGGCCTGCGTCTTCGACCTCCTCACCACGGGCGACGTGAACCTTAC
ACTGGCCGCTACTACGCGTTGGAGGATGTCAAGATGCTCCACTCCAACAAAGACAACTGCACCTGTATGAGAG
GACTCGGGACCTGCCAGGCAGGGCGGCTGCGGGGCTGCCCTGGCCCCCGGCCCTCCTGGGCGCCCTGGTCCC
GCTCCTGGCCCTGCTCCCTGTGTTCTGCTTAGACGCGTAGATGTGGAGGGAGGCGCGGGCTCCGTCCTCTCGGCTT
CCCCATGTGTGGGCTGGGACCGCCACGGGGTGCAGATCTCCTGGCGTGTCCACCATGGCCCCGAGAAGCCAG
GGACCGCCTGCTGCCAAGGGCTCAGGCATGGACCCCTCCCTTCTAGTGACGTGACAAGGTTGTGGTGAAGTGGT
GCCGTGATGTTTGACAGTAGAGCTGTGTGAGAGGGAGAGCAGCTCCCCTCGCCCCGCCCTGCAGTGTGAATGTG
TGAAACATCCCCTCAGGCTGAAGCCCCCACCACAGAGACACACTGGGAACCGTCAGAGTCAGCTCCTTCC
CCCTCGCAATGCACTGAAAGGCCCGGCCGACTGCTGCTCGCTGATCCGTGGGGCCCCCTGTGCCCGCCACACGCA
CGCACACACTCTTACACGAGAGCACACTCGATCCCCCTAGGCCAGCGGGACACCCACAGCCACACAGGGAGGCAT
CCTTGGGGCTTGGCCCCAGGCAGGGCAACCCCGGGGCGCTGCTTGGCACCTTAGCAGACTGCTGGAACCTTTTGG
CCAGTAGGTCGTGCCCGCCTGGTGCTTCTGGCCTGTGGCCTCCCTGCCCATGTTACCTGGCTGCTGTGGGTAC
CAGTGCAGGTCCCGTTTTTACGGCACCTGCTCAGCTGCCCGTCTCTGGCCTGGGCCCCCTGCCCTTCCACCCTGT
GCTTAGAAAGTCGAAGTGCTTGGTTCTAAATGTCTAAACAGAGAAGAGATCCTTGACTTCTGTTCCTCTCCCTCC
TGCAGATGCAAGAGCTCCTGGGCAGGGGTGCCTGGGCCCCAGGGTGTGGCAGGAGACCCAGTGGATGGGGCCAGC
TGGCCTGCCCTGATCCTCTGCTTCCCTCACAACCCCAAGAGCCCCCAGCCCGGTCCATCCACGTCTGGAGTCT
GGGGAGAGGAGCAGGGTCTTAGGACTCTCAGCTCTGAGCATCCCTGGCAGGGTCTTCAACCTCTAATCTCTTCCC
TTAAGCCCTGTGGCCACACAGCCAGGAGAGACTTGCCGCTGGCTCCCGCCTCATTTACAGCCAGGGTGTCTATCC
AGGGGCCCAGAACAGTCCACCTGTGCTGCTATGCCACAGCACAAAGCCAGGCTTCACTCCCAAAGTGCAGCC
AGGCCCTGGAGGGTGATCCTGCCAGCAGCCCTACAGCTCCACACCCTACCCACCCATCGGCAGCCCTCTGCTGT
TCCCCAGGGACCTCTCATACTAGGCCAGGAGGCTGCAGAACGTGTGTCTCCCCCTCCCTCCAAGAGGTCTGCT
CCCTCTGCCAGAACCGTGTGTGGGCGGGTGGGAGGGCGCTCGGGGCCCGGCCCTCCCTCTCCCTGCTGGTTTTA
GTTGGTCCCTATGTTGGAAGTAAAAAGTGAAGCACTTTATTTTGGTTGTGTTTGTCTACGTTCTGCTTGAAGTG
GGGACCCCTCACTGCGTCCACGTGTCTGCGACCTGTGTGGAGTGTACCGCGTGTACATACTGTAAATTATTTAT
TAATGGCTAAATGCAAGTAAAGTTTGGTTTTTTTGT

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FIGURE 4318

MGMGRGAGRSALGFWPTLAFLLCSFPAATSPCKIILKCNSFWSATSGSHAPASDDTPEFCAALRSYALCTRRTAR
TCRGDLAYHSAVHGIEDLMSQHNSKDGPTSQPRLRTLPPAGDSQERSDSPEICHYEKSFHKHSATPNYTHCGLF
GDPHLRTFTDRFQTCKVQGAWPLIDNNYLNQVNTNTPVLPGSAATATSKLTIIFKNFQECVDQKVYQAEMDELPA
AFVDGSKNGGDKHGANSKITEKVSQHVHVEIQAKYIGTTIVVRQVGRYLTFAVRMPEEVVNAVEDWDSQGLYLCL
RGCPLNQQIDFQAFHTNAEGTGARRLAAASPAPTAPETFPYETAVAKCKEKL PVEDLYYQACVFDLLTTGDEVNFT
LAAYYAL EDVKMLHSNKYKLHLYDRTRDLPGRAAAGLPLAPRPLL GALVPLLALLPVFC

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FIGURE 4319

AGCCGGTGCGCCGCGAGACTAGGGCGCCTCGGGCCAGGGAGCGCGGAGGAGCCATGGCCACCGCTAACGGGGCCGT
GGAAAACGGGCAGCCGGACAGGAAGCCGCCGGCCCTGCCGCGCCCCATCCGCAACCTGGAGGTCAAGTTACCAA
GATATTTATCAACAATGAATGGCACGAATCCAAGAGTGGAAAAAGTTTGCTACATGTAACCCCTCAACTCGGGA
GCAAATATGTGAAGTGAAGAAGGAGATAAGCCCGACGTGGACAAGGCTGTGGAGGCTGCACAGGTTGCCTTCCA
GAGGGGCTCGCCATGGCGCCGGCTGGATGCCCTGAGTCGTGGGCGGCTGCTGCACCAGCTGGCTGACCTGGTGGA
GAGGGACCGCGCCACCTTGGCCGCCCTGGAGACGATGGATACAGGGAAGCCATTTCTTCATGCTTTTTTCATCGA
CCTGGAGGGCTGTATTAGAACCCTCAGATACTTTGCAGGGTGGGCAGACAAAATCCAGGGCAAGACCATCCCCAC
AGATGACAACGTCGTGTGCTTACCAGGCATGAGCCCATTGGTGTCTGTGGGGCCATCACTCCATGGAACCTCCC
CCTGCTGATGCTGGTGTGGAAGCTGGCACCCGCCCTCTGCTGTGGGAACACCATGGTCCTGAAGCCTGCGGAGCA
GACACCTCTCACCGCCCTTTATCTCGGCTCTCTGATCAAAGAGGCGGGTTCCCTCCAGGAGTGGTGAACATTGT
GCCAGGATTGGGGCCACAGTGGGAGCAGCAATTTCTTCTACCCCTCAGATCAACAAGATCGCCTTACCAGGCTC
CACAGAGGTTGGAAAACCTGGTTAAAGAAGCTGCGTCCCGGAGCAATCTGAAGCGGGTGACGCTGGAGCTGGGGGG
GAAGAACCCCTGCATCGTGTGTGCGGACGCTGACTTGGACTTGGCAGTGGAGTGTGCCCATCAGGGAGTGTCTT
CAACCAAGGCCAGTGTTGCACGGCAGCCTCCAGGGTGTTCGTGGAGGAGCAGGTCTACTCTGAGTTTGTGAGGCG
GAGCGTGGAGTATGCCAAGAAACGGCCCCGTGGGAGACCCCTTCGATGTCAAAACAGAACAGGGGCCCTCAGATTGA
TCAAAAGCAGTTTCGACAAAATCTTAGAGCTGATCGAGAGTGGGAAGAAGGAAGGGGCCAAGCTGGAATGCGGGGG
CTCAGCCATGGAAGACAAGGGGGCTCTTCATCAAACCCACTGTCTTCTCAGAAAGTCACAGACAACATGCGGATTGC
CAAAGAGGAGATTTTCGGGCCAGTGCAACCAATACTGAAGTTCAAAAGTATCGAAGAAGTGATAAAAAGAGCGAA
TAGCACCGACTATGGAATCAGAGCAGCCGTGTTCAAAAAAATCTCGACAAAGCCCTGAAGTTGGCTTCTGCCTT
AGAGTCTGGAACGGTCTGGATCAACTGCTACAACGCCCTCTATGCACAGGCTCCATTTGGTGGCTTTAAAATGTC
AGGAAATGGCAGAGAAGTGGTGAATACGCTTTGGCCGAATACACAGAAGTGAAAACCTGTACCATCAAACCTGG
CGACAAGAACCCCTGAAGGAAGGCGGGGCTCCTTCTCAAACATCGGACGGCGGAATGTGGCAGATGAAATGTG
CTGGAGGAAAAAATGACATTTCTGACCTTCCCGGGACACATTCTTCTGGAGGCTTTACATCTACTGGAGTTGAA
TGATTGCTGTTTTCTCTCACTCTCCTGTTTATTACCAGACTGGGGATGCCTATAGGTTGTCTGTGAAATCGCA
GTCCTGCCTGGGGAGGGAGCTGTTGGCCATTTCTGTGTTTCCCTTTAAACCAGATCCTGGAGACAGTGAGATACT
CAGGGCGTTGTTAACAGGGAGTGGTATTTGAAGTGTCCAGCAGTTGCTTGAAATGCTTTGCCGAATCTGACTCCA
GTAAGAATGTGGGAAAACCCCTGTGTGTTCTGCAAGCAGGGCTCTTGCAACAGCGGTCTCCTCAGGGTGGACCT
GCTTACAGAGCAAGCCACGCCTCTTCCGAGGTGAAGGTGGGACCATTCCCTTGGGAAAGGATTACAGTAAGGTT
TTTTGGTTTTTTGTTTTTGTCTTTTAAAAAAGGATTTACAGTGAGAAAGTTTTGGTTAGTGCATAC
CGTGAAGGGCGCCAGGGTCTTTGTGGATTGCATGTTGACATTGACCGTGAGATTCGGCTTCAAACCAATACTGC
CTTTGGAATATGACAGAATCAATAGCCCAGAGAGCTTAGTCAAAGACGATATCACGGTCTACCTTAACCAAGGCA
CTTTCTTAAGCAGAAAAATATTGTTGAGGTTACCTTTGCTGCTAAAGATCCAATCTTCTAACGCCACAACAGCATA
GCAAAATCCTAGGATAATTCACCTCCTCATTTGACAAATCAGAGCTGTAATTCGCTTTAACAATACTACGCATTTCT
ATCACGTTCACTAACAGCTTATGATAAGTCTGTGTAGTCTTCTTTTCTCCAGTTCTGTTACCCAATTTAGATTA
GTAAAGCGTACACAAGTGGAAAGACTGCTGTAATAACACAGCCTTGTTATTTTTTAAGTCCTATTTTGATATTAAT
TTCTGATTAGTTAGTAAATAACACCTGGATTCTATGGAGGACCTCGGTCTTCATCCAAGTGGCCTGAGTATTTCA
CTGGCAGGTTGTGAATTTTTCTTTTCTTTGGGGATCCAAATGATGATGTGCAATTTTCATGTTTTAACTTGGG
AAACTGAAAGTGTTCCTATATAGCTTCAAAAACAAAACAAATGTGTTATCCGACGGATACTTTTATGGTTACTA
ACTAGTACTTTTCTAATTGGGAAAGTAGTGCTTAAGTTTTGCAAATTAAGTTGGGGAGGGCAATAATAAATGAGG
GCCCCGTAACAGAACCAGTGTGTGTATAACGAAAACCATGTATAAAATGGGCCTATCACCCCTGTGTCAGAGATATAA
ATTACCACATTTGCCTTCCCTTCATCAGCTAACACTTATCACTTATACTACCAATAACTTGTTAAATCAGGATTT
GGCTTCATACACTGAATTTTCAGTATTTTATCTCAAGTAGATATAGACACTAACCTTGATAGTGATACGTTAGAG
GGTTCCTATTCTTCCATTGTACGATAATGTCTTTAATATGAAATGCTACATTATTTATAATTGGTAGAGTTATTG
TATCTTTTTATAGTTGTAAGTACACAGAGGTGGTATATTTAAACTTCTGTAATATACTGTATTTAGAAATGGAAA
TATATATAGTGTTAGGTTTCACTTCTTTAAGGTTTACCCCTGTGGTGTGGTTAAAAATCTATAGGCCTGGGAA
TTCCGATCCTAGCTGCAGATCGCATCCCAATGCGAGAATGATAAAATAAAATTTGGATATTTGAGA

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FIGURE 4320

GAATTCCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCTTTGTTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTCACCAATAATAGTCTCGTGGAAGTGGGTGATCTGG
ACCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTTATAAAGTTCCGCAAGTCAGAGTACTGGATTTCAGAAAGTGAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGCACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTA
ATCCAGGTGCTGGTTTGCCAACTGACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGGAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTT
TTGAAATCTAAATGTCAATTTTCTACAAATTATAAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAGGA
ATTC

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FIGURE 4321

MVKLTAE~~IE~~QAAQYTN~~AV~~RDRELDLRGYKIPV~~IE~~NLGATLDQF~~DA~~IDFSDNEIRKLDGFLLRRLK~~TLL~~VNNNR
ICRIGEGLDQALPCLTELILTNNSLVELGDLDPLASLKS~~LT~~YLSILRNPVTNKKHYR~~LY~~VIYKVPQVRVLD~~F~~QKV
KLKERQ~~E~~A~~E~~KMF~~K~~GKRG~~A~~QLAKDIARRSKTFNPGAGLPTDKKRG~~G~~PSPGDVEAIKNAIANASTLAE~~VER~~LKGLLQ
SGQIPGRERRSGPTDDGEEEMEEDTVTNGS

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FIGURE 4322

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCCAGGGC
ACCTTCAAAGTGAAGTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGGAACGTGAT
GTTCTCTTCCCGGGGTACACCCATTTGCAGAGGGCCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCC
GTGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCCTGCCCCTGGGGAGGTGG
GGCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCT
CAACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCA
TCTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTA
CAGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCG
TGTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGA
GGACAAGGAAGCTGTGTTTGAAGTGTGACACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTAC
GCTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCTATTACCT
GGTCCGCAAAGGGATGCCATTCCGCCAGGCCCACGAGGCCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGG
GGTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGT
GTGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCGACTGGCAGAT
CCGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCTCCACACCTGCCCCCTAATAAAGTGGGCGC
GAG

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FIGURE 4323A

GCACCAGAAGCCAGCAGTGGGGTTGCACACGCGCCTCTTCACGAGGTGGAAACAAGATGGAGGATTTCGGCCTCGG
CCTCGCTGTCTTCTGCAGCCGCTACTGGAACCTCCACCTCGACTCCAGCGGCCCCGACAGCACGGAAGCAGCTGG
ATAAAGAACAGGTTAGAAAGGCAGTGGACGCTCTCTTGACGCATTGCAAGTCCAGGAAAAACAATTATGGGTTGC
TTTTGAATGAGAATGAAAGTTTATTTTTAATGGTGGTATTATGGAAAATTCCAAGTAAAGAACTGAGGGTCAGAT
TGACCTTGCCTCATAGTATTCGATCAGATTGAGAAGATATCTGTTTATTTACGAAGGATGAACCCAATTCAACTC
CTGAAAAGACAGAACAGTTTTATAGAAAGCTTTTAAACAAGCATGGAATTAAAACCGTTTCTCAGATTATCTCCC
TCCAAACTCTAAAGAAGGAATATAAATCCTATGAAGCCAAGCTCCGCCTTCTGAGCAGTTTTGATTTCTTCCTTA
CTGATGCCAGAATTAGGCGGCTCTTACCCTCACTCATTGGGAGACATTTCTATCAAAGAAAAGAAAGTTCCAGTAT
CTGTAAACCTTCTGTCCAAGAATTTATCAAGAGAGATCAATGACTGTATAGGTGGAACAGTCTTAAACATTTCTA
AAAGTGGTTCTTGACAGTGCTATACGTATTGGTCACGTTGGAATGCAAATTGAGCACATCATTGAAAACATTGTTG
CTGTCACCAAAGGACTTTTCAGAAAAATTGCCAGAGAAGTGGGAGAGCGTGAAACTCCTGTTTGTGAAAACCTGAGA
AATCGGCTGCACTTCCCATCTTTTCTCGTTTGTGAGCAATTGGGATGAAGCCACCAAAAGATCTTTGCTTAATA
AGAAGAAAAAGAGGCAAGGAGAAAAACGAAGAGAAAGAAATTTGAAAAACAAAAGGAGAGGAAGAAGAAGAGGC
AGCAGGCTAGGAAGACTGCATCAGTTCTTAGTAAAGATGATGTGGCACCTGAAAGTGGTGATACTACAGTGAAGA
AACCTGAATCAAAGAAGGAACAGACCCCCAGAGCATGGGAAGAAAAACGTGGCAGAGGAAAAGGCCAAGTTAAAG
CAACAAATGAATCCGAAGACGAAATCCCACAGCTGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAG
AGATTCAAAAACATGCCACAGGAAAGAAGTCTCCAGCAAAGAGTCCCTAATCCCAGCACACCTCGTGGGAAGAAAA
GAAAGGCTTTGCCAGCATCTGAGACCCCCAAAAGCTGCAGAGTCTGAGACCCCAGGGAAAAAGGCCAGAGAAGAAGC
CAAAAATCAAAGAAGAGGCAGTGAAGGAAAAAAGTCCTTCGCTGGGGAAAAAAGATGCGAGACAGACTCCAAAAA
AGCCAGAGGCCAAGTTTTTTCACCACTCCTAGTAAATCTGTGAGAAAAGCTTCCCACACCCCCAAAAAATGGCCCA
AAAAACCCAAAGTACCCAGTCGACCTAAAGTCAGTGATTCAACTGGAAGGAAACCTCAATGCTGCCTCCAGAGC
TTTTTGAAATACTCAGATCCTGGCCGCTTTGTAACCTTCTCTAAACGTCAGGCCTGGACTTAAAAGATTTTTT
AAAACCTCCATAAGTAGTCCAGGGGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGCAGGCGG
ATCACAAGGTCAACGAGATCGAGACCATCCTGGCCAACATGGTGAACCCCTGTCTGTACCAAAAATACAAAAT
AATTGGGCATGGTGGTGGACACCTGTAATCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG
AGGCGGAGGTTGCAGTGAGCCACTGCACTCCAGCCTGATGACAGAGCAAGACTCAGTCTCAAAAATAAATAAAAA
TAATAAAACCTCCATAAGTAATCCTGACATATGTTCTGGGTATAATCTGTTTCTAAATTGTCCTTCTGTGTATT
TGCTAATGTAATAGAGGGAATAATAGAGTGCTTCTGTGTGGTTGTTTACGCACTTTAGGTAGCCAAGGTGAGAGGA
TTGCTTGAGGCCAGGAGTTTGAGACTAGCCTGGGCAACTTGGTAAAACCCCATCTCTACAAAAGAAAAA
TTAGTGTGGCATGGTGGCATGCATCTGTGCTCCAGCTCCTCACGAGGCTGAGGTGGAAGGATCAAGTGAGCGCA
AGAGGTTGAGGCTCCAGTGAGCCACGATCACCCCACTGTGCTGTAGCCTGGGTGACAGTGTGAGATTCTGTCTCA
GAAAAACAAAGTATAACATTGCTTTGCTTCTGAGTATACTGTTGGCTTTTCAAATCAGTGGGTCTGACTTGAGG
TCTGTGATGTGACCTTTTCTCCTCACCTGCTCAACCATTATTCACATGGACTCCATCATATTCAATTGTAGTCATT
CCCAGAGTGGCCAGTGAGGGTCTCGCTGTATGAGAGTCGGCTACGGAATTTAGGAGAAACAGAAGTTTCTTGGC
TTTCATGCTGAGCTTGTGGTCTAAGCTTATGAGTCACCTGGATTAGCATCCATATGGGAAGGGAAATTAACATGG
AGTCATTTATACAGGGACTAAATTGAATCCTACCTACCGGAGGCAAGAACATGATTTATCTTCCATAAGCCTTAT
CCTCTTCTCCTTATTCTCAGTCCATATGGATTGCTTATGTATGACAACTCCAAGGAATCTTGGAAGAGTAGA
TTGCTAACGTTTCCACAATTGTCAAGTATATTCTGAGGCAGTAAACACCTTTTTAGGTACGTGGCCTTTCACTGG
TTGTGAATTGGTATGCATCCGTAGTAGTAAGTTTACAGATTCACTGCAGTGCAGGAATGTTCTTGCATGCCAAAG
ACTCAACTGCTTTCAAAGATAATGTGGGTGCTAGATGCAGTGGCTTACATCTGTAAACCTGTTAGGGTGACCAGA
CCCAACACCAGGTCTGTGGGGTGACAAAGTCCAGTGGAGTCAAAGGATTGAGAAAAAGACAGTTTGAAGAGAGAAG
TAGGACCAGCAGACCATCGGGATGGTGGAGGCTGTGAAGGCCGTGAGCTCTGGGAGCCCACACTATTTATTGGTA
ATCCAACAAAGAAACAGATGGTGAGAATGTGAAGGTGAGAAGGGCACCTTGCAATTAAGCACATGATTTACAGCTG
TGATGGTTTAGCATTGCTCTGCTACTTGAGATGATGGAAGAGCAGGTTCTTTTAACTCAAGTTACAGTCGATCCT
GGGAGAGCAAGGAGCCAGCAAGTCTAGACATTCCAGAGCCACAGGCCCTGGATTTTATCCAAGCCACGAGGGATT
TTATGCCCTGGGCTTAGATTATGGTGGCTCAGGGCAGCCTTCCACCCTTTAGCACAGAGCTTGGTGTTCCAAAGA
CCACAAGGGGTTTTAGACCCTTGACCCTGGACATATCCAAGACTCTTTTACATTATGTCAGAATGCAAGCCCTG
CCTCAGCTTCTCCCAACACTCAGCTTTTCGCAACATAATCCCAGCACTTTGGAACGCTGGGTGGATTGCTTGAAC

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FIGURE 4323B

CCAGGAGTTTCGAGACCATCCTGGGCAATATGGCAAAACCCCATCTTTACCAAAAATAAGCTGGGTGTGGTGGAAC
ATGCCTGTGGTCCCAGCTTCTTGGGAGGCTGAGGTGGGAGGATTGCTTGAACCCGGGAGGTAGAGGCTGCAATGG
GCCATGATCACGATCCTGCACTCCAGCCTGGGCAACAGAGAGAGACAGTCCCTGGCCCACTGCCCCCTTCCCTGG
CCCAGTCTCAAAAAAATGAGGCTGGGCGTGGTGGCTCACATCTGTAATCCAGCCAAGGCTGGCAGATCACTTG
AGGCCAGGAGTTCTGAGACCAGCCTGGCTTACATGGTGAAACCCCATCTCTACTAAAAATACAAAAACTAGCCAG
GCATGGTGGGAGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCACTTTAACCCGGGAGGTGG
AGGTTGCAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGGCGGCAGAGCAAACTGAAAAAAGAGAAAAA
AAAAAA

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FIGURE 4324

MEDSASASLSSAAATGTSTSTPAAPTARKQLDKEQVRKAVDALLTHCKSRKNNGLLLNENESLFLMVVLWKIPS
KELRVRLTLPHSIRSDSEDICLFTKDEPNSTPEKTEQFYRKLLNKHGIKTVSQIISLQTLKKEYKSYEAKLRLLS
SFDFFLTDARIRRLPSLIGRHFYQRKKVPVSVNLLSKNLSREINDCIGGTVLNISKSGSCSAIRIGHVGMQIEH
I IENIVAVTKGLSEKLPEKWESVKLLFVKTEKSAALPIFSSFVSNWDEATKRSLLNKKKKGGKEKTKRKKF

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FIGURE 4325

CCAGCCACTTCCGCTGGTCGGCGCTGGAGGTGTCCGTGGGCTTGTTACACGTCCCTGTGCCAGTACTTCAGCGAGG
AGGATGTGGTGTGGCGGACAGAGGGGCTGCTGCCCCTGGAGGAGACCTCGCCCCGCCAGGCCGTCTGCCTCACCC
GCCACCTCACCGCCTTCGGCGCCAGCCTCTTCATGCCCCCAAGCCATGAGCCGACAGCGGATGTAAACTACATCG
TCATGCTGACATGTGCTGTGTGCCTGGTGACCTACATGGTCATGGCCGCCATCCTGCACAAGCTGGACCAGTTGG
ATGCCAGCCGGGGCTGCGCCATCCCCTTCTGTGGGCAGCGGGGCCGCTTCAAGTACGAGATCCTCGTCAAGACAG
GCTGGGGCCGGGGCTCAGGTACCACGGCCACGTGGGCATCATGCTGTATGGGGTGGACAGCCGGAGCGGCCACC
GGCACCTGGACGGCGACAGAGCCTTCACCGCAACAGTCTGGACATCTTCCAGATCGCCACCCCGCACAGCCTGG
GTAGCGTGTGGAAGATCCGAGTGTGGCACGACAAAGGGCTCAGCCCTGCCTGGTTCCTGCAGCACATCATCGTCA
GGGACCTGCAGACGGCACGCAGCACCTTCTTCCTGGTC

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FIGURE 4326

CTGGGGCTGTGACCGTGGGGTCTGAAGCGCGCTGCGCGGCGGGCTGGCGGGCGGGCTGGGGCGGGGCGCTGGGC
TGTCAGCCGGCCTAGGAGGAGGAAGGAGCCTGCGGCGTGCAGTGTGAGGGGCGGGACCCGGCTGCCGGCGGTGGG
TCTAGCTGGGGGAGGTCGGGCCATGCTGGTGGGCCAGGGCGCGGGGCCGCTGGGGCCCGGGTGGTCACCGCCGC
GGTGGTGTCTGTGCTGAGCGGCGTGGGGCCGGCGCACGGCTCGGAGGACATCGTGGTGGGCTGCGGTGGCTTCGT
CAAGTCGGACGTGGAGATCAACTACTCTCTCATCGAGATAAAGCTGTACACCAAGCATGGGACTTTGAAATACCA
GACAGACTGTGCCCTAATAATGGTTACTTTATGATCCCTTTGTATGATAAGGGGGATTTCATTCTGAAGATTGA
GCCTCCCCTAGGGTGGAGTTTTGAGCCGACGACCGTGGAGCTCCATGTGGATGGAGTCAGTGACATCTGCACAAA
GGGTGGGGACATCAACTTTGTCTTCACTGGGTTCTCTGTGAATGGCAAGGTCCCTCAGCAAAGGGCAGCCCCCTGGG
TCCTGCGGGAGTTCAGGTGTCTCTGAGAAACACTGGGACCGAAGCAAAGATCCAGTCCACAGTTACACAGCCTGG
CGGAAAGTTTGCATTTTTTAAAGTTCTGCCTGGAGATTATGAAATCCTCGCAACTCATCAACCTGGGCGTTGAA
AGAGGCAAGCACCACAGTGCCTGTAACCAACTCCAATGCCAATGCGGCCAGTCCCCTCATAGTTGCTGGCTACAA
TGTGTCTGGCTCTGTCCGAAGTGATGGGGAGCCCATGAAAGGCGTGAAGTTTCTTCTCTTTCTTTCTTTAGTAAC
TAAAGAGGATGTCTGGGCTGCAATGTCTCACCAGTGCCCTGGGTTCCAGCCCCAAGACGAGAGTCTGGTGTATTT
GTGCTACACGGTCTCCAGAGAAGATGGCTCGTTCTCTTTCTATTCTTGCCAAGTGGGGGTACACTGTGATTCC
GTTCTATCGAGGGGAGAGGATTACCTTTGATGTGGCGCCTTCCAGACTTGACTTCACAGTGGAGCATGACAGCTT
GAAATCGAGCCCGTGTTCACGTCATGGGATTCTCCGTACCGGGAGGGTCTTGAACGGACCCGAAGGAGATGG
TGTTCCAGAAGCAGTAGTCACCCCTGAATAACCAAATCAAAGTTAAACAAAAGCTGATGGCTCATTCCGCCTTGA
GAACATAACCACAGGGACATACACCATCCATGCTCAGAAAGAGCACCTCTACTTTGAAACGGTCACCATCAAAAT
TGCACCAAACACACCTCAGCTGGCTGACATTGTTGCAACAGGGTTTCAGTGTCTGTGGTCAGATATCAATCATTCC
CTTCCCCGACACCGTCAAGCAGATGAATAAAATACAAAGTTGTCTGTCTCAAGACAAGGACAAGTCTTTGGT
CACCGTGGAGACAGATGCTCATGGATCATTTTGTTTTAAAGCAAACCCAGGGACTTACAAAGTGCAGGTGATGGT
TCCTGAGGCAGAAACCAGAGCAGGGCTGACGTTGAAACCCAGACATTTCTCTTACTGTGACCGACAGGCCTGT
GATGGATGTGGCCTTTGTACAGTTCTTGGCATCAGTTTCTGGGAAAGTCTCTTGTGTTGGACACCTGTGGTGACTT
GCTGGTGACTCTACAGTCCCTGAGCCGCCAGGGTGAGAAGCGGAGCCTCCAGCTCTCCGGCAAGGTCAACGCCAT
GACTTTCACCTTTGACAACGTGCTCCCTGGAATAACAAATAAGCATCATGCATGAGGATTGGTGCTGGAAGAA
CAAGAGCCTGGAGGTGGAAGTGCTGGAGGATGACGTGTCTGCAGTTGAGTTCAGGCAGACGGGCTACATGCTGAG
ATGTTCCCTGTCTACGCCATCACTCTGGAATTTTATCAGGATGGAATGGGCGTGAGAATGTGGGGATTTATAA
CCTCTCAAAGGAGTCAACCGATTCTGCCTGTCCAAGCCTGGTGTGTACAAAGTGACCCCTCGCTCCTGCCACCG
GTTTGAGCAAGCGTTCTACACCTATGACACGTCTTCACCTAGTATCTTGACATTGACAGCCATTGCCCACCATGT
CCTTGGAATATCACCACCGACAAAATGATGGATGTCACTGTGACTATCAAGTCTTCCATCGACAGTGAACCCGC
CTTGGTCTTAGGCCCTCTGAAGTCTGTGCAGGAGCTGCGGAGGGAGCAGCAGCTGGCTGAGATCGAGGCCCGCAG
GCAGGAGAGGGAGAAAAACGGCAAAGAGGAAGGCGAAGAAAGAATGACCAAGCCTCCCGTGCAGGAGATGGTAGA
TGAGTTACAAGGCCCTTCTCGTATGATTTCTCTTACTGGGCGCGGTCTGGAGAGAAAATCACTGTTACACCGTC
ATCTAAAGAGCTGCTCTTTTATCCCCCTTCAATGGAAGCCGTTGTGAGTGGAGAAAGCTGCCCAGGGAAGCTGAT
CGAGATCCACGGGAAGGCAGGCCTGTTTTTAGAAGGCCAGATCCACCCCGAGTTGGAAGGAGTCGAGATTGTGAT
CAGTGAAAAGGGGGCAAGTTCACCGCTGATCACAGTCTTTACTGATGACAAAGGTGCCCTACAGTGTGCCCCCT
GCACAGTGACCTGGAGTACACGGTGACCTCACAGAAGGAGGGCTATGTTCTGACTGCGGTGGAAGGAACCATCGG
AGACTTCAAGGCCTATGCCCTGGCAGGCGTAAGCTTTGAGATAAAAAGCTGAGGATGACCAGCCCCTCCCGGGAGT
CCTCTTATCCCTGAGCGGTGGCCTGTTTCGTTCCAACCTCTTGACCCAGGACAACGGAATTCTGACATTCTCAAA
CCTGGTGACGTGTTCTGCAATTTACCACCTGCCTGTCTTCCCTGAGAGAGAGCCAGGATGCAGCATGCGAGACTT
ACGTGTTGCTTGACAACGTGAGAAGAGAAGGCCAATGTGGAGTGGTTTCAGTTTCT

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FIGURE 4327

AGCCGCCTCTGCCGCCGCCGCCGCGTTGGCCTCGCCGCCCTGCTCGGACACCATGCCACAAGGAGAGTGATCTC
TTCCCCTGTTTTTACAATGGAGGACTCCGGAAAGACTTTTCAGCTCCGAGGAGGAAGAAGCTAACTATTGGAAAGA
TCTGGCGATGACCTACAAACAGAGGGCAGAAAATACGCAAGAGGAACCTCCGAGAATTCCAGGAGGGAAGCCGAGA
ATATGAAGCTGAATTGGAGACGCGAGCTGCAACAAATTGAAACCAGGAACAGAGACCTCCTGTCCGAAAATAACCG
CCTTCGCATGGAGCTGGAAACCATCAAGGAGAAGTTTGAAGTGCAGCACTCTGAAGGCTACCGGCAGATCTCAGC
CTTGGAGGATGACCTCGCGCAGACCAAAGCCATTAAAGACCAATTGCAGAAATACATCAGAGAGCTGGAGCAAGC
AAATGACGACCTGGAAAGAGCCAAGCGCGCCACGATCATGTCTCTCGAAGACTTTGAGCAGCGCTTGAATCAGGC
CATCGAAAGAAATGCCTTCCTGGAAAGTGAACCTTGATGAAAAAGAGAATCTCCTGGAATCTGTTTCAGAGACTGAA
GGATGAAGCCAGAGATTTGCGGCAGGAACTGGCCGTGCAGCAGAAGCAGGAGAAACCCAGGACCCCATGCCAG
CTCAGTGGAAGCTGAGAGGACAGACACAGCTGTGCAGGCCACGGGCTCCGTGCCGTCCACGCCCATTGCTCACCG
AGGACCCAGCTCAAGTTTAAACACACCTGGGAGCTTCAGACGTGGCCTGGACGACTCCACCGGGGGGACCCCCCT
CACACCTGCGGCCCGGATATCAGCCCTCAACATTGTGGGAGACCTACTGCGGAAAGTCGGGGGCACTGGAGTCCAA
ACTCGCTTCCTGCCGGAACCTCGTGTACGATCAGTCCCCAAACCGAACAGGTGGCCCCAGCCTCTGGGCGGAGCAG
CAAGAACAGAGATGGCGGGGAGAGACGGCCAAGCAGCACCAGCGTGCCTTTGGGTGATAAGGGGTTGGACACGAG
TTGCCGCTGGTTGTCCAAATCAACAACCAGGTCGTCCAGCTCCTGCTTGAAGCCTGTTCTTGGTCTTTTCCAGTTT
ATCATACGCGGCCGCTTCTCCTCGTACTGCTGGGTGAGGTTCTCGATCTCCTTCTGGAACCTCTTCTTCCCCTC
TTCCAGAGCTTCCACGGTGCTGGCAAAGTCCTGCAGCTTCTTCTTCGAGTCGGAGAGCTACAAGGACAGCGTCCA
GGGTAGGGTGAGAGGGGGACCATGAATGGCCCCCTGTCCCTGGCCCCACAGACTCTGAGAAGCGAAGACCATGTCT
CCTCGTTGGAGAAACCAATAGCAGGGGAAGCTGGGGGTCAAGCACCATCGCACCAACACTCCACGCGATCTG
CCTGCGGGGGATCTCAGCGCAGAGAAGTTGAGAGGACCATGAAGGAAGCAAGGACACGGGGCAGGCACCTGGAT
GTTGAGAGTGAGATGTGGCGCTCCAGGTTCTGCTTGGCCTCCATCTCCTCGTCCAGCTGGTCTTGCAGGCTGTT
CCGCTCCTCCTCCAGCTGGCGCAGCTTCGTAGACACGTTGAGCTTCTGCCGGGTTTCTTCTTGAAGCAGCTCCTG
CAAAAGGGATGCAAAGAGGTCCCAGGGACCTGCCCCGAGGAAGGCCACCCCCCAGGTCCCCTGGATGATGTGGCA
GGACACTCACCTGGGTGTCTGAGCTGGGAACTGAGGGACGCCACGTCCTTGGCCAGCTTAATGGCCTTCCCCT
CGGCCTCGTTAAGCATCCCTGTGACGCTCTCAACTTCATTCTAAGGGTGCCAAGAGACTGGTTAGTCAAAGCCTC
TAGAAGGGGATCCTCGTTGAAAGGAGCCCTTTTTACTCAAAACACATGGGCTAGTACTTGAGGTGTTCACTGATT
GAGAAAATACCCGTGAGGTATGGGACTCTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 4328

MEDSGKTFSSSEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEALETQLQQIETRNRDLLSENNRLRMEL
ETIKEKFVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRATIMSLED FEQLNQAIERNA
FLESELDEKENLLESVQRLKDEARDLRQELAVQQKQEKPRTPMPSSVEAERTDTAVQATGSPSTPIAHRGPSSS
LNTPGSFRRGLDDSTGGTPLTPAARISALNIVGDLLRKVGALSKLASCRNLVYDQSPNRTGGFPASGRSSKNRDG
GERRPSSTSVPLGDKGLDTSCRWLSKSTTRSSSSC

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FIGURE 4329

GGCTGGGGAAACAGAAACTCGCAGAAGTTAAAAAATGTGCTTGAGGTGCCACTGGAGAATAACAATCATAGCCA
GGATCTGAAGCCTGTCTAGTTTCCTCAGCCGCAAATTCTTCCATGTGGGGCGACCTCACAGAGACGGGATGTATGG
GACGGCGGAGTGCAGAAAGAAAGATCAGCTGGACATCATCTCCATGGCGGAGACAACCATGATGCCAGAGGAGATTG
AGCTGGAGATGGCAAAAATTCAGCGTCTCCGGGAAGTCTTGGTCCGCCGGGAGTCTGAGCTCAGGTTTCATGATGG
ATGACATCCAGCTCTGCAAGGACATCATGGACTTGAAGCAGGAGCTGCAGAACTTGGTCGCCATCCCAGAAAAAG
AAAAAACCAAACCTGCAGAAGCAGAGAGAGGATGAGCTAATCCAGAAGATCCACAACTGGTGCAGAAGAGAGACT
TCCTGGTGGACGATGCGGAGGTGAGCGGTTAAGGGAGCAAGAAGAAGACAAGGAAATGGCTGATTTCTGAGAA
TCAAGTTAAAACCTCTAGACAAAGTAACCAAATCTCCAGCCAGCTCCCGGGCAGAGAAGAAAGCAGAGCCCCAC
CTAGCAAGCCCACGGTGGCCAAGACGGGGCTGGCACTGATCAAGGATTGTTGCGGGGCCACCCAGTGCAACATCA
TGTAGCCCCACGTGGGGTGCCCTGGGCCATGGGGACCCCCCCCCACCTCTTGCTTTTATAGCCCCCATTTTCAC
CGGGGCCCAAGAGCTCTCCAAGGCAGAAGGGGTTGAAGGCAAGCCCGTGAAGTGTACACAGAGGCCATGGGCACGG
CAGGCGGGCCTGGCCACCCTGTACAGAGTGTAGCAGTAGGGAGTCTCTCACCGTCGCATGGTCTCTCCAGAGCA
TGCCGAACCCAGGAGTCTGTCTCACTGTTTATCCAAACACCAGGAAAGGTCCCTCCCTCAAAAAAGCATATCTCCA
CTTCTCTCTAGCTGTATCTAACCCACCGTGTGAATGAAGTGGGAGAGGGGCATGCTCCCCAGCTGTGTGTAGTCG
TGACTTCTCAACAATCTAGCACCATGTCGGACACGTTCCCATCCACCCTCCTAGCTCTGCTCTCAGAGCTAGGC
ACATGGGCACAGGTCCCTCCCGTCTGTCTCTCCAGCAACTGTGCCCTGGAGGGCTCCACATGGCCCCCGTGT
CTCTCGGGCACCACCCATATAGCAGTCCAGAGGGCCCATCTGTAAAGATCGAGCTTGTGTGTGGTGTCTGTGTG
ACATCTCCCGCTTCCCCCATCCTGTGTCTGGGCACAGTTCACATCAGGACAGCGTCCATTGTGCTCTCAGTCTG
CCTCAGGTGTGTGCCTGGAGGGGGCCTGGACTGGCATGGATCCAGTGTGCAGAAGAGCCAGCAGGGAACCGGAAG
CTCTGATGTCAAGGCCAGAGCAGTTGAGAATGGGACCCAGAGTAGATGCTGACCTGGGCACTCCACCATTCCGGG
GCCACCACAGAGATGCCAGCAGGATGCCACTTTGCCAGCCCACACACGGACCTTTGTAAAGAACAGCAACAGGC
AGGAGAGGCAGCGTGTGACCAGATTGTGTCCCGTCATTGGGTGGCATATGTAACTAGCTGCCAAACAACCTCAA
CCCGTGTAAATTCATGTACATTTGCAACAGCCAGCCCGGTACAGCCTGTGTGACTTCTCTGTATGTGTGTGTGT
CGTGAACCAGCCTAAGTAGTTAGCATAACTCAAGATGCTGATGTGCAGTCACCCATCAGAGAAAATAAAATGGAA
ACCACGTTACAGCATTTTAAAAGTTTTTACTTTTTTTCTTGATTATGGAAGTAATCCATGTACATAGTAAATCA
TTTTAAAAGTACAAAAAGTATGAAGAAGTTTGTCTT

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FIGURE 4330

MSDTFPIHPPSSALRARHMG TGPLPSVLSQQ LCPGGLHMAPVSLGHHPYSSPRGPICKDRACVWCRGHISRFPSS
CVWAQFTSGQRPLCSQSASGVCLEGAWTGMDPVCRRASREPEALMSRPEQLRMGPRVDADLGTPPFRGHHRDASR
MPLCQPDTRTFVKNSNRQERQVRTRLCFVIGWHMLTSCQTTSTRVIHVHLQQPARYSLCDFSVVCVCS

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FIGURE 4331

GGCAGATGTACAGAACTGAAATTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAAC
CCAAATTGGCGTTTGTCTTCAGAATCAGAGGTATCAATGGCGTGAGCCCAAAGGTTTCGAAAGATGTTGCAGCTTC
TTTGCCTTCGTCGAGTCTTCAATGGAACCTTCGTGAAGCTCAACAAGGCTTCGATTAACATGCTGAGGATTGTAG
AGCCATATACTGCATGGGGGTGCCCCAATCTGAAGTCAGTAAATGAACATACTACAAGCGTGGTTATGGCAAAA
TCAATAAGAAGCAAATTGCTTTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCA
TGGAGGATCTGATTCATGAGATCTATACTGTTGGAAAACACTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCA
AATTGTCTTCTCCACGAGTTGGAATGAAGAAAAAGACCACCCATCTTGTAGAAGGTGGAGATGCTGGCAACAGGG
AGGACAAGATCAACAGGCTTATTAGAAAAATGAACCAAGGTGTCTACCATGATTATTTTTCTAAGCTGGTTGGTT
AATAAACAGTACCTGCTCTCAAATTG

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FIGURE 4332

MYRTEIRMARMARKAGNFYVPAEPKLAFFVFRIRGINGVSPKVRKMLQLLCLRRVFNGTFVKLNKASINMLRIVEP
YTAWGCPNLKSVNELIYKRGYKINKKQIALTDNALIARSLGKYGIICMEDLIHEIYTVGKHFKEANNFLWPFKL
SSPRVGMKKKTTHLVEGGDAGNREDKINRLIRKMNQGVYHDYFSKLVG

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FIGURE 4333

ATGATAAATGGTATTTCAGTACTGGACTGTGCCTGAGGAGAGGCTTCAACTGAATGTGGATGTTGATGACCTGGAC
TGTCAGGGTCCACCTCTACCTCCCAGAGCCTCAGAGCCCACAAGACAAAAAACTGAGCCTGTGAAGCGATTAAAA
GTCTGGATCTTAGAGGGAGCTCCAAGGAAAATAAATCCAAAATGCCTCATCTGGGAGGTGAAGCAATGATTGAA
CAAGGATTGCTGAGCTTTGGCAAGGAAGAAAAGGGCACTTGCTGTCAACAGAAAGCAGGTGTTCTGGGAAGACTG
GAGGAGCTGTGGGTGGTGAGGCAGACACTGGGCTTGGCTCTGGAAGCCCGAACTCAGAACATTAAGCTGAACCAT
CTGAAGCTCCTCCACGAAACAGGATATTTGTTGCAGACACTCAGAGAATCTCCAGAGAAACCTGGCTTAGAGGCC
GTGGATTCAAGGACATCGCTGAAGCCCTGTGCTGGTGGAATTCCCACTACTGATATCTTGGGCCAGGAACTGCAT
TCTGGGAACCAGCACTGGTACGAGGAGCTGCAGGTCACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAG
CAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCATGTCAAGAAGCAGCATATT
ATATCTCAGGCATCGGGACAGGTCAGTGCCTATATTCTTCTTCTCCAAGCAGGCAAGCTTCATATTAGTGTCT
CCACTTGCTGGGGAACCTTTGA

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FIGURE 4334

GGGAAGGGCGGCCGACCCATATAAGCAGCCTGCGGGGCGTTCCCTCGGGTTGTGGTTGGTGTGCGGGTTTCGGTT
GGAGGACTCGTTGGGGAGGTGGCCTGCGCTTGTAGAGACTGCATCCCCGAGACGATGGCGGAGGGAGATAATCGC
AGCACCAACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAACAGCTGCAAGGATGGGGAGAAGTGATGCTGATG
GCTGATAAAGTCCCTCCGATGGGAAAGAGCCTGGTTTCCACCTGCCATCATGGGTGTGGTTTCTTTGGTGTTTCTG
ATTATCTACTATCTAGATCCATCTGTTCTGTCCGGCGTTTCCCTGTTTTGTTATGTTTTTGTGCTTGGCTGACTAC
CTTGTTCCCATTTCTAGCGCCTAGAATTTTTGGCTCCAATAAATGGACCACTGAACAACAGCAAAGATTCCATGAA
ATTTGCAGCAATCTAGTAAAACTCGACGCAGAGCTGTGGGTGGTGGAAACGCCTCTTCACACTAAAGGAAGAA
AAACCTAAGATGTACTTCATGACCATGATCGTTTCCCTTGCTGCGGTTGCTTGGGTGGGACAACAAGTCCACAAC
CTGCTTCTCACCTACCTGATAGTGACTTCCTTACTATTGCTTCCCTGGACTAAACCAACATGGAATCATTTTGAAG
TACATTGGAATGGCCAAGAGGGAGATAAAACAACTTCTCAAACAAAAGAAAAGAAAACGAATGATTCTGCTG
TTTAATCAGTGTGATTAATGCAGCACCCATTGCCCCGGGAACCGTTTCTGCTGTACTATCTGGATACTAAAATGT
TACGGAAGTAGCTCTTTGTTCTCCCTCACTCTGCCCTTAGTTAATAGAAATTCAGACTCGCCAAGTAAGGCTTCG
TGCATAGTGTCTTCATGTGCGGTATAGTTGAGCGCGTTCTTAGCAGTTGGCTTCATGGACAACCTCATTAGTGTTT
TGACTTTTCTTACCCAGCGTTAATTGAATTCTTGCTTTTAGACAACCTTCCTTTTTGTAGTGTTGAACCTTGCCCT
TTAGTACAGTTCAAGTGAATCTGGATAATTGTTTCATCTTTGCTTTAGCTTAGATAACCATGTAGTGGTCTGTGGCT
ACAGGAAGCTGGTTCTGTCTGCTTCCACAGTCTGCTTAAAAAACTGTCTGACTTCGTGAATATAGAGACCAAGTT
TACCACTTCTGATGAAGAGACCAATTAAGATTCAATCCTCATTCTGTTTCTTTCCAGTGGGAGAAGAGTCCCCAT
GAAATAAGATGAACTGATTCCATGCACTAGTACATGTAGGCTTCTCCCTTGTTGCAAAAGCTTAGCAATTTGTAGG
AACTTTGATCTTTTTGTCCAAGAAAAGGAATGTCTGACAGGCTTAAGCTTTTCGTCCCTTGCACTTAGACTCGA
AGTTAGTAAATCCTTAAAGGCTTTTTAATAGCAGACTTCCAAAAGATTGCATTTAGGATTTCTAGCATGCTTTTA
ATTTAGATTTTTCAGCTGACATTAGCTATAGTATACAGTAGGTTAAGACTCATGTCTATGACTTTCACTCTAAGA
CTGGCAAAAGGACAGCAGTCTTCTATGTTTAGTCAATATTCATTTAGTAGAAGATAATCTTATCTAATTTTTGA
GACCAGAATAAGCCTTTTTAAGGTAAACCTCAAATATCATTATTTATGGTAATACTGACCATTTTAGTCCCCTAGG
TTTGACATGGGAGATAGTGACTACACTGGTGTCTGACTTTTTTCTAGAGATTCTCCCTGAAAAATACAAGGGC
TGTTGGTGAGAGCAGACTTGAGGTGATGATAGTTGGCCTCTGGTCTACAAAGATTCATAACTCCTTGAAAGCT
TCTTATAATCATTCTTAACTTCTTGGTAGCTAGAAATTTAGAGTAGTTGAAATCTTTAGGAATGAACCTCTGAGG
GCCAAAAATGTGACTGACGGGAACAATTCTTAACTGATTAAGTACTAGCTGTAATATAGTTTTGTGAATTTATTGC
ACTGATGTTGTACCTTGTGGTATATCTGTCCCTATTAAATAAGTGTGTTTTCTCCTCTTTAATATTGCTGTGAA
CAGTGGTGCCCATTTGTAGCATATGTTTGATTTTTTTTTTATTATTTTATAAGAAAACCTACGTTAATTTTACCTTAC
TTTCATTGTAAATAAGCCTGTCTTCCCTATCTGGATTTTTTGTGTGCATACATATCTACTGATTAAGTACTTTTG
CAGTTTTAATCCTGTATTATTCTTCTACTTTGTTTTGTGTAAAGGGGAAAAAATAAAAAAAGCTGGAATCTTC
ATGTCTC

4702/6881
FIGURE 4335

GCCCCAGGAGCCCGGCGGGTCCGGGACTCCCGTCCGTGCCGGTGCGGGCGCCGGC**ATG**TGGCTGTGGGAGGACCA
GGGCGGCCCTCCTGGGCCCTTTCTCCTTCCTGCTGCTAGTGCTGCTGGTGACGCGGAGCCCGGTCAATGCCTG
CCTCCTCACCGGCAGCCTCTTCGTTCTACTGCGCGTCTTCAGCTTTGAGCCGGTGCCCTCTTGACAGGGCCCTGCA
GGTGCTCAAGCCCCGGGACCGCATTCTGCCATCGCCACCGTGGCGGCAGCCACGACGCGCCCGAGAACACGCT
GGCGGCCATTTCGGCAGGCAGCTAAGAATGGAGCAACAGGCGTGGAGTTGGACATTGAGTTTACTTCTGACGGGAT
TCCTGTCTTAATGCACGATAACACAGTAGATAGGACGACTGATGGGACTGGGCGATTGTGTGATTGACATTTGA
ACAAATTAGGAAGCTGAATCCTGCAGCAAACCACAGACTCAGGAATGATTTCCCTGATGAAAAGATCCCTACCCCT
AAGGGAAGCTGTTGCAGAGTGCCTAAACCATAACCTCACAAATCTTCTTTGATGTCAAAGGCCATGCACACAAGGC
TACTGAGGCTCTAAAGAAAATGTATATGGAATTTCCCTCAACTGTATAATAATAGTGTGGTCTGTTCTTTCTTGCC
AGAAGTTATCTACAAGATGAGACAAACAGATCGGGATGTAATAACAGCATTAACTCACAGACCTTGAGCCTAAG
CCATAACAGGAGATGGGAAACCACGCTATGATACTTTCTGGAAACATTTTATATTTGTTATGATGGACATTTTGCT
CGATTGGAGCATGCATAATATCTTGTGGTACCTGTGTGGAATTTTCTGCTTTCCCTCATGAAAAGGATTTTGTATC
CCCGGCCTACTTGAAGAAGTGGTCAGCTAAAGGAATCCAGGTTGTTGGTTGGACTGTTAATACCTTTGATGAAAA
GAGTTACTACGAATCCCATCTTGGTTCCAGCTATATCACTGACAGCATGGTAGAAGACTGCGAACCTCACTTCT**TA**
GACTTTTACGGTGGGACGAAACGGGTTTCAAGAACTGCCAGGGGCTCATACAGGGATATCAAATACCCCTTTGTG
CTAGCCCAGGCCCTGGGGAATCAGGTGACTCACACAAATGCAATAGTTGGTCACTGCATTTTTTACCTGAACCAAA
GCTAAACCCGGTGTTGCCACCATGCACCATGGCATGCCAGAGTTCAACACTGTTGCTCTTGAAAATCTGGGTCTG
AAAAAACGCACAAGAGCCCTGCCCTGCCCTAGCTGAGGCACACAGGGAGACCCAGTGAGGATAAGCACAGATTG
AATTGTACAATTTGCAGATGCAGATGTAAATGCATGGGACATGCATGATAACTCAGAGTTGACATTTTAAACTT
GCCACACTTATTTCAAATATTTGTACTCAGCTATGTTAACATGTACTGTAGACATCAAATTTGTGGCCATACTAA
TAAATTTATTTAAAGGAGCACTAAAGGAAAATGTGTGCCAAGCATCATATCCTAAGGCATACGGAATTTGGGGA
AGCCACCATGCAATCCAGTGAGGCTTCAGTGACAGCAACCAAAATGGTAGGGAGGTCTTGAAGCCAATGAGGGA
TTTATAGCATCTTGAATAGAGAGCTGCAAAACCACAGGGGGCAGAGTTGCACTTTTCCAGGCTTTTTAGGAAGCT
CTGCAACAGATGTGATCTGATCATAGGCAATTAGAACTGGAAGAACTTCCAAAAATATCTAGGTTTGTCTCAT
TTTACAAATGAGGAACTAAACTCTGTGGAAGGGAAGGGGTTGCCTCAAAGTCAAGCTTAGCTGGGCACAGTG
GCTCATGCCGATAATCCCAGCAATTCAGAAAGCTGAGGCAGGAGGATTACTTGAGGCCAGACTGGGCAATATAGC
AAGACCCCATCTCTAAAAAATTAGGCATGGTGGTGCATGCCTGTATTCCAGCTACTCAGGAGGTTGAGGTGGGA
GGATCACTTGAGCCAGAAAGTTCAAGGCTGCAATGAGCCATGATTACACCACGGCACTACAACCTTGGTGGCACA
GTGAGAACCTGACTCTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4336

MWLWEDQGGLLGPFSSFLLLVLVTRSPVNACLLTGSLEFVLLRVFSFEFVPSCRALQVLKPRDRISAIHRGGSH
DAPENTLAAIRQAAKNGATGVELDIEFTSDGIPVLMHDNTVDRTTDGTGRLCDLTFEQIRKLNPAANHRLRNDFF
DEKIPTLREAVAECLNHNLTIFFDVKGHAHKATEALKKMYMEFPQLYNNSVVCSEFLPEVIYKMRQTD RDVITALT
HRPWLSHTGDGKPRYDTFWKHFI FVMMDILLDWSMHNILWYLCGISAF'LMQKDFVSPAYLKKWSAKGIQVVGWT
VNTFDEKSYYESHLGSSYITDSMVEDCEPHF

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FIGURE 4337

CTCTTTCCGCCATCTTTCCGCGCCGGCCACAATGGTGCGCATGAATGTCCTGGCAGATGCTCTCAAGAGTATCAA
CAATGCCGAAAAGAGAGGGCAAACGCCAGGTGCTTATTAGGCCGTGCTCCAAAGTCATCGTCCGGTTTTCTCACTGT
GATGATGAAGCATGGTTACATTGGCGAATTTGAAATCATTGATGACCACAGAGCTGGGAAAATTGTTGTGAACCT
CACAGGCAGGCTAAACAAGTGTGGGGTGATCAGCCCCAGATTTGACGTGCAACTCAAAGACCTGGAAAAATGGCA
GAATAATCTGCTTCCATCCCGCCAGTTTGGTTTCATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGA
AGCAAGACGAAAACACACAGGAGGGAAAATCCTGGGATTCTTTTTCTAGGGATGTAATACATATATTTACAAATA
AAATGCCTCATGGACTCTGGTGCTTCCACTTGGTCGTTTTGAGCCTTTACAGCAGTGTAGCCACAGCTTCTGCGG
CAGCATGCAGTTGCTTCGTTTATCGGTGAATGCGATTCCCAGATTCAAGTAGTTCTCGTGCCTCAGCCTCCTGAG
TAGCTGGGATTACAGGTGTGTGCCACCATGTCTGGCTGATTTTTGTATTTTTAGTAGAGGTGGGGTTTCACCATG
TTGGCCAGGCTGGTCTCGAACTCCTGATCTCAAGTGATCTGCCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAG
GTGTGACCACCACGCCCTGCCTTAAGAATTGTTCCAAGAGAATCTGGTGCCACTTGCCAGGTGCCCATTGAAGTGC
AATGGGCACTGTTGATCACTGAGGAGGTAGTGGGTGCTGACCCGGTGCTGGGGCCTGTCCCCTAGTCTCTGCTTT
GCCCTTGGCTAGCTAGGTGGTGTGCCAAGTGGGGAGAGAAGCTACCTTATTAAGGGGCATGGATCAGCTTCCTGA
AAGGAGGGCCTGCCTCTGTAAGATATGGGAAGTCGCTGAGAATGTTACAGAACGGCCCTAGAGATGGGGCAGATA
ACGGCCCCCATTTGTGAGAAGTGAGTTGGGAGGCATGTTTGGGGCCTCTGATGTTTGGGAGGCTGTGGGTAATTA
ACATGAGTTTTGGGGTCCAGCAGCAGAATTCAGGTTTCCTCTTCCACTCAGTAACCTCAGCATCCGTATCTGTAA
TGGGAATGATACAAAACCTATCCCCAAGTTGAGGGAAAAATGAGATTGTGTAAAGCGCACTTGGCACATGACAGT
CACAAGCATGGGGACAGTGAGTCCAGAAGGATTTTCTTATGCCAGCATTGTAAGCCCTAGGATCACAGGGCTCTG
GCTTGTTTAACCATCGTGTCTCTGGTCCCTAGCCTGCAAACCTGGTGTGTAGGGATGCCTCAGTCGCTTACATGT
TGATTGAGTGAATCGTCGGTTTCTTTCTGGACACTGACTTCAAAAATAAA

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FIGURE 4338

CGCAGAGTCCCCGGGCCAAGATGGCTGCGCGGTGCTCCACACGCTGGTTGCTGGTGGTTGTGGGGACCCCGCGGC
TGCCGGCTATATCGGGTAGAGGGGCGCGCCGCCAGGGAGGGCGTGGTGGGGGCATGGCTGAGCCGCAAGCTGA
GCGTCCCCGCTTTGCGTCTTCCCTGACCTCTTGC GGCCCCGAGCGCTGCTGACATTGAGACCTGGTGTCAGCC
TTACAGGAACAAAACATAACCCCTTTCATTTGTACTGCCTCCTTCCACACGAGTGCCCTTTGGCCAAAGAAGATT
ATTATCAGATATTAGGAGTGCCTCGAAATGCCAGCCAGAAAGAGATCAAGAAAGCCTATTATCAGCTTGCCAAGA
AGTATCACCCCTGACACAAATAAGGATGATCCCAAAGCCAAGGAGAAGTTCTCCAGCTGGCAGAAGCCTATGAGG
TTTTGAGTGATGAGGTGAAGAGGAAGCAGTACGATGCCTACGGCTCTGCAGGCTTCGATCCTGGGGCCAGCGGCT
CCCAGCATAGCTACTGGAAGGGAGGCCCCACTGTGGACCCCGAGGAGCTGTTCAGGAAGATCTTTGGCGAGTTCT
CATCCTCTTCATTTGGAGATTTCCAGACCGTGTGTTGATCAGCCTCAGGAATACTTCATGGAGTTGACATTCAATC
AAGCTGCAAAGGGGGTCAACAAGGAGTTACCGTGAACATCATGGACACGTGTGAGCGCTGCAACGGCAAGGGGA
ACGAGCCCCGGCACCAGGTGCAGCATTGCCACTACTGTGGCGGCTCCGGCATGGAAACCATCAACACAGGCCCTT
TTGTGATGCGTTCCACGTGTAGGAGATGTGGTGGCCGCGGCTCCATCATCATATCGCCCTGTGTGGTCTGCAGGG
GAGCAGGACAAGCCAAGCAGAAAAAGCGAGTGATGATCCCTGTGCCTGCAGGAGTCGAGGATGGCCAGACCGTGA
GGATGCCTGTGGGAAAAAGGGAAATTTTTCATTACGTTTCCAGGGTGCAGAAAAGCCCTGTGTTCCGGAGGGACGGCG
CAGACATCCACTCCGACCTCTTTATTTCTATAGCTCAGGCTCTTCTTGGGGGTACAGCCAGAGCCCAGGGCCTGT
ACGAGACGATCAACGTGACGATCCCCCTGGGACTCAGACAGACCAGAAGATTCCGGATGGGTGGGAAAGGCATCC
CCCGGATTAACAGCTACGGCTACGGAGACCACTACATCCACATCAAGATACGAGTTCCAAAGAGGGCTAACGAGCC
GGCAGCAGAGCCTGATCCTGAGCTACGCCGAGGACGAGACAGATGTGGAGGGGACGGTGAACGGCGTCACCCTCA
CCAGCTCTGGTGGCAGCACCATGGATAGCTCCGCAGGAAGCAAGGCTAGGCGTGAGGCTGGGGAGGACGAGGAGG
GATTCCTTTCCAAACTTAAGAAAATGTTTACCTCATGATATCCAGCCGAGGAAAAAGATCCACTGGAAACTAGG
CCGGGAAGCAGCAGCCCTCCAAGGGCCAGGGCACCTGGGAGACGGGAGGATTCCAGAACAGCAGCACTGAGCTC
CCACCCGCAGAGCCTCTGGACGGCCTTGGAACAGCAAAATCATGGGACAACACCTCTCTCCACGGAAAGGTCAC
AGTGGACAGCCCCGGGCAGTAGGATGCAGCCCCAGAGGCTGGTGGCAGTTTCTGTCCATTGGTAGGTGACGGCCC
CTGGCTCAGGCAGAGGGAGATGGTTAGACTCTTGCAGGGCTAAAACCTCTAATTTGGAATTGAATATTGTGGATAT
CTTAGTTAAAGGCCATGCTTACAGCTTAGAAATGAAGCCTTAAGCTGCATCAAGTTACGAAGTGATTAATTTCT
TCTCAGCAAACCTCCGGGAGGTTCCAGAATGAGTTCTTCTGACAGGTTGTCTTCACTGGGAGCGTGGGGCCCCC
AGGCCCCACCAGCACCGTCTCTCCCTAATGAGGGGCCCTGCCGAGGCATCAGCTGCTCTGCTCAGTTAGTTTTTA
TTCCCGGGGTACCAAGCAGCTGCACAGTCGGTGCCTGGGAGGCACGTAGAGGCCAGAGAGTCCCTGGGGGTCT
GCTCTGACCGTGTGGGTGGTGTATCCTTGTGAGGATGTACAGTCCTTGCTCCACCCCATCCGGGATGGCCGCCTG
TCCCTGACTATTGAGTCCTGTTGTTGTAAGCCAGGCATGGAGGGCTCCTGCCCTTCTGCTGAGCCACAGCCCATT
GCAGCACTGTGCTGGCCAGACTTCAGCTGCCTTGGGAACTGAAGCCCTGCCACTGTTGCTAGTCAGGGGCTTGGT
TCTCCCACTTACACTGTTGACATCTATTTTCTGAAGTGTGTTTAAATTATTAGTGCTAATCATTTGTTTTTCT
TTGTAAATGTTGATTAGAAAAGGAAAGCACAGGCTAAGCAGTTGAAGGTTCCCCACCATTCAGTGAGAGCAGAA
CCCCCATTCGCCAGCCTCTGCTGGTAGCATGTCGAGTTTCCATGTGTTTTCAGGATCTTCGGGCTGTCGTTAGAC
AGGTTAATGAAGAACACTTCTCAACAGTTTCTTTTTGTTTTCTTTATAATTCATAAAATAAAGCATCTATTA
GTGTCTG

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FIGURE 4339

MAARCSTRWLLVVVGTPRLPAISGRGARPPREGVVGAWLSRKLSVPAFASLTSCGPRALLTLRPGVSLTGTKHN
PFICTASFHTSAPLAKEDYYQILGVPRNASQKEIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDVK
RKQYDAYGSAGFDPGASGSQHSYWKGGPTVDPEELFRKIFGEFSSSSFGDFQTVFDQPQEYFMELTFNQAAKGVN
KEFTVNIMDTCERCNGKGNPGTKVQHCHYCGGSGMETINTGPFVMRSTCRRCGGRGSI I I SPCVVCRGAGQAKQ
KKRVMIPVPAGVEDGQTVRMPVGKREIFITFRVQKSPVFRRDGADIHSDLFISIAQALLGGTARAQGLYETINVT
IPPGTQTDQKIRMGGKGIPRINSYGYGDHYIHIKIRVPKRLTSRQQSLILSYAEDETDVEGTVNGVTLTSSGGST
MDSSAGSKARREAGEDEEGFLSKLKKMFTS

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FIGURE 4340

ATGGTGGACAAGAAACTGGTGGTGGTTTTTCGGAGGCACAGGTGCCCAGGGTGGCTCCGTGGCCCGCACACTCCTG
GAAGATGGGACATTCAAGGTTTCGAGTGGTGACCCGAAACCCTAGGAAGAAGGCAGCAAAGGAGCTGAGGCTGCAA
GGTGCAGAAGTAGTGCAGGGAGACCAAGATGACCAGGTCATCATGGAGCTGGCCCTGAATGGGGCTTACGCCACC
TTCATCGTGACCAATTACTGGGAGAGCTGCAGCCAGGAGCAGGAGGTCAAGCAGGGGAAGCTGCTCGCTGATCTG
GCCAGGCGCCTGGGCCTCCACTATGTGGTCTACAGCGGCCTGGAGAACATCAAGAAGCTGACGGCAGGGAGATTG
GCCGCCGCGCACTTTGACGGCAAAGGGGAGGTGGAGGAATATTTCCGGGACATTGGCGTTCCCATGACCAGTGTG
CGGCTGCCCTGCTATTTTGAGAACCTCCTCTCCCACTTCTTGCCCCAGAAAGCCCCAGACGGAAAGAGCTACTTG
CTGAGCTTGCCACAGGTGACGTTCCCATGGATGGCATGTCCGTGTCTGACCTGGGTCTGTGGTGCTCAGCCTT
TTGAAGATGCCAGAAAAATACGTCGGCCAGAACATCGGGCTGAGCACTTGCAGGCACACGGCCGAGGAGTACGCT
GCCCTGCTCACCAAGCACACCCGCAAGGTCGTGCACGATGCCAAGATGACTCCTGAGGACTACGAAAAGCTTGGC
TTTCCCGGTGCCCCGGGACCTGGCCAACATGTTCCGTTTCTATGCCCTGAGACCCGACCGTGACATCGAGCTGACC
CTGAGACTCAACCCCAAGGCCCTGACGCTGGACCAGTGGCTGGAACAGCACAAAGGGGACTTCAACCTGCTGTGA

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FIGURE 4341

MVDKKLVVVFGGTGAQGGSVARTLLEDGTFKVRVVTRNPRKKA AKELRLQGA EVVQGDQDDQVIMELALNGAYAT
FIVTNYWESCSQE QEVKQGKLLADLARRLGLHYVVYSGLEN IKKLTAGRLAAAHFDGKGEVEEYFRDIGVPMTSV
RLPCYFENLLSHFLPQKAPDGKSYLLSLPTGDVPM DGMSVSDLGPVVL SLLKMPEKYVGQNI GLSTCRHTAEEYA
ALLTKHTRKVVD AKMTPEDYEKLGFP GARDLANMFRFYALRPDRDIELTLRLNPKALTLDQWLEQHKGDFNLL

4709/6881
FIGURE 4342

GACCAGAGGAGCGAGAGCAGCAAGAACCACACCCAGCAGCAATGTCAGCGGAAGTGGAACCTCAGAGGGGGTAG
ACGAGTCAGAAAAAAGAACTCTGGGGCCCTAGAAAAGGAGAACCAAATGAGAATGGCTGACCTCTCGGAGCTCC
TGAAGGAAGGGACCAAGGAAGCACACGACCGGGCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACA
TTAAGAAGGAGCTGTTTAAGCTGGCCACCACGGCACTTTACTTCACATACTCAGCCCTCGAGGAGGAAATGGAGC
GCAACAAGGACCATCCAGCCTTTGCCCTTTGTACTTCCCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGG
ACATGGAGTATTTCTTTGGTGAAAAC TGGGAGGAGCAGGTGCAGTGCCCCAAGGCTGCCCAGAAGTACGTGGAGC
GGATCCACTACATAGGGCAGAACGAGCCGGAGCTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCT
CGGGGGGCCAGGTGCTGAAGAAGGTGGCCCAGCGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCT
ACCTGTTTGAGAATGTGGACAATGCCCAGCAGTTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGA
ACATGAAGACCAAAGAGAGGATCGTGGAGGAGGCCAACAAGGCTTTTGAGTATAACATGCAGATATTCAATGAAC
TGGACCAGGCCGGCTCCACACTGGCCAGAGAGACCTTGGAGGATGGGTTCCCTGTACACGATGGGAAAGGAGACA
TGC GTAAATGCCCTTTCTACGCTGCTGAACAAGACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCCTTCCGAACAG
CTATGGCTGTGCTGAGGAAGCCCAGCCTCCAGTTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGACTCTTGG
CCTGGTACTACATGTGAAGCACCCATCATGCCACACCGGTACCCTCCTCCCGACTGACCCTGGCCTACCCCTTT
CTCCAGCCCTGACTAAACTACCACCTCAGGTGACTTTTTTAAAAAATGCTGGGTTTAAGAAAGGCAACCAATAAAA
GCCAGATGCTAGAGCCTCTGCCTGACAGCATCCTCTCTATGGGCCATATTCCGCACTGGGCACAGGCCGTCACCC
TGGGAGCAGTCGGCACAGTGCAGCAAGCCTGGCCCCCGACCCAGCTCTACTCCAGGCTTCACACTTCTGGGCCC
TAGGCTGCTTCCGGTAGTCCCTGTTTTTGCAGTACATGGGTGACTATCTCCCTGTTGGAGGTGAGTGGCCTGTA
AGTCCAAGCTGTGCGAGGGGGCCTTGCTGGATGCTGCTGTACAACCTCTGGGCCTCTCTTGGACCCTGGGAGTGA
GGGTGGGTGTGGGTGGAAGCCTCAGAGGCCCTGGGAGCTCATCCCTCTCACCCAGAATCCCTCTAACCCCTTGGG
TGCGGTTTGCTCAGCCCCAGCTTATCTCCTCCTCCGCGCTGTGTAAATGCTCCAGCACTCAATAAAGTGGGCTTT
GCAAGCT

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FIGURE 4343

MSAEVETSEGVDESEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALY
FTYSALEEEEMERNKDHFAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLV
AHAYTRYMGDLSGGQVLKKVAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK
AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGSSCPFRTAMAVLRKPSLQFIL
AAGVALAAGLLAWYYM

[illegible]

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FIGURE 4344B

GGCTGGTGGCTGGGTGTCAGGCAGCCCTGAGGCCATGCTGGCCCCGTCCAGGCTCTGCACCAGCACCATTTGCC
AAGCCCCAGGGACGCCAGACCCATCTGGGGACAGCGCCCGCGGCGTCTGTCAGGCCACAGTCTGGGCATTGGGG
CTCTGTGGGAGGCTCCTCTCTTTGCCTTGACGTAGCCATCCGGGGGCTACTCTGAGCACGGGCTTGTTCACCC
AGGGCCGCTCCCCACCCCTGCACCCTGGGTGACCGAGTTCACCCCTAACCCAGCCGTAAGAACCTTGGCAGGAC
AGTGGCTGGCCACATCCCAGGAAACCGGAACCAGGGCAAGGGCAGGAGGCCAGAGGGCATCCACCGCGGTGCCG
TGTCGCGCTCTGACTCGGGGCTGCAGATCTGCTGTGGGTGTCCGGGGATCTGGGATCGTCTGTCCCAAGAGGGAC
ACAGCGTATTTGGCACAGTTAGGGAGTCCCCGGGCCCCCTGGTGTGCTCACATCTGAGTGAATGCTGTTGTGCCA
CAGGCGGCGGGAGTGGGGGTGCTGGATGGCCCCAGCCCCCTCTGGGGCTCCAGATCGGTAGGAGCGGGTGGCGTGGC
ACCAGGCATCCGAGTGTGACCCTCCTCCTCTGCTCCCACCTGCAGGACGGCCACCTCCATGGAGACGGCCAC
GGCCTCGCCACCACCAGCCCCACCTGGCCTCCACTTGGTGGCCCCAGCCCCGATCCCAGCGCCCGGAGCTGACC
CCACTCTGAGAGCCTGGCCGAGCTGGCAGCATGGAGCCCTCGGCTCCCCAGACTTTGCCGAGGGGCTGCTCCGGA
CCCCGTTGTGAGCCGGCCTCCTGTCTGCATGCCCCCTGTGGCCACCAGGCTCCGAGGGGCGGTGGTGA CTCTTGA
TCAAAGAGCACAGTGAAGTGTCCCTTCTGAGTCTCCCTTTTCTACAGTTGATATATTTGTAAGTGGTACAAGATG
AAGGACAGCAGCTTTCCATCCCTAGTTTCAAGAGCCCCGTTCCCCAGGGTCTGTGGGCTGAGCGGCTGGGGCTGG
GGCTGCCCCAGTGTGGCCTCCGCTGGCTCTGCCTGCTCCTGCAACAGTGCAGTCCCTGCCCCGAGAACTCAGGAG
GCCTGCAGAAAGAGAACTGATTGGTGGTGAAGCACCATCTTCACAGATGTTTCAAGGGCAGTGGGGGGCTCCAGGC
ACGGTCAATGAAGGAAACAGTGCCTGTCCACCCACCCTGCGTGTCACTGTGGCGGCTGGCTGTGCTGCTTTTT
GTCTCTGCCGTGTTTTCGCGGGCTCAGTGCCCTCCCTGGTGCCTCTGCGCTGGGGCCCTCAGTGCTCGGGGCT
TGGGGTGCATGGGTGCCGCCCTGGGCAGCTAGAGTGTCTCAGCCCGGTGCTGGGCCTGGCCGAGGGGCGGAGGCA
CAGCTGCTTCCAGCAGCCAGCATTAGTGGCCTTGTACCAAGCTCCACACCTCCTCCTGGTGTGGCTTTGGTG
ACATCACAAGGCCCTCCAGGTGCAGGGGCTTCTGTTTGGCAGGCCCTGCCAGGGAGGACCTGGTGGCCTCCTC
ATTCTCTTTTGCCATTGGAATGTCCCCTTGAGTTCTCTCTCTTTTTTTTTTTTTTTTGGAGATGGAGTTTCACTC
TTGCTGCCCAGGCTGGAGTGCAGTGGCTCAATCTCGGGTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATCGT
CCTGCCTTAGGCTCCTGAGTAGCTGGGGATTACAGGTGCCTACCAGCATGCTCGGCTAATTTTTTTGTATTTTA
GTAGAGAAGGGATTTACCATGTTGGCCGGGCTGGTCTCAAACCTCCTAAGGTCATCCACCTGCCTCGGCCTCCCA
GAGTGTCTGAGATTACAGGCGTGAGCCTCCGCGCCCGCCCCCTTGAGTTCTCTCTGATTTGGTTTGTCTGTCT
CAGGCTTCTGTGGCAGGACTGGCCCAGGGAGGAGGAAGCCAGCAGCACACCTGGGGAATGGGGTCCCGCCGGGA
GGCTTGGCCTCTGGGCGACCTCGTCTGTTTTTTTTTGTGTTGTTGTTGTTTTTTTAAAGGTAAACCTCCTGGGC
CGCAGATGGCAAAGGGAGTGCCTGGGCCTGGTGACCCAGGGCTGGATCCACCCCTGCGGAGCCCTGGGCCAGGCA
GGTGTCTGCTGCTCACCTGGCTCTGGAGGGCTGCCCTGCAGCTGGGCCTGGGGACAGGTGCGCTGTGGGGCAGCT
CAGTACCCTCCCTGAGGCTCACGGTGGCTCCGAGCATGAGGTCCGCCTCCTGGGCGAGACCCAGCAGTGGACAGC
ATGGTCTCACACCCAGCTCCCTGCACACCCAGGCCAGCCACCCCTCCCGCTCGTGCACAGGCACGCAGATGCGC
TCACACGTACACACACACAAATGCACGCCCCTTGACATGCTCACGCACATGTTACACATGCACACTCACGCT
CACACATGCTGTACGCATACACACACGCACATACTCTGCACATGTTCCCATGCATGTGTGTGCACTCGGACCG
AGCATCTCCACGCACCTCTACCCACCCCAAGCACCTCTCTCCCCCATGCACCTCTCCCCAACACACACACA
GCCCCCTGCACCGCCCGCCCCCGCCCCACCAAGGCCCCAGCCTCTGGCCATCAGTCTGGTGGCAGAGCTTTG
CGTGAAGTTCGGGCGCAGAGTGGCCCGCTGGGACTCCCATGTGCTGCCGTCTGATGTGCTCAGATGGGCTCATC
GTTGGTTCGTTTTTACTGTATATTTATAGTAATAAAATCATGCAGC

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FIGURE 4345

MGSILSRRIAGVEDIDIQANSAYRYPPKSGNYFASHFFMGGEKFDTPHPEGYLFGENMDLNFLGSRPVQFPYVTP
APHEPVKTLRSLVNIRKDSLRLVRYKDDADSPTEGDGKPRVLYSLEFTFDADARVAITIIYCQASEEFLNGRAVYS
PKSPSLQSETVHYKRGVSQQFSLPSFKIDFSEWKDDELNFDLDRGVFPVVIQAVVDEGDVVEVTGHAHVLLAAFE
KHMDGSFSVKPLKQKQIVDRVSYLLQEIIYGIENKNNQETKPSDDENS DNSNECVVCLSDLRDTLILPCRHLCLCT
SCADTLRYQANNCPICRLFFGFPADPGGAEEARSPVPRVLQPRPGPEPGA

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FIGURE 4346

AGACGCCGGGGCGGACGGGAGGACCGGAGGACCGAGGACAGAAAGATTGGTGGACAGGAGCAGCGGCCGGTGGG
GAGGGCGCTCGGCGGGCGGCCTGCGGCC**ATG**GCCACCGTGATGGCAGCGACGGCGGGAGCGGGCGGTGCTGGAG
GAGGAGTTCCGCTGGCTGCTGCACGACGAGGTGCACGCTGTGTTGAAGCAGCTGCAGGACATCCTCAAGGAGGCC
TCTCTGCGCTTCACTCTGCCGGGCTCCGGCACTGAGGGGCCCCGCCAAGCAAGAGAACTTCATCCTAGGCAGCTGT
GGCACAGACCAGGTGAAGGGTGTGCTGACTCTGCAGGGGGATGCCCTCAGCCAGGCGGATGTGAACCTGAAGATG
CCCCGGAACAACCAGCTGCTGCACTTCGCCTTCCGGGAGGACAAGCAGTGAAGCTGCAGCAGATCCAGGATGCC
AGAAACCATGTGAGCCAAGCCATTTACCTGCTTACCAGCCGGGACCAGAGCTACCAGTTCAAGACGGGCGCTGAG
GTCCTCAAGCTGATGGACGCAGTGATGCTGCAGCTGACCAGAGCCCCGAAACCGGCTCACCACCCCGCCACCCTC
ACCCTCCCCGAGATCGCCGCCAGCGGCCTCACGCGGATGTTCCGCCCTGCCCTGCCGTCCGACCTGCTGGTCAAC
GTCTACATCAACCTCAACAAGCTCTGCCTCACGGTGTACCAGCTGCATGCCCTGCAGCCCCAACTCCACCAAGAAC
TTCCGCCCAGCTGGGGGCGCGGTGCTGCATAGCCCTGGGGCCATGTTTCGAGTGGGGCTCTCAGCGCCTGGAGGTG
AGCCACGTGCACAAAGTGAGTGCGTGATCCCTGGCTCAACGACGCCCTGGTCTACTTCACCGTCTCCCTGCAG
CTCTGCCAGCAGCTCAAGGACAAGATCTCCGTGTTCTCCAGCTACTGGAGCTACAGACCCTTCT**TGAT**CACAGCAC
CCAGGAGCTTGTCTCCAGGAAGGCGGCCCCGTCCCCTACTCATACCCACCACAGAGCACCAGCCAGTGCCAACGC
CAGGCTGCTATTTATCTCCCTATCCCACCCCTACCCACCTAACACATTTGCACTGCCAGGAATGGACACTGGA
AGTGCCAGGAGGAAGGAAGGCTGGTTTGGTGGGGTAGTGGGGAGGTCAGGGAGGCGGGGCCAAGGGTGTCCCACA
TTCCCAACACCGCCCTCTGATCACCATGGGAATCTTTGGACTCAGGACAGGGCCAGGTGCAGGGCTCTCCCTCCT
CTCCCCTTCGCTGTCCCCCTCCCCCTGGAGGGCATGGTGTGCGGGGGTGGCACTGAGCTATGAGTCCCGGGGATGG
TGAGGAACGCCACAGACAGAGCCACCCTAGGAGTGAGTATAGTGCTGGTGACTGTGTTTCATAGCCCCAGTCCAG
GGCTGTCTAAGAAATAAAGATCATCAGACTCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 4347

MATVMAATAAERAVLEEEFRWLLHDEVHAVLKQLQDILKEASLRFTLPGSGTEGPAKQENFILGSCGTDQVKGVL
TLQGDALSQADVNLKMPRNNQLLHFAFREDKQWKLQQIQDARNHVSQAIYLLTSRDQSYQFKTGAEVLKLMDAVM
LQLTRARNRLTTPATLTLPEIAASGLTRMFAPALPSDLLVNVYINLNKLCLTVYQLHALQPNSTKNFRPAGGAVL
HSPGAMFEWGSQRLEVSHVHKVECVIPWLNDALVYFTVSLQLCQQLKDKISVFSSYWSYRPF

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FIGURE 4348

GTCATGGCGCCCGAGGAGAACGCGGGGACCGAACTCTTGCTGCAGAGTTTCGAGCGCCGCTTCCTGGCGGCACGC
ACACTGCGCTCCTTCCCCTGGCAGAGCTTAGAAGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTGCGGGAT
ATTTTGCACAAGACTGTGAAGCATCCTGTGTGTGTGAAGCACCCGCCGTCCGTCAAATATGCCCGGTGCTTTCTC
TCAGAACTCATCAAAAAGCACGAGGCTGTCCACACAGAGCCTTTGGACGAGCTGTATGAAGCGCTGGCGGAGACC
CTGATGGCCAAGGAGTCCACCCAGGGCCACCGGAGCTATTTGCTGCCCTCGGGAGGCTCGGTACACTCTCCGAG
AGCACGGCCATCATCTCCTACGGTACCACAGGCCTGGTCACATGGGACGCCGCCCTCTACCTTGCAGAATGGGCC
ATCGAGAACCCGGCAGTCTTCACTAACAGGACTGTCCTAGAGCTTGGCAGTGGTGCTGGCCTCACAGGCCTGGCC
ATCTGCAAGATGTGCCGCCCCCGGGCATAATCTTCAGCGACTGTCACAGCCGGGTCCTTGAGCAGCTCCGAGGG
AATGTCTCTTCTCAATGGCCTCTCATTAGAGGCAGACATCACTGCCAAGTTAGACAGCCCCAGGGTGACAGTGGCC
CAGCTGGACTGGGACGTCGCGACGGTCCATCAGCTCTCTGCCCTCCAGCCAGATGTTGTATTGCAGCAGATGTG
CTGTATTGCCCAGAAGCCATCATGTGCTGGTCGGGGTCTTGCGGAGGCTGGCTGCCTGCCGGGAGCACCAGCGG
GCTCCTGAGGTCTACGTGGCCTTTACCGTCCGCAACCCAGAGACGTGCCAGCTGTTTACCACCGAGCTAGGCCGG
GCCGGGATCAGATGGGAAGTGGAACCTCGTCATGAGCAGAACTGTTTCCCTACGAAGAGCACTTGAGATGGCA
ATGCTGAATCTCACCCCTGTAGGACTCACACAGACTCCAACGGGATTGTGAGAATCAAGTCACTCTCATGGGAAG
AATTTTTATATGGGAAAGCGGATAAACTTTTATTGGACTGGAATGTTTGGAGAATGTAAATTTCCAAATCAGGA
ACCACAAACTGCCCTCTAATAAGACATCGGCTATCTAAGCGTGTGGGTGCCCCCTTTCTGCCAGCAGTTCTGGTT
CTTAAGAAAATCACCATAAATCAGACATGAAAATTCTGGCTCCAAAAATAGCATTTTCTTTGTGCAAATAAAAAC
GTGTGTATCAAGTATGATGTTCCCCAACGTGGACACACTCAGTTCCTCACAAAGCCAAGCCCACTGCAGCTGCC
ACATCCCTGGGCTTACGGTGCAGCAGGTGCTTTTTTCAAGACAGGAATCAAAATGTTAGGAACACGGCAGAAAGG
GGACACCTGGAGACCAAACGCAGGATGAGGAGTTCTGCAGAGGTACAGGGAAGTCACAGAACAGTAATACGCTA
GCAGGGGCATGGGGCGTGAAGAACAGAAGAAGAGAGGAAGCGTTTCCAAGCCTCCAGAGAAGAAATCAAGGCCAA
CCAAAGCTTCCCGGGTCACAGAACCAATTCTTTTACCAGGCAGTACCACTGCTGTCAATTCAGCTTCTGGCCACT
GGGAGGTGCTGCTCGAAAGGGTTTGCCCTGAGACTCCAAGAAGAAGCTGCGGGAAGGACAGCAGGGGTCTGGGG
TTTTAGCCTCTGGCCCAGGAGTTATGTGTCCATAACCAAAGGGAGCACAGTCTGCACCCAGCTCTCATCCCATCG
GAGCTGCTGCGACTCCCGCAGGTTCTTCCGGAAGTGGTTTAGCTTGCCCGCAGGATCAGGAAAGTTTGAGAAAAG
CATCTGCAAAAAATAAAGAGCAGAGCTTACCTC

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FIGURE 4349

MAPEENAGTELLLLQSFERRFLAARTLRSFPWQSLEAKLRDSSDSELLRDILHKT VKHPVCVKHPPSVKYARCFLS
ELIKKHEAVHTEPLDELYEALAETLMAKESTQGHRSYLLPSGGSVTLSESTAIISYGTTGLVTWDAALYLAEWAI
ENPAVFTNRTVLELGSAGLTGLAICKMCRPRAYIFSDCHSRVLEQLRGNVLLNGLSLEADITAKLDSPRVTVAQ
LDWDVATVHQLSAFQPDVVIADVLYCPEAIMSLVGVLRRRLAACREHQRAPEVYVAFTVRNPETCQLFTTELGRA
GIRWEVEPRHEQKLFPEEHLEAMMLNLT

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FIGURE 4350

GGCACGAGGGAGAGATCGTCCAGGAGGCGGTGTTGATGCGGCAAAGGGCAACAGGAAGGGCATTAGGACTTGAAA
TCGGAGACGCACGCAGGGGAGGGAGTCAGTGTGGAACCTGGTAGGCCCTGGGAGAACTCCGGCTTTTCGTCTGC
GTGAGCTGGAGAAGAGCCGAAGGTTTCTGCGCACAGCACGGACCTGCGTGCCTCAGCTTTAAGGAAATCACCGTG
GCCGCCGCTGTGAACGCAGAGAAGGGCGCGAGCGTGGGAGCAGGAACCCAAGGCGGTGGGAAACGGTGGGGCTTT
CTGAGTGTATTGGAAGTAGAGCCACAGATCTGCTGCAGACCAGAAAGGGGCGCGAGAAAGAGCGGACAGAGGC
AGACGCCGGGGCTGGCGGCGATGGAGCAGCAGTCGGAGGACGCGGAAGGCCCTGCGAGAGTCGCCCCGCGGCCAGC
GCCGGCCTTCGGGTCCACCTTGCGGGTGATGTTGTGCACGTAGGGGACAGTGTTCAGGCGAAGCGGTGGCAGC
GTTGTCCCTCCTCCACGATCAGCCCGTTCCCGCAGCCGGGGCAGAACAGCAGCATGGTCTCGAACTCCGCAGGCT
CCAACCTCCCGGCAGCTCCCACTGCCGCTCAGCGCCGATGCGCCGCCCGCCTCGAGCTCACATTGGTCTCTGGCAGC
CTTCCCGCCACACCAACCAACCAATAGACAGGGCGATTCTGCGCTCCCGGCCCTGCTGCAGGCTGTCTCGCACTT-
GTCATTGGTCACTGCAGCCGCCCCACCCCCCGGCGCGCCAGTGGCTGGGCGGCCCTCGCTGGGGCGGGCCCGCAG
TTCCTGCGCGTGC GCGCTTGGCCTCCCTAGTGCGGGCTGGCAGTGC GGGCAGAGCCCGGCTGAGAGGGGCGGGCC
TGGAGGAGACGGAGGCCGCGGGTGGGCCCCGAGGCGCAAGAGGAAGATGAGGACGAAGAAGAGGCGCTGCCGCACT
CCGAGGCC**ATG**GACGTGTTCCAGGAGGGTCTGGCTATGGTGGTGCAGGACCCGCTGCTCTGCGATCTGCCGATCC
AGGTTACTCTGGAAGAAGTCAACTCCCAAATAGCCCTAGAATACGGCCAGGCAATGACGGTCCGAGTGTGCAAGA
TGGATGGAGAAGTAATGCCCCGTGGTTGTAGTGCAGAGTGCCACAGTCCTGGACCTGAAGAAGGCCATCCAGAGAT
ACGTGCAGCTCAAGCAGGAGCGTGAAGGGGGCATTACGACATCAGCTGGTCCTACGTGTGGAGGACGTACCATC
TGACCTCTGCAGGAGAGAACTCACGGAAGACAGAAAGAAGCTCCGAGACTACGGCATCCGGAATCGAGACGAGG
TTTCCTTCATCAAAAAGCTGAGGCAAAAG**TGAG**CCCTCCAGACAGGACAACCCTCTTCATCACTGGTGGCTGAGCT
TTTCCCAGCAGGAATGGGTCTCGAATCATCGTGCCTCTTTCACAGAAAGGACGTTGTGGTGGCCTCACCCAG
GCATGCCCAACAGTAACCTGTCAGCATAAACCTGGGGGCCCTCAGGACTAGGACAGGGTGAGCCAGTGCTCCCTCC
TTTCATGTACTTGGCCTGAGACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGG
CCCACTGTATAAAATAAACCTGTTTGCTTCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4351

MDVFQEGLAMVVQDPLLCDLPIQVTLEEVNSQIALEYGQAMTVRVCKMDGEVMPVVVVQSATVLDLKKAIQRYVQ
LKQEREGGIQHISWSYVWRTYHLTSAGEKLTEDRKKL RDYGIRNRDEVSF IKKLRQK

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FIGURE 4352

CCTGGGCCCCCATGCCGTGCAGCTCGCACATATGTGGGGCAGAGCAGCCACCCTGCCCCCAGCAGCAGCCGTCCA
TCGTGAGACGTGATCATTTCCTGAGGCCTCGAGTGTGTCAGGGTGTTTGTGCCTCATAACAACCCACAGGATGGT
CACCCCCGCTTTGCAGATGAAGAAACCAAAGCAGTTTTTGCCGACGGATGGGGCAAAGAAGCAGCGACCAGCTAG
AGCAGGGCAGCCACACAGCTCGTCCGACGCAGCCCAGGCACCTGCAGAGCAGCCACACAGCTCGTCCGATGCAGC
CCAGGCACCTTGCCCCAGGGAGCGCTGCTTGGGACCGCCACCACTCCGGGGCCATACCGCAGCATCTATTTCTC
AAGCCCAAAGGGCCACCTTACCCGACTGGGGTTGGAGTTCTTCGACCAGCCGGCAGTCCCCCTGGCCCCGGGCATT
TCTGGGACAGGTCTTAGTCCGGCGACTTCCTAATGGCACAGAACTCCGAGGCCGCATCGTGGAGACCGAGGCATA
CCTGGGGCCAGAGGATGAAGCCGCCCACTCAAGGGGTGGCCGGCAGACCCCCGCAACCGAGGCATGTTTCATGAA
GCCGGGGACCCTGTACGTGTACATCATTTACGGCATGTACTTCTGCATGAACATCTCCAGCCAGGGGGACGGGGC
TTGCGTCTTGCTGCGAGCACTGGAGCCCCTGGAAGGTCTGGAGACCATGCGTCAGCTTCGCAGCACCCCTCCGGAA
AGGCACCGCCAGCCGTGTCTCAAGGACCGCGAGCTCTGCAGTGGCCCCCTCCAAGCTGTGCCAGGCCCTGGCCAT
CAACAAGAGCTTTGACCAGAGGGACCTGGCACAGGATGAAGCTGTATGGCTGGAGCGTGGTCCCCTGGAGCCCAG
TGAGCCGGCTGTAGTGGCAGCAGCCCGGTGGGCGTCGGCCATGCAGGGGAGTGGGCCCCGAAACCCCTCCGCTT
CTATGTCCGGGGCAGCCCCCTGGGTCAGTGTGGTTCGACAGAGTGGCTGAGCAGGACACACAGGCCTGAGCAAAGGG
CCTGCCCAGACAAGATTTTTTAATTGTTTAAAAACCGAATAAATGTTTTATTTCTAG

TTCCCTATCCGCAACGACGAGAGAGGGGCCCTGTGCCCCAAACGCGAACCGTACGGCTCCAGACAGCACCCGCGGAAC
TCGGTGGCTTCCAGAAGGGCCCCGCGCCTGCGCATTCCGCTGCCTGCGCCTGCGCCTGCGCCTGCGCCGTTCTCC
GGCCGCCGCCTTAGCACCTCCTCCGGACGGGTGTGCGCCGAAGTCTCGCGAGCCCGGAGCGTGGCACGTGGGCCCC
TCCGCTTCCGGCTCCGTCTCTCTGCCCCCTCCGCCCCCGGCCACGGCGGGATGCGGGACAACAC
CAGCCCCATCAGCGTGATTCTGGTGAGCTCGGGGAGCAGGGGCAATAAGCTGCTGTTTACGGTACCCCTTCCAGAG
AAGCCAGGAGCACCCGGCGTCCCAGACAAGTAAGCCGCGTAGCAGATACGCTGCCAGCAACACGGGCGACCATG
TGATGAGCAGGACGGCGATTCCAGGTTTTTCAGATGTTATTCTGGCAACAATTTTGGCAACCAAGTCTGAAATGTG
TGGCCAAAATTTGAACTGAAGATTGATAATGTGCGATTGTGGGACCCAAACACTGCTACAGCATGCTCTGGG
GCAGATCTCCAAAACAGATCCTTCCCCGAAGAGGGAAGCACCTACTATGATTCTTTTTAATGTGGTGTGTTGCACT
GAGGGCCAACGCAGACCCGTACGTGATAAACTGTCTGCATAACCTGTCCCGTCGTATCGCCACCGTGCTGCAGCA
CGAGGAGCGCCGTGCCAGTACCTACCCGGGAGGCCAAGCTGATCCTGGCGCTCCAGGATGAGGTGTCCGCCAT
GGCTGATGGAATGAAGTCTCAGTCCCCATTCCATCACATCCTGCCCAAGTGAAGCTGGCCAGGGACCTCAA
GGAAGCTTATGACAGCCTGTGCACGTGCGGCGTAGTTCGGCTTCACATCAACAGCTGGCTGGAGGTGAGCTTCTG
CCTGCCCCACAAGATCCACTATGCGGCCTCCAGTCTGATCCCCCAGAGGCCATCGAACGGAGCCTGAAAGCCAT
CCGCCCCTACCATGCCCTGCTGCTGCTCAGTGATGAGAAGTCTTGCTGGGTGAGCTTCTATTGACTGCTCCCC
TGCCCTAGTGCGGGTGATCAAGACCACATCTGCTGTGAAGAACCTGCAGCAGCTAGCCCAAGATGCGGACCTGGC
CTTGCTGCAGGTTTTTCCAGCTTGCGAGCTCATCTGGTGTACTGGGGCAAGGCCATCATATCTACCCGCTGTGTGA
GAACAACGTCTACATGCTGTCTCCCAATGCCAGCGTATGTCTGTACTCCCCGCTGGCCGAGCAGTTCTCCACCA
GTTCCCATCTCATGACCTGCCGTCCGTTCTTGCCAAGTCTCCTTGCCGGTCTCCTTGTCAGAATTTAGGAATCC
CCTGGCCCCCGCTGTGTCAGGAGACCCAGCTCATCCAGATGGTGGTGTGGATGCTGCAGCGCCGGCTTCTCATCCA
GCTGCACACCTATGTCTGCCTGATGGCCTCACCCAGCGAGGAGGCCCGTCCGCGAGAGGACGACGTCCCCTT
CACTGCCCCGGGTGCGGCGGTGCGAGCCTCAGCACGCCCAACGCCCTCAGCTTGGCTCCCCAACCCAGCAGCGATGA
CATGACCCTCACCCAGCCCCAGCATGGACAACCTCCAGCGCAGAGCTACTTCCCAGCGGGGACTCGCCACTGAACCA
GAGGATGACGGAGAACCTGCTGGCCAGCTGTGCGAGCATGAACGCGCAGCCATCCTCAGTGTACCCGCAGCCAG
AACCCTGAGGACCTCCGCATGTTTGCCAGGCTCCTTCACTACTTCCGCGGCCGCCACCACCTGGAGGAGATTATG
TACAACGAGAACACGCGGCGCTCCCAGCTGCTCATGCTGTTTGACAAGTTCGCGCAGCGTGCTGGTGGTGACCACC
CACGAGGACCCTGTCAATTGCCGTCTTCCAGGCTCTGCTCCCCTGAGCCAGGCGGAGGGCGGAAGGCTGCTGGGG
TGCGCAGGTGGGCGCTCGCGTCTCCCCACCCAGGGTCCCCCGTGCTGAGGCTGAGCCCTCTTGGCCCTGAGG
CCTGGCATTGGGTGGATGCGGGCTGGCCGTGGCCAGTGAAGCCTGCAGAGCCCCGCTGTCTTGGCCCTGGTGG
TTCCGCTGTGGGGCTGCTGCCCTCTGTGTTCTTACGCTTCCCTCCAGTCTTGCCGCACGCGTAGGCATCTCCAC
GCTGGAGGGGGGCTGCCAGGACTCCTGTCTCTGGGTGAGGCCGCATCCTTCAAGGCCCATGTGGGCTGTGCGTT
TCTCAGACCCTCCTTCTGTCCCTACACCTGCTCCTTGAGCCCCCAGTCTGTGGCCACCCTGAAGAATGTGCAGA
AACACTTGTGTGGCCTGTCCCTGTCTCTGTGACAGCCTTCTATTTGTGAAGTGCCCTGTGGCCCCCTCCCCAGCA
CCTCTGTCTGCCATGCGCTTCTTCTCCAGGCTACCCTGAGCCTTTCCTGGCCAGTCTCACCACAGTCCACA
GAAGCCGCAACAGGCTCATAGCCAAGCTGTGACCTGGTCTGACCATCTGGGGCACGAGGGCCTGGGCTGGCCC
TGCTAGGCTGGAGAAGCCCTGTACCTGTGCACATCTTGCTGGTGGAGGCATGGCCCACTGTGCAGGACCCCCACC
CTCGGGGGCTTTTGGCTCCACACTGATGATTCTCCCCAGCATCCACACCGGGCCTGGCGCTACGTACTCAGGCC
CCCAGCTCTCGTGTCTTGAGGAAGAGCTAGCTCCAGACATGGGTGATCACCTAGAGGAGCTCTGGCTAAGGCA
CAGTTTTCTAGAAATAAAACATTTATTTCGGTTTGAAAGGCCCTTGGAATTCCTGGCTGGGGACAATGATGACCT
GGACCCTGGCCAGAAGAGCCCTGGCCCTCCAGCAAGGCAGCACCTGCTCTGATGCACCTGTGCACCCCTGGCCCT
CCCAGCCACCTGGGAGTCCGAAGCTTAGCCTGGAGGTGGCCAAGCCAGTCCCTACTCTTGGGCTGCGGCCACGTG
AGGCTCCGCATCAGCAGCCAGGGGCGAGCACTAGTGACAAAGCCAGCAAATGCGGCGTTCCTGTGAGCAGATAC
CCTCAACCAGCCAGCTGTCAAAAGTATTTCAAGATAAAATCCAGGCCAAGC

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FIGURE 4354

ACTCTTCTGGTCCCCACAGACTCAGAGAGAACCCACCATGGTGCTGTCTCCTGCCGACAAGACCAACGTCAAGGC
CGCCTGGGGTAAGGTCGGCGCGCACGCTGGCGAGTATGGTGCGGAGGCCCTGGAGAGGATGTTCTGTCTTCCC
CACCACCAAGACCTACTTCCCGCACTTCGACCTGAGCCACGGCTCTGCCCAGGTTAAGGGCCACGGCAAGAAGGT
GGCCGACGCGCTGACCAACGCCGTGGCGCACGTGGACGACATGCCCAACGCGCTGTCCGCCCTGAGCGACCTGCA
CGCGCACAAGCTTCGGGTGGACCCGGTCAACTTCAAGCTCCTAAGCCACTGCCTGCTGGTGACCCTGGCCGCCCA
CCTCCCCGCCGAGTTCACCCCTGCGGTGCACGCCTCCCTGGACAAGTTCCTGGCTTCTGTGAGCACCGTGCTGAC
CTCCAAATACCGTTAAGCTGGAGCCTCGGTAGCCGTTCTCTGCCCCTGGGCCTCCCAACGGGCCCTCCTCCC
CTCCTTGACACGGCCCTTCCTGGTCTTTGAATAAAGTCTGAGTGGGCGGC

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FIGURE 4355

MVLSPADKTNVKAAGKVGAGHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHV
DMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR

4724/6881
FIGURE 4356

ACTCTTCTGGTCCCCACAGACTCAGAGAGAACCCACC**ATG**GTGCTGTCTCCTGCCGACAAGACCAACGTCAAGGC
CGCCTGGGGTAAGGTCGGCGCGCACGCTGGCGAGTATGGTGCGGAGGCCCTGGAGAGGATGTTCTGTCTTCCC
CACCACCAAGACCTACTTCCCGCACTTCGACCTGAGCCACGGCTCTGCCCAGGTTAAGGGCCACGGCAAGAAGGT
GGCCGACGCGCTGACCAACGCCGTGGCGCACGTGGACGACATGCCCAACGCGCTGTCCGCCCTGAGCGACCTGCA
CGCGCACAAGCTTCGGGTGGACCCGGTCAACTTCAAGCTCCTAAGCCACTGCCTGCTGGTGACCCTGGCCGCCCA
CCTCCCCGCCGAGTTCACCCCTGCGGTGCACGCCTCCCTGGACAAGTTCCTGGCTTCTGTGAGCACCGTGCTGAC
CTCCAAATACCGT**TAA**GCTGGAGCCTCGGTGGCCATGCTTCTTGCCCCTTGGGCCTCCCCCAGCCCCCTCCTCCC
CTTCCTGCACCCGTACCCCGTGGTCTTTGAATAAAGTCTGAGTGGGCGGC

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FIGURE 4357

MVLSPADKTNVKAAWGKVGAHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHVDDMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR

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FIGURE 4358

CCGACGCGACCATCGTTTTGTCGACGCCGCTGCCACCGCCTGCCTGAGAGAAGTCGTCGCGGCCGACCCCGTCGCC
TCCGCCGGCTACC**ATG**TCCGCCCCAGGCGCAGATGCGGGCCCTGCTGGACCAGCTCATGGGCACGGCTCGGGACGG
AGACGAAACCAGACAGAGGGTCAAGTTTACAGATGACCGTGTCTGCAAGAGTCACCTTCTGGACTGCTGCCCCCA
TGACATCCTGGCTGGGACGCGCATGGATTTAGGAGAATGTACCAAAATCCACGACTTGGCCCTCCGAGCAGATTA
TGAGATTGCAAGTAAAGAAAAGAGACCTGTTTTTTGAATTAGATGCAATGGATCACTTGGAGTCCTTTATTGCTGA
ATGTGATCGGAGAACTGAGCTCGCCAAGAAGCGGCTGGCAGAAACACAGGAGGAAATCAGTGCAGGAAGTTTCTGC
AAAGGCAGAAAAAGTACATGAGTTAAATGAAGAAATAGGAAAACTCCTTGCTAAAGCCGAACAGCTAGGGGCTGA
AGGTAATGTGGATGAATCCCAGAAGATTCTTATGGAAGTGGAAAAAGTTCGTGCGAAGAAAAAGAAGCTGAGGA
AGAATACAGAAATTCCATGCCTGCATCCAGTTTTTCAGCAGCAAAAGCTGCGTGTCTGCGAGGTCTGTTCAGCCTA
CCTTGGTCTCCATGACAATGACCGTCGCCTGGCAGACCACTTCGGTGGCAAGTTACACTTGGGGTTTATTTCAGAT
CCGAGAGAAGCTTGATCAGTTGAGGAAAAGTGTGCTGAAAAGCAGGAGAAGAGAAATCAGGATCGCTTGAGGAG
GAGAGAGGAGAGGGAACGGGAGGAGCGTCTGAGCAGGAGGTGCGGATCAAGAACCAGAGATCGCAGGAGGTACG
CTCCCGGGATCGGCGTCGGAGGCGGTCAAGATCTACCTCCCAGAGCGACGGAAATTGTCCCGGTCCCGGTCCCG
AGATAGACATCGGCGCCACCGCAGCCGTTCCCGGAGCCACAGCCGGGGACATCGTCGGGCTTCCCGGGACCGAAG
TGCGAAATACAAG**TAA**CTACTCTGACTCCTTCGGTAGCTGCAACCAGGAGTGAGCCCTTCTCTGTGTTCCAGGG
TCTGCTGAGGGCCGTGTCTGGTGGGGATGGGGCTGGGCTCACCTCAGGAGTAGGGCTGGGGAGTCGTGAACGGG
ACTCAGGTGTGGGAAGAGGCGAGAGGGCTGTGGAGGAGCTCGCACGGCGCCAGGTGATGGGCTGCACAGGCACTG
TCCCCTGCCTGCGTCCCTGGGGCCTGTGCACTGTTGCGTCCATGCTCAGAGTGGCTGAGACTTGTGTCTGACCAG
GCCCTGCTTACCTCTGTTTTGGTTTTTGTTTTTTGATATTTTTTTTCCATTGTGTTTTTACGTAGTGTCTATGTTT
TGTGCATATAGTGTTGTATTCTCCTTTGCACTGTTTATGTTACAGTGAAGGCTCTCCTTATTAAAAATCTTCGCA
AAGGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4359

MSAQAQMRALLDQLMGTARDGDETRQVRKFTDDRVCKSHLLDCCPHDILAGTRMDLGECTKIHDLALRADYEIAS
KERDLFFELDAMDHLESFIAECDRRTTELAKKRLAETQEEISAEVSAKAEEKVHELNEEIGKLLAKAEQLGAEGNVD
ESQKILMEVEKVRAKKKEAEEYRNSMPASSFQQQKLRVCEVCSAYLGLHDNDRLADHFGGKLHLGFIQIREKL
DQLRKTVAEKQEKRNQDRLRRREEREREERLSRRSGSRTDRRRSRSDRRRRRSRSTSRERRKLSRSRSRDRHR
RHRSRSRSHSRGHRRASRDRSAKYK

FIGURE 4360

AGCGGCGAGGGCTGGATCCTGGGCCAAATATATGCCAACACGACAAGCTCTCCAAGAGGCTGAAGAAAGTGTGG
 AAGCCACAGCTGTTTTGAGCGAGAGTTCTACAGTGAGATCCTGGACAAGAAGTTCACAGTGAAGTGTGAAC**ATG**CGG
 ACCCTGGACCTCATCGATGAGGCTTACGGGCTCGACTTTTACATCCTCAAGACCCCGAAGGAGGACCTGTGCTCC
 AAGTTTGGGATGGAGCTGAAGCGAGGGATGCTGCTGCGGCTTGCCCGGCAGGACCCCGAGCTGCACCCCGAGGAC
 CCCGAGCGGGCGGGCAGCCATCTACGACAAGTACAAGGAATTTGCCATCCCAGAGGAGGAGGCAGAGTGGGTGGGC
 CTCACGCTGGAGGAGGCCATTGAGAAGCAGAGACTTTTGGAGGAGAAGGACCCTGTACCCCTGTTCAAGATCTAT
 GTGGCGGAGCTGATCCAGCAGCTGCAGCAGCAGGCACCTGTCAGAGCCGGCGGTGGTGCAGAAGACAGCCAGTGGC
 CAG**TGA**ACCACACAGCTCCTCCATGCCTGACCAACAGGCCAGCTTTCCCTGCCAGGCCCTTTGCACTGAGGACAC
 AGATCCCGGGGAGCTGTGAGGGCCACCGGTGGGCAGTGGGTGGATCCTGGTTTCGTGTGCTGCCCATGCACCTTC
 CAGCCCGGGGCCAGCTTGGCAGGGATCCCCAGGAGGCCTGGGCCGCCAGAGGCTCCTCTCAGGCTGGGCCCCGA
 CGTTTGGCGCAGTGTTTCCTTGTCCTGGGGCCGGGAGCGAGTAAAGTCTGGGCCAGGC

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FIGURE 4361

MRTLDLIDEAYGLDFYILKTPKEDLCSKFGMELKRGMLRLRLARQDPQLHPEDPERRAAIYDKYKEFAIPEEEAEW
VGLTLEEAIKQRLLEEKDPVPLFKIYVAELIQQLQQQALSEPAVVQKTASGQ

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FIGURE 4362A

GCACCGCGGCTGAGGAGCGGGAGGCCGTCCGGGCGAGCGCGGCCGGCGGCGAGAGGGGCCCCGCCGCTCTCCGGAG
GCAGAAGTTGTGGATCGGCCGGCGGGGGCGAGCGGGCCCGGGGGCCGGGGCCGCGCTGCCCGGGCCGCGAGGACG
AGGCGGCGCCGCGGGCTGTGGAGGCAGAGCCAGACGCGGCACAGAGAGGGCCTGGGAGCTTGCTGCAGCTTC
AGACAGGGAGCCAGGATGGGAACCACGGACTGACCTGACCTGCGTCTCGGGGCCACTGCACTGGGTGATTACAG
TGTGCCCAGGCCCTGAGGTGGGCGGACCTGGGAGTGGCAGCCACACCCACTCGCCCGGGTCT**ATG**GCCACGGTC
GGAGAGTGGTCTGTGTGCGCTGCACCTTCCTGAACCCGGCCGGCCAGCGCCAGTGCTCCATCTGCGAGGCTCCC
CGGCACAAGCCCCGACCTCAACCACATCCTGCGGCTCAGCGTGAGGAGCAGAAATGGCCCTGCGCCCGCTGCACC
TTCCGCAACTTCCTGGGCAAGGAGGCCTGCGAGGTGTGCGGCTTACCCCGGAGCCTGCGCCTGGGGCTGCCTTC
CTGCCAGTCTCAACGGGGTCTTCCCCAAGCCACCCGCCATCTGGGGGAGCCCAAGGGCAGCTGCCAGGAGGAA
GCAGGTCCAGTGAGGACTGCGGGGCTGGTGGCCACGGAGCCCGCCAGGGGGCAGTGCGAGGACAAGGACGAGGAG
GAGAAGGAGGAGCAGGAGGAGGAGGAGGAGCGGCGGAGCCAGAGGGGGCTGGGCGTGTCCGCGTTGCACGCTG
CACAACACGCCCCGTGGCCAGCTCCTGCTCCGTCTGCGGGGGCCACGCAGGCTCTCGCTGCCACGGATCCCTCCT
GAGGCCCTGGTGGTCCCGGAAGTGGTGGCCCCGGCCGGCTTCCACGTCTGCTGCCGCGCCTCCACCTGGCCTC
CCCGGGGAAGGTGCCGAGGCCAACCCCCCAGCCACCAGCCAGGGCCCCAGCTGCCGAACCAGAGCCGCCCCAGGGTC
CCGCCCTTCAGCCCCCTTCTCGTCCACCCTGCAGAACAACCCCGTGCCGCGCAGCCGACGCGAGGTTCCCCCCAG
CTGCAGCCACCGGTGCCTGAGGCTGCCAGCCGTACCCCTCTGCCGGCTGCAGGGGAGCCCCCAGGGCTCGGGC
TGGGCTGGGGCCTCCCGCCTAGCAGAGTTGCTGTCTGGCAAGCGGCTGAGTGTGCTGGAGGAAGAGGCCACGGAG
GGTGGCACCAGCCGCGTAGAGGCCGGCAGCTCCACCTCGGGCAGTGACATCATTGACCTGGCCGGAGACACCGTG
CGTTACACGCCCCGCCAGCCCCCTCCAGCCCCGACTTCACCACCTGGTCAATGTGCCAAGTGCACGCTCAGAAACCCC
ACAGTGGCCCCCAGGTGCTCGGCCTGCGGCTGCTCCAACTGCACGGCTTCCAGGAGCATGGCGAGCCCCCACC
CACTGCCCCGACTGTGGGGCCGACAAGCCCAGCCCCCTGCGGCAGAAGCTGCGGACGGGTGTCTCGGCCCAGAAG
GCCGCCCGCTCCTGCCCGAGCGCCCCGGGCCAGTGGGCTGCCCTGCCTGTACCCTGCTCAACGCACTGCGGGCC
AAGCACTGCGCCGCTGCCACACGCTCAGCTCCTGGTGGCCAGCGCGGGGGGCGCGCCCCCTGAGGCGCAGG
GAGAGCATGCACGTGGAGCAGCGCGGCAGACAGAGGGCGAGGCCAAGGCACTCTGGGAGAATCGTGCC
TTCTGCCGGGAGAACAATGTGAGCTTCGTGGATGACAGCTTCCCTCCCGGGCCGAGTCTGTGCGCTTCCCCGCG
GGTGACAGCGTGACAGCGTGTGAGGCAGTGGCTGCGACCCACAGGAGATCAACTGCTCCGTCTTACGGGACCAC
AGGGCCACGTGGTCTGTGTTCCACACACTGCGGCCCTCAGACATCCTGCAGGGGCTGCTGGGGAAGTGTGTTT
CTGAGCGCCCTGGCGGTGCTGGCGGAGCGGCCGACCTGGTGGAGCGGGTGATGGTCACGCGCAGCCTGTGTGCA
GAGGGCGCCTACCAGGTGCGGCTGTGCAAGGACGGCAGTGGACCACGGTGCTGGTGGACGACATGCTGCCCTGT
GATGAGGCCGGCTGCCTCCTTCTCACAGGCGCAGCGGAAGCAGCTGTGGGTGGCCCTCATCGAGAAGGCGCTG
GCCAAGCTGCACGGCTCCTACTTTGCGCTCCAGGCGGGCCGCGCCATCGAAGGCCTGGCCACGCTACCGGCGCC
CCCTGTGAGAGCCTGGCGCTGCAGCTCAGCTCCACTAACCCCCGCGAGGAGCCCGTTGACACTGACCTCATCTGG
GCCAAAATGCTGAGTTCTAAGGAGGCTGGGTTCCTCATGGGTGCCTCCTGTGGCGGGGGCAACATGAAGGTGGAC
GATTCGGCCTACGAGAGCCTGGGCCTGCGCCCCCGGCATGCCTACTCCATCCTGGATGTCCGAGATGTCCAGGGC
ACCAGGCTTCTGCGGCTCCGAAACCCGTGGGGCCGTTTCTCCTGGAACGGCAGCTGGTCCGACGAGTGCCACAC
TGGCCGGGGCACCTGCGTGGCGAGCTCATGCCGCACGGCAGCAGTGAGGGTGTCTTCTGGATGGAGTACGGCGAC
TTTGTACAGTACTTCGACTCCGTGGACATCTGTAAGGTGCACCTCGGACTGGCAGGAGGCGCGGGTGACGGCTGC
TTTCCAGCTCGGCCAGCGCGCCCGTGGGGGTAACAGCGCTCACGGTGCTGGAGCGGGCCTCGCTGGAGTTTCGCG
CTCTTCCAGGAGGGCAGCAGGCGCTCGGACGCCGTGGACAGCCACCTGCTGGACCTGTGCATCCTGGTGTTCGCG
GCCACGTTTCGGCAGCGCGGCCACCTCAGCCTGGGCCGCTCCTGGCCACAGTAAGCGCGCGGTCAAGAAGTTC
GTCAGCTGCGACGTCATGCTGGAGCCTGGCGAGTACGCTGTGGTGTGCTGCGCCTTCAACCACTGGGGGGCGCCC
CTGCCGGGACCCCTGCCCCCAGGCCTCCAGCCCCCTGGCAGGGGTCCCGAGAGCCTCCCCAGAGCCGCCGGGC
CACGTGCTGGCTGTGTACAGCTCGAGGCTGGTCAATGGTGGAGCCCGTGGAAGCCCAGCCGACCAGCTGGCCGAC
GCCATCATCCTGCTCACCAGAGCGCGGAGAGCGGCACGAGGGCCGTGAGGGCATGACCTGCTACTACCTGACA
CACGGTTGGGCGGGGCTCATCGTGGTGGTGGAGAACCGACACCCCAAGGCCTACCTGCACGTGCAGTGTGACTGC
ACCGACAGCTTCAACGTGGTGTCCACACGCGGCAGCCTGCGTACCCAGGATAGCGTGCCACCCCTGCACAGGCAG
GTCTTGGTGTCTTGTCCCAGCTAGAGGGCAACGCCGGCTTCTCTATCACCCACCGCCTGGCACATCGCAAGGCA
CCCCAGGCCTTCTCAGTGACTGGACAGCCTCCAAGGGGACCCACAGCCCCCACTACGCCAGAGGTGCGCGGT

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FIGURE 4362B

CTGCATGGGCCCCGACCGCTGTGACCACCATGCCTGGGGCAGGGGCTGTGCACAGACGGACCCCCACCCCCACA
CGCACTTTATGAGGGAGACCCCGACAGAGGACGCTTGAGCCAGAATCTCAGGACCCCGCCCAGGGAGCTGCCAGC
CCAGGGCTCAGCTTCCCATGGGCCCCCGCCCCCTCCTTCCCCCTCCCTGAACCCACAGTCCGCCTGGCCAGAC
CTCCTGGCCGCCACGCAGAATACCTCGAACCAGGCGGGCTGTGAACCAGCCCCGCTCACCTGCCAGCCCCAACAC
CCGACGGGGGCCGAGGCCAGGCTGCCCCCTCCCTGTGGGCTCAGGGTCTCCTGCGGGCTAGGCAGCCAGGAGCTCT
GTCCGCAAACCAAATCTGGGTGTCAGAGGCCAAGACCCTGGGGTGGGATCAGGGACCACCCCTCACGGGGCATA
AGGTCAGTTTTCCCCCAGAGCCCGGGTCCCTGTCCCCACAGGGCAGGCGGGTCCCTGGAGCCCTGGTGTGGAG
CGGCGAGTCCCGGGGCGGTGCCTGTCTCAGAAGAAGGG

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FIGURE 4363

MATVGEWSCVRCTFLNPAGQRQCSICEAPRHKPDLNHILRLSVEEQKWPCARCTFRNFLGKEACEVCGFTPEPAP
GAAFLPVLNGVLPKPPAILGEPKGSQEEAGPVRTAGLVATEPARGQCEDKDEEEKEEQEEEEGAAEPRGGWACP
RCTLHNTPVASSCSVCGGPRRLSLPRIPPEALVVPEVVAPAGFHVVPAAPPPGLPGEAGAEANPPATSQGPAAEPE
PPRVPPFSPFSSTLQNNPVPRSRREVPPQLQPPVPEAAQPSPSAGCRGAPQGSWAGASRLAELLGKRLSVLEE
EATEGGTSRVEAGSSTSGSDIIDLAGDTVRYTPASPSDFTTWSCAKCTLRNPTVAPRCSACGCSKLHGFQEHG
EPPTHCPDCGADKPSPCGRSCGRVSSAQKAARVLPERPQQWACPACTLLNALRAKHCAACHTPQLLVAQRRGAAP
LRRRESMHVEQRRQTDEGEAKALWENIVAFCRENNVSFVDDSFPPGPESVGFAGDSVQQRVQRWLRPQEINCSV
FRDHRATWSVFHTLRPSDILQGLLGNCWFLSALAVLAERPDLVERVMVTRSLCAEGAYQVRLCKDGTWTTVLVDD
MLPCDEAGCLLFSQAQRKQLWVALIEKALAKLHGSYFALQAGRAIEGLATLTGAPCESLALQLSSTNPREEPVDI
DLIWAKMLSSKEAGFLMGASCGGNMKVDDSAYESLGLRPRHAYSILDVRDVQGTLLRLRNPNWGRFSWNGSWSD
EWPHWPGHLRGELMPHGSSEGVFWMEYGDFVRYFDSVDICKVHSDWQEARVQGCFFSSASAPVGVLTALTVLERAS
LEFALFQEGSRRSDAVIDSHLLDLCILVFRATFGSGGHLGLRLLAHSKRAVKKFVSCDVMLEPGEYAVVCCAFNH
WGPPLPGTPAPQASSPSAGVPRASPEPPGHVLAVYSSRLVMVEPVEAQPTTLADAIILLTESRGERHEGREGMT
YYLTHGWAGLIVVENRHPKAYLHVQCDCDTSFNVVSTRGSLRTQDSVPPLHRQVLVILSQLEGNAGFSITHRLA
HRKAAQAFLSDWTASKGTHSPPLTPEVAGLHGPRPL

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FIGURE 4364

CTGGGCCGCGAGGCGCGGAGCTTGGGAGCGGAGCCCAGGCCGTGCCGCGCGGCGCCATGAAGGGCAAGGAGGAGA
AGGAGGGCGGCGCACGGCTGGGCGCTGGCGGCGGAAGCCCCGAGAAGAGCCCGAGCGCGCAGGAGCTCAAGGAGC
AGGGCAATCGTCTGTTCGTGGGCCGAAAGTACCCGGAGGCGGCGGCCTGCTACGGCCGCGCGATCACCCGGAACC
CGCTGGTGGCCGTGTATTACACCAACCGGGCCTTGTGCTACCTGAAGATGCAGCAGCACGAGCAGGCCCTGGCCG
ACTGCCGGCGCGCCCTGGAGCTGGACGGGCAGTCTGTGAAGGCGCACTTCTTCCTGGGGCAGTGCCAGCTGGAGA
TGGAGAGCTATGATGAGGCCATCGCCAATCTGCAGCGAGCTTACAGCCTGGCCAAGGAGCAGCGGCTGAACTTCG
GGGACGACATCCCCAGCGCTCTTCGAATCGCGAAGAAGAAGCGCTGGAACAGCATTGAGGAGCGGCGCATCCACC
AGGAGAGCGAGCTGCACTCCTACCTCTCCAGGCTCATTGCCGCGGAGCGTGAGAGGGAGCTGGAAGAGTGCCAGC
GAAACCACGAGGGTGATGAGGACGACAGCCACGTCCGGGCCCAGCAGGCCTGCATTGAGGCCAAGCACGACAAGT
ACATGGCGGACATGGACGAGCTTTTTTCTCAGGTGGATGAGAAGAGGAAGAAGCGAGACATCCCCGACTACCTGT
GTGGCAAGATCAGCTTTGAGCTGATGCGGGAGCCGTGCATCACGCCAGTGGCATCACCTACGACCGCAAGGACA
TCGAGGAGCACCTGCAGCGTGTGGGTCATTTTGACCCCGTGACCCGGAGCCCCCTGACCCAGGAACAGCTCATCC
CCAACTTGGCTATGAAGGAGGTTATTGACGCATTATCTCTGAGAATGGCTGGGTGGAGGACTACTTGAGGTTCCC
TGCCCTACCTGGCGTCCTGGTCCAGGGGAGCCCTGGGCAGAAGCCCCCGGCCCTATACATAGTTTATGTTCCCTG
GCCACCCCGACCGCTTCCCCCAAGTTCTGCTGTTGGACTCTGGACTGTTTCCCCTCTCAGCATCGCTTTTGCTGG
GCCGTGATCGTCCCCCTTTGTGGGCTGGAAAAGCAGGTGAGGGTGGGCTGGGCTGAGGCCATTGCCGCCACTATC
TGTGTAATAAAATCCGTGAGCACGA

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FIGURE 4365

MKGKEEKEGGARLGAGGGSPEKSPSAQELKEQGNRLFVGRKYPEAAACYGRAITRNPLVAVYYTNRALCYLKMQQ
HEQALADCRRALELDGQSVKAHFFLGQCQLEMESYDEAIANLQRAYSLAKEQRLNFGDDIPSALRIAKKKRWNSI
EERRIHQESSELHSYLSRLIAAERERELEECQRNHEGDEDDSHVRAQQACIEAKHDKYMADMDELFSQVDEKRRKR
DIPDYLCGKISFELMREPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPLTQEQLIPNLAMKEVIDAFISENGWV
EDY

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FIGURE 4366

GCGGAGCTTCCAGGGTCTCTGGGTGCGCCAGCGCGCGGGCGCGCGGCTGGAGCCGGCGCCGGGCGACGGCATCGGGG
GCCTGGACTGCACGGCCCCGGCAGCAGGTTGGTCTTGCGCTGGGCGTGGGCGCGGGAGGGGCTCGGAGCCAGGGTC
GGCCTGCCCCACCGGGCCTGTGCGGGGCGCGGGTCTGCGCGGACTGCGGGGAGCGAGGAGGCCCCAGCCCTAACCC
GCGCTGCGGGCAGACCTGGCTGCGGGGCTGGTAGTGCTGCAGCCCCCTCCCCGCCCCACCGTCGGGCAGAGGCA
TTCACGTGCATCCCCCTGGAGGGGAGGGTCTGTGGGGAGGATCTGTGGGGCAGGTTTGGAACGGGCTCTTTCTCCA
GGCTTAGGTCAGGCAGGGCCCTTCAGGTCAGCCCGGAGCAGGCTGACTCCTTGACTCCCCAGCTGACGCCCTGGG
GACTGATCTCGGGGACTGAGGATGCAGGTGCACAGTAGGGCTGCGGACCCGGCTCGGTGGCTTCGCACCGGAGCC
CGGGTGGGGCGGTGCGGGTACCTCTGTATGCTGGGCTGGGGGCGCACCACGTGCTCACAGCACACGCACCCACGC
GTGGCTCGGCAGGCCGGCCATGGAGCCAGGCAGCGTGGAGAACCTGTCCATCGTGTACCGGAGCCGCGACTTCCT
GGTGGTCAACAAGCACTGGGACGTTTCGATTGACAGCAAGGCGTGGCGGGAGACTCTGACCCTGCAGAAGCAGCT
GCGGTACCGCTTTCCCGAGCTGGCCGACCCTGACACCTGCTACGGGTTTCAGGTTCTGCCACCAGCTGGATTTCTC
CACCAGCGGGGCGCTGTGCGTGGCCCTAAACAAGGCAGCCGCCCGGCAGCGCGTACAGGTGCTTCAAGGAGCGGGC
CGTGACCAAGGCTTACCTGGCATTGCTGCGGGGGCACATCCAGGAGAGCCGGGTAACCATCAGCCATGCCATTGG
CAGGAACAGCACGGAGGGCCGGGCCCACACCATGTGCATCGAGGGCTCGCAGGGTTGTGAGAACCCAAAGCCAAG
CCTCACAGATCTCGTGGTTCTGGAACACGGGCTGTACGCAGGCGATCCTGTCTCCAAAGTGCTGCTGAAGCCGCT
CACGGGCCGGACACACCAGCTGCGCGTGCAGTGCAGTGCCTGGGGCCACCCCGTGGTGGGCGACCTGACCTACGG
AGAAGTCTCGGGCCGGGAGGACCGGCCGTTTCAAGATGATGCTGCACGCTTTCTACCTGCGCATCCCCACGGACAC
CGAGTGTGTGGAGGTCTGCACGCTGACCCCTTCTGCCCCTCCCTGGATGCCTGCTGGAGCCCCACACACTGCT
GCAGTGCCTGGACCAGCTCGTGCAGGCCTTACGGGGCCACCCCGACCCCTGACCCCGAGGATAGGGGGCCCCAGGCC
AGGCAGCCCCCTCCGCACTCCTGCCTGGGCCCGGGCCGGCCTCCTCCACCCCAACCAAGCCCCCTGAGACTGAGGC
ACAGCGGGGCCCCCTGCCTGCAGTGGCTGTGCGAGTGGACGCTGGAACCGGACAGCTGAGAGCCGTGGGGCTGGGG
CAGGGGGTGTGCTGCTGCACAGCGGACTCTAGGGAGATGGGCGAGCGAGCGTCTGCTCACTGGCTCTGGGGCCTC
GAGGTGCCAGGCAGCATCAGGCCCCACTGGGTTGCCCCGGCCAGGCCTGCGAGGAAGGGCTGAGGTGGGGCCGGCA
GGGGGCGCCAGGCAGCCGTGATCACAGGTGACGACCGCACCGCGGCCGCTGGGACTGATGCGGGATCCCAGGGGCC
TTCTGCCCCACATGCCCCGGGAGAAACCGAGGCCCTCCCTCCTCCTGGAACAGCTTCCGGCTCTCAAGCGTCAC
CCCAGGGGCGTCAGTTTTTACGGACTCAAGGTCACCTCAGGAAGAGGCAGGGCCAGGTTTTGGGATAGGCTTTGCC
TCCAGGATGGGCTGCTCCTGGGCCTGGTGAGCTACTGCCCCAACCTACCCTCTAGAGGGGCTGGGAAGGGCCGT
TCTGGGCTCACCTGGCCTGGGAGACCCATCTGGTCCCTGCGTCTCTGCCCCCTCACTGCTCTGTGCAGATCCTGT
CGCCCTCAGCTGCCTCCTCCCGAGACCTAATGGTCCCTGCTGGGCTCGAGTCTGCAGGCCCCGGCTGCGTGTGCT
TGGCCTCACTGTACCAGTGGTTCCCTCTCTGCCCCGATTCTGAGCTCAGTGTGGTGTGTTGGTGCACAGGGGTTGG
TCAGGGGCCATGGCCAAGGCCCTGCCACGCACGCCCATCCCTCAGATCCACTGTGAGCACCAACCTGCTGCAGTC
TCTTGGGGCCCTGCTGGCAGCTCTGCCACGTCACCGCCTGCCTGGCTCCACACAGCCATGCATTGTCACTCTGC
CTCCGGGACCCAGCTTGGGAGCTGTGGGTCTGCCAGTCCACCTCCTCTGTCCCCCATGCCACAACCTGGGCT
CCTGGCTACAGCAGGGCTCCAGGGACTCCAAATAAATGTTTCACTGACTGGCTCCAAGGATGAC

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FIGURE 4367

MEPGSVENLSIVYRSRDFLVVNKHWDVRIDSKAWRETLTLQKQLRYRFPPELADPDTCYGFRFCHQLDFSTSGALC
VALNKAAGSAYRCFKERRVTKAYLALLRGHIQESRVTISHAIGRNSTEGRAHTMCIEGSQGCENPKPSLTDLVV
LEHGLYAGDPVSKVLLKPLTGRTHQLRVHCSALGHPVVGDLTYGEVSGREDRPFMRMLHAFYLRIPTDTECVEVC
TPDPFLPSLDACWSPHTLLQSLDQLVQALRATPDPDPEDRGPRPGSPSALLPGPGRPPPPPTKPPETEAQRGPCCL
QWLSEWTLEPDS

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FIGURE 4368

GCGGGAGGTTTCGAGCGGGAGCTCGGGCTCGCGGACGGTATGGAGGACTACGAGCAGGAGCTGTGCGGCGTCGAG
GATGATTTCCACAACCAGTTTCGCGGCCGAGCTGGAGGTGCTGGCAGAGCTGGAAGGGGCGTCGACTCCGTCGCCC
TCCGGGGTCCCCCTGTTACCGCGGGCCGACCCCGCGGACGTTTCGAGGAGGCCCTTGCCAGAGGGGACGCGGCC
TCCAGTCCCGCCCCAGCCGCATCTGTGGGCAGCAGCCAGGGCGGCGCCAGGAAGAGGCAGGTGGACGCCGACCTG
CAGCCGGCCGGGTCCCTGCCCCACGGTAGGTTGGCGGCATTGCCCCAGGGCCTCCGGAGTGGGCGCGAGGCTGAG
GAGGCCTCTGGTTCCCTGCATGTGTCTCCCCCAGCCCCCAGGATCAAACGGCCTAGGCTGCAGGTGGTCAAGAGG
CTGAACCTCAGATCGGAGGAGATGGAGGAGCCGCCCCCTCCCGACTCCTCGCCGACGGACATCACCCCGCCGCCG
AGCCCTGAGGACCTCGCAGAGCTTTGGGGCCACGGAGTCTCAGAAGCTGCTGCCGACGTGGGTCTCACACGGGCC
TCACCAGCTGCCCCGAATCCCGTCCTGAGGCGGCCCCCATCTTGGAGGACTACGTCCACGTGACATCCACGGAG
GGCGTCCGGGCTTATCTGGTGTGCTGCTGACCCATGGCCCCGGGGGTGCAGGGCTCTCTCCTCCACGTCCCA
TGGCGAGGCGGTGGCCAGCTGGACCTGCTGGGTGTGTCTTAGCCTCCCTGAAGAAGCAGGTTCGACGGCGAGCGG
CGGGAGCGGCTGCTTCAGGAGGCCAGAAGCTTTCAGACACCCTGCACAGTCTCAGGTTCGGGGGAGGAGGAGGCA
GCCAGCCCTTGGGGGGCCCTGAGGAGGAGCCGACTGACGGTCAAGACGCCTCCAGTCACTGCCTCTGGGTGGAT
GAGTTTGACCCCCGCCACTACACGGAGCTGCTCAGTGATGACTTCACCAACCGCTGCCTGCTCAAGTGGCTGAAG
TTGTGGGACCTGGTGGTGTTTGGCCACGAGAGGCCTTCCCGGAAGCCAGGCCAGTGTGAGCCGGCCCCGGGT
AGCAAGGAGGCCACAGCCCCAGGCAAGTGAAGAGCCACGAACAGGTGCTGGAGGAGATGCTGGAGGCTGGGCTG
GACCCGAGCCAGCGACCGAAGCAGAAGGTGGCACTGCTCTGTGGGCCCCGGGGTGGGGAAGACCACCTGGCA
CACGTGATTGCGCGTCACGCGGGTACTCTGTGGTGGAGATGAACGCCAGTGACGACCGTAGCCCGGAGGTCTTC
CGCACACGCATCGAGGCGGCCACCCAGATGGAGTGGTGCTGGGTGCTGGCGGGAAGCCCAACTGCCTGGTCATC
GATGAGATCGACGGGGCCCCCGTGGCCGCCATCAACGTCTCTGAGCATCCTGAACCGCAAGGGGCCACAGGAG
GTGGGGCCACAGGGCCCGGTGTGCCTTCGGGAGGCGGCCGACGGCGCCGGGCAGAGGGGGGGCTCCTCATGAGG
CCCATTATCTGCATTTGCAATGACCAGTTTCGCACCGTCCCTGCGGCAGCTGAAGCAGCAGGCCTTCTGCTCCAC
TTCCCGCCGACTCTGCCCTCGAGGCTGGTGCAGCGGCTCCAGGAGGTCTCCCTGCGGCAGGGCATGAGGGCCGAC
CCAGGGGTGCTGGCCGCCCTCTGTGAGAAAAGTACAATGACATCCGGGCCTGCATCAACACCCTGCAGTTCTCTG
TACAGCCGGGGCCAGCGGGAGCTGAGCGTGGCGGACGTGCAGGCCACACGCTGGGCCTCAAGGACCAGCGCAGA
GGGCTCTTCTCGGTGTGGCAGGAGGTCTTCCAGCTGCCTCGAGCCAGAGGCGCCGTGTGGGCCAGGACCCCCGCC
CTGCCTGCTGACACACTCCTGCTGGGTGACGGGGACGCGGGCTCCCTCACCTCCGCCTCACAGCGATTCTACCGT
GTCCTGCATGCCGCTGCCTCTGCGGGCGAGCACGAGAAGGTGGTCCAGGGCTTGTGTTGACAACCTTCTGCGTCTG
CGGCTGCGAGACTCCAGCCTGGGTGCTGTGTGTGTGGCCCTCGACTGGCTGGCCTTCGATGACCTGCTGGCGGGG
GCTGCTCATCACAGCCAGAGCTTCCAGCTGCTGCGCTACCCACCTTCTGCCCCTGGCCTTCCATGTGCTGTTT
GCTTCCAGCCACACACCAGGATCACCTTCCCCAGCAGCCAGCAGGAGGCCAGAACCGGATGAGCCAGATGAGG
AACCTGATCCAGACGCTGGTGTCCGGCATCGCGCCAGCCACGCGCAGCCGGGCCACGCCCCAGGCCCTGCTCCTC
GATGCCCTCTGCCTGCTCCTGGACATTCTTGACCCAAAGCTCCGCCCCGTGAGCACACAGCTGTACAGCACCCGT
GAAAAGCAACAGCTGGCCAGCCTGGTGGGCACGATGCTCGCTTACAGCCTGACCTACCGCCAGGAGCGCACGCC
GATGGCCAGTACATCTACAGGCTGGAGCCGAACGTGGAGGAACCTGCGCCTTCCCTGAGCTGCCTGCCCCGAAG
CCCCCTACCTACCAGACGAAGCAGCTCATCGCCCGGAGATCGAGGTGGAGAAGATGCGGCGGGCGGAGGCTTCT
GCCCCGGGTAGAGAACAGCCCCCAGGTGGATGGGAGCCCCCAGGGCTCGAGGGTCTGCTGGGGGGCATTGGGGAG
AAAGGGGTGCACCGACCTGCCCCACGCAACCATGAGCAGCGGCTGGAGCACATCATGAGGCGAGCGGCCCGGGAG
GAACAGCCTGAGAAGGACTTCTTTGGACGTGTGGTCTGAGGAGCACAGCAGTCCCGAGTGCAGGGGACACGGCC
CCGGAGCAGGACTCAGTGGAGCGGCGCATGGGCACAGCGGTGGGCAGGAGCGAGGTCTGGTTCCGCTTCAACGAG
GGTGTCTCCAACGCCGTGCGGCGCAGCCTGTACATCAGGGACTTGCTCTTAGTTCTCTGAGCCGCGGACATGCCCT
CGCATTGCTTCCCGCAGAGTGCAGAGACAGGAAGCTGGAGATGTCTTTATAAAGTCACACCTTTACAGACTGT

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FIGURE 4369

MEDYEQELCGVEDDFHNQFAAELEVLAEELEGASTPSPSGVPLFTAGRPPRTFEEALARGDAASSPAPAASVGSSQ
GGARKRQVDADLQPAAGSLPHGRLAALPQGLRSGREAAEASGSLHVSPPAPRIKRPRQLQVVKRLNFRSEEMEEPPP
PDSSPTDITPPPSPEDLAELWGHGVSEAAADVGLTRASPAARNPVLRRPPILEDYVHVTSTEGVRAYLVLRADPM
APGVQGSLLHVPWRGGGQLDLLGVSLASLKKQVDGERRERLLQEAQKLSDTLHSLRSGEEAAQPLGAPEEEEPTD
GQDASSHCLWVDEFAPRHYTELLSDDFTNRCLLKWLKLWDLVVFGERPSRKPRPSVEPARVSKEATAPGKWKSH
EQVLEEMLEAGLDP SQRPKQKVALLCGPPGLGKTTLAHVIA RHAGYSVEMNASDDRSPEVFRTIEAATQMESV
LGAGGKPNCLVIDEIDGAPVAAINVLLSILNRKGPQEVGPQGPVPSGGGRRRRAEGGLMRPIICICNDQFAPS
LRQLKQQAFL LHFPPTLP SRLVQRLQEVSLRQGMRADPGVLAALCEKTDNDIRACINTLQFLYSRGQRELSVRDV
QATRVGLKDQRRGLFSVWQEVFQLPRAQRRRVGQDPALPADTLLLGDDAGSLTSASQRFYRVLHAAASAGEHEK
VVQGLFDNFLRLRLRDSSLGAVCV ALDWLAFD DLLAGAAHHSQS FQLLRYP PFLPVAFHVL FASSHTPRITFPSS
QQEAQNRMSQMRNLIQTLVSGIAPATRSRATPQALLLDALCLLLDILAPKLRPVSTQLYSTREKQQLASLVGTML
AYSLTYRQERTPDGQYIYRLEPNVEELCRFPPELPARKPLTYQTKQLIAREIEVEKMRRAEASARVENSPQVDGSP
PGLEGLLGGIGEGKVHRPAPRNHEQRLEHIMRRAAREEQPEKDFFGRVVVRSTAVPSAGDTAPEQDSVERRMGTA
VGRSEVWFRFNEGVSNAVRRSLYIRDLL

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FIGURE 4370

ATGGGTAGCCGGGCGCGGGGCGGGGCGCGGGGCGCCGCTTAAAGAACTTGTTGCGGGTCCCGCAGCGGGACC
CGAGCCTCGGGCGGCGGGCGGGCGGGCGGCAGGGGCGAGGGTCGGGGCCACCGCGCGGCGACCTCGGGTCCCGGAG
CGACCGCAGGGCAGCCCCGGGCGCCGGCCCCGGTGCGCGTCTCCTGTGCGCGCCCTCCGCGCGCGGGCCCCGATG
CTGGACATGAGCGAGGCCCGCTCCCAGCCGCCCTGCAGCCCGTCCGGCACCGCCAGCTCCATGTGCGACGTGGAG
GACTCGGACTCGGACGCGCCGCGCTCTCCGCGGGCTCCGAGGGCCTGGGCCGCGCGGGGGTTCGCGGTGGGGGGC
GCCCCGGGGCGACCCGGCGGAGGCGGCGGACGAGCGCTTCCCGGCCGTGCATCCGCGACGCCGTGTGCGAGGTGCTC
AAGGGCTACGACTGGAGTCTGGTGCCCATGCCGGTGCGCGGCGGGCGGCGGCGCGCTCAAAGCCAAGCCGCAT
GTGAAGCGGGCCATGAACGCATTTCATGGTGTGGGCGCAGGCGGCGCGCCGCAAGCTGGCCGACCAGTACCCGCAC
CTGCACAACGCCGAGCTCAGCAAGACGCTGGGCAAGCTGTGGCGCTTGCTGAGCGAGAGCGAGAAGCGGCCCTTC
GTGGAGGAGGCAGAGCGCCTTCGCGTGCGAGCACAGAAGGACCACCCGACTACAAGTACCAGCCACGGCGCAGG
AAGAGCGCCAAAGCCGGCCACAGCGACTCCGACTCGGGCGCGGAGCTGGGACCCACCCCTGGCGGGCGGTGCCGTG
TACAAGGCTGAAGCAGGGCTTGGAGATGGGACCAACCATGGCGACCACACAGGGCAGACCCACGGGCCGCCCCACC
CCGCCACCAACCCCAAGACGGAGCTGCAGCAGGCGGGCGCCAAGCCGGAGCTGAAGCTGGAGGGACGCCGGCCG
GTGGACAGCGGGCGCCAGAACATCGACTTCAGCAACGTGGACATCTCGGAGCTCAGCAGCGAGGTCATGGGCACC
ATGGACGCCTTCGACGTCCACGAGTTCGACCAGTACCTGCCCCCTGGGCGGCCCCGCCACCCGAGCCGGGCCAG
GCCTATGGGGGCGCCTACTTCCACGCCGGGGCGTCCCCCGTGTGGGCCCCACAAGAGTGCCCCGTGCGCCTCCGCG
TCGCCCACCGAGACGGGTCCCCCACGGCCGCACATCAAGACGGAGCAGCCGAGCCCCGGCCACTACGGCGACCAG
CCCCGAGGCTCGCCCGACTACGGTTCCTGCAGCGGCCAGTCCAGCGCCACCCCGGCCGCCCCCGCGGCCCTTC
GCCGGCTCACAGGGCGACTATGGCGACCTGCAGGCCTCCAGCTACTATGGTGCCTACCCTGGCTACGCACCCGGC
CTCTACCAGTACCCCTGCTTCCACTCGCCGCGCCGGCCCTACGCCTCACCCCTGCTCAACGGCCTGGCCCTGCCG
CCGCCCCACAGCCCCACCAGTCACTGGGACCAGCCGGTGTACACCACCTGACCAGGCCCT**TGA**

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FIGURE 4371

MGSRARGGAAGPPLKETCCGSRSGTRASAAAAAAGARVGATARRPRVPERPQGSPGRRPRCASPVRAPPRAAPM
LDMSEARSQPPCSPSGTASSMSHVEDSDSDAPPSPAGSEGLGRAGVAVGGARGDPAAEADERFPACIRDAVSQVL
KGYDWSLVPMPVVRGGGGGALKAKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLESESEKRPF
VEEAERLRVQHKKDHPDYKYQPRRRKSAKAGHSDSDSGAELGPHPGGGAVYKAEAGLGDGHHHGDHTGQTHGPPT
PPTTPKTELQQAGAKPELKLEGRRPVDSGRQNI DFSNVDISELSSEVMGTMDAFDVHEFDQYLPLGGPAPPEPGQ
AYGGAYFHAGASPVWAHKSAPSASASPTETGPPRPHIKTEQPSPGHYGDQPRGSPDYGSCSGQSSATFAAPAGPF
AGSQGDYGD LQASSYYGAYPGYAPGLYQYPCFHSRRPYASPLNGLALPPAHSPTSHWDQPVYTTLTRP

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FIGURE 4372A

GGCACGAGGCCGGCGCTTCCCGGCCGGTGTCTCGCTCCGCGCGGGGCCATGGCCAACGTCTCTAAGAAGGTGTCCTG
GTCCGGCCGGGACCGGGACGACGAGGAGGCGCGCCGCTGCTGCGGAGGACGGCGCGGGCCCGGGGGGACGCC
GCTGCTGAACGGGGCTGGGCCTGGGGCTGCGCGCCAGTCACCACGTTCTGCGCTTTTCCGAGTCGGACATATGAG
CAGCGTGGAGCTGGATGATGAACTTTTGGACCCGGATATGGACCCTCCACATCCCTTCCCCAAGGAGATCCCACA
CAACGAGAAGCTCCTGTCCCTCAAGTATGAGAGCTTGGACTATGACAACAGTGAGAACCAGCTGTTCTGAGGA
GGAGCGGCGGATCAATCACACGGCCTTCCGGACGGTGGAGATCAAGCGCTGGGTCACTGCGCCCTCATTGGGAT
CCTCACGGGCCTCGTGGCCTGCTTCATTGACATCGTGGTGGAAAACCTGGCTGGCCTCAAGTACAGGGTCATCAA
GGGCAATATCGACAAGTTCACAGAGAAGGGCGGACTGTCTTCTCCCTGTTGCTGTGGGCCACGCTGAACGCCGC
CTTCGTGCTCGTGGGCTCTGTGATTGTGGCTTTTATAGAGCCGGTGGCTGCTGGCAGCGGAATCCCCCAGATCAA
GTGCTTCTCTAACGGGGTGAAGATCCCCACGTGGTGGCTCAAGACGTTGGTGATCAAAGTGTCCGGTGTGAT
CCTGTCCGTGGTGGGGGCTGGCCGTGGGAAAGGAAGGGCCGATGATCCACTCAGGTTTCAAGTATGCGGCCGG
GATCTCTCAGGGAAGGTCAACGTCACTGAAACGAGATTTCAAGATCTTCGAGTACTTCCGCAGAGACACAGAGAA
GCGGGACTTTCGTCTCCGCAGGGGCTGCGGCCGGAGTGTGAGCGGCTTTGGAGCCCCCGTGGGTGGGGTCCCTGTT
CAGCTTGGAGGAGGGTGCCTCTTCTGGAACAGTTTCTGACCTGGAGGATCTTCTTTGCTTCCATGATCTCCAC
GTTACCCCTGAATTTTGTCTGAGCATTACCACGGGAACATGTGGGACCTGTCCAGCCCAGGCCTCATCAACTT
CGGAAGGTTTGAAGTTCGGAGAAAATGGCCTACACGATCCACGAGATCCCGGTCTTCATCGCCATGGGCGTGGTGGG
CGGTGTGCTTGGAGCAGTGTTCATGCCTTGAAGTACTGGCTGACCATGTTTTCGAATCAGGTACATCCACCGGCC
CTGCCTGCAGGTGATTGAGGCCGTGCTGGTGGCCGCCGTACAGGCCACAGTTGCCTTCGTGCTGATCTACTCGTC
GCGGGATTGCCAGCCCCCTGCAGGGGGGCTCCATGTCTTACCCGCTGCAGCTCTTTTGTGCAGATGGCGAGTACAA
CTCCATGGCTGCGGCCCTTCTTCAACACCCCGGAGAAGAGCGTGGTGAAGCTCTTCCACGACCCGCCAGGCTCCTA
CAACCCCTGACCCCTCGGCCTGTTACAGCTGGTCTACTTCTTCTGCTGGCTGCTGGACCTACGGGCTCACGGTGTG
TGCCGGGGTCTTCATCCCGTCCCTGCTCATCGGGGCTGCCTGGGGCCGGCTCTTTGGGATCTCCCTGTCTACCT
CACGGGGGCGGCGATCTGGGCGGACCCCGGCAATACGCCCTGATGGGAGCTGCTGCCAGCTGGGCGGGATTGT
GCGGATGACACTGAGCCTGACCGTCATCATGATGGAGGCCACAGCAACGTGACCTACGGCTTCCCCATCATGCT
GGTGTCTCATGACCGCCAAGATCGTGGGCGACGTCTTATTGAGGGCTGTACGACATGCACATTAGCTGCAGAG
TGTGCCCTTCTGCACTGGGAGGCCCGGTACCTCACACTCACTCACTGCCAGGGAGGTGATGAGCACACCAGT
GACCTGCCTGAGGCGGCGTGAGAAGGTGCGCGTCATTGTGGACGTGCTGAGCGACACGGCGTCCAATCACAACGG
CTTCCCGTGGTGGAGCATGCCGATGACACCCAGCCTGCCCGGCTCCAGGGCCTGATCCTGCGCTCCCAGCTCAT
CGTTCTCTAAAGCACAAAGGTGTTTGTGGAGCGGTCCAACCTGGGCTGGTACAGCGGCGCTGAGGCTGAAGGA
CTTCCGAGACGCTACCCGCGCTTCCCACCCATCCAGTCCATCCACGTGTCCCAGGACGAGCGGGAGTGCACCAT
GGACCTCTCCGAGTTTATGAACCCCTCCCCCTACACGGTGGCCAGGAGGCGTCCGCTCCCACGGGTGTTCAAGCT
GTTCCGGGGCCTGGGCCTGCGGCACCTGGTGGTGGTGGACAACCGCAATCAGGTTGTGGGGTGGTGAACAGGAA
GGACCTCGCCAGGTACCGCTGGGAAAGAGAGGCTTGGAGGAGCTCTCGCTGGCCAGAGCTGAAGGCCAGCCCT
GCCCATATGGGCACTGGCGCTGGCACCCCGGCCCTTCTGCATTTCTCCCGAGTCACTGGTTTCTCGGCCCAA
ACCATGCTCCCCAGCAGTGGCAATGGCGAGCACCTGCAGCTGGGCGGGCAGGCGGCAGGCGCGGAACCTGACCC
CTCGCGGACTGACCCCTGTTGTGGGCAGTGGTCTCCCCCTTGGCGCCTCCTTGGCGAGGCCAGCCTCCACTCT
CCTCGTCTAGGTTTCTTTACCTCCAGGGATCAGCTGTGTGTGTGTGACCTCCCTACCGGGCTATCGGCCTCTTGG
GAGCCAGCGGCAGGGCCGGCACCTGCGTGCCTGTGCGCGTGTGCTGAGACAGAGCCCTTGGCCCTGCTGCTGCC
CCGAGGGCTGCCCTGCCCTGGAAGGGCCCTCTGCCTCCACACAGTGGAGTCTTCGAGACTTGGGAGCTGCTTG
GCCTCATTTTTCAGCCATGAGCAGACGGCCTGTGGTCCCTGGGCCTGAGGCACGGACTCGTAGCACCAGGGTTTGG
AGGCTGCGACCGCCCCGAGAGCAGCTTCACACTGGCGCCACAGAGGAGCCCCACGTGCACTCCCCGGCCTGCAT
CCGGCTTGGGTACACGGGCCCAGAGGACTGGGGTGAATCACGGGCCCTGTGCTGTGATGTTGAGAGCTGAGAAAA
ACCTCCAAGGCCCTGAGCCCCATGCCCAGCCCTGCCTTGGTCCCCCAACCCCCAGAGCTTGGAGTCTGGGCCCCA
CACCCAGCCCTGCCTTGGTCCCTGAGCCTCAGAGCGTGGAATTGCTGCCCTGTGGACACTGGCTGGGAAGGCAGG
TCTTCCCCCTAGCACATGGGGACCCCGCCTCGAGGGTGACCTCCCTACCTTGGCCCTGCCAGCCACCAAGCGCAG
GTGACGCGGGGGCCAGACTCCTGCCGGCCTCAGAGGACACCTGGCCAGCACAGGCAGCTAGAAGGGCCGGTGGG
CACCGGGGCCGGGAAGCCCCACCTACACCTGAGGGCCCTGGGAGGCTCCTCTGGCCTGGCTGGGCTGGGTCT
TGGGGCCGCCACAGGCCCTCACGGGGCGGCAGAGGCAACTTCAAGTGTCCCTGTTAGAGCAACACGGGTCCCTCC

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FIGURE 4372B

GTGGGGGGCTGGGTGCGGCCCCCTGCCGTGTATTTCCTCCCCAGGGAGTGGGGCCTCCCCGGGAGCTGACGCCAC
CACCTGCTTAGCCCTCACAGGGCCCCAAGGTGTCCGAGTGTGTTGGGTCTGAACGCGAAATAAGAAATCCTCT
CAAAAAAAAAAAAAAAAAA

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FIGURE 4373

MANVSKKVSWSGRDRDDEEAAPLLRRTARPGGGTPLINGAGPGAARQSPRSALFRVGHMSSVELDDELDPDMDP
PHFPKKEIPHNEKLLSLKYESLDYDNSENQLFLEEERRINHRTAFRTVEIKRWVICALIGILTGLVACFIDIVVEN
LAGLKRYRVIKGNIDKFTEKGLSFSLLLWATLNAAFVLVGSVIVAFIEPVAAGSGIPQIKCFLNGVKIPHVRLK
TLVIKVSQVILSVVGGLAVGKEGPMIHSGSVIAAGISQGRSTSLKRDFKIFEYFRDTEKRDFVSAGAAAGVSAA
FGAPVGGVLFSLLEEGASFVNQFLTWRIFASMISTFTLNFLVLSIYHGNMWDLSSPGLINFGFRDSEKMAYTIHEI
PVFIAMGVVGGVLGAVFNALNYWLTMFRIRYIHRPCLQVIEAVLVAAVTATVAFVLIYSSRDCQPLQGGSMSYPL
QLFCADGEYNSMAAAFFNTPEKSVVSLFHDPGSGYNPLTLGLFTLVYFFLACWTYGLTVSAGVFIPSLIGAAGW
RLFGISLSYLTGAAIWADPGKYALMGAAAQLGGIVRMTLSLTVIMMEATSNVTYGFPIMLVLM TAKIVGDVFIEG
LYDMHIQLQSVFPLHWEAPVTSHSLTAREVMSTPVTCLRRREKVGVIQVLDVLSDTASNHNHGFVVEHADDTQPARL
QGLILRSQLIVLLKHKVFVERS NLGLVQRRRLRLKDFRDAYPRFPPIQSIHVSQDERECTMDLSEFMNPSPTYVPO
EASLPRVFKLFRALGLRHLVVVDNRNQVVGLVTRKDLARYRLGKRGLEELSLAQT

[illegible]

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FIGURE 4375

MEPAPSEVRLAVREAIHALSSSEDGGHIFCTLESILKRYLGEMEPPALPREKEEFASAHFSPVLRCLASRLSPA
WLELLPHGRLEELWASFFLEGPADQAFVLVLMETIEGAAGPSFRLMKMARLLARFLREGRLAVLMEAQCRQOTRPGFI
LLRETLGKVVALPDHLGNRLQQENLAEFFPQNYFRLLGEEVVRVLQAVVDSLQGGLDSSVSFVSQVLGKACVHG
RQQEILGVLVPRLAALTQGSYLHQRVCWRLVEQVPDRAMEAVLTGLVEAALGPEVLSRLLGNLVVKNKKAQFVMT
QKLLFLQSRLTTPMLQSLGHLAMDSQRRPLLLQVLKELLETTWGSSSAIRHTPLPQQRHVSKAVLICLAQLGEPE
LRDSRDELLASMMAGVKCRLDSSLPPVRRLLGMIVAEEVVSARIHPEGPPLKFQYEEDELSELELLALASPQPDGA
SEAGTSLVPATAEPPAETPAEIVDGGVPQAQLAGSDSDLDSDDEFVPYDMSGDRELKSSKAPAYVRDCVEALTTS
EDIERWEAALRALEGLVYRSPTATREVSVELAKVLLHLEEKTCVVGFAGLRQALVAVTVTDPAVADYLTSSQFY
ALNYSRLRQMDILDVLTAAQELSRPGCLGRTPQPGSPSPNTPCLPEAAVSQPGSAVASDWRVVVEERIRSKTQR
LSKGGPRQGPAGSPSRFNSVAGHFFFLLQRFDRPLVTFDLLGEDQLVLGRLAHTLGALMCLAVNTTVAVAMGKA
LLEFVWALRFHIDAYVRQGLLSAVSSVLLSLPAARLLEDLMDELLEARSWLADVAEKDPDEDCTRLALRALLLQ
RLKNRLLPPASP

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FIGURE 4376

CGCTCCCGCACCGCCATCATGATCTGCCTGGTGCTGACCATCTTCGCTAACCTCTTCCCCGCGGCCTGCACCGGC
GCACACGAACGCACCTTCCTGGCCGTGAAGCCGGACGGCGTGCAGCGGCGGCTGGTGGGCGAGATTGTGCGGCGC
TTCGAGAGGAAGGGCTTCAAGTTGGTGGCGCTGAAGCTGGTGCAGGCCTCCGAGGAGCTGCTGCGTGAGCACTAC
GCCGAGCTGCGTGAACGCCCCGTTCTACGGCCGCCTTGTCAAGTATATGGCCTCCGGGCCGGTGGTGGCCATGGTT
TGGCAGGGGCTGGACGTGGTGCGCACCTCGCGGGCGCTCATCGGAGCCACGAACCCGGCCGACGCCCCGCCCCGGC
ACCATCCGCGGGGATTTCTGCATCGAGGTTGGCAAGAACCTGATTACGGCAGCGACTCGGTGGAGAGTGCCCCG
CGCGAGATCGCTCTCTGGTTCCGCGCAGACGAGCTCCTCTGCTGGGAGGACAGCGCTGGGCACTGGCTGTATGAG
TAGCCCCGGCAGATGCGCGTCACAGAGGCTCTCACACTCCAGCCTCCTCCAGGGCCCAGGTGGGCGGGCTTCTGGC
CCCACCCACAGCGCTTGGAGCATCCCTTTGGACGGGCTGCTGAACATCCACCTGTCTGGACGTTGCATGGAGGG
TGGCGCAGGCCTCTCCAATCCCTGGCGTACAGGGTTTCTGCCCCGAGGAGCTGCTCCAGGAGCCTGCGCGGCTCG
CCTGGAAACGTGCCAGGACACTGTCTGGTGCCAGCCCAACGTGGTCCAACGTTTTTTTATAATAAAGTCCTCG
TTTTCGTT

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FIGURE 4377

MICLVLTIFANLFPAACTGAHERTFLAVKPDGVQRRLVGEIVRRFERKGFKLVALKLVQASEELLREHYAELRER
PFYGRLVKYMASGPVVAMVWQGLDVVRTSRALIGATNPADAPPGTIRGDFCIEVGKNLIHGSDSVESARREIALW
FRADELLCWEDSAGHWLYE

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FIGURE 4378

GCTGAGGACGCGGACCCGCC**ATG**GCGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCCGCCGCGTGC
GCGCCCTGCGGGAGCAACTGAACAGGCCGCGCGACTCCCAGCTCTACGCGGTGGACTACGAGACCTTGACGCGGC
CGTTCTCTGGACGCCGGCTGCCGGTCCGGGCCTGGGCCGACGTGCGCCGCGAGAGCCGCTCTTGACGCTGCTCG
GCCGCTCCCGCTCTTCGGCCTGGGCCGCTGGTACGCGCAAGTCCTGGCTGTGGCAGCACGACGAGCCGTGCT
ACTGGCGCCTCACGCGGGTGCGGCCCGACTACACGGCGCAGAACTTGGACCACGGAAGGCCTGGGGCATCCTGA
CCTTCAAAGGGAAGACTGAGAGCGAGGCGCGGGAGATCGAACACGTCATGTACCATGACTGGCGGCTGGTGCCCA
AGCACGAGGAGGAGGCCCTTACC GCGTTACGCGCGCGCGGAAGACAGCCTGGCCTCCGTGCCGTACCCGCCTC
TCCTCCGGGCCATGATTATCGCAGAACGACAGAAAAATGGAGACACAAGCACCGAGGAGCCCATGCTGAATGTGC
AGAGGATACGCATGGAACCCTGGGATTACCCTGCAAAACAGGAAGACAAAGGAAGGGCCAAGGGCACCCCGTCT**T**
AGAATGCCAGAACAGCGGGTGCCCTTAGGGGCTGTGAGGCAGTGGGGACCTTATTGATGAAAGAAACCGTCTTT
GCGTTACACCCGAGTCTGCCTCTCGGAGCAGGGAGCTCACCTTCCGCGACGTGTTCTGAGGGTCTGCATCTTAGG
GGGAGGGCTGGGGCAAATCGCCACCTGTGCCTTTCCCTCTGGCCCTGCTGCCCCACACCCAACTCCGAGGGCCC
ACGCTGGGGAAAGCGGGAAGCGCTCGCTCCCTTTCCCCCATTAGTGCTCTCTCTGCCTGGATCCCGGCAGAAGCT
ATGAAAGGGAATAAAGAGAAAAGAAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4379

MARKKVRPRLIAELARRVRALREQNRPDRDSQLYAVDYETLTRPFSGRRLPVRAWADVRRSRLQLLGRPLPLFG
LGRLVTRKSWLWQHDEPCYWRLTRVRPDYTAQNLDHGKAWGILTFKGKTESEAREIEHVMYHDWRLVPKHEEEAF
TAFTPAPEDSLASVPYPPLLRAMI IAERQKNGDTSTEEPMLNVQRIRMEPWDYPAKQEDKGRAKGPV

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FIGURE 4380

CTGGGAGGCTGACGGCCCCGCGGGCGTAAGCGGACTGCAGCCGCGAGCTCCTGGAGGCGGCGGGATGGAGGCGGCG
GCCGAGCCTGGAACCTGGCCGGCGCTCAGGCACATCATCCTGGTCCTCTCAGGAAAGGGGGCGTTGGGAAAAGC
ACCATCTCCACGGAGCTGGCCCTGGCACTGCGCCATGCAGGCAAGAAGGTGGGAATCCTGGATGTGGACCTGTGT
GGCCCCAGTATACCCCGCATGCTCGGGGCGCAGGGCAGGGCTGTGCACCAGTGCAGCCGCGGCTGGGCACCCGTC
TTCCTGGACCGGGAGCAGAGCATCTCGCTCATGTCTGTGGGCTTCCTGCTGGAGAAGCCGGACGAGGCCGTGGTG
TGGAGAGGCCCCAAGAAAAACGCGCTGATAAAGCAGTTTGTGTCCGACGTGGCCTGGGGGGAGCTGGACTACCTG
GTGGTGGACACGCCCCCGGGACCTCCGATGAGCACATGGCCACCATAGAAGCCCTGCGTCCCTACCAGCCCCTG
GGGGCCCTCGTGGTCACACGCCCCAGGCGGTGTCCGTGGGGGACGTGAGGCGCGAGCTGACCTTCTGTAGGAAG
ACGGGCTTGCGGGTGATGGGAATCGTGGAGAATATGAGCGGCTTCACCTGCCCACACTGCACGGAGTGCACCAGC
GTCTTCTCCAGGGGCGGCGGAGAGGAGCTGGCCCAGCTCGCCGGGGTGCCCTTCTTAGGCTCCGTGCCCTGGAC
CCTGCGCTCATGAGGACCCTGGAGGAGGGCCACGACTTCATCCAGGAGTTCCCCGGGAGCCCCGCCCTTCGCTGCA
CTCACCTCCATAGCCCAGAAGATTCTGGACGCGACGCCCGCGTGCCTCCCCTGACTAAGGCCACCTTCAGCCGC
TTTCCAGGGCCACCAAGGGCTCTGCTCCAGCCTCTCAGAGAAACAGAGGCCTGGGCTCGGTTCCCGGGCCCTGCA
GGGGCAGGCCCAGGCAGCGTCAGCGGGAGAGCTTCTCCCCGACCAGCCCAGCCCAGGATGTGTGCAACCAGCAG
CTCTGCCTGGTTGGCCTGCAGTGCCGTGGTCTGCGTGCTCTGCAGCTGTGAGACGGGGGCGGCCTGGGCTCTCTT
CCCATCCATGTTGCCTACCTGTGCCCCCTGGCAGCCGCGTGTCCACACAGTTAGCGGAGCGCAGGACTTCTGCAGT
CCTCAGGTGACCCCGGGCCTCCAGCACCTGGGTGCGTGTGTCATCTGTGTTTAGCTCGGGGAGTGCCCCCTAAGGG
GGCGAACTGACCTCAGGCATGTCTTGTAAGTGTAGAGGCGCCTGCCATTAAACGTGTCCGCTGCTGTGGCGACAG

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FIGURE 4381

MEAAAEFGNLAGVRHIILVLSGKGGVGKSTISTELALALRHAGKKVGILDVDLCGPSIPRMLGAQGRAVHQCDRG
WAPVFLDREQSISLMSVGFLLEKPD EAVVWRGP KKNALIKQFVSDVAWGELDYLVVDTPPGTSDEHMA TIEALRP
YQPLGALVVTTPQAVSVGDVRRELTFCRKTGLRVMGIVENMSGFTCPHCTECTSVFSRGGGEELAQLAGVPFLGS
VFLDPALMRTL EEGHDFIQEFPGSPAFAALTSIAQKILDATPACLP

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FIGURE 4382

CAAAACACCAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCCCCGGGGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCCGTCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAAGGAATCAGAGATCATTGATTTCT
TCCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCATTTGTTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATCGTCCCCGTGCGCAGAGGCTACTGGGGGA
ACAAGATCGGCAAGCCCCACACTGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTACGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTCATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTCACCAAGTCTCCCTATCAGGAGTTCACTGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ATACAAGAAAAATAAAGTGAATTAAGCGTGAA
AAA

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FIGURE 4383

MADDAGAAGGPGGPGGPGMGNRGGFRGGFGSGIRGRGRGRGRGRGRGARGGKAEDKEWMPVTKLGRLVKDMKI
KSLEEIYLFSLPIKESEIIDFFLGASLKDEVLKIMPVQKQTRAGQRTRFKAFVAIGDYNHVGVLGVKCSKEVATA
IRGAIILAKLSIVPVRRGYWGNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAEVPKKLLMMAGIDDCYTS
ARGCTATLGNFAKATFDAISKTYSLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRTQAPAVATT

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FIGURE 4384

GGGAGTGTGGCGTTCTGTGAAGAGTTCGGTGCTAACCTCCCTCACGCGGCGGTGGCTGCCGGGACCCTAGCAGGT
TTCAGCTGGAGCGGCGGCGGCGGCAAC**ATCGC**CAGAGACCGCGGGCCGGAGTGGGCCGCTTCAAGACCAACTATGCT
GTGGAGCGCAAAATTGAGCCTTTCTACAAGGGCGGAAAAGCACAGCTGGACCAGACTGGCCAGCACCTCTTCTGC
GTCTGTGGCACCAGAGTCAACATTCTGGAAGTGGCCTCGGGGGCCGTGCTGCGGAGTCTGGAGCAGGAGGACCAG
GAGGACATCACTGCCTTTGACCTCAGCCCTGACAACGAGGTGCTGGTGACAGCCAGTCCGGGCATTGCTGCTGGCT
CAGTGGGCCTGGCAAGAGGGCAGCGTTACCCGCCTGTGGAAGGCGATACACACGGCCCCCGTGGCCACCATGGCC
TTCGACCCACCTCCACTCTGCTAGCCACAGGTGGCTGTGATGGGGCCGTGCGCGTCTGGGACATCGTGCGGCAC
TACGGGACACACCATTCCGAGGCTCGCCCGGTGTCGTGCACCTAGTGGCCTTCCACCCGACCCCTACACGCCTG
CTGCTCTTCTCCTCGGCCACGGATGCCGCCATCCGCGTGTGGTCACTGCAGGACCGGTCACTGCCTGGCTGTGCTG
ACTGCCCACTACAGCGCCGTACCTCACTGGCCTTCAGCGCCGACGGCCACACCATGCTCAGCTCCGGCCGTGAC
AAGATATGTATCATCTGGGACCTTCAGAGCTGCCAGGCCACGAGGACCGTGCCTGTGTTTGAAGCGTGGAGGCT
GCTGTGCTGTTGCCAGAGGAGCCAGTGTCCAGCTGGGTGTGAAGTCCCCAGGGCTGTACTTTCTGACAGCTGGC
GACCAAGGCACTCTGCGCGTGTGGGAGGCAGCTTCTGGGCAGTGTGTGTACACGCAGGCCACGCCGGGCCCT
GGGCAGGAGCTGACCACTGCACCCTGGCACACACCGCCGGCGTGGTCTCACCGCCACCGCCGACCACAACCTG
TTGCTCTACGAGGCTCGCTCCCTGCGGCTGCAGAAACAGTTTCGCTGGCTACAGTGAGGAGGTTTTGGATGTCCGG
TTTCTTGGGCCCGAGGACTCCACGTTGTCGTGGCCTCCAATAGCCCCCTGCCTAAAAGTGTTTGAGCTGCAGACG
TCAGCCTGCCAGATCCTCCACGGCCACACGGATATCGTCTGGCCCTGGATGTGTTCCGGAAGGGGTGGCTCTTT
GCCAGCTGTGCCAAGGATCAGAGCGTCCGTATCTGGAGAATGAACAAGGCTGGCCAGGTGATGTGCGTGGCTCAG
GGTTCGGGTACACACACAGTGTGGGCACCGTCTGCTGCTCTAGGCTGAAGGAGTCCTTCCCTGGTGACAGGCAGC
CAGGACTGCACTGTGAAGCTGTGGCCTCTTCCCAAAGCCTTGCTGTCCAAGAACACAGCCCCAGACAACGGCCCT
ATCCTCCTGCAGGCCCAGACCACTCAGCGTGCCATGATAAGGACATCAACAGCGTGGCTATTGCCCCAACGAC
AAGCTGCTGGCCACAGGCTCACAGGACCGCACGGCCAAGCTCTGGGCCCTGCCACAGTGCCAGCTGCTGGGTGTC
TTCTCAGGCCACCGCGTGGCCTCTGGTGCGTCCAGTTCTCTCCCATGGACCAGGTGCTGGCCACGGCCTCAGCT
GATGGCACCATCAAGCTCTGGGCACTCCAGGACTTCAGCTGTCTCAAGACATTTGAGGGGCACGATGCTTCTGTG
CTGAAGGTGGCCTTTGTGAGCCGTGGCACGCAGCTGCTGTCCAGCGGTTTCGGATGGCCTCGTGAAGCTCTGGACC
ATCAAGAACAACGAGTGTGTGCGGACGCTGGATGCCCACGAGGACAAGGTCTGGGGGCTGCACTGCAGCCGGCTG
GACGACCACGCCCTCACTGGGGCCAGTGACTCCCGAGTCATCCTCTGGAAGGATGTGACCGAGGCGGAGCAGGCA
GAGGAGCAGGCCAGGCAAGAGGAGCAGGTGGTCAGGCAGCAAGAGCTGGACAACCTGCTGCATGAGAAGCGGTAC
CTGCGGGCGCTGGGCCTGGCCATCTCCCTGGATCGGCCCCACACCGTGTGCTGACTGTCATCCAGGCCATCCGGAGG
GACCCTGAGGCCTGCGAGAAGCTGGAAGCCACCATGCTCCGACTGCGGCGCGACCAGAAAGAGGCCCTGCTGCGC
TTCTGCGTCACTGGAACACCAACTCGCGGCACTGCCACGAGGCCCCAGGCCGTGCTGGGTGTGCTCTTGAGGCGA
GAGGCCCCCGAGGAGCTGCTGGCCTACGAAGGCGTGCGGGCAGCGCTTGAGGCCCTGCTGCCCTACACTGAGCGG
CACTTTTCAAGCGGCTCAGCAGGACCTCCAGGCCGCCGCTTTCTTGGAATTCTGTGGCACAACATGAAGCTCCCT
GTGCCGGCCGCCGCCCCCCACCCCTGGGAAACCCATAAAGGCGCACTGCCCT**TAGC**CGGTCCGGCCTCTCTCCAGT
CCATCCTGAACCCCTGGAAAACCCATAAAGGCCGCTCTCCTGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4385

MAETAAGVGRFKTNYAVERKIEPFYKGGKAQLDQTGQHLCVCGTRVNILEVASGAVLRSLSEQEDQEDITAFDLS
PDNEVLVTASRALLLAQWAWQEGSVTRLWKAIHTAPVATMAFDPTSTLLATGGCDGAVRVWDIVRHYGTHHFRGS
PGVVHLVAFHPDPTRLLLFSSATDAAIRVWSLQDRSCLAVLTAHYSAVTSLAFSADGHTMLSSGRDKICIIWDLQ
SCQATRTVPVFESVEAAVLLPEEPVSQLGVKSPGLYFLTAGDQGTLRVWEAASGQCVYTQAQPPGPGQELTHCTL
AHTAGVVLTAADHNLLEYEARSLRLQKQFAGYSEEVLDVRFLGPEDSHVVVASNSPCLKVFELQTSACQILHGH
TDIVLALDVFRKGWLFASCAKDQSVRIWRMNKAGQVMCVAQSGHSHVGTVCSSRLKESFLVTGSQDCTVKLWP
LPKALLSKNTAPDNGPILLQAQTTQRCHDKDINSVAIAPNDKLLATGSQDRTAKLWALPQCQLLGVSFSGHRRGLW
CVQFSPMDQVLATASADGTIKLWALQDFSLKTFEGHDASVLKVAFVSRGTQLLSSGSDGLVKLWTIKNNECVRT
LDAHEDKVWGLHCSRLDDHALTGASDSRVILWKDVTEAEQAEEQARQEEQVVRQQELDNLHEKRYLRALGLAIS
LDRPHTVLTVIQAIRRDPEACEKLEATMLRLRRDQKEALLRFCVTWNTNSRHCHEAQAVALGVLLRREAPEELLAY
EGVRAALEALLPYTERHFQRLSRTLQAAAFLDLWNNMKLPVAAAAPTPEWETHKGALP

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FIGURE 4386

GGCACGAGGCAAGAGCAAAGGGGGCCAGCACCCCCGCTGCCTCCACGCTGCCCACCGCCAACGGGGCCCCGACCGGC
GCGCTCCGGGACTGCGCTTTCCGGCCCCGACGCGCCGCCAACGGGCCTTGACGCCCGGCCGGCCCTCGCTTGGC
GGCGGTGTGACTTCTACGACGTCGCCTTCAAGGTC**ATG**CTGGTGGGGGACTCGGGTGTGGGGAAGACCTGTCTG
CTGGTGGCATTCAAGGATGGTGTCTTCTGGCGGGGACCTTCATCTCCACCGTAGGCATTGACTTCCGGAACAAA
GTTCTGGACGTGGATGGTGTGAAGGTGAAGCTGCAGATGTGGGACACAGCTGGTCAGGAGCGGTTCCGCAGTGT
ACCCATGCCTACTACCGGGATGCTCATGCTCTGCTGCTCTACGATGTACCAACAAGGCCTCCTTTGACAAC
ATCCAGGCCTGGCTGACCGAGATCCACGAGTACGCCCAGCACGACGTGGCGCTCATGTGCTGGGGAACAAGGTG
GACTCTGCCCATGAGCGTGTGGTGAAGAGGGAGGACGGGGAGAAGCTGGCCAAGGAGTATGGACTGCCCTTCATG
GAGACCAGCGCCAAGACGGGCCTCAACGTGGACTTGGCCTTCACAGCCATAGCAAAGGAGTTGAAGCAGCGCTCC
ATGAAGGCTCCCAGCGAGCCGCGCTTCCGGCTGCATGATTACGTTAAGAGGGAGGGTCGAGGGGCCTCCTGCTGC
CGCCCT**TGA**ACCTGGCTGAGCTCAGTCCTCTGGAGGAAGCCGCCAGTCCCTAGAAGGCTGGACAGAGGGTCTCC
AGGCCCTTCTGACTTTGTTGCCAGTGGCCAACGCCCCGAGTGTCTGTTTTCAGGAGCCCCAGGTCAAGCCTTGTC
CCTTCCTCCTCCCAGCAACAGTCCCAACAAGCAGGCTTCTGAGAGCCCGTGGCCGCACACTGGCCGCCACGGAAA
AGCAGTCTTCTGCACGGGACGGGGAGCGGCAAGTGGACAGACTTTGCCACGGTGCTCTGCTGCCCCCTCCTGGGC
ACGTCCAGGTGAGGGAGGGCTGGGGCTGGCACCACGCACAGTGCCTAACCCTAGAAAAGCCATGTCTTCAGCCGC
ACATGCTCAGGCAGCTAAGGGAGGACGCCTGCCCACGCCTGGGACAGAAGGCTTCACTGCTAATCACATCGTGCA
TCTGTGTGTCCTGGGAGCTGCCTGCTCCCGGCCACCCTCTAGGAGGCTCTGGCTCAAACAGCAATAGGGTCTTC
CTCACTGACCTTGGAGGATGCCTGTGGCCTTGTGATAAAATGTGGGAAATCACAGAAAACACCAGAAACAACAAC
TGCCAGCCCGGCCTGGCCACAGGTGAGGTCTGTGATTTCCGAGCACGCTCCACCTTGCACTCAACTTGGCCTTTT
GATTGCACAAGCCTTTGTTTTCAGTCCTAGTGAATAAAGTTGTGTTTTCTGGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 4387

MLVGDSGVGKTCLLVRFKDGAF¹LAGTFISTVGIDFRNKVLDVDGVKVKLQMWD²TAGQERFRSVTHAYYRDAHAL³L
LLYDVTNKASFDNIQAWLTEIHEYAQHDVALMLLG⁴NKVDSAHERVVKREDGEKLAKEYGLPF⁵METSAKTGLNVDL⁶
AFTAI⁷AKELKQ⁸RS⁹MKAPSEPR¹⁰FLHDYVKREGRGASCCRP

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FIGURE 4388

GGGCGGGAGGTGCTTCCCAAGGACCGTAGATGCCTCTCTAGAGCATGAGCTCAGGCAAGAGTGCCCGCTACAACC
GCTTCTCCGGGGGGGCCAGCAATCTTCCCACCCAGACGTCACCACAGGGACCAGAATGGAAACGACCTTCGGAC
CCGCCTTTTCAGCCGTCACCACCATCACAAAAGCTGACGGGACCAGCACCTACAAGCAGCACTGCAGGACAGCA**AT**
GCCCCCATCAGCACTCCCCGCCGCTCCGACTCCGCCATCTCTGTCCGCTCCCTGCACTCAGAGTCCAGCATGTC
TCTGCGCTCCACATTCTCACTGCCCGAGGAGGAGGAGGAGCCGGAGCCACTGGTGTTTTCGGGAGCAGCCCTCGGT
GAAGCTGTGCTGTCAGCTCTGCTGCAGCGTCTTCAAAGACCCCGTGATCACCACGTGTGGGCACACGTTCTGTAG
GAGATGCGCCTTGAAGTCAGAGAAGTGTCCCGTGGACAACGTCAAACCTGACCGTGGTGGTGAACAACATCGCGGT
GGCCGAGCAGATCGGGGAGCTCTTCATCCACTGCCGGCAGCGGTGCCGGGTAGCGGGCAGCGGGAAGCCCCCAT
CTTTGAGGTGGACCCCCGAGGGTGCCCTTACCATCAAGCTCAGCGCCCGGAAGGACCACGAGGGCAGCTGTGA
CTACAGGCCTGTGCGGTGTCCCAACAACCCAGCTGCCCCCGCTGCTCAGGATGAACCTGGAGGGCCACCTCAA
GGAGTGCAGACATCAAATGCCCCACTCCAAGTACGGGTGCACGTTTCATCGGGAACCAGGACACTTACGAGAC
CCACCTGGAGACTTGCCGCTTCGAGGGCCTGAAGGAGTTTCTGCAGCAGACGGATGACCGCTTCCACGAGATGCA
CGTGGCTCTGGCCCAGAAGGACCAGGAGATCGCCTTCCTGCGCTCCATGCTGGGAAAGCTCTCGGAGAAGATCGA
CCAGCTAGAGAAGAGCCTGGAGCTCAAGTTTGACGTCCTGGACGAAAACCAGAGCAAGCTCAGCGAGGACCTCAT
GGAGTTCGGCGGGACGCATCCATGTTAAATGACGAGCTGTCCACATCAACGCGCGGCTGAACATGGGCATCCT
AGGCTCCTACGACCCTCAGCAGATCTTCAAGTGCAAAGGGACCTTTGTGGGCCACCAGGGCCCTGTGTGGTGTCT
CTGCGTCTACTCCATGGGTGACCTGCTCTTCAGTGGCTCCTCTGACAAGACATCAAGGTGTGGGACACATGTAC
CACCTACAAGTGTGAGAAGACACTGGAGGGCCATGATGGCATCGTGCTGGCTCTCTGCATCCAGGGGTGCAAACT
CTACAGCGGCTCTGCAGACTGCACCATCATTGTGTGGGACATCCAGAACCTGCAGAAGGTGAACACCATCCGGGC
CCATGACAACCCGGTGTGCACGCTGGTCTCCTCACACAACGTGCTCTTCAGCGGCTCCCTGAAGGCCATCAAGGT
CTGGGACATCGTGGGCACTGAGCTGAAGTTGAAGAAGGAGCTCACAGGCCTCAACCACTGGGTGCGGGCCCTGGT
GGCTGCCCAGAGCTACCTGTACAGCGGCTCCTACCAGACAATCAAGATCTGGGACATCCGAACCCCTTGACTGCAT
CCACGTCTCTGCAGACGTCGTTGGGACGCTCTACTCCATTGCTGTGACAAATCACCACATTGTCTGTGGCACCTA
CGAGAACCTCATCCACGTGTGGGACATTGAGTCCAAGGAGCAGGTGCGGACCCTCACGGGCCACGTGGGCACCGT
GTATGCCCTGGCGGTCTCTCGACGCCAGACCAGACCAAAGTCTTCAGTGCATCCTACGACCGGTCCCTCAGGGT
CTGGAGTATGGACAACATGATCTGCACGCAGACCCTGCTGCGTACCAGGGCAGTGTACCCGCGCTGGCTGTGTC
CCGGGGCCGACTCTTCTCAGGGGCTGTGGATAGCACTGTGAAGGTTTGGACTTGCT**TAAC**AGGATCCAGGCCAGGC
TGTGGTTTTCCCTGAACCAGCCCTGGACCTTTCTGAGCCAGGCTGGCCACATGGGGTGGTCTCGGGTTTTCTGCC
TGCCCCGTGGGCATAGGTGGACAGGCTCTGGCAGCCGGGCAGTGCCCTCCCCGTCCCATGCTCGGCAGCCTCCC
TCTACTCGGCACTGTCTTGCTGCCAGCCCTCTCTGGGTGCCAGGTACGACGCTTGCCCCGGCCACCCTCCA
TCCCCACCCTCCATCCCCACCCTAGATGGAGCGAGGGCCTTTTTACTCACCTTTTCTACCGTTTTTAGACTGTAT
GTAGATTTGGTTACCTCCTGGTTGAAATAAATGCTCCACAGACTGTGGCTGTGAGTGGGGACAGCTCCTCGGGAC
AAGGGGGCTGTGTGTGGCCTTGAGGTTGGTGTGCACAGGCACTGGCTGCTGTGAGTGGGGGGGCATGGGGCAGTT
TCCTTTGGTGGACCCCAGGACTTCGGCCCACTCCGGGGCCTCCCTCCCTGCTAGGAGGCAACTCGTCACACCCA
AGCTGCTGGCCTCCAGTCCCATCTCCCCAACACATGTGCCCCAAAAAGTGAGCCAGGCACCTCTGTTTCTGTC
TGTTTATTGACAGCCGACGGCAGCGCCTTGCCCAGACCTCCCTGCCCACCTGCTGGAGCCCAGCCTGTGCCGCC
CTCTGAGGAGAGGCCTGGGGGGACAGCTGGGCACGTCCACTCGCAGGGAAAACACGGGGTGAGACAGCAGGAAGGG
GCCCTGCACGCCGGGACGCCACCTCCGCCAGCCGCTCCACCCGCCCCACACCACAATCGCTGGTTTTTCGGCATT
TTTTAAATTTTTTTTTTAAAGAAACGTCAAAGTTGTGCCAACACTGTGGATCAGCAAACACGATAGAGGAGACCA
GTCAGTACTTCTTGAGGGGGCAGGAGGAGAGAGGAAAAGGGAGGGCGAGAATGACCACACAACACAGCCTTGGA
CCATGAGCAGAAGCGTCCGTGGGAACTCCACTGGGGTGGATGGGCTGCCTGCACAGCCCCTGGAGAGGGGGCCAG
GCACACCCTCAGAGGAGCTGCAAGCCCGTGGCCTGGCCTGCTACATGCCCTGCTTCCACGTGGCTGCCACGCTGA
CACACCCACATTACCAAACCCACCCGCGCCCTGGGACGCAGCCACGCCAGGAGGAGGACACGGCCGCCGAGAGC
AAGGCACAACCTCGAGTTCTTGGGGCGCAGAGAACTTAGGAGAGAAGCACGGAGGAGCCCCCGGCAGAGCACCCG
CCCCCGGGCCCCAGCCTTCCACCTGTGCTAGCAGCCTGGGGCCTCCACTCTGGCCGGAGGAAGGACCGCAGGCAG
ACAGCCTGGGCCTCTAACAGCTTTTGTCCGAGCTAGACTTCGTGTCCTTTCAGTTGGTAAATGGTTTTCTATAG
AATCAATAATATTTCTTTCTTTAAATATATATTTGTTAAAGTTATACCTTTTGTTCCTGGGGAAATCCGCCT
CAGCTCATTCCCAATAAATTAATACTCTTGATAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAA

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FIGURE 4389

MPPISTPRRSDSAISVRSLHSESSMSLRSTFSLPEEEEEPEPLVFAEQPSVKLCCQLCCSVFKDPVITTCGHTFC
RRCALKSEKCPVDNVKLTVVVNNIAVAEQIGELFIHCRHGCRVAGSGKPPIFEVDPRGCPFTIKLSARKDHEGSC
DYRPVRCPNNPSCPPLLRMNLEAHLKECEHIKCPHSKYGCTFIGNQDTYETHLETCTRFEGLEKFLQQTDDRFHEM
HVALAQKDQEIAFLRSMGLKLEKIDQLEKSLELKFDVLDENQSKLSEDLMEFRRDASMLNDELSHINARLNMGI
LGSYDPQQIFKCKGTFVGHQGPVWCLCVYSMGDLLFSGSSDKTIKVWDTCTTYKCQKTLEGHGIVLALCIQGCK
LYSGSADCTIIVWDIQNLQKVNTIRAHDNPVCTLVSSHNVLFSGSLKAIKVWDIVGTELKLLKELTGLNHWVRAL
VAAQSYLYSGSYQTIKIWDIRTLDCTHVLQTSGGSVYSIAVTNNHIVCGTYENLIHVWDIESKEQVRTLTGHVGT
VYALAVISTPDQTKVFSASYDRSLRVWSMDNMICTQTLLRHQGSVTALAVSRGRLEFSGAVDSTVKVWTC

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FIGURE 4390

AGCCCGCGACCTTTATCCCGCGCGTTGCGGTCAAGATGGCGCTGGTGGCTTCTGTTGCGAGTCCGGCGCGCGTTC
TGCTCCGCGCGGGGGCCTCGGCTCCCGGGCGCGGCCCTCGGGCGGACGGAGCGGGCGGCCGGCGGAGACGGCG
CGCGGGCGCTTCGGGAGCCAGCGGGTGCTGGTGGAGCCGGACGCGGGCGCAGGGGTGCTGTGATGAAATTCAAGA
ACCCCCCAGTGAACAGCCTGAGCCTGGAGTTTCTGACGGAGCTGGTCATCAGCCTGGAGAAGCTGGAGAATGACA
AGAGCTTCCGCGGTGTCATTCTGACCTCGGACCGCCCGGGTGTCTTCTCGGCCGGCCTGGACCTGACGGAGATGT
GTGGGAGGAGCCCCGCCCCACTACGCTGGGTACTGGAAGGCCGTTTCAGGAGCTGTGGCTGCGGTTGTACCAGTCCA
ACCTGGTGTGCTGGTCTCCGCCATCAACGGAGCCTGCCCCGCTGGAGGCTGCCTGGTGGCCCTGACCTGTGACTACC
GCATCCTGGCGGACAACCCCAGGTACTGCATAGGACTCAATGAGACCCAGCTGGGCATCATCGCCCCCTTCTGGT
TGAAAGACACCCTGGAGAACACCATCGGGCACC GGCGGGCGGAGCGTGCCCTGCAGCTGGGGCTGCTCTTCCCGC
CGGCGGAGGCCCTGCAGGTGGGCATAGTGGACCAGGTGGTCCCGGAGGAGCAGGTGCAGAGCACTGCGCTGTCAG
CGATAGCCCAGTGGATGGCCATTCCAGACCATGCTCGACAGCTGACCAAGGCCATGATGCGAAAGGCCACGGCCA
GCCGCTGGTACGCAGCGCGATGCGGACGTGCAGAACTTCGTGAGCTTCATCTCCAAAGACTCCATCCAGAAGT
CCCTGCAGATGTACTTAGAGAGGCTCAAAGAAGAAAAAGGCTAACGATTGGGCTGCCACAGGCTTACGGCCACAC
GTGCCCCCTGTGGGTCCAGGGAGGTCTTAAACAAGGTATTTTTCAACTT

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FIGURE 4391

MALVASVRVPARVLLRAGARLPGAALGRTERAAGGGDGARRFGSQRVLVEPDAGAGVAVMKFKNPPVNSLSLEFTL
TELVISLEKLENDKSFRGVILTSDRPGVFSAGLDLTEMCGRSPAHYAGYWKAVQELWLRLYQSNLVLVSAINGAC
PAGGCLVALTCDYRILADNPRYCI GLNETQLGI IAPFWLKD TLENTIGHRAAERALQLGLLFPPAEALQVGIVDQ
VVPEEQVQSTALSAIAQWMAIPDHARQLTKAMMRKATASRLVTQRDADVQNFVSFISKDSIQKSLQMYLERLKEE
KG

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FIGURE 4392

GGCCCGCGGGACTCAGACCAGCGGGGAGCGCGGCCTCCGCCCTTGGGGCCCTCCCGCCGGGCGGAGACCCAAGC
CCCCAACGCCAGGCCCTGCCCTGGAAGCGCTCGCGGCCCGGCGCCTGGACGGGGGAGTTGCTGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGAATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAA
ATAATAAAAAAGTCCAGCACTAGGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAGGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAAACCCGAAAGAGGCGCA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAAGCACTG
GCTCAAGCAGTGGCTCCAGCTCTTCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGGCCATCTCCTAAGCCCAACAAAGTGCACATTGGGA
GACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAAATTAATGATTGACA
TGCCCGTGGAAGGATGCATCCCCATCTGTCAAAGGCTATGCGTACGTAGAGTTTGAGAATCCAGATGAAGCCG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGCCGTGCTGGCCCCCT
GGCCTAGGCCACCCCCAGGAGATTACGCCCTCCAGGAGAATGTTGCCACCACCGCCTATGTGGCGCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCCTCCCGATAAACAGGCCACTGAAGCTCTCGCCCCTGTAACT
TATACCCCAACCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGGAAGACCAGTAGGAAAGCAAACCCTTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCCCGGCTGCAGAAAGTGCTGTTGGTTTGGATG
CTGTGTGCCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCATCCGTTTCCGGTTTTCTAAGAGTCAGTTC
AGTGGCAGAGCCACCAGGGAAAAGTGAGGCTCTTGGGGGTGGTTTGGACCTGCTTACCTGGGAGCACACTTTTCC
CTTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCCTTTTGGAAAGGGAGC
TGCCCCAGGCTTTAGTGACAGCTGCCAACCTGTTAGGCCTGGCCTCTCGAGGCCTCTTCTGACCTCAAGGGTCAC
ACCCCTCAAAGATCCTCTCACCCATGGTAGTTGCTGCTCGTGGTTCTGTCTGTCCGTGCACCGATGCACACACC
GCACCCCAACCACTGTACTCTGAAATTGGCGAGTGAGTGGAGAGCCAGCTCTGCGGAGTCATCACGCAGCCATGGT
TGTGCCTGCCGTTTCATGGTGGTCTTTTCAAGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTG
CTTTCATTGTACAGTCAGTACTATAAAATTTCTCTTTTGAAGTTTTATACCTTTGTAGCATTTTATGATGACATTGT
GTTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCCAAGATCGGAATGCAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 4393

MDLSGVKKKSL LGVKEN NKSS TRAPSP TKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSRSSSSSSSGSPSPSRRRHDNRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVT KDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYAYVEFENPDEAEKALKHMDG
GQIDGQEITATAVLAPWPRPPRRFSPPRMLPPPPMWRRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSRSS
SNSSR

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FIGURE 4394

GAGCGGCGCCGGCCTCGGCGGCTGAGGAAAGCAGGAGGAGGTGGCGGCGGCGGGAAGATGCTGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGAAATGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAA
ATAATAAAAAGTCCAGCACTAGGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGGCTCCAGCTCTTCCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGCACATTGGGA
GACTCACCCGGAATGTGACAAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAATTAAATGATTGACA
TGCCCGTGGAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTTTGAGAATCCAGATGAAGCCG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGCCGCTGCTGGCCCCCT
GGCCTAGGCCACCCCCAGGAGATTGAGCCCTCCCAGGAGAATGTTGCCACCACCGCCTATGTGGCGCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCAGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCCTCCCGATTAACAGGCCACTGAAGCTCTCGCCCCGTGTAAC
TATACCCACCCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGGAAGACCAGTAGGAAAGCAAACCTTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCCCCGGCTGCAGAAAGTGCTGTTGGTTTGGATG
CTGTGTGCCTGTCAAGATTCCCTCCGTTTTCTGGCTAGAAAGCTCATCCGTTTCCGTTTTCTAAGAGTCAGTTC
AGTGGCAGAGCCACCAGGGAAAAGTGAGGCTCTTGGGGGTGGTTTGACCCTGCTTACCTGGGAGCACACTTTTCC
CTTCCCCGATGACCTGGGATGGTGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCTTTTGGAAAGGGAGC
TGCCCCAGGCTTTAGTGACGCTGCCAACCCTGTTAGGCCTGGCCTCTCGAGGCCTCTTCTGACCTCAAGGGTCAC
ACCCCTCAAAGATCCTCTCACCCATGGTAGTTGCTGCTCGTGTTCTGTCTGTCCGTGCACCGATGCACACACC
GCACCCACCACTGTACTCTGAAATTGGCGAGTGAGTGGAGAGCCAGCTCTGCGGAGTCATCACGCAGCCATGGT
TGTGCCTGCCGTTTCATGGTGGTCTTTTCAAGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTG
CTTTCATTGTACAGTCAGTACTATAAAATTTCTCTTTTGAGTTTTTATACCTTTGTAGCATTTTAGATGACATTGT
GTTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCAAGATCGGAATGCAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 4395

MDLSGVKKKSLGKVENNKKSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSRSSSSSSSGSPSPSRRRHDRRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYAYVEFENPDEAEKALKHMDG
GQIDGQEITATAVLAPWPRPPRRFSPPRRMLPPPPMWRRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSS
SNSSR

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FIGURE 4396

GCGAGGTTCTGCGCGGGCGCGGAAGACGGGCGGCGCGTGGCGGAAGGGTTGCGGACGGTACGCACCAGCCACCTT
CGCGCCGAAGGCGGTAGGGCGCCACGGAGAGGAACCGCTCTAGGCACGTAAGGCCTCGTGAGGTTGCGTCGCGCG
CGGAGCACTCTGGGACTTGTTAGTTCTGGAGATGGAGCGAGCTGTGCCGCTCGCGGTGCCTCTGGGTGAGAGGTGT
TCCAGGCCTTGCGAGCGGCTCCATATGACCATCTTCTCCCAGAGCGTCTCACCATGTGGGAAGTTTCTGGCGGCTG
GCAACAATTACGGGCAGATTGCCATCTTCAGCTTGTCTCTGCTTTGAGCTCAGAAGCCAAAGAGGAAAGTAAGA
AGCCGGTGGTGACTTTCCAAGCCCATGATGGGCCCCGTCTATAGCATGGTTTCCACCGATCGACATCTGCTTAGTG
CTGGGGATGGGGAGGTGAAGGCCTGGCTTTGGGCGGAGATGCTCAAGAAGGGCTGTAAGGAGCTGTGGCGTCGTC
AGCCTCCATACAGGACCAGCCTGGAAGTGCCTGAGATCAACGCTTTGCTGCTGGTCCCCAAGGAGAATTCCCTCA
TCCTGGCTGGGGGAGACTGTCTAGTTGCACACTATGGACCTTGAACTGGGACTTTCACGAGGGTCCTCCGGGGCC
ACACAGACTACATCCACTGCCTGGCACTGCGGGAAAGGAGCCCAGAGGTGCTGTCTAGGTGGCGAGGATGGAGCTG
TTGCACTTTGGGACCTGCGCACAGCCAAGGAGGTCCAGACGATCGAGGTCTATAAGCACGAGGAGTGCTCGAGGC
CCCACAATGGGCGCTGGATTGGATGTTTGGCAACTGATTCCGACTGGATGGTCTGTGGAGGGGGCCCAGCCCTCA
CCCTCTGGCACCTCCGATCCTCCACACCCACCACCATCTTCCCCATCCGGGCGCCACAGAAGCACGTCACCTTCT
ACCAGGACCTGATTCTGTCTAGCTGGCCAGGGCCGCTGCGTCAACCAGTGGCAGCTGAGCGGGGAGCTGAAGGCC
AGGTGCCTGGCTCCTCCCCAGGGCTGCTCAGCCTCAGCCTCAACCAGCAGCCTGCCGCGCTGAGTGCAAGGTCC
TGACAGCTGCAGGCAACAGCTGCCGGGTGGATGTCTTCACCAACCTGGGTTACCGAGCCTTCTCCCTGTCCTTCT
GATCTCTGACGACACCCCCAGCCAGCTCAGGGTTTTAGAGTGTTTTTCATTTTCTTTTTTTTTTTTTTACAATAA
AGTTTCAGGCTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4397

MTIFSQSVSPCGKFLAAGNNYGQIAIFSLSSALSSEAKEESKKPVVTFQAHGDPVYSMVSTDRHLLSAGDGEVKA
WLWAEMLLKKGCKELWRRQPPYRTSLEVPEINALLLVPKENSLILAGGDCQLHTMDLETGTFTRVLRGHTDYIHCL
ALRERSPEVLSSGGEDGAVRLWDLRTAKEVQTIEVYKHEECSPHNHGRWIGCLATDSDWMVCGGGPALTLLWHLRSS
TPTTIFPIRAPQKHVTFYQDLILSAGQGRCVNQWQLSGELKAQVPGSSPGLLSLSLNQQPAAPECKVLTAAGNSC
RVDVFTNLGYRAFSLSF

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FIGURE 4398

GCGGCGGGCGCAGACAGCGGCGGGCGCAGGACGTGCACTATGGCTCGGGGCTCGCTGCGCCGGTTGCTGCGGGCTC
CTCGTGCTGGGGCTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGCTCC
CGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCATGGACTGCGCGTCTTGACAGGGCGCGACCGCACAGCGAC
TTCTGCCTGGGCTGCGCTGCAGCACCTCCTGCCCCCTTCCGGCTGCTTTGGCCCATCCTTGGGGGCGCTCTGAGC
CTGACCTTCGTGCTGGGGCTGCTTTCTGGCTTTTTTGGTCTGGAGACGATGCCGCAGGAGAGAGAAGTTCACCACC
CCCATAGAGGAGACCGGCGGAGAGGGCTGCCCAGCTGTGGCGCTGATCCAGTGACAATGTGCCCCCTGCCAGCCG
GGGCTCGCCCACTCATCATTCATTCATCCATTCTAGAGCCAGTCTCTGCCTCCCAGACGCGGCGGGAGCCAAGCT
CCTCCAACCACAAGGGGGGTGGGGGGCGGTGAATCACCTCTGAGGCCTGGGCCCAGGGTTCAGGGGAACCTTCCA
AGGTGTCTGGTTGCCCTGCCTCTGGCTCCAGAACAGAAAGGGAGCCTCACGCTGGCTCACACAAAACAGCTGACA
CTGACTAAGGAACTGCAGCATTTGCACAGGGGAGGGGGGTGCCCTCCTTCCTTAGGACCTGGGGGCCAGGCTGAC
TTGGGGGCGAGACTTGACACTAGGCCCCACTCACTCAGATGTCCTGAAATTCCACCACGGGGGTACCCCTGGGGG
GTTAGGGACCTATTTTTTAACACTAGGGGCTGGCCCCACTAGGAGGGCTGGCCCTAAGATACAGACCCCCCAACTC
CCCAAAGCGGGGAGGAGATATTTATTTTGGGGAGAGTTTGGAGGGGAGGGAGAATTTATTAATAAAAGAATCTTT
AACTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4399

MARGSLRRLRLRLVLGLWLALLRSVAGEQAPGTAPCSRGSWSADLDKCMDCASCRARPHSDFCLGCAAAPPAPF
RLLWPILGGALSLTFVLGLLSGFLVWRRRCRRREKFTTPIEETGGEGCPAVALIQ

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FIGURE 4400

GGCACGAGGATCTCCTTCGCAGTGCAGCTCCTTCAACCTCGCCATGGCCTCTGCCGGAATGCAGATCCTGGGAGT
CGTCCTGACACTGCTGGGCTGGGTGAATGGCCTGGTCTCCTGTGCCCTGCCCATGTGGAAGGTGACCGCTTTCAT
CGGCAACAGCATCGTGGTGGCCAGGTGGTGTGGGAGGGCCTGTGGATGTCCTGCGTGGTGCAGAGCACCGGCCA
GATGCAGTGCAAGGTGTACGACTCACTGCTGGCGCTGCCACAGGACCTGCAGGCTGCACGTGCCCTCTGTGTCAT
CGCCCTCCTTGTGGCCCTGTTTCGGCTTGCTGGTCTACCTTGCTGGGGCCAAGTGTACCACCTGTGTGGAGGAGAA
GGATTCCAAGGCCCGCCTGGTGCTCACCTCTGGGATTGTCTTTGTCTATCTCAGGGGTCTGACGCTAATCCCCGT
GTGCTGGACGGCGCATGCCGTATCCGGGACTTCTATAACCCCTGGTGGCTGAGGCCAAAAGCGGGAGCTGGG
GGCCTCCCTCTACTTGGGCTGGGCGGCCTCAGGCCTTTTGTGTGCTGGGTGGGGGTTGCTGTGCTGCACTTGCCC
CTCGGGGGGGTCCCAGGGCCCCAGCCATTACATGGCCCGCTACTCAACATCTGCCCCTGCCATCTCTCGGGGGCC
CTCTGAGTACCCTACCAAGAATTACGTCTTGACGTGGAGGGGAATGGGGGCTCCGCTGGCGCTAGAGCCATCCAGA
AGTGGCAGTGCCCAACAGCTTTGGGATGGGTTCGTACCTTTTGTCTGCTCCTGCTATTTTCTTTTACTGA
GGATATTTAAAATTCATTTGAAAAGTGAAGCAAGGTGTTGACTCAGACTCTCACTTAGGCTCTGCTGTTTCTCAC
CCTTGGATGATGGAGCCAAAGAGGGGATGCTTTGAGATTCTGGATCTTGACATGCCCATCTTAGAAGCCAGTCAA
GCTATGGAACTAATGCGGAGGCTGCTTGCTGTGCTGGCTTTGCAACAAGACAGACTGTCCCCAAGAGTTCCTGCT
GCTGCTGGGGGCTGGGCTTCCCTAGATGTCACTGGACAGCTGCCCCCATCCTACTCAGGTCTCTGGAGCTCCTC
TCTTACCCCTGGAAAAACAAATGATCTGTTAAACAAAGGACTGCCACCTCCGGAACCTTCTGACCTCTGTTTCTCT
CCGTCTGATAAGACGTCCACCCCCCAGGGCCAGGTCCCAGCTATGTAGACCCCCGCCCCCAGCTCCAACACTGC
ACCCTTCTGCCCTGCCCCCTCGTCTCACCCCTTTACACTCACATTTTATCAAATAAAGCATGTTTTGTTAGT
GCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4401

MASAGMQILGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGWMSCVVQSTGQMCKVYDSLALPQ
DLQAARALCVIALLVALFGLLVYLAGAKCTTCVEEKDSKARLVLTSGIVFVISGVLTLIPVCWTAHAVIRDFYNP
LVAEAQKRELGASLYLGWAASGLLLLGGGLLCCTCPSGGSQGPSHYMARYSTSAPAI SRGPSEYPTKNYV

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FIGURE 4402

CAGGACTCCCGTGAGGGGGAACGGCCCGTGAAACGCGCGCGGAGCTGCTCGCGCCCCGCCAGTCGCCCCAGGGCT
TCCCCACACCCACGGAGTGAAGTCAGCCGCGGCCCTGCCTGGGAGGAACTTACCGTCTACCGGGAAAAGGTGGCCA
GCAGATGTGTCGGGCCTGGTGAGAGGGTGAGGCGAGACGGCCCGATCGCCCAGGGCCCCGGAAGCTGCGGAGGTC
ACCCCCGCGCTGGCCTTAGCTCAGGGACACCCTGGATTACGTGGGAGCCCCCTGCTCCTGCCTCCCCCGTCCCACC
ACTGAAGCTGTTGGGCCAGGCCAGTCAATGCTAGAACGGCCTCCTGCACTGGCCATGCCCATGCCCACGGAGGGCA
CCCCGCCACCTCTGAGTGGCACCCCCATCCCAGTCCCAGCCTACTTCCGCCACGCAGAACCTGGATTCTCCCTCA
AGAGGGCCAGGGGGCTCAGCCGGAGCCTCCACCTCCGCCCCCTGCCAAGGGCAGCATTCCCATCAGCCGCCTCT
TCCCTCCTCGGACCCCAGGCTGGCACCAGCTGCAGCCCCGGCGGGTGTCATTCCGGGGCGAGGCCCTCAGAGACTC
TGCAGAGCCCTGGGTATGACCCAAGCCGGCCAGAGTCCTTCTTCCAGCAGAGCTTCCAGAGGCTCAGCCGCCTGG
GCCATGGCTCCTACGGAGAGGTCTTCAAGGTGCGCTCCAAGGAGGACGGCCGGCTCTATGCGGTAAAGCGTTCCA
TGTCACCATTCGGGGGCCCCAAGGACCGGGCCCGCAAGTTGGCCGAGGTGGGCAGCCACGAGAAGGTGGGGCAGC
ACCCATGCTGCGTGCGGTGGAGCAGGCCTGGGAGGAGGGCGGCATCCTGTACCTGCAGACGGAGCTGTGCGGGC
CCAGCCTGCAGCAACACTGTGAAGCCTGGGGTGCCAGCCTGCCTGAGGCCCAGGTCTGGGGCTACCTGCGGGACA
CGCTGCTTGCCCTGGCCCATCTGCACAGCCAGGGCCTGGTGCACCTTGATGTCAAGCCTGCCAACATCTTCCTGG
GGCCCCGGGGCCGCTGCAAGCTGGGTGACTTCGGACTGCTGGTGGAGCTGGGTACAGCAGGAGCTGGTGAGGTCC
AGGAGGGAGACCCCCGCTACATGGCCCCGAGCTGCTGCAGGGCTCCTATGGGACAGCAGCGGATGTGTTCAGTC
TGGGCCTCACCATCCTGGAAGTGGCATGCAACATGGAGCTGCCCCACGGTGGGGAGGGCTGGCAGCAGCTGCGCC
AGGGCTACCTGCCCCCTGAGTTCACTGCCGGTCTGTCTTCCGAGCTGCGTTCTGTCTTGTCTATGCTGGAGC
CAGACCCCAAGCTGCGGGCCACGGCCGAGGCCCTGCTGGCACTGCCTGTGTTGAGGCAGCCGCGGGCCTGGGGTG
TGCTGTGGTGCATGGCAGCGGAGGCCCTGAGCCGAGGGTGGGCCCTGTGGCAGGCCCTGCTTGCCCTGCTCTGCT
GGCTCTGGCATGGGCTGGCTCACCCCTGCCAGCTGGCTACAGCCCCCTGGGCCCCGCCAGCCACCCCGCCTGACTCAC
CACCCCTGCAGTTTGCTCCTGGACAGCAGCTTCTCCAGCAACTGGGATGACGACAGCCTAGGGCCCTTCACTCTCCC
CTGAGGCTGTCCTGGCCCCGACTGTGGGGAGCACCTCCACCCCCCGGAGCAGGTGCACACCCAGGGATGCCCTGG
ACCTAAGTGACATCAACTCAGAGCCTCCTCGGGGCTCCTTCCCCTCCTTTGAGCCTCGGAACCTCCTCAGCATGT
TTGAGGACACCCTAGACCCAACCTTGAGCCCCAGATTCTGCCTCTGCACTTTTTAACCTTTTATCCTGTGTCTCTCC
CGTCGCCCTTGAAAGCTGGGGCCCCCTCGGGAACCTCCCATGGTCTTCTCTGCCTGGCCGTGTCTAATAAAAAGTAT
TTGAACCTTGAAAAAAAAAAAAAGAAG

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FIGURE 4403

MLERPPALAMPMPTEGTPPPLSGTPIPVPAYFRHAEPGFSLKRPRGLSRSLPPPPPAKGSIPISRLFPPTPGWH
QLQPRRVSFGEASETLQSPGYDPSRPESFFQQSFQRLSRLGHGSYGEVFKVRSKEDGRLYAVKRSMSPFRGPKD
RARKLAEVGSHEKVGQHPCCVRLEQAWEEGGILYLQTELCGPSLQQHCEAWGASLPEAQVWGYLRTLLALAH LH
SQGLVHLDVKPANIFLGPRGRCKLGDFGLLVELGTAGAGEVQEGDPRYMAPELIQGSYGTAAADVFSGLTILEVA
CNMELPHGGEGWQQLRQGYLPPEFTAGLSSELRSVLVMMLEPDPKLRATAEALLALPVL RQPRAWGVLWCMAAEA
LSRGWALWQALLALLCWLWHGLAHPASWLQPLGPPATPPDSPPCSLLLDSSFSSNWDDDSLGP SLSPEAVLARTV
GSTSTPRSRCTPRDALDLSDINSEPPRGSFPSFEPRNLLSMFEDTLDPT

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FIGURE 4404

GGCCACCGCCGCGCCGCGCCGCGCGAGCTGTCCCTGCGGCGCGTCTGCCTTGGCGGAGCCGACCGCAGTGCGCTC
AGGCGTCCGGTGCGTCCCCAGCCTCCGCCCCGCGCGGGGCGACGACTCGCGCGTGCGCAGCGCCGGAGGGGC
GCGGGCTGGGACCCCTAGCCAGCGCGTGCGCCGATCGAGCGCAGGGCGATGGGTGGGCGCCGGGCGCCGGGCGC
CAGGCAGTGATGGGCTTCCCGCGCTGCGGCCCCACTGAGGAGGAGGCTCGGGGACAGCAGGAGCACGGGCTGCC
CGCGCGGTGCGGACCATGGCGTTCTGGCCGGGCGCGCCTGCTGGACTGGGCCAGCTCGCCGCCGCACCTGCAG
TTCAATAAGTTCGTGCTGACCGGGTACCGGCCCGCCAGCAGCGGCTCGGGCTGCCTGCGCAGCCTCTTCTACCTG
CACAACGAAGTGGGCAACATCTACACGCACGGGCTGGCCCTGCTGGGCTTCTTGGTGCTGGTGCCAATGACCATG
CCCTGGGGTCAGCTGGGCAAGGATGGCTGGCTGGGAGGCACACATTGCGTGGCCTGCCTTGACCCCTGCAGGC
TCCGTGCTCTATCACCTCTTTATGTGCCACCAAGGGGGCAGCGCTGTGTACGCCCGGCTCCTCGCCCTGGACATG
TGTGGGGTCTGCCTTGTC AACACCCTTGGGGCCCTGCCCATCATCCACTGCACCCTGGCCTGCAGGCCCTGGCTG
CGCCCGGCTGCCCTGGTGGGCTACACTGTGTTGTGCGGTGTGGCCGGCTGGCGTGCTCTACCGCCCCCTCCACC
AGTGCTCGGCTCCGGGCATTGGATGGCAGGCTGCTGCCCGCTACTGGTATTTGGGGCCCGGGGAGTGGGTCTG
GGTTCAGGGGCTCCAGGCTCCCTGCCCTGCTACCTGCGCATGGACGCACTGGCGTGCTTGGGGGACTGGTAAAT
GTAGCCCGTCTGCCCGAGCGCTGGGGACCTGGCCGCTTTGACTACTGGGGCAACTCCCACCAGATCATGCACCTG
CTGAGCGTGGGCTCCATCCTGCAGCTGCACGCCGGCGTGTGCCCCGACCTGCTCTGGGCTGCCACCACGCTGT
CCCCGGGACTTGAGCTGCCATGCCAGCCTGCCACAGCAGCCTCCTAGAGTTAGCAACACCAGGTGTTCCCTCCCAA
CTCGTCTGCAAGGGGCTGGCTCCTTGGATGCTTCCAGCTCATGAGATGTCTCAGCAGGAGCCCTGTTACCCGTT
CTTCCCTGTGGACTGACCTCTTCCACCCACGCCGTGGCGCTCCAACCTCCTTCCCTGCCTTTTCCCTCCAAGCTC
CTATTTTACTGTGTGCTGAGCTGGAAGGAAACCTTTCCCTCTTGGGACCTCTTACCCTCTGTGACCTGTGGGGTTAG
ACCAGAGAGGGACTCTGGGGTCACGTCTTGCTCTGAGAGTTCAAGTCTGCCAGGCCGCCAGCCAGAGCCTCCT
CACCTATCCTGTTCCCTCCCACCAGGCCTGTGGCCAGTCTTCCCTGATCTCCATCTTCTGCCCTGCATACCAGCC
CTCCAGCAGCCACAAGCTTGCCCGCCCTGGCTCCCTCTGCCAGAGACTATGGAGTAAGGCATTACAGGACAAAA
GGACCAAGGGGGCGTGGACCCGTCTTGTACCAGCTGGCCACAGGCACAAGGGCTGCAGCTGCTTCTTCCAGGAAA
CTGACACAGGGAGCTCAGCGCCTCAGATCCTGGGACCCCTGGGCCGTGCCTGCCCTCCACCTTGAGTGCCATAC
TCCCAACAGCTCCAGGTACCCACCGGGGATGTGCCTGCTCAGGAAACCTCTTTGCTCCACACAGCATGGGGCTT
CAGCTGCTGGCCCAAGGCCAGGAGCGCTGGGTCTGCAGCAGGGCTCAGCCTCAGGGGCGTTAAGACCCTGGATG
ACATCAATAAAGGGACAGGAAGGGCCATGTTGCCACATGAGCAAGCTTGGGTGCTCCCAAGGTTCAATACTTTT
TATTAGACACGGCCAGGCAGAGAAGACCATGGGAGTTCCCGAGGGGCCCCAGCTTTCAAGGGCGACGGGAGAGAC
ACAGGATAAAAGGTTAAAAGTGCAGAGGCAGAGTCTGGGGCTCAGGTTGGGTCTAGGGTGTCTCAAACAGGCTG
AGGAGGTTCCGAGGCTCAAAGGAGGGGAAGGAGCCCCGAGGAGGCTCTGAGTTGATGTCACTTAGGTCCAGGGCA
TCCCTGGGAGGAGAGAGTAGTGACACTCAGGATCCAAAAGCTAGCCCTGCCACCCCAGCCCCCTGGACCTGCTTA
CCTGGGTGTGCACCTGCTCCGGGGGGTGGAGGTGCTCCCCACAGTCCGGGCCAGGACAGCCTCAGGGGAGAGTGA
AGGCCTGCAGGAGGGCAGGCGAGACAAGGAGGGTGTCCAGGGCTAGGGAGTGCCGGATGAAACCAGCTCTGTCCC
TGTGCAGGCTCCAGGCTCCCGCCTGACAAACAGGCAGGGAGCCACAGTCAGGGACAATAAAAACTTGGTGCACTC
TGAAAGCAGCACTTGACAGCCTTCAAAGTCTTCCATCTGGCTGCACTCCAAGGCCCTCTGTCTTTTTCAGA
ACACATGGACTTGAGGCAGATTTGAAATAAACTTTTAGTAAATGT

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FIGURE 4405

MAFLAGPRLLDWASSPPHLQFNKFVLTGYRPASSGSGCLRSIFYLHNELGNIYTHGLALLGFLVLVPMTMPWGQL
GKDGWLGGTHCVACLAPPAGSVLYHLMCHQGGSAVYARLLALDMCGVCLVNTLGALPIIHCTLACRPWLRPAAL
VGYTIVLSGVAGWRALTAPSTSARLRAFGWQAAARLLVFGARGVGLGSGAPGSLPCYL RMDALALLGGLVNVARLP
ERWGPGRFDYWGNSHQIMHLLSVGSILQLHAGVVPDLLWAAHHACPRD

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FIGURE 4406

GGGAGACTGTCAGAGGACAACGCCCCCTAGGTCTCCTGGGAGACCCCGAAGCGACCCCGGGGGCAGCCCGGGCCG
TGTCCGGGCGAGGGTGACCTATCCTTGGTTGAGAGCGATGGGGACACAAGCCCTGCAGGGCTTCCTCTTTCTCCT
CTTCCTCCCGCTGCTGCAGCCGCGTGGGGCCTCGGCTGGGAGCCTGCACAGTCCAGGCCTGTCCGAATGCTTCCA
GGTGAATGGGGCTGACTACCGCGGCCACCAGAACCGCACTGGCCCCGCGGGGGCGGGCCGCCGTGCCTCTTCTG
GGACCAGACGCAGCAACACAGCTACAGCAGCGCCAGCGACCCCCACGGCCGCTGGGGGCTGGGCGCGCACAACTT
CTGCCGTAACCCAGACGGTGACGTGCAGCCGTGGTGTACGTGGCTGAGACAGAGGAGGGCATCTACTGGCGCTA
CTGCGACATCCCCTCCTGTACATGCCAGGCTACCTGGGATGCTTTGTGGACTCAGGGGCACCCCAGCCCTCAG
CGGCCCCAGCGGCACCTCCACGAAGCTCACGGTCCAGGTGTGCCTACGCTTCTGCCGCATGAAGGGGTACCAGCT
GGCGGGCGTGGAGGCCGTTACGCCTGCTTCTGTGGCTCTGAAAGCGACCTGGCCCCGGGACGCCTGGCCCCCGC
CACCGACTGTGACCAGATCTGTTTCGGCCACCCTGGACAGCTGTGTGGCGCGATGGGCGGCTGGGCGTCTATGA
AGTGTGCGTGGGCTCCTGCCAGGGGAACGGACAGCGCCTCAGGGCGTCATCTACTCCCCGGACTTCCCGGACGA
GTACGGGCCGGACCGGAACCTGCAGCTGGGCCCTGGGCCCGCCAGGCGCCGCGCTGGAGCTCACCCTCCGCCTCTT
CGAGCTGGCCGACCCGCGCGACCGGCTGGAGCTGCGCGACGCGGCTTCGGGCAGCCTGCTCCGCGCCTTCGATGG
CGCCCGCCACCGCCGTCCGGGCCGCTGCGCCTGGGCACTGCCGCGCTGCTGCTCACCTTCCGAAGCGACGCGCG
CGGCCACGCGCAAGGCTTCGCGCTCACCTACCGCGGGCTGCAGGACGCCGCTGAGGACCCAGAGGCCCCCGAGGG
CTCGGCCAGACCCCGCGGGCGCCCTCGACGGGGCCAACGTGAGCTGCAGCCCCAGGCCTGGGGCTCCGCCGGC
CGCGATTGGGGGAGCTGTCTGCTGGCTCCGGGAAAAGGGCCCCCGGCGCTGGGGGCTTCAGGGGCCCGAGGAGA
AGCTGGGCTGTGTGGTACCAACAGCCCCGAGGGGTGGCCTTGCCCTGCTCCCCCGGGGACCCCAAGGCTGAGGGT
TCTGCCGCGGGCTACCGGCCTCTTGAGTGCCTCCAGCCAGAGCTCCCTGCGCTCGCTCATCTCCGCTCTCTGACTC
TGGGCCCCGAGGGTCCGCTGGGCCCCGCCCGGCGAGATGGACACCTGAGATGCTGTGCTGCGCCCTGCCTCGGC
CTTGCGCCTGTGTAGGGGCAGCTCGGCCTCTGGTTCGCCTTGGGGAGACCAAAAGTCGGACAGGAAACATCTGGTG
CTATTATCTGGGACTTGGCCTGACCGTGGGGGTCCAGATGGTCCAGGCCCTCTCCATGGACCTGTATGTGGGGGT
GGTCTCTGGTTTCGGAGGTCTTTGAACCCCTCTGGGGGTGGTCTTGACTGCCGTCCCTCAGTGAGAGGTACAGG
TCAGCAAAAACAGTCAAAAACCCCCACAGATTTTGAATAAAGGATCTACTTTGGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 4407

MGTQALQGFLFLLFLPLLQPRGASAGSLHSPGLSECFQVNGADYRGHQNR TGPRGAGRPCLFWDQTQQHSYSSAS
DPHGRWGLGAHNFCRNP DGDVQFWCYVAETE EGIYWRYCDIP SCHMPGYLGCFVDSGAPPALSGP SGTSTKLT VQ
VCLRF CRMKG YQLAGVEAGYACFCGSESDLARGRLAPATDCDQICFGHPGQLCGGDGRLGVYEVS VGSCQGNWTA
PQGV IYSPDFPDEYGPDRNCSWALGPPGALELTFRLFELADPRDRLELRDAASGSLLRAFDGARPPPSGFLRLG
TAALLLTFRSDARGHAQGFALTYRGLQDAAEDPEAPEGSAQT PAAPLDGANVSCSPRPGAPPAAIGGAVCWLREK
GPRRWGLPGAPGEAGLCGTNSPEGWPCPAPPGT PRLRVLP RATGL

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FIGURE 4408

GCTGGGAGTAGAGGGCAGAGCTCCACCCCGCCCCGCCCCAGGGGGCGCCCCGGGCCCGGCGCGAGAGGAGGCA
GAGGGGGCGTCAGGCCGCGGGAGAGGAGGCCATGGGCGCGCGGGGGCGCTGCTGCTGGCGCTGCTGCTGGCTCG
GGCTGGACTCAGGAAGCCGGAGTCGCAGGAGGCGGCGCCGTTATCAGGACCATGCGGCCGACGGGTCATCACGTC
GCGCATCGTGGGTGGAGAGGACGCCGAACCTCGGGCGTTGGCCGTGGCAGGGGAGCCTGCGCCTGTGGGATTCCCA
CGTATGCGGAGTGAGCCTGCTCAGCCACCGCTGGGCACTCACGGCGGCGCACTGCTTTGAAACCTATAGTGACCT
TAGTGATCCCTCCGGGTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCCTTCTGGAGCCTGCAGGCCTA
CTACACCCGTTACTTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACCCTATGACATTGCCTT
GGTGAAGCTGTCTGCACCTGTCACCTACACTAAACACATCCAGCCCATCTGTCTCCAGGCCTCCACATTTGAGTT
TGAGAACCGGACAGACTGCTGGGTGACTGGCTGGGGGTACATCAAAGAGGATGAGGCACTGCCATCTCCCCACAC
CCTCCAGGAAGTTTCAGGTCGCCATCATAAACAACTCTATGTGCAACCACCTCTTCCTCAAGTACAGTTTCCGCAA
GGACATCTTTGGAGACATGGTTTGTGCTGGCAATGCCAAGGCGGGAAGGATGCCTGCTTCGGTGACTCAGGTGG
ACCTTTGGCCTGTAACAAGAATGGACTGTGGTATCAGATTGGAGTCGTGAGCTGGGGAGTGGGCTGTGGTCCGCC
CAATCGGCCCGGTGTCTACACCAATATCAGCCACCACTTTGAGTGGATCCAGAAGCTGATGGCCCAGAGTGGCAT
GTCCCAGCCAGACCCCTCCTGGCCGCTACTCTTTTCCCTCTTCTCTGGGCTCTCCCACTCCTGGGGCCGGTCTTC
AGCCTACCTGAGCCCATGCAGCCTGGGGCCACTGCCAAGTCAGGCCCTGGTTCTCTTCTGTCTTGTTTGGAATA
AACACATTCCAGTTGATGCCTTGCAGGGCATTCTTCAAAA

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FIGURE 4409

MGARGALLLALLLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEDAELGRWPWQGSRLWDSHVCGVSLLSHR
WALTAAHCFETYSDLSDPSGWMVQFGQLTSMPSFWSLQAYYTRYFVSNIYLSPRYLGNSPYDIALVKLSAPVTTYT
KHIQPICLQASTFEFENRTDCWVTGWGYIKEDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDIFGDMVCAG
NAQGGKDACFGDSGGPLACNKNGLWYQIGVVSWSGVGCGRPNRPGVYTNISHHFEWIQKLMAQSGMSQPDPSWPLL
FFPLLWALPLLGPV

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FIGURE 4410A

GCAGCGCGGCCAGGCGGGGTGCGAGTGGCGCAGTTGGAGCCCGTTGCGGCCCTGAGGAAGCGAGGAGGCGTCG
GCGTCGGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGGCGGCCAGGCCGAGGGACTCGGGAGCTCGAGCAGC
GGCGGCGGCAAGACCTCTCCCCCTCGGAGGCGGGCGGAGGCGGGAGCGGTGGTCCCCCCCCGGGCACG
GGGCCATGTACAACGGGATCGGGCTGCCGACGCCCCGGGGCAGCGGCACCAACGGCTACGTCCAGCGCAACCTGT
CCCTGGTGCGGGGCCGCCGGGTGAGCGGCCTGACTACAAGGGAGAGGAGGAACTGCGGGCGCCTGGAGGCTGCC
TGGTGAAGCGGCCTAATCCTGACATCCTGGACCACGAGCGCAAGCGGCGCGTCGAGCTGCGATGCCTCGAGCTGG
AGGAGATGATGGAAGAGCAGGGGTACGAGGAACAGCAAATTCAGGAAAAAGTGGCGACCTTTCGACTCATGTTGC
TGGAGAAGGATGTGAACCTTGGGGCAAGGAGGAGACCCAGGGCAGAGGCCAGCGGTACGAGACTCACCAGT
TGGCAGAATTAATGAGAAGAAGAATGAAAGACTCCGTGCTGCCTTTGGCATCAGTGATTCTTACGTAGATGGCA
GCTCTTTTGATCCTCAGCGTCGTGCCCGAGAAGCTAAACAACCAGCTCCTGAGCCTCCCAAACCTTACAGCCTTG
TTCCGGGAGTCTAGCAGTTCTCGCTCACCAACCCCAAGCAGAAGAAGAAGAAAAAGAAAGATAGAGGACGCA
GGTCAGAGAGCAGCTCTCCTCGACGGGAGAGAAAAGAAAGCTCAAAGAAGAAGAAGCACAGGTCAGAATCTGAGT
CCAAGAAACGTAAGCATAGGTCTCCCACTCCAAAAGACAAACGTAATCTAAGGACAAAAAGCGAAAGCGGTCTC
GAAGTACAACACCAGCCCCAAGAGCCGCCGGGGCCACCCTTCAACTTCTGCTGACTCTGCTTCTCTCCCGATA
CTTCCCGCAGTCGGTCTCGAAGTGCTGCAGCTAAAACTCATACAACCTGCCTTGGCTGGGCGAAGTCTTCCCTG
CTTCAGGGCGACGCGGGGAGGGAGATGCGCCTTTCAGTGAACCAGGTACTACCAGCACACAACGGCCTAGTAGCC
CGGAGACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACTC
GACCTAGCCCCCTCTCCGAAAGGAGCAGCACAGGCCCAGAACCACCTGCTCCCACTCCGCTCCTTGCTGAGCGAC
ATGGCGGCTCCCCACAACCCCTTGCAACCACCCCTTAAGCCAGGAGCCAGTGAACCCCCCATCTGAGGCCTCTC
CAACTCGGGACCGTTTACCACCTAAGTCTCCCGAGAACTTCCCCAGTCTTCTTCTCCTCAGAGAGCAGCCCACCAT
CCCCTCAACCTACCAAAGTTTCTCGGCATGCCAGTCTTCCCCAGAAAGTCTTAAACCTGCTCCAGCTCCAGGGT
CCCACCGAGAGATTTCTTCTTCTCCACATCTAAGAATCGCTCACATGGCCGAGCAAAACGGGATAAATCACATT
CTCATACCCCTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCGCTAAGAGAGGGCGATCTCGGTCTCGAA
CCCCTACCAAGAGAGGTATTCTCGATCCCGATCTCCCCAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGGAA
GATCTAGAAGCCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGCTGGTCTAGGAGCAGAAATACCC
AGAGAAGAGGCAGGTCTAGGTCTAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCCAGCCACTAGGGGTAGATCTC
GTTCTAGAACACCAGCCCGCCGGGGCAGGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAACTC
CCACCAGGCGTAGGTCTCGGTCTAGAACACCAGCCCGGAGGGGAGGTCTCGGTCTAGAACACCTGCTAGGCGCA
GATCTAGGACCCGATCACCAGTACGACGCGAGGTCTCGTAGTAGATCACCAGCCAGGAGAAGTGGCAGGTACGCT
CTAGAACCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCAGCCAGACGTGGCCGCTCACGCTCTAGAACCC
CAGCTAGACGCAGTGGTCTGCTCACGCTCCAGAACACCAGCCAGGAGAGGGAGGTCTCGGTCTAGGACACCAAGAC
GAGGAAGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGAT
CTGGCTCATCTTCAGAGCGGAAAAACAATCCAGAACATCTCAAAGAAGAAGCAGGTCCAATTCAAGCCCAGAAA
TGAAGAAATCTCGCATTTCTTCAAGGCGGAGCAGGTCTCTCTCTTACCACGGTCCAAAGCAAATCTCGCTTGT
CTTTGAGGCGCAGCCTTTTCAAGGTCTTCCCCATGCCCTAAACAAAAGTCACAGACACCACCCAGGCGCAGTCGCT
CTGGATCCTCCCAACCTAAAGCTAAATCTAGAACGCCACCCAGACGCGAGTCGCTCCAGTTCTTCTCCGCCACCTA
AACAGAAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTTCTCTCTCATCTCTAAAGTGAATCTGGAACAC
CACCGAGGCAAGGGTCCATAACAAGTCCCCAGGCCAATGAGCAATCTGTAACGCCACAGAGACGGAGCTGTTTTG
AATCATCACCTGACCCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCTCTCTCTCTAGAG
TGAAATCTAGCACACCTCCAGACAGAGCCCATCTAGGTCTCATCTCCACAACCCAAAGTGAAGGCAATAATAT
CACCAAGACAAAGAAGCCATTCTGGCTCCTCTTCTCAAGTCTTAGTAGGGTGACGTCGAGAACAACCTCCACGGC
GAAGCAGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCTCTCT
CACCAGATACCAAAGTGAAACCTGAAACACCGCCAAGACAAAGTCACTCAGGGTCTATTTACCATAACCCAAAG
TAAAGGCCCAAACCTCACCGGGGCCAAGTCTTCTGGATCAAAGTCACCATGTCCCCAAGAGAAGTCTAAAGACT
CACTAGTTCAAAGTTGCCCTGGATCCCTCTCTCTCTGTGCAGGAGTAAAATCTAGCACACCACCAGGCGAGAGCT
ATTTTGGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACCTTACCAGACCACAGATCTGATACTTCAAGTC
CAGAAGTGAGACAGAGTCATTGAGATCACCATCTCTGCAGAGCAAATCTCAAACATCACCTAAGGGAGGTGGT
CCAGGTCTTCTATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCGA

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FIGURE 4410B

GTCCTATGTTGAAATCTGGAATGTCTCCTGAGCAGAGCAGGTTCCAGTCTGACTCTTCTTCATATCCTACAGTGG
ACTCGAATTCTCTCTTGGGGCAGAGTAGATTGGAGACTGCTGAATCAAAAGAGAAAATGGCCTTACCCCCCTCAGG
AGGATGCTACTGCATCACCTCCTAGACAGAAAGACAAATTTAGTCCCTTTCCAGTACAGGATAGGCCTGAGTCTT
CACTGGTATTCAAAGACACACTTAGAACCCCGCCAAGGGAAAAGAAGTGGTGCTGGGTCACTCTCCAGAAAACAAAG
AGCAAAATAGTGCATTGCCTACGTCAAGCCAAGATGAAGAGTTAATGGAGGTGGTAGAGAAGTCTGAAGAACCCG
CAGGCCAAATCCTGTCTCATTGTCTTTCAGAACTTAAAGAAATGTCCACAAGTAACCTTTGAATCATCTCCTGAAG
TAGAAGAAAGGCCTGCTGTGTCTTTGACTCTTGATCAGAGCCAGTCACAGGCTTCTTTGGAAGCAGTAGAAGTCC
CTTCAATGGCCTCATCTTGGGGTGGGCCACATTTTCTCCAGAACATAAAGAAGTGTCTAACTCCCCACTCAGGG
AGAACAGCTTTGGATCACCTTTAGAATTTAGAACTCAGGCCCACTTGGTACAGAAATGAATACTGGATTTTCTT
CTGAGGTTAAAGAAGATTTGAATGGACCGTTTCTTAATCAGCTGGAAACAGATCCATCTCTAGACATGAAAGAAC
AATCGACAAGATCCTCTGGACACAGCAGTTCTGAGTTATCCCCAGATGCAGTGGAAAAGGCAGGGATGTCTTCAA
ATCAGAGCATCTCTTACCTGTGCTTGATGCTGTACCCAGAACACCCCTCGAGAGAAAGAAGTAGTTCTGCATCTT
CTCCTGAAATGAAAGATGGTTTACCCAGAACTCCATCAAGGAGAAGCAGGTCTGGGTCTTCTCCAGGACTTAGAG
ATGGGTCTGGGACTCCCTCGAGGCACAGCCTGTCTGGGTCTCTCCTGGAATGAAAGATATACCTAGAACGCCAT
CTAGAGGGGAGAAGCGAATGTGATTCTTCCCCAGAACCGAAAGCTTTGCCTCAGACTCCTAGGCCGAGGAGTCTGT
CTCCATCATCCCCAGAGCTCAACAACAAGTGTCTTACCCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTTG
ATCAGAAAACGTGTGGCTCGGACTCCCCTGGGGCAGAGAAAGTCGTTCCGGATCCTCTCAAGAACTTGATGTGAAAC
CCAGTGCATCCCCCTCAGGAAAGAAGTGAGTCAGACTCTTCTCCAGATTCTAAAGCCAAGACAAGAACCCCACTTC
GGCAGAGGAGTCTGGTCTGGATCATCTCCAGAGGTTGACAGCAAATCTCGACTATCCCTCGGCGCAGTAGGTCTG
GTTCTCTCCCTGAAAGTAAAGATAAGCCAAGAGCAGCACCCAGGGCACAGAGTGGTTCTGATTCTCTCTCTGAAC
CTAAAGCTCCAGCCCCCTCGGGCCCTTCCCAGACGAAGCAGATCAGGTTTATCAAGCAAAGGCAGAGGCCCTTCTC
CTGAAGGAAGCAGCAGTACCGAGTCTCTCTCTGAACATCCGCCCAAATCCAGAACTGCTCGCAGAGGTTCCAGGT
CATCACCAGAGCCCAAGACCAAGTCTCGTACACCACCTCGACGTCGCAGCTCTCGATCATCTCCGGAGCTAACAA
GGAAGGCCAGACTGTCCCGTAGAAGCCGCTCTGCCTCATCTCACCAGAACTCGCTCTAGAACTCCCCCAAGGC
ACCGGAGAAGTCCCTCAGTGTCTTCCCCGGAGCCAGCCGAAAATCGAGGTCTTACGCCGACGGCGCTCAGCTT
CATCTCCACGCACTAAGACAACCTCAAGGAGAGGCCGCTCTCTTTCGCCAAAGCCTCGTGGACTCCAGAGGTCCC
GTTCCCGCTCAAGGAGAGAGAAAACAAGAACAACCCGACGTCGAGATAGGTCTGGATCTTCTCAGTCAACCTCTC
GGCGAAGACAGCGGAGCCGGTCAAGGTTCGCGGGTACTCGGCGGGGAGGGGAGGCTCTGGTTATCACTCAAGGT
CACCTGCCCCGGCAGGAAAGTTCCCGGACCTCTCTCGACGCCGAAGAGGCCGCTCTCGGACACCCCCAACCAGTC
GGAAGCGTTCTCGCTCACGCACATCACCAGCCCCGTGGAAACGCTCTAGATCTCGAGCCTCTCCAGCCACTCACC
GGCGATCCAGGTCCAGAACCCCCCTGATAAGCCGACGTAGGTCCAGATCTCGAACTTCACCAGTCAGCCGGAGAC
GGTCAAGGTCCAGGACTTCAGTGACTCGACGAAGATCCCGGTCAAGAGCATCCCCAGTGAGCAGAAGGCGATCCA
GATCCAGAACGCCACCAGTAACCCGCCGCTCGTTCAAGGTCTAGAACGCCAACAACACGCCGCCGCTCCCGTTCTA
GAACTCCACCAGTGAATCGCAGAAGGTCCAGATCCAGGACTCCACCAGTAACCAGGAGGCGATCTCGAAGCAGAA
CTTCGCCTATCACTCGCAGAAGATCAAGATCCAGAACATCTCCGGTCACCCGAAGGAGATCTCGATCTCGCACAT
CTCCAGTAACCTCGAAGAAGGTCCCGCTCTCGAACCTCACCAGTGACACGCCGCCGCTCTAGGTCCCGGACACCTC
CAGCACAGGATCAGCCGAGGTCTCCTGTGCCTTTCTGCTTTTTTCAGACCAATCCCGTTGTTTGATTGCCCAGACCA
CCCCCTGTAGCAGGGTCTCAGTCCCTTTTCTCTGGGGCAGTGGCAACGACCACGTCTCTGCTGGTGATCACAATG
GCATGCTCTCTGTCCCTGCCCCCTGGGGTGGCCCACTCTGATGTGGGGAGCCACCTGCCTCTACTGGGGCCCAGC
AGCCTTCTGCATTAGCCGCCCTGCAGCCAGCAAAGGAGCGGCGGAGTTCTCTCTCGTCGTCGTCCTCTAGCT
CCTCTCTCTCTTTCATCATCTCGTCGTCGTCCTCTCTCTCTCTCTGCTCCAGTTCTAGTGAATCAGAGGGCTCTA
GCCTTCTCTGTGCAACCTGAGGTGGCACTGAAGAGGGTCCCAGCCCCACCCAGCCCCAAAGGAGGCTGTTTCGAG
AGGGACGTCTCTCGGAGCCAACCCAGCCAAACGGAAGAGGCGCTCTAGCAGTTCCAGTTCCAGTCTCTCTCTT
CATCTTCT
CCT
AGCCACCCCTTGCGAGCGGAGGTCCCGCAGCCCCCGGAAGCCAATAGACTCCCTCAGGGACTCTCGGTCCCTCA
GCTACTCGCTGTGGAGCGTCGCCGTCCCTCGCCCCAGCCCTCACCACGGGACCAGCAGAGCAGCAGTGAAGC
GGGGTTCCCGGAGAGGCCAGCGTGGGGACAGCCGCTCCCCAGCCACAAGCGCAGGAGGGAGACACCTAGCCCTC

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FIGURE 4410C

GGCCCATGAGACACCGCTCCTCCAGGTCTCCATAAATTGTCTTTGGGGGATTCCACCACACCCAATGCTCTGGAG
CCACAAGGAGTGTCCCTTCTTCCCCAGCAGAGCCGTGGGAGGGTCCTTGTCTGCTCTCCTTTGAACCTTGGCAGC
CCTTGGATGGAGGGCTCCCTTTCCCTCCCTTTTTTTTTTTCTTTGTTCTGTGAAATGTTAATCTCCGTGAGTTC
TTCCTGGTTCATGTGTTCTGGGGGGTTTGGGGTGGGAGGGAATGCAGATGGGAGTTGGGGGAGGGGAGGATACAG
TTCAGGATACCCAGCCTGGAGTCAGGGCCAGGGAGGCATGGCCCCACTTGTATCCAGAAGTCCCAGGGGTGAT
TGTGATGGTGGTTGGGACTGGAGGTTGTATAAGGTGTTCTTGGAAGGAAGGGGCAGGAGTTGGAATTAGTTGGTC
CCTACTGTCCCCCATGAGGTTGTGAACCCCTCCCCCAACTTTTCATGTTTCTTAAAGGCATTTTGGTTTTTTAA
AATCTGTACAGCAAGAGCAACTTTTTCTGTCAAATAAAAATGAGAAATGCAGG

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FIGURE 4411

ATGCTGCCGGCGGGCTGCTCGCGCCGGTGAGGCCTGCGCGGCAGGAGGGGGTGGGAGGATGCGGGCGGGCCGGTA
GCCAGGCGCGGGGCCCCGAGGCCCGACGCTGGCCGAGGTGCTGAGCCGCGGTGCGTCCCCCAGGCTGGTGGCCGA
GCTGCAGGGCGCCCTGGACGCCTGCGCACAGCGACAATTGCAATTGGAGCAGAGCCTGCGCGTTTGCCGTCGGCT
GCTGCATGCCTGGGAACCAACTGGGACCCGGGCTTTGAAGCCACCTCCAGGGCCAGAACTAATGGAGAGGACCC
CCTTCCAGCATGCACACCCAGTCCACAAGACCTCAAAGAGTTGGAGTTTCTGACCCAGGCACTGGAGAAGGCTGT
ACGAGTTTGAAGAGGCATCACTAAGGCCGGAGAGAGAGACAAGGCCCCAGCCTGAAATCTAGGTCCATTGTCAC
CTCTTCTGGCACGACAGCCTCCGCCCCACCGCATTCCCCAGGCCAAGCTGGTGGCCATGCTTCAGACACGAGACC
CACCAAGGGCCTCCGCCAGACCACGGTGCCTGCCAAGGGCCACCTTGAGCGCCGGCTGCTGTGAGTGGGGGATGG
GACCCGTGTTGGG**ATG**GGAGCCCGAACCCCCAGGCCTGGGGCGGGCCTCAGGGACCAGCAAATGGCCCCATCCGC
TGCTCCTCAGGCCCCAGAAGCCTTCACACTCAAGGAGAAGGGGCACCTGCTGCGGCTGCCTGCGGCATTAGGAA
AGCAGCTTCCCAGAACTCGAGCCTGTGGGCCAGCTCAGTTCCACACAGACCAGTGATTCCACGGATGCCGCCGC
TGCCAAAACCCAGTTCTCTCCAGAACATGCAGACAGCTTCAGGCGGGCCCCAGCCAGGCTCAGTGCTGTGGAGGT
GGAGGCGGAGGCGGGGCGCCTGCGGAAGGCCTGCTCGCTGCTGAGACTGCGCATGAGGGAGGAGCTCTCAGCAGC
CCCCATGGACTGGATGCAGGAGTACCGCTGCCTGCTCACGCTGGAGGGGCTGCAGGCCATGGTGGGCCAGTGTCT
GCACAGGCTGCAGGAGCTGCGTGCAGCGGTGGCGGAACAGCCACCAAGACCATGTCCTGTGGGGAGGCCCCCGG
AGCCTCGCCGTCTGTGGGGGTAGAGCGGAGCCTGCATGGAGCCCCCAGCTGCTTGTCTACTCCAGCACCCAGGA
GCTGCAGACCCTGGCGGCCCTCAAGCTGCGAGTGGCTGTGCTGGACCAGCAGATCCACTTGAAAAGGTCCTGAT
GGCTGAACCTCTCCCCCTGGTAAGCGCTGCACAGCCGAGGGGCCGCCCTGGCTGGCCCTGTGCCGGGCTGTGCA
CAGCCTGCTCTGCGAGGGAGGAGCACGTGTCCTTACCATCCTGCGGGATGAACCTGCAGTCT**TGAG**CCTTTCCCAT
GCTGCCCTCGGCCTGTTAGATGGGGATTGGGGGTGTCTTCCCTGGCACTGTGCTCGGGGACCCAGAGATGCCTG
TGCTTCCCTGGGAAACCTGGTGAACCTGGACCAGGTGGCCTCACTGGCTCTTCTCAGGACAATAAGCCTGCTGGT
CAGGGCTGGCTTTTACGCTTCCCTAAGGCTCCTGGACTCCAGAGGCCAGCGGGGAGCCTTTCCTGGCTCCCTCTGT
TTTCTCTCACTGTAGACCAAAGAGCCGCTTGTGTGATATTAAAGCCACTTTAGAAAGC

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FIGURE 4412

MGARTPRPGAGLRDQQMAPSAAPQAPEAFTLKEKGHLLRLPAAFRKAASQNSSLWAQLSSTQTSDDSTDAAAKTQ
FLQNMQTASGGPQPRLSAVEVEAEAGRLRKACSLRLRMRELSAAPMDWMQEYRCLLTLEGLQAMVGQCLHRLQ
ELRAAVAEQPPRPCFVGRPPGASPCGGRAEPAWSPQLLVYSSTQELQTLAALKLRVAVLDQQIHLEKVLMAELL
PLVSAAQPQGPPWLALCRAVHSLCEGGARVLTILRDEPAV

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FIGURE 4413A

GCAGCGCGGCCAGGCGGGGTGCGAGTGGCGCAGTTGGAGCCCCTTGC GGCCCCTGAGGAAGCGAGGAGGCGTCG
GCGTCGGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGGCGGCCCCAGGCCCCGAGGGACCTCGGGAGCTCGAGCAG
CGGCGGCGGCAAGACCTCTCCCCCTCGGAGGCGGGCGGGCGGAGGCGGGAGCGGTGGTGCCCCCCCCGGGCAC
GGGGCCATGTACAACGGGATCGGGCTGCCGACGCCCCGGGGCAGCGGCACCAACGGCTACGTCCAGCGCAACCTG
TCCCTGGTGCGGGGCGCCCGGGGTGAGCGGCCTGACTACAAGGGAGAGGAGGAACTGCGGCGCCTGGAGGCTGCC
CTGGTGAAGCGGCCTAATCCTGACATCCTGGACCACGAGCGCAAGCGGCGCGTTCGAGCTGCGATGCCCTCGAGCTG
GAGGAGATGATGGAAGAGCAGGGGTACGAGGAACAGCAAATTCAGGAAAAAGTGGCGACCTTTTCGACTCATGTTG
CTGGAGAAGGATGTGAACCTGGGGGCAAGGAGGAGACCCAGGGCAGAGGCCAGCGGTACAGGAGACTCACCAG
TTGGCAGAATTAAATGAGAAGAAGAATGAAAGACTCCGTGCTGCCCTTTGGCATCAGTGATTCTTACGTAGATGGC
AGCTCTTTTGATCCTCAGCGTCGTGCCCCGAGAAGCTAAACAACCAGCTCCTGAGCCTCCCAAACCTTACAGCCTT
GTTCCGGAGTCTAGCAGTTCTCGCTCACCAACCCCAAAGCAGAAGAAGAAGAAAAAGAAGAAAGATAGAGGACGC
AGGTCAGAGAGCAGCTCTCCTCGACGGGAGAGAAAGAAAAGCTCAAAGAAGAAGAAGCACAGGTCAGAATCTGAG
TCCAAGAAACGTAAGCATAGGTCTCCCACTCCAAAGAGCAAACGTAAATCTAAGGACAAAAAGCGAAAGCGGTCT
CGAAGTACAACACCAGCCCCCAAGAGCCGCGGGGCCACCGTTCAACTTCTGCTGACTCTGCTTCTCTCTCCGAT
ACTTCCCGCAGTCGGTCTCGAAGTCTGCGAGCTAAAACCTATACAACCTGCCTTGGCTGGGCGAAGTCCTTCCCT
GCTTCAGGGCGACGCGGGGAGGGAGATGCGCCTTTCACTGAACCAGGTACTACCAGCACACAACGGCCTAGTAGC
CCGGAGACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACT
CGACCTAGCCCCCTCTCCGGAAGGAGCAGCACAGGCCCAGAACCACCTGCTCCCACTCCGCTCCTTCTGAGCGA
CATGGCGGCTCCCCACAACCCCTTGCAACCACCCCTTAAGCCAGGAGCCAGTGAACCCCCATCTGAGGCCTCT
CCAACCTCGGGACCGTTACACCTAAGTCTCCCGAGAACTTCCCCAGTCTTCTTCTCAGAGAGCAGCCACCA
TCCCCCTCAACCTACCAAAGTTTCTCGGCATGCCAGCTCTTCCCCAGAAAGTCTTAAACCTGCTCCAGCTCCAGGG
TCCCACCGAGAGATTTCTTCTTCTCCACATCTAAGAATCGCTCACATGGCCGAGCAAAACGGGATAAATCACAT
TCTCATACCCCTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCGCTAAGAGAGGGCGATCTCGGTCTCGA
ACCCCTACCAAGAGAGGTCAATTCTCGATCCCGATCTCCCCAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGA
AGATCTAGAAGCCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGCTGGTCTAGGAGCAGAAATACC
CAGAGAAGAGGCAGGTCTAGGTCTAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCCAGCCACTAGGGGTAGATCT
CGTTCTAGAACACCAGCCCCGCGGGGCGAGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAAT
CCCACCAGGCGTAGGTCTCGGTCTAGAACACCAGCCCCGAGGGGCGAGGTCTCGGTCTAGAACACCTGCTAGGCGC
AGATCTAGGACCCGATCACACGTACGACGCGAGGTCTCGTAGTAGATCACACAGCCAGGAGAGTGGCAGGTACGC
TCTAGAACCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCAGCCAGACGTGGCCGCTCACGCTCTAGAACC
CCAGCTAGACGCGAGTGGTCTGCTCACGCTCCAGAACACCAGCCAGGAGAGGGAGGTCTCGGTCTAGGACACCAAGA
CGAGGAAGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGA
TCTGGCTCATCTTCAGAGCGGAAAAACAAATCCAGAACATCTCAAAGAAGAAGCAGGTCCAATTCAAGCCAGAA
ATGAAGAAATCTCGCATTTCTTCAAGGCGGAGCAGGTCTCTCTCTTACCACGGTCCAAAGCAAATCTCGCTTG
TCTTTGAGGCGCAGCCTTTCAGGGTCTTCCCCATGCCCTAAACAAAAGTCACAGACACCACCCAGGCGCAGTCGC
TCTGGATCCTCCCAACCTAAAGCTAAATCTAGAACGCCACCCAGACGCAGTCGCTCCAGTTCTTCTCCGCCACCT
AAACAGAAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTTCATCTCCTCATCTAAAGTGAAATCTGGAACA
CCACCGAGGCAAGGGTCCATAACAAGTCCCCAGGCCAATGAGCAATCTGTAACGCCACAGAGACGGAGCTGTTTT
GAATCATCACCTGACCCCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCTCTCCTCCTAGA
GTGAAATCTAGCACACCTCCAGACAGAGCCCATCTAGGTTCATCTCCACAACCCAAAGTGAAGGCAATAATA
TCACCAAGACAAAGAAGCCATTCTGGCTCCTCTTCTCCAAGTCTAGTAGGGTGACGTCGAGAACAACCTCCACGG
CGAAGCAGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCTCTC
TCACCAGATACCAAAGTGAAACCTGAAACACCGCCAAGACAAAGTCACTCAGGGTCTATTTACCATAACCCAAA
GTAAAGGCCCAAACCTCCACCGGGGCCAAGTCTTCTGGATCAAAGTCAACCATGTCCCCAAGAGAAGTCTAAAGAC
TCACTAGTTCAAAGTTGCCCTGGATCCCTCTCTCTCTGTGTCAGGAGTAAATCTAGCACACCACCAGGCGAGAGC
TATTTTGGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACCTTACCAGACCACAGATCTGATACTTCAAGT
CCAGAAGTGAGACAGAGTCATTGAGAATCACCATCTCTGCAGAGCAAATCTCAAACATCACCTAAGGGAGGTCCGG
TCCAGGTCTTCATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCG

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FIGURE 4413B

AGTCCTATGTTGAAATCTGGAATGTCTCCTGAGCAGAGCAGGTTCCAGTCTGACTCTTCTTCATATCCTACAGTG
GACTCGAATTCTCTCTTGGGGCAGAGTAGATTGGAGACTGCTGAATCAAAAGAGAAAATGGCCTTACCCCTCAG
GAGGATGCTACTGCATCACCTCCTAGACAGAAAGACAAATTTAGTCCCTTTCCAGTACAGGATAGGCCTGAGTCT
TCACTGGTATTCAAAGACACACTTAGAACCCCGCCAAGGGAAAGAAGTGGTGCTGGGTTCATCTCCAGAAACAAAA
GAGCAAAATAGTGCATTGCCTACGTCAAGCCAAGATGAAGAGTTAATGGAGGTGGTAGAGAAAGTCTGAAGAACCC
GCAGGCCAAATCCTGTCTCATTTGTCTTCAGAACTTAAAGAAATGTCCACAAGTAACTTTGAATCATCTCCTGAA
GTAGAAGAAAGGCCTGCTGTGTCTTTGACTCTTGATCAGAGCCAGTCACAGGCTTCTTTGGAAGCAGTAGAAGTC
CCTTCAATGGCCTCATCTTGGGGTGGGCCACATTTTCTCCAGAACATAAAGAACTGTCTAACTCCCCACTCAGG
GAGAACAGCTTTGGATCACCTTTAGAATTTAGAACTCAGGCCCCACTTGGTACAGAAATGAATACTGGATTTTCT
TCTGAGGTTAAAGAAGATTTGAATGGACCGTTTCTTAATCAGCTGGAAACAGATCCATCTCTAGACATGAAAGAA
CAATCGACAAGATCCTCTGGACACAGCAGTTCTGAGTTATCCCCAGATGCAGTGGAAAAGGCAGGGATGTCTTCA
AATCAGAGCATCTCTTCACCTGTGCTTGATGCTGTACCCAGAACACCCTCGAGAGAAAGAAGTAGTTCTGCATCT
TCTCCTGAAATGAAAGATGGTTTACCCAGAACTCCATCAAGGAGAAGCAGGTCTGGGTCTTCTCCAGGACTTAGA
GATGGGTCTGGGACTCCCTCGAGGCACAGCCTGTCTGGGTCTCTCCTGGAATGAAAGATATACCTAGAACGCCA
TCTAGAGGGAGAAGCGAATGTGATTCTTCCCCAGAACCGAAAGCTTTGCCTCAGACTCCTAGGCCGAGGAGTCGT
TCTCCATCATCCCCAGAGCTCAACAACAAGTGTCTTACCCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTT
GATCAGAAAACGTGTGGCTCGGACTCCCTGGGGCAGAGAAGTCGTTCCGGATCCTCTCAAGAACTTGATGTGAAA
CCCAGTGCATCCCTCAGGAAAGAAGTGAGTCAGACTCTTCTCCAGATTCTAAAGCCAAGACAAGAACCCCACTT
CGGCAGAGGAGTCGGTCTGGATCATCTCCAGAGGTTGACAGCAAATCTCGACTATCCCTCGGCGCAGTAGGTCT
GGTTCTCTCCCTGAAGTGAAAGATAAGCCAAGAGCAGCACCCAGGGCACAGAGTGGTTCTGATTCTCTCCTGAA
CCTAAAGCTCCAGCCCCCTCGGGCCCTTCCCAGACGAAGCAGATCAGGTTTCATCAAGCAAAGGCAGAGGCCCTTCT
CCTGAAGGAAGCAGCAGTACCGAGTCTCTCCTGAACATCCGCCCAAATCCAGAACTGCTCGCAGAGGTTCCAGG
TCATCACCAGAGCCCAAGACCAAGTCTCGTACACCACCTCGACGTCGCAGCTCTCGATCATCTCCGGAGCTAACA
AGGAAGGCCAGACTGTCCCGTAGAAGCCGCTCTGCCTCATCCTCACCAGAACTCGCTCTAGAACTCCCCCAAGG
CACCGGAGAAGTCCCTCAGTGTCTTCCCCGGAGCCAGCCGAAAAATCGAGGTCTTACGCCGACGGCGCTCAGCT
TCATCTCCACGCACTAAGACAACCTCAAGGAGAGGCCGCTCTCCTTCGCCAAAGCCTCGTGGACTCCAGAGGTCC
CGTTCCCGCTCAAGGAGAGAGAAAACAAGAACAACCCGACGTCGAGATAGGTCTGGATCTTCTCAGTCAACCTCT
CGGCGAAGACAGCGGAGCCGGTCAAGGTGCGGGTTACTCGGCGGCGGAGGGGAGGCTCTGGTTATCACTCAAGG
TCACCTGCCCCGGCAGGAAAGTTCCCGGACCTCCTCTCGACGCCGAAGAGGCCGCTCTCGGACACCCCCAACCACT
CGGAAGCGTTCTCGCTCACGCACATCACCAGCCCCGTGGAAACGCTCTAGATCTCGAGCCTCTCCAGCCACTCAC
CGGCGATCCAGGTCCAGAACCCCCCTGATAAGCCGACGTAGGTCCAGATCTCGAACTTACCAGTCCAGCCGGAGA
CGGTCAAGGTCCAGGACTTCAGTGACTCGACGAAGATCCCGGTCAAGAGCATCCCCAGTGAGCAGAAGGCGATCC
AGATCCAGAACGCCACCAGTAACCCGCCGTCGTTCAAGGTCTAGAACGCCAACACACGCCGCCGCTCCCGTTCT
AGAACTCCACCAGTGACTCGCAGAAGGTCCAGATCCAGGACTCCACCAGTAACCAGGAGGCGATCTCGAAGCAGA
ACTTCGCCTATCACTCGCAGAAGATCAAGATCCAGAACATCTCCGGTCACCCGAAGGAGATCTCGATCTCGCACA
TCTCCAGTAACTCGAAGAAGGTCCCGCTCTCGAACCTCACCAGTGACACGCCGCCGCTCTAGGTCCCGGACACCT
CCAGCACAGGATCAGCCGAGGTCTCCTGTGCCTTCTGCTTTTTTCAGACCAATCCCGTTGTTTGATTGCCAGACC
ACCCCTGTAGCAGGGTCTCAGTCCCTTTCTCTGGGGCAGTGGCAACGACCACGTCTCTGCTGGTGATCACAAT
GGCATGCTCTCTGTCCCTGCCCCTGGGGTGCCCCACTCTGATGTGGGGGAGCCACCTGCCTCTACTGGGGCCAG
CAGCCTTCTGCATTAGCCGCCCTGCAGCCAGCAAAGGAGCGGCGGAGTTCTCCTCGTCGTCGTCGTCCTCTAGC
TCTCCTCTTCTTCATCATCGTCGTCGTCGTCCTCCTCCTCCTCTGGCTCCAGTTCTAGTGACTCAGAGGGCTCT
AGCCTTCTGTGCAACCTGAGGTGGCACTGAAGAGGGTCCCCAGCCCCACCCAGCCCCAAAGGAGGCTGTTCGA
GAGGGACGTCTTCCGGAGCCAACCCAGCCAAACGGAAGAGGCGCTCTAGCAGTTCCAGTTCCAGCTCCTCCTCT
TCATCTTCTCCTCCTCCTCCTCCTCCTCCTTCTTCTCCTCCTCCTTCTTCTTCTTCTTCTCCTCCTCATCTTC
TCTCCTCGTCGTCCTTCTCCTCCCTTCCCTTGCTAAGCCTGGCCCTCAGGCCTTGCCCAAACCTGCAAGCCCCAAG
AAGCCACCCCTGGCGAGCGGAGGTCCCGCAGCCCCCGGAAGCCAATAGACTCCCTCAGGGACTCTCGGTCCCTC
AGCTACTCGCCTGTGGAGCGTCGCCGTCCCTCGCCCCAGCCCTCACCACGGGACCAGCAGAGCAGCAGCAGTGA
CGGGGTTCCTCGAGAGGCCAGCGTGGGGACAGCCGCTCCCCAGCCACAAGCGCAGGAGGGAGACACCTAGCCCT

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FIGURE 4413C

CGGCCCATGAGACACCGCTCCTCCAGGTCTCCATAAATTGTCTTTGGGGGATTCCACCACACCCAATGCTCTGGA
GCCACAAGGAGTGTCCCTTCTTCCCCAGCAGAGCCGTGGGAGGGTCCTTGTCTGCTCTCCTTTGAACCTTGGCAG
CCCTTGGAATGGAGGGCTCCCTTTCCCTCCCCTTTTTTTTTTCTTTGTTTCCTGTGAAATGTTAATCTCCGTGAGTT
CTTCCTGGTTCATGTGTTCTGGGGGGTTTGGGGTGGGAGGGAATGCAGATGGGAGTTGGGGGAGGGGAGGATACA
GTTCAAGGATACCCCAGCCTGGAGTCAGGGCCAGGGAGGCATGGCCCCACTTGTAATCCAGAAAGTTCCCAGGGGTGA
TTGTGATGGTGGTTGGGACTGGAGGTTGTATAAGGTGTTCTTGGAAGGAAGGGGCAGGAGTTGGAATTAGTTGGT
CCCTACTGTCCCCCATGAGGTTGTGAACCCCTCCCCCAACTTTTCATGTTTCTTAAAGGCATTTTGGTTTTTTA
AAATCTGTACAGCAAGAGCAACTTTTTCTGTCAAATAAAAATGAGAAATGCAGG

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FIGURE 4414

CGAC**ATG**GGCGCGGAGCTGCGGGCGCTGCTGCTGTGGGGCCGCCGCTGCGGCCTTTGCTGCGGGCGCCGGCGCT
GGCGGGCGTGCCGGGAGGAAAACCAATTCTGTGTCTCGGAGGACCACAGCCCAGTTGGGCCCCAGGCAGAAACCC
AGCCTGGAGCTTGCAAGGACGACTGTTTCAGCACGCAGACCGCCGAGGACAAGGAGGAACCCCTGCACTCGAT
TATCAGCAGCACAGAGAGCGTGCAAGGTTCCTTCCAAACATGAGTTCCAGGCCGAGACAAAGAAGCTTTTGA
CATTGTTGCCCCGGTCCCTGTACTCAGAAAAAGAGGTGTTTATACGGGAGCTGATCTCCAATGCCAGCGATGCCTT
GGAAAACTGCGTCACAACTGGTGTCTGACGGCCAAGCACTGCCAGAAATGGAGATTCACTTGCAGACCAATGC
CGAGAAAGGCACCATCACCATCCAGGATACTGGTATCGGGATGACACAGGAAGAGCTGGTGTCCAACCTGGGGAC
GATTGCCAGATCGGGGTCAAAGGCCTTCCTGGATGCTCTGCAGAACAGGCTGAGGCCAGCAGCAAGATCATCGG
CCAGTTTGGAGTGGGTTTCTACTCAGCTTTCAITGGTGGCTGACAGAGTGGAGGTCTATTCCCCTCGGCAGCCCC
GGGGAGCCTGGGTTACAGTGGCTTTTTCAGATGGTTCTGGAGTGTGAAATCGCCGAAGCTTCGGGAGTTAGAAC
CGGGACAAAAATCATCATCCACCTGAAATCCGACTGCAAGGAGTTTTTCAGCGAGGCCCGGGTGCAGATGTGGT
AACGAAGTACAGCAACTTCGTTCAGCTTCCCTTGTACTTGAATGGAAGGCGGATGAACACCTTGCAGGCCATCTG
GATGATGGACCCCAAGGATGTGCGGTGAGTGGCAACATGAGGAGTTCTACCGCTACGTGCGCAGGCTCACGACAA
GCCCCGCTACACCTGCCTATAAGACGGACGCACCGCTCAACATCCGCAGCATCTTCTACGTGCCCGACATGAA
ACCGTCCATGTTTGTGAGCGGGAGCTGGGCTCCAGCGTTGCACTGTACAGCCGCAAAGTCCTCATCCAGAC
CAAGGCCACGGACATCCTGCCCAAGTGGCTGCGCTTCATCCGAGGTGTGGTGGACAGTGAAGACATTCCCCTGAA
CCTCAGCCGGGAGCTGCTGCAGGAGAGCGCACTCATCAGGAACTCCGGGACGTTTTACAGCAGAGGCTGATCAA
ATTCTTCATTGACCAGAGTAAAAAGATGCTGAGAAGTATGCAAAGTTTTTTGAAGATTACGGCCTGTTTCATGCG
GGAGGGCATTGTGACCGCCACCGAGCAGGAGGTCAAGGAGGACATAGCAAAGCTGCTGCGCTACGAGTCCCTCGGC
GCTGCCCTCCGGGCAGCTAACCAGCCTCTCAGAATACGCCAGCCGCATGCGGGCCGGCACCCGCAACATCTACTA
CCTGTGCGCCCCCAACCGTCACCTGGCAGAGCACTCACCTACTATGAGGCCATGAAGAAGAAAGACACAGAGGT
TCTCTTCTGCTTTGAGCAGTTTGATGAGCTCACCTGCTGCACCTTCGTGAGTTTGACAAGAAGAAGCTGATCTC
TGTGGAGACGGACATAGTCGTGGATCACTACAAGGAGGAGAAGTTTGAGGACAGGTCCCCAGCCGCCGAGTGCCT
ATCAGAGAAGGAGACGGAGGAGCTCATGGCCTGGATGAGAAATGTGCTGGGGTTCGCGTGTACCAACGTGAAGGT
GACCTTCCGACTGGACACCCACCCTGCCATGGTCACCGTGCTGGAGATGGGGGCTGCCCGCCACTTCCTGCGCAT
GCAGCAGCTGGCCAAGACCCAGGAGGAGCGCGCACAGCTCCTGCAGCCCACGCTGGAGATCAACCCAGGCACGC
GCTCATCAAGAAGCTGAATCAGCTGCGCGCAAGCGAGCCTGGCCTGGCTCAGCTGCTGGTGGATCAGATATACGA
GAACGCCATGATTGCTGCTGGACTTGTTGACGACCCTAGGGCCATGGTGGGCCGCTTGAATGAGCTGCTTGTCAA
GGCCCTGGAGCGACAC**TGA**CAGCCAGGGGGCCAGAAGGACTGACACCACAGATGACAGCCCCACCTCCTTGAGCT
TTATTTACCTAAATTTAAAGGTATTTCTTAACCCGAAAAAAAAAAAAAAAAA

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FIGURE 4415

MARELRALLLWGRRLRPLLRAPALAAVPGGKPILCPRRTTAQLGPRRNPAWSLQAGRLFSTQTAEDKEEPLHSII
SSTESVQGSTSKHEFQAETKKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKLVS DGQALPEMEIHLQTNAE
KGTITIQDTGIGMTQEELVSNLGTIARSGSKAFDALQNQAEASSKIIIGQFGVGFYSAFMVADRVEVYSRSAAPG
SLGYQWLSDGSGVFEIAEASGVRTGTKII IHLKSDCKEFSSEARVRDVVTKYSNFVSFPLYLNGRRMNTLQAIWM
MDPKDVGEWQHEEFYRYVAQAHDKPRYTLHYKTDAPLNIRSIFYVPDMKPSMFDVSRRELGSVALYSRKVLIQTK
ATDILPKWLRFIGRVVDSEDIPLNLSRELLQESALIRKLRDVLQORLIKFFIDQSKKDAEKYAKFFEDYGLFMRE
GIVTATEQEVKEDIAKLLRYESSALPSGQLTSLSEYASRMRAGTRNIYYLCAPNRHLAEHSPYYEAMKKKDTEVL
FCFEQFDELTLHLREFDKKKLISVETDIVVDHYKEEFEDRSPAAECLSEKETEEELMAWMNRNVLGSRVTNVKVT
LRLDTHPAMVTVLEMGAARHFLRMQQLAKTQEERAQLLQPTLEINPRHALIKKLNQLRASEPGLAQLLVDQIYEN
AMIAAGLVDDPRAMVGRNLNELLVKALERH

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FIGURE 4416

CGGAATGGAGGAGGTGCCTCACGACTGTCCAGGGGCCGACAGCGCCAGGCGGGCAGAGGGGCTTCATGTCAGGG
ATGCCCCAACAGCGGCTGTGCGCTTCTGGAGCGGGGGCCACTCCGGACACGGCTATAGAGGAAATCAAAGAGAA
AATGAAGACTGTAAAACACAAAATCTTGGTATTGTCTGGGAAAGGCGGTGTTGGGAAAAGCACATTTCAGCGCCCA
CCTTGCCCATGGCCTAGCAGAGGATGAAAACACACAGATTGCTCTTCTAGACATCGATATATGTGGGCCATCGAT
TCCAAGATAATGGGATTGGAAGGAGAGCAGGTTTACCAGAGTGGCTCAGGCTGGTCTCCAGTGTACGTGGAAGA
CAACCTGGGGGTGATGTCAGTGGGCTTCTGCTCAGCAGTCCTGATGATGCTGTTATCTGGAGGGGACCCAAGAA
AAACGGCATGATCAAGCAGTTCTCCGAGATGTGGACTGGGGAGAGGTCGACTACCTCATTGTGGACACCCACC
TGGGACGTCGGATGAACACCTCTCGGTGCTCCGGTACCTGGCCACAGCACACATCGATGGAGCAGTGATCATCAC
CACTCCCCAGGAGCTGTCACTCCAGGATGTCCGAAAGAAATCAACTTCTGCCGCAAGGTGAAGCTGCCCATCAT
CGGGGTGGTGGAGAACATGAGTCCGTTTCATCTGTCTAAGTGCAAGAAAGAATCTCAGATATTCCCTCCCACAAC
CGGGGGCGCGGAGCTCATGTGCCAGGACTTGGAGGTCCCTCTCCTCGGCAGAGTGCCCCCTGGATCCGCTCATAGG
TAAGAATTGTGACAAAGGCCAGTCTTTTTTTCATTGACGCCCCAGATTCCCCAGCCACGTTAGCCTACAGAAGTAT
AATTCAGAGAATCCAAGAGTTTTGTAACTCTCCATCAGTCAAAGAAGAGAACCTCATCAGTTCCTGAAACGAGAG
AATGTTCAGGACCAAGCAGTTACCGAGCGAGGCACTCACTGGGCAGCACATCCAGCCAGACCCGACCAGCTCCGG
GATGGGGTGGGTCACAGCAAAGGACCAGATGCTGGTGTGGTCCGAAGCCACTTTCTCAGAGACACTTTAATCAT
TGAGTATTTGTACACTTTTCTTTAGAACATATATAAAGGGCATTCTCTACAAATGTGCCGTTTTAAGAATAAAAC
CCCCCAAATCTC

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FIGURE 4417

MEEVPHDCPGADSAQAGRGASCQGCPNQRLCASGAGATPDTAIEEIKEKMKTVKHKILVLSGKGGVGKSTFSAHL
AHGLAEDENTQIALLDIDICGPSIPKIMGLEGEQVHQSGSGWSPVYVEDNLGVMSVGFLSSPDDAVIWRGPKN
GMIKQFLRDVDWGEVDYLIVDTPPGTSDEHLSVRYLATAHIDGAVIITTPQELSLQDVRKEINFCRKVKLP IIG
VVENMSPFICPKCKKESQIFPPTTGGAELMCQDLEVPLLGRVPLDPLIGKNCDKGQSFFIDAPDSPATLAYRSII
QRIQEF CNLHQSK EENLISS

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FIGURE 4418

CGGTCCTTCTCAACAGGCCTGTGCCCCGCGGGGTCCGCCTCCTCTGGGACGCCTTCCTCCCGGCACAGAAGGCCT
CCCCCTCTCACCAGGGCCCTCGCCCGCTGGTCCGCCAGGCCCGCCTTTTTTGCGGCCCCCATTGTGCTGCTGGA
CCCGACGAGCAGTGTTGACAGTGAACCCACGTAGACGCGGCCCGGTACCGGGGGTTCAGGCAGTAGAGCAGGT
AGACGCCGAAAAAGCGCCCTGGCCTCGCCGCGACCCCGCGGGACCCATCGGGCCTTGCGGGTTCGGGAACACAG
CAGGGGGTTGATTGCCGTGACCTAGGGTCCAGGGGAGGGCTGGATCGCTAGGGCTGCAGGGTGCTTGCTTCGGAA
CAAGCTCTCGGGGACTATCCGGAGGCAGCCTGCAGGAAGCCGTAGCGCCGGTACGTGCCCCCTCCTCTGTCTGGAG
GCGGGTGTAGAAGTCCGACCGCGGAAGCCAGACTGCTGTCCAGTCGGCGAGCGCGTACCATTTCAGCATCGGCTCC
GCCCCAGTCCACCTTCCTCAGGCTCTGATTGGCTGACACATGGCAAGCGCGAAAAGCCTGGACCGCTGGAAAGC
CCGGCTGCTTGAGGGCGGAAGTACTGCGTTGACGTACGCCTTAGTAAGGGCGGAAGTGAGTTTTCCAGCGGAAGT
GGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCGAGCTGGGGTTGTGTCCCTGCTGGGCTGCCGTTCCAG
CTGGACTGCCGCC**ATG**GAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGAGGCGGAGCATGT
GGAGGTGGAGGACACGACCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTGCGGCCAAGTTCGAGGG
GAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACATCCATGCCTTTGA
ACAGAAAACCCTGACCCCGAGCAGTGGGCACGTGAGCGACAGAAA**TGA**GGGACTGGGATCTGCACAGCCATTAA
ATTATAAATCTGGACCAGCTTCTGTGTCGATGTGTGTGTGGGAGGGGTGCTGAGGCCGAGTCTAGGACCTGGCCT
CTCCCTGCCCTGCCTCCGTCCATTGTTTTA

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FIGURE 4419

MELSAEYLREKLQRDLEAEHVEVEDTTLNRCSCSFRVLVVS AKFEGKPLLQRHRLVNACLAEEELPHIHAFEQKTL
TPDQWARERQK

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FIGURE 4420

GGTAACTTCTTGATGTTGCCGTGGCATTGTGTAACCTGTCATGGTGCTGGTAGGAGTGTAGCAGGGAGGATGATGG
GAGGTCAGTCTTGTCTCTATTTTGGTTTTGGTGGGTTTTGGCCAGCTCCTTCACTGCAACCTGTTTTATCAGCAA
GGTCTTTATGACTGGTATTTTGTGCTGACCTTCTATGTCATCCTGTGACTTAGAATGCCTTAACCATCAGGGAAT
GCAGCCCAGTAGTTTTAGCCTCATTTTTCTGGCTCCTATTTAAGATGGAGTTGCTCTGGTTTCACACACCTCTGA
CATGATCATTGCCCCACTGCGGCTTCCACCTCCCGGGTTCAAGAGATCCTCCTGCCTCACCTCCCAAGGTGCTGG
GACTACAGGTGTGTGCCACCACGCTCAGCTAATTTTTGTATTTTTTGTAGAGATGGTGTTTTTCCATGTTGCCCA
GGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCATGTC
CCACCATGCCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTGAGTTGCTATGGCTCCAGC
TGAAAGAAAGCCCGTGCAGTCATATCACGCGTAAACATTTGCTTTATGCTAAAAATATGGTGAGCCTGGCATTAC
AGCTATTACAAATCTCCTAAGATGTCTCGGGTAGTGTATTAGTTACTTTTCATACTGCTATGAAGAAATACTGGA
AACTGGGTAATTTATAAAGAAAAAGAGGTTTAATGTACTCACAGTTCCACAAGGCTGGAGAGGCCCTCAGAATCAT
GGTGGAAGGCAAGGAGCAAAAAGGTATGTCTTCCATGGCAGCAGGCAAGAGAGCACGTGCAGGGAAACTGCCCTT
TATAAAACCATCAGATTTAGTGAGATGTATTCATATCACGAGAACAGTATGGGAAAAACCTGCCCCCATGATTC
GATTACCTCCTACCGGGTCCCTCCACGACACATGGGGATTATGGGAACACAATTCAAGATGAAATTTGGGTGG
GGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAAGCCATTTACCAAGATA
GTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTGTGAAAATATGTTGCAGTGGGCAGCTCAGCAGAGAAGG
GGCTACCTGCAAAGAGGCAAGGGCTGGAGGAAAGTTTTATAGGGTCTCTGCTGAAGGGTGCTACGTGTGGAATGAG
GTCATTGTGCCCGCAGGTTGTTTGTGATTAGCTGTTTCTAACAATTGTTCATAACAATAATTGTTTCATTATTGTTT
TCAACTTGGGGCTCTCCCCAACCTGGGGACCTTTCCTTATTGTTGCTTACTTATCAGGTCTCCACATAAAGGTGT
GGAAACTTCATTTCATTATATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAACATTTATTCAACAAATAT
TTAGTCCAAGCCACTATTACTTATTACCTTCTCTACTATTGTATGGACTTTTAACTATCTCTGACACTATTCACT
ATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATACAACTAATACTCACAGGG
AATATATAGAGTCTAGAAGAAAAATATACAGGTCCTTAAAGGCTGCCCTGCCAACAAAACCATAACGCAGGAACAA
ACATCACAACATATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAACCTGGAATTTCCAGACTTCC
TTTCTGCATTAACCAGTTTAACTAGACAGTAACGAAATATTCCTACTTTATGCTGTGATAGTTTGTGTTATTTATT
TATTTATTTATTTATTTATTTGAGACAGAGTTTCGCTCTTGTTGCAGTGAGCCAGGATCATGCCATTGCACTCCA
GCCIGGTCAACGGAGCGAGACTCCGCCTCATTAACAAAAAAAAAAAAAAAAA

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FIGURE 4421

ATCTTGCTTTCCTTTAATCCGGCAGTGACCGTGTGTCAGAACAATCTTGAATCATGAAGCTACTAACCAGAGCCG
GCTCTTTCGAGATTTTATTCCCTCAAAGTTGCCCCCAAAGTTAAAGCCACAGCTGCGCCTGCAGGAGCACCGC
CACAACTCAGGACCTTGAGTTTACCAAGTTACCAAATGGCTTGGTGATTGCTTCTTTGGAAAATATTCTCCTG
TATCAAGAATTGGTTTGTTCATTAAAGCAGGCAGTAGATATGAGGACTTCAGCAATTTAGGAACCAACCCATTGCG
TGCCTTACATCCAGTCTGACGACAAAAGGAGCTTCATCTTTCAAGATAACCCGTGGAATTGAAGCAGTTGGTG
GCAAATTAAGTGTGACCGCAACAAGGGAAAACATGGCTTATACTGTGGAATGCCTGCGGGGTGATGTTGATATTC
TAATGGAGTTCCTGCTCAATGTCAACACAGCACCAGAAATTCGTCGTTGGGAAGTAGCTGACCTTCAGCCTCAGC
TAAAGATTGACAAAGCTGTGGCCTTTCAGAATCCGCAGACTCATGTGATTGAAAAATTTGCATGCAGCAGCTTACC
AGAATGCCTTGGCTAATCCCTTGTATTGTCCTGACTATAGGATTGGAAAAGTGACATCAGAGGAGTTACATTACT
TCGTTTCAAGAACATTTTACAAGTGCAAGAATGGCTTTGATTGGACTTGGTGAGTGCATCCTGTTCTAAAGCAAG
TTGCTGAACAGTTTCTCAACATGAGGGGTGGGCTTGGTTTATCTGGTGCAAAGGCCAACTACCGTGGAGGTGAAA
TCCGAGAACAGAATGGAGACAGTCTTGTCCATGCTGCTTTTGTAGCAGAAAGTGCTGTCGCGGGAAGTGACAGAGG
CAAATGCATTTAGTGTTCTTCAGCATGTCCTCGGTGCTGGGCCACATGTCAAGAGGGGCAGCAACACCACCAGCC
ATCTGCACCAGGCTGTTGCCAAGGCAACTCAGCAGCCATTTGATGTTTCTGCATTTAATGCCAGTTACTCAGATT
CTGGACTCTTTGGGATTTATACTATCTCCAGGCCACAGCTGCTGGAGATGTTATCAAGGCTGCCTATAATCAAG
TAAAAAGAATAGCTCAAGGAAACCTTTCCAACACAGATGTCCAAGCTGCCAAGAACAAGCTGAAAGCTGGATAAC
TAATGTCAGTGGAGTCTTCTGAGTGTTTCTGGAAGAAGTCGGGTCCAGGCTCTAGTTGCTGGTTCTTACATGC
CACCATCCACAGTCCTTCAGCAGATTGATTGAGTGGCTAATGCTGATATCATAAATGCGGCAAAGAAGTTTGT
CTGGCCAGAAGTCAATGGCAGCAAGTGGAATTTGGGACATACACCTTTTGTGATGAGTTGTAATACTGATGCA
CACATTACAGGAGAGAGCTGAACGTTCTCTACCCAGAGCAGCAAACACATGAAAGTCAGAAGTCTCTAATATAT
CATTTGTCTTTTTTCCAGTGAGGTAAAATAAGGCATAAATGCAGGTAATTATTCCCAGCTGACCTAAAGTCAATA
AAACATTCTGTTT

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FIGURE 4422

MKLLTRAGSFSRFYSLKVAPKVKATAAPAGAPPQPQDLEFTKLPNGLVIASLENYSPVSRIGLEFIKAGSRYEDFS
NLGTTHLLRLTSSLTTKGASSFKITRGIEAVGGKLSVTATRENMAYTVECLRGDVDILMEFLLNVTTAPEFRWE
VADLQPQLKIDKAVAFQNPQTHVIENLHAAAYQNALANPLYCPDYRIGKVTSEELHYFVQNHFTSARMALIGLV
SHPVLKQVAEQFLNMRGGLGLSGAKANYRGGEIREQNGDSLVAHFVAESAVAGSAEANAQSVLQHVLGAGPHVK
RGSNTTSHLHQAVAKATQQPFDVSAFNASYSDSGLFGIYTISQATAAGDVIKAAYNQVKRIAQGNLSNTDVQAAK
NKLKAGYLMSVESSECFLEEVGSQALVAGSYMPPSTVLQQIDSVANADIINAACKFVSGQKSMAASGNLGHTPFV
DEL

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FIGURE 4423

AGTCCTCTTCCGGGTGATGGCGGCGGGTGCCCCGGATGTAGCCCTGGCGCAAGCATCTCTTCTTTTTTCCACCTC
GCCTTCCGCGGATTCCCAGCTTGAGAAACACCTCTTTGCCCCGTCAATGCCAAAGAGGAAAAGTGACCTTCCAAGGC
GTGGGAGATGAGGAGGATGAGGATGAAATCATTGTCCCCAAGAAGAAGCTGGTGGACCTGTGGCTGGGTCAGGG
GGTCCTGGGAGCCGCTTTAAAGGCAAACACTCTTTGGATAGCGATGAGGAGGAGGATGATGATGATGGGGGGTCC
AGCAAATATGACATCTTGGCCTCAGAGGATGTAGAAGGTCAGGAGGCAGCCACACTCCCCAGCGAGGGGGGTGTT
CGGATCACACCCTTTAACCTGCAGGAGGAGATGGAGGAAGGCCACTTTGATGCCGATGGCAACTACTTCCTGAAC
CGGGATGCTCAGATCCGAGACAGCTGGCTGGACAACATTGACTGGGTGAAGATCCGGGAGCGGCCACCTGGCCAG
CGCCAGGCCTCAGACTCGGAGGAGGAGGACAGCTTGGGCCAGACCTCAATGAGTGCCCAAGCCCTCTTGAGGGGA
CTTTTGGAGCTCCTATTGCCTAGAGAGACAGTGGCTGGGGCACTGAGGCGTCTGGGGGCCCCGAGGAGGAGGCAAA
GGGAGAAAGGGGCCTGGGCAACCCAGTTCCCCCTCAGCGCCTGGACCGGCTCTCCGGGTTGGCCGACCAGATGGTG
GCCCCGGGGCAACCTTGGTGTGTACCAGGAAACAAGGGAACGGTTGGCTATGCGTCTGAAGGGTTTGGGGTGTGAG
ACCCTAGGACCCCAACAATCCCACACCCCCACCCTCCCTGGACATGTTGCTGAGGAGTTGGCGGAGGAGGAACTG
GAGACCCCAACCCCTACCCAGAGAGGAGAAGCAGAGTCGCGGGGAGATGGTCTGGTGGATGTGATGTGGGAATAT
AAGTGGGAGAACACGGGGGATGCCGAGCTGTATGGGCCCTTACCAGCGCCAGATGCAGACCTGGGTGAGTGAA
GGCTACTTCCCGGACGGTGTATTGCGGGAAGCTGGACCCCCCTGGTGGTCAGTTCTACAACCTCCAAACGCATT
GACTTTGACCTCTACACCTTGAGGCCTGCTGGGGGCCCCAGTTTGGTGGGCCCTTCTTTCTGGACTTTGTGGAGGAG
GCACCAAGTGTCTCAGGCAGCGAGGAAATTGGAGGCCATTTTTCAGTCAATTTCCCTTTCCCAATAAAAAGCCTTT
AGTTGTGTAAAAAAAAAAAAAAAAA

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FIGURE 4424

MPKRKVTFGVGDEEDEDEIIVPKKKLVDPVAGSGGPGSRFKGKHSLSDEEEDDDDGGSSKYDILASEDVEGQE
AATLPSEGGVRITPFNLQEEMEEGHFDADGNYFLNRDAQIRDSWLDNIDWVKIRERPPGQRQASDSEEDSLGQT
SMSAQALLEGLLELLLPRETVAGALRRLGARGGGKGRKGPGQPSSPQRDLRLSGLADQMVARGNLGVYQETRERL
AMRLKGLGCQTLGPHNPTPPPSLDMFAEELAELEELETPPTQRGEAESRGDGLVDVMWEYKWENTGDAELYGPFT
SAQMOTWVSEGYFPDGVYCRKLDPPGGQFYNSKRIDFDLYT

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FIGURE 4425

AAACAGGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAGAGTTGTCCGCAGTGCCAAGGACAAGAGGTT
TGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAAGATTTCGTGATGTCACCAAGTGCCTGGAAGA
GTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGTGGACAAAAGAAGGTGTCCCCCGGTTCTATAT
CCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGAAGATAAGGAAGGGAAGAAGAAGATGAACAA
GAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAAATACAACCGTGATTTTCGAGTCCCATATCAC
AAGCTACAAGCAGAACCCCCGAGCAGTCTGCGGATGAAGATGCTGAGAAAAATGAGGAGGATTTCAGAAGGCTCTTC
AGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTTGAAGAAGAAATCAGAAGCTCCTTCTGGGGA
GAGTCGCAAGTTTCCTCAAAAAGATGGATGATGAAGATGAGGACTCAGAAGATTCCGAAGATGATGAAGACTGGGA
CACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGGGAAACAAACCGCGCTGGCCTCAAGATTTCT
TAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAAGAAACGGGAGGACAAAGCTAAGAAGAAGCA
CGACAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGAAGGCGGGAGTGGGAAAGGTCCGGGGCGG
AGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAGTGAATCAGGATGCTGTTGTTATCAAGAA
ACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAAGTGAATGCTGCTGCCCAGATTGAGCTGCTGCAACTGCT
GGTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCATTGTCAAGATCAAGTTCAATATCATCGCCTCTCT
CTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGATGTGGGGGAAGTGCCTGGACTGCATCAATGA
GCTGATGGATATCCTGTTTGCAAATCCCAACATTTTGTGGAGAGAATATTCTGGAAGAGAGTGAGAACCTGCA
CAACGCTGACCAGCCACTGCGTGTCGTTGGCTGCATCCTAACTCTGGTGGAACGAATGGATGAAGAATTTACCAA
AATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCACTTGAAGGATGAGGCCCAGGTGTGTGCCAT
CATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGAGGAGGTCTGCCGCATCTACCTGCTGCGCAT
CCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACAGCTGACCCCGCCTGAGGGCTCCTCAAAGGT
GAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTTGATGGAGAGACTGTGCAAGTACATCTACGCC
AAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCACATCTACCACCATGC

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FIGURE 4426

GGCCCTGCGGTGTGACTCGCGGGCTCAGCTGGTTGGTATTTTTTGGGCCTCGTGCTTCGTGGTGGGAGACCCAGG
TCGAGGTCCGGCCGTAGCACCTCCGCGCCGTGCCATGTGCGGGTTTTTCACCACCGGTTCCGACAGCGAGTCCG
AGTCGTCTTGTCCGGGGAGGAGCTCGTCAACAAACCTGTGCGAGGCAACTATGGCAAACAGCCATTGTTGCTGA
GCGAGGATGAAGAAGATACCAAGAGAGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTA
TCCGGACCATCCGTAATGCCATGAAGATTTCGTGATGTCACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAG
CATATGGGAAGGCCAAAAGCATTGTGGACAAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAG
AGGACTATCTTAATGAGCTTTGGGAAGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGA
GCACCTTGCGTCAGAAGATCCGAAAAATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCG
AGCAGTCTGCGGATGAAGATGCTGAGAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGG
ACGGAGTCAGTGCTGCAACTTTCTTGAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCCTCAAAA
AGATGGATGATGAAGATGAGGACTCAGAAGATTCGGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCG
ATTCCGACTCAGAGGAGGAAGAAGGGAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAG
ATGAGGACAAGAAGGCAGCCGAGAAGAAACGGGAGGACAAAGCTAAGAAGAAGCACGACAGGAAATCCAAGCGCC
TGGATGAGGAGGAGGAGGACAATGAAGGCGGGGAGTGGGAAAGGGTCCGGGGCGGAGTGCCGTGGTTAAGGAGA
AGCCAAAATGTTTGCCAAGGGAAGTGAATCACCCTGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGG
CACGAGGCAAGAAGGGAAGTATGCTGCTGCCAGATTGAGCTGCTGCAACTGCTGGTTCAGATTGCAGCGGAAA
ACAACCTGGGAGAGGGCGTCATTGTCAAGATCAAGTTCATATCATCGCCTCTCTCTATGACTACAACCCCAACC
TGGCAACCTACATGAAGCCAGAGATGTGGGGGAAGTGCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTG
CAAATCCCAACATTTTTGTTGGAGAGAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGC
GTGTCGCTGGCTGCATCCTAACTCTGGTGGAAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACC
CTCACTCCCAAGAGTACGTGGAGCACTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCT
ACCTGGAGGAGAAGGGCACTACCGAGGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGT
TTGATTACAAGGCCCATCAGCGACAGCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAA
ATGAGGGCGAGGACTCGGCTGTGTTGATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGA
TCCGCACATGTGCCATCCTCTGCCACATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCGCGACCTCA
TGCTCATGAGCCACTTGCAGGACAACATTTCAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGG
TGCAGCTGGGCATCTGTGCCCTTCCGCCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGA
GTGGCCGAGCCAAGGAGCTTCTGGGCCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGA
AGGTGGAGCGGCGCCGTACAGGTCCCTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGT
CTGCCATGCTCCTGGAGATCCCTTACATGGCCGCCCATGAGAGCGATGCCCCGCCGACGCATGATCAGCAAGCAGT
TCCACCACCAGCTGCGCGTGGGCGAGCGACAGCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTCCG
CTGCCTCCAAGGCCATGAAGATGGGTGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGA
AAGTGTGGGACCTTTTCCCCGAGGCTGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGA
GGACCTACCTCTTACCTACAGCAGTGTCTATGACTCCATCAGCATGGAGACGCTGTCAGACATGTTTGAGCTGG
ATCTGCCCCTGTGCACTCCATCATCAGCAAAATGATCATTAAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAA
CACAGACAGTGGTGTATGCACCGCACTGAGCCCACTGCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGG
GCAGCCTGGTGGAGAACAACGAACGGGTGTTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGA
AGGACGGCTACCGCAAAAACGAGGGCTACATGCGCCGCGGTGGCTACCGCCAGCAGCTCTCAGACGGCCTACT
GAGCTCTCACTCTGTTTCCCGCTGGGCCATCCAACCTTGAAGTCTAAACCACACCTCAGTCACTAAAGGTCT
GTTTAAAGTTGTTCTGGTTGATTGCTTGTGTCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATTTCT
GAGCTGCTACCACATGACAGACACAAGGCTCAGATGAAGAGGTGAATTGAACACGTTCTTGACCTC

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FIGURE 4427A

AGAGGAGCTTCTTAATAACTTTGCCAGCAAATAGGAGCCTGGAGATTCTGCCTGTACTTTCTCTCCAGCACTAG
GAATGACTATGTA**ATG**ATGTACAGTTTAACAGTTTTTGAGAATCTGATCAATAAAATGTGGCTTGGGGTCCCATC
TCAGGATAAGATGGAAATCCGTAGCTGTCTGCCCAAACCTCTTTTGGCTCACCATAAAACCTTACCTTACTTTAT
CCGGAACAAGCTCTGCAAAGTTATTGTTGATATTGGACGTCAGGATTGGCCCATGTTCTACCACGACTTTTTTAC
TAACATTTTACAGTTGATCCAGTCCCCTGTGACAACCCCCCTTGGGCTGATCATGTTGAAGACAACTTCAGAAGA
GCTGGCTTGTCCCCGTGAGGACCTCAGTGTGGCTCGGAAGGAGGAGTTGCGGAAGCTGCTACTGGACCAGGTGCA
GACAGTGCTTGGGCTACTGACAGGTATCTTGGAGACTGTCTGGGACAAACACAGTGTTACTGCTGCCACTCCACC
ACCATCCCCGACCTCAGGAGAAAGTGGTGACTTACTGAGTAACCTGTTGCGAGAGTCCCAGTTCAGCCAAACTGTT
GAATCAGCCAATTCCCATCCTTGATGTGGAGAGTGAGTATATCTGTTCCCTGGCTTTGGAGTGCCTGGCCCATCT
CTTCAGTTGGATTCTCTGTCTGCCAGCATACCCCATCCCTCCTTACCACCATCTTCCACTTTGCACGATTTGG
CTGTGACATCCGGGCCAGAAAGATGGCGTCAGTTAACGGCAGCAGCCAGAAGTGTGTCTCGGGTCAGGAGCGCGG
CCGGCTGGGGGTCTGGCCATGTCCTGCATCAATGAAGTCACTGTCCAAGAAGTGTGTGCCTATGGAATTTGAGGA
GTATTTACTGCGTATGTTCCAGCAGACTTTCTACCTCCTGCAGAAAATCACCAAGGATAACAATGCCACACAGT
GAAGAGCAGGCTAGAAGAGCTCGATGAGAGCTATATCGAGAAGTTTACTGACTTTCTTCGGCTCTTTGTGAGTGT
TCACCTAAGAAGAATCGAGTCTTACTCCCAGTTCCTGTGGTGGAGTTTTTGACACTTTTGTTCAGTACACATT
TCATCAGCCTACTCATGAAGGTTACTTCTCTTGTGTTGGATATCTGGACGCTGTTTTTGGACTATCTGACAAGTAA
AATTAAGAGTCGTCTTGGAGACAAGGAAGCAGTTCTCAACAGGTACGAAGATGCCCTGGTGCTCCTGCTCACAGA
GGTGTGTAATCGAATCCAGTTCAGATACAACCAAGCCAGCTGGAGGAGTTGGATGATGAGACTCTGGATGACGA
TCAGCAGACGGAGTGGCAGCGGTACTTACGGCAGAGCTTGGAGGTGGTGGCCAAAGTGATGGAGCTCCTGCCAC
GCACGCCTTCTCCACACTGTTCCCTGTTCTTCAGGACAATTTAGAAGTTTATTTGGGATTACAACAGTTTTATAGT
CACTTCAGGGTCAGGACACAGGTTGAACATCACGGCGGAGAACGACTGCCGGCGGCTGCCTGCTCCTGAGAGA
CTTGAGCTCCCTGCTGCAGGCCGTGGGCCGCCTGGCCGAGTACTTTATCGGGGATGTGTTTGCTGCACGGTTCAA
TGATGCCCTCACAGTCGTGGAAAGGTTGGTCAAAGTCACTCTGTACGGATCTCAGATAAAATTGTACAACATTGA
AACTGCTGTGCCATCAGTATTGAAACCTGACCTCATTGATGTGCATGCTCAGTCCCTGGCTGCGCTGCAGGCTTA
CTCTCACTGGTTAGCACAGTATTGCAGTGAAGTTACCGGCAGAACACGCAGCAGTTCTGACACTCATCTCTAC
TACCATGGATGCAATCACACCTCTAATCAGCACCAAGGTCCAAGACAAGCTGCTGCTATCTGCGTGCCACTTACT
GGTCTCACTGGCCACCACCGTGCGGCCCGTCTTTCTGATCAGCATCCCTGCAGTGCAGAAAGTATTCAACAGAAT
CACTGATGCCTCTGCCCTGCGACTTGTGATAAGGCCCAGGTGTTGGTGTGCCGAGCCCTCTCTAACATCTTGCT
GCTTCCGTGGCCAAACCTTCCAGAGAATGAGCAGCAGTGGCCCGTGCGCTCCATCAACCACGCCAGCCTCATCTC
TGCCTCTCCCGGGACTATCGCAACCTGAAGCCAGTGCTGTTGCCCCACAGAGAAAGATGCCACTGGATGACAC
CAAAGTATTATCCACCAGACACTCAGCGTCTTAGAAGATATTGTGGAGAATATCTCGGGGGAGTCCACCAAGTC
TCGACAGATTTGCTACCAAGTCGCTGCAGGAATCTGTTTCAAGTCTCCCTGGCCCTCTTTCCAGCTTTTATCCATCA
GTCAGATGTGACTGATGAGATGCTGAGCTTCTTCTCACTCTGTTTCGAGGCCTTAGAGTACAGATGGGTGTGCC
TTTCACTGAGCAAATCATACAGACTTTCCTCAACATGTTTACCAGAGAGCAGTTAGCCGAGAGCATCCTCCACGA
GGGCAGCACAGGCTGCCGGGTGGTGGAGAAGTTTCTGAAGATCCTGCAGGTGGTGGTCCAGGAGCCAGGCCAGGT
GTTCAAGCCCTTCTCCCCAGCATCATCGCCCTGTGCATGGAGCAAGTGATCCCATCATTGCCGAGCGTCCCTC
CCCTGATGTGAAGGCCGAGCTGTTTGAGCTCCTTTTCCGGACGCTCCATCACAACTGGAGGTACTTCTTCAAGTC
CACCGTGCTGGCCAGTGTCAGAGGGGGATCGCTGAGGAGCAGATGGAGAATGAGCCCCAGTTTCACTGCCATCAT
GCAGGCTTTTCGGACAGTCCCTTCTCCAGCCGACATCCACCTTTTTAAACAAAATCTCTTCTACTTGGAGACTCT
CAACACCAAGCAGAAGCTGTACCACAAGAAGATCTTCCGGACTGCCATGCTGTTCCAGTTTGTGAACGTGCTGCT
CCAGGTCTGGTCCACAAGTCCCATGATCTTCTGCAGGAGGAGATTGGCATCGCCATCTACAACATGGCCTCAGT
CGACTTTGATGGCTTCTTTGCCGCTTCTCTCCAGAGTTCCTGACCAGCTGTGATGGTGTGGATGCCAACCAGAA
AAGTGTGCTGGGGCGGAATTTCAAGATGGATCGGGACCTGCCCTCATTACCCAGAATGTGCACAGGCTGGTCAA
CGACCTGCGCTACTACAGACTCTGCAACGACAGCCTGCCCCCTGGCACTGTGAAGCTCT**TAGG**CCTGCTACTGCCT
GGGGACACGGACTTCTGCTGCTGCCACCTGCGCCAGCCCTACCTTCCACCACAGATGTCTCCAGATGGGCCTTG
GTCACACTCCTTGGCTTCTCCACCGCAAGCAACGCTGCCTGCCTCTGCCGCTCCTCCACATCTTGCCGCTGCCC
AGCAGAGCTGGCTTCTGGGTCCACCTGAGCACTGGACGGTGCTCCAGGGCGTTGGAGCAGGCGGAGGGGTGTGT
GGCCAGGTACTAGGAGGCACCAGGAAATCCCGCGGGGTGGCCCATGCAGACCAGGCGCACGTGGCTCATGGGGCA

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FIGURE 4427B

GAATTGCCAAGGACAGCTCACGACAGTGCCACCTTCTCACCATTCCAGCCAAGGAGAGATGTGACGTTGGAAGT
CTCTGGCACTTCTGTCAAGCCTCCCCGCCCCAATTGCCTTGAGATCTCTGCTCTTTGTCAGAGATTGCAAAGA
CTCACGTTTTTGTGTTTTCTCATCATTCCATTGTGATACTAAGAACTAAGAAGCTTAATGAAAAGAAATAAAA
TGCCTATGTTGTTGTTCTAG

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FIGURE 4428

MMYSLTVFENLINKMWLGVP SQDKMEIRSCLPKLLLAHHKTLPYFIRNKLCKVIVDIGRQDWPMFYHDFFTNIIQ
LIQSPVTTPLGLIMLKTTSEELACPREDLSVARKEELRKLLLDQVQTVLGLLTGILETVWDKHSVTAATPPPSPT
SGESGDLLSNLLQSPSSAKLLNQPIPIILDVESEYICSLALECLAHLFSWIPLSASITPSLLTTIFHFARFGCDIR
ARKMASVNGSSQNCVSGQERGLGVLAMSCINELMSKNCVPMEFEEYLLRMFQQTFYLLQKITKDNNNAHTVKSRL
EELDESYIEKFTDFLRFLVSVHLRRIESYSQFPVVEFLTLLFKYTFHQPTHEGYFSCLDIWTLFLDYLTSTIKSR
LGDKEAVLNRYEDALVLLLTEVLNRIQFRYNQAQLEELDDDETLDLDDQQT EWQRYLRQSLEVVAKVMELLPTHAFS
TLFPVLQDNLEVYLG LQQFIVTSGSGHRLNITAENDCRR LHCSLRDLSSLLQAVGRLAEYFIGDVFAARFNDALT
VVERLVKVTLYG SQIKLYNIETAVPSVLKPD LIDVHAQSLAALQAYSHWLAQYCSEVHRQNTQQFVTLISTTMDA
ITPLISTKVQDKLLLSACHLLVSLATTVRPVFLISIPAVQKVFN RITDASALRLVDKAQVLVCRALSNILLPLWP
NLPENEQQWPVRSINHASLISALSRDYRNKPSAVAPQRKMPLDDTKLI IHQTL SVLEDIVENISGESTKSRQIC
YQSLQESVQVSLALFP AFIHQSDVTDEMLSFFLT LFRGLRVQMGPVFTEQIIQTFLNMFTREQLAESILHEGSTG
CRVVEKFLKILQVVVQEPGQVFKPFLPSIIALCMEQVYPIIAERPSPDVKAELFELLFRTLHNNWRYFFKSTVLA
SVQRGIAEEQ MENEPQFS AIMQAFGQSFLQPD IHLFKQNL FYLET LNTKQKLYHKKIFRTAMLFQFVNVL LQVLV
HKSHDLLQEEIGIAIYNMASVDFDGFFAAFLPEFLTSCDGV DANQKSVLGRNFKMDRDLPSFTQNVHRLVNDLRY
YRLCNDSLPPGTVKL

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FIGURE 4429

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTCGCCATGTCGCGGTTTTTACCACCGGTTCCGGACAGCGAGTCCGAGTCGTCTTGTCCGGGGAGGAGCT
CGTCACCAAACCTGTCCGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTCTGTGATGTCACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAA
ATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCAGCAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGAAGGGTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAAGTATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCAATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTTGTTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCTGGCTGCATCCTAACTCT
GGTGAACGAATGGATGAAGAATTTACCAAATAATGCAAATACTGACCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTTCAGCATGCAGACCCGCCAGTGCGAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCGACACAACGCCCTGCTGGACATCCAGTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTCTGCTGCCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTCACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTCACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGAGACATGTTTGAGCTGGATCTGCCCACTGTGCACTCCATCAT
CAGCAAAATGATCATTAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCACTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCCTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCAATCATTGCTGATTATTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 4430A

ATGGACCAAGGCCCTTGGCGGTGCGTTGCGCATGCGCCCCGGGCGCCGCGACTGAAGTAGCAATGGACGCGCTG
GAGTCGTTGTTGGACGAAGTCGCTCTGGAGGGGCTCGATGGCCTGTGTCTGCCAGCGCTGTGGAGCCGGCTGGAG
ACGCGAGTGCCGCCCTTCCCCTGCGCTTTGGAACCTGACGACGAGGAGTTTCTCTGGCGGGCCCTCGCCACGCAC
CCGGGCATCAGCTTCTATGAGGAGCCTCGGGAGCGACCCGACCTACAGCTCCAGGACCGGTATGAAGAAATTGAT
TTGGAAACTGGAATTTTGGAGTCTAGGAGGGACCCGGTGGCTTTGGAGGATGTCTACCCCATTCATATGATCTTA
GAGAATAAGGATGGCATCCAGGGCTCATGCCGCTACTTTAAGGAGAGGAAAAACATTACCAATGACATCAGAACC
AAGTCCTTGCAGCCTCGCTGTACAATGGTGGAAGCCTTTGACAGGTGGGGGAAGAAACTGATCATCGTTGCCTCC
CAGGCCATGCGGTACAGGGCCTTGATAGGCCAGGAGGGGGATCCCCGACCTGAAGCTGCCCGACTTCTCCTACTGC
ATCCTGGAACGGCTAGGCCGGTCCAGGTGGCAAGGGGAGCTCCAGCGAGACCTTCACACCACTGCTTTCAAGGTT
GATGCTGGGAAGCTGCACTATCACAGAAAAATTTTGAACAAAAACGGGCTGATTACAATGCAGTCCCATGTGATC
CGATTACCCACTGGAGCCAGCAACACTCAATCCTCCTCCTACTGAACCGGTTTCATGTGGACAGGAGGAGCAAA
TACGACATCCTCATGGAGAAGCTTTCGGTCATGCTGAGCACACGGACTAACCACATAGAGACGCTGGGAAAGCTG
AGGGAAGAGCTGGGGCTGTGCGAAAGGACGTTTAAGCGTCTGTACCAGTATATGCTGAACGCCGGGCTAGCCAAG
GTGGTGTCTCTTCGCTTGCAAGAGATCCACCCTGAATGTGGACCTTGTAAAGACAAAGAAAGGGACCGACGTCATG
GTTCCGTGCTCAAGCTGCTGAAGGAATTTAAACGGAATGACCATGATGATGACGAGGACGAGGAGGTTCATCTCC
AAGACAGTGCCTCCAGTGGACATTGTGTTGAGCGGGATATGCTCACACAGACCTACGACCTCATTGAGCGCAGA
GGCACGAAAGGAATTTCCCAAGCTGAAATCCGAGTGGCTATGAATGTGGGAAAACCTAGAAGCAAGAATGCTGTGC
CGACTTCTTCAAAGATTCAAAGTTGTCAAGGGATTTCATGGAAGACGAAGGTCGGCAGCGAACCACCAAGTACATT
TCCTGCGTGTTCAGAGGAGAGCGACCTAAGCCGGCAGTACCAAAGAGAGAAGGCCCGCAGCGAGCTCTTGACC
ACCGTGAGCCTGGCGTCTATGCAGGAGGAGTCGCTTCTGCTGAAGCGAGGACACCTTCCTCTCTGAGTCGGAC
AGTGAGGAGGAGAGGAGCAGCAGCAAGCGGAGAGGCAGAGGGTCCCAGAAAGACACAAGAGCCTCTGCAAACCTC
CGGCCCAAGACCCAGCCTCATCACTCCACCCCAACCAAGGGTGGGTGGAAAGTTGTAAACCTACACCCATTGAAA
AAGCAGCCGCCCTCCTTCCCAGGAGCTGCTGAAGAGAGAGCCTGCCAGAGCCTTGCCAGCAGGGACAGCCTCTTA
GATACCAGCAGCGTCTCAGAACCCAAACGTGTCTTTGTCTCCCACTGTGCGGACAGCAACAGTGGTGACATAGCT
GTGATCGAGGAGGTCCGGATGGAAAACCCAAAGGAGAGTAGCAGTTCCCTGAAGACTGGGAGGCACAGCTCAGGC
CAAGACAAACCACAGAACTTACCGACTGCTGAAACGCAGGAATCTGATCATAGAAGCTGTACCAATCTTCGC
TTAATCGAGAGTTTATTACGATTTCAGAAGATGATCATGGATCAGGAGAAGCAGGAAGGCGTGTCCACCAAGTGC
TGCAAGAAGTCCATTGTCCGCTTGGTGCGGAACCTGTCTGAGGAAGGTCTCTTGCGATTGTATCGGACCACTGTC
ATTCAAGATGGCATCAAGAAGAAGGTGGATCTGGTGGTGACCCCGTCCATGGACCAGAACGACCCTCTAGTGAGA
AGTGCCATCGAGCAGGTCCGCTTCCGATCTCCAATTCAAGCACAGCCAACAGGGTTAAAACCTTCCAGCCTCCA
GTGCCCCAAGGGGAGGCAGAAGAAGACAGTCAAGGAAAAGAGGGCCCAAGTGGATCAGGGGACTCTCAGCTGAGT
GCTTCTCTAGATCAGAAAGTGGACGGATGAAAAAAGTGAATAAAATGGGCATAACCCCGCTTAGAAATTAT
CACCCCATTTAGTTCCCGACTGGGGCGTTCTCTAGGATTTCTGCCCAAATGCCTCGCCTGCGGGTGGTCCAC
ATGTTTCTGTGGTACCTCATCTACGGGCACCCTGCCAGCAACACCGTGGAGAAGCCAAGCTTCATCAGTGAACGG
AGAACGATAAAGCAGGAGTCAGGCAGGGCAGGCGTCCGGCCGTCTCTCTGGAAGTGCCTGGGAGGCCTGCTCT
GAAGCCCCATCTAAAGGCAGCCAAGATGGTGTACCTGGGAGGCTGAAGTGGAGCTTGCCACGGAGACAGTGTAT
GTCGACGATGCCTCGTGATGCGCTACATCCCCCAATCCAGTCCACAGGGACTTCGGCTTTGGCTGGGCTCTC
GTCAGCGACATCCTCCTCTGCCTTCCCCTCTCCATCTTCATCCAGATTGTGCAAGTCAGCTACAAGGTGGACAAC
CTGGAGGAATTTCTGAACGACCCGCTGAAGAAGCACACGCTGATCCGCTTTCTCCCCAGGCCCCATTCCGCAGCAG
CTTCTGTACAAGAGGCGTTACATTTTTTCCGTGGTGGAGAACCTTCAGAGGCTGTGCTACATGGGGCTGCTACAG
TTTGGTCCCACGGAAGGTTTCAGGATAAAGATCAGGTCCTTATCTTCTTGAAGAAGAATGCAGTCATTGTTGAC
ACTACCATCTGCGACCCACATTACAACCTGGCCCGCAGCAGCCGGCCCTTCGAGAGGCGCCTCTATGTCCTGAAC
TCAATGCAGGATGTGGAAAACCTACTGGTTTGACCTGCAGTGCCTCTGCCTCAACACCCCACTAGGCGTGGTGCGC
TGCCCGCGCGTCAGGAAGAAGCAGCAGCACAGACCAGGGCAGCGACGAGGAGGGCAGCCTGCAGAAGGAGCAGGAG
AGCGCCATGGACAAGCACAACCTGGAGCGCAAGTGCGCCATGCTGGAGTACACCACTGGAAGCCGTGAGGTGGTG
GATGAAGGCTTGATCCCTGGAGATGGGCTGGGTGCCGCAGGGCTCGATTCCAGCTTCTACGGACACCTCAAGCGC
AACTGGATCTGGACCAGCTACATCATCAACCAGGCCAAAAGGAGAACTGCCGCAGAGAATGGACTCACAGTG
AGGCTCCAGACATTTCTGTCCAAGCGCCCAATGCCCTCAGTGCCAGAGGCAACAGCAGGTTGAATATTTGGGGG

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FIGURE 4430B

GAAGCAAGAGTAGGCTCCGAGCTCTGTGCTGGCTGGGAAGAGCAGTTTGAGGTGGACCGAGAGCCCTCGCTGGAC
CGAAACCGGAGAGTGAGGGGTGGGAAAAGCCAGAAGCGGAAGCGGCTGAAGAAGGACCCTGGGAAGAAGATCAAG
AGAAAAGAAGAAAGGAGAGTTCCAGGAGAAAAAGCAAAGGCTGCGCTACCATGATGAAGCCGACCAGAGTGCC
CTGCAGCGGATGACGCGGCTTCGTGTACCTGGTCTATGCAGGAGGATGGGCTGCTTGTGCTGTGCCGCATTGCC
AGCAATGTCCTCAACACCAAGGTGAAGGGCCCCATTTGTCACCTGGCAGGTGGTACGGGACATTTTGCATGCCACG
TTTGAAGAGTCTTTGGATAAAACATCTCATTCCGTTGGACGAAGAGCTCGCTACATAGTCAAAAAACCCACAGGCC
TATCTCAACTATAAAGTGTGCCTGGCCGAGGTGTACCAGGATAAAGCACTTGTTGGAGATTTTCATGAATCGAAGA
GGTGACTIONGATGACCCAAAGGTTTGTGCCAACGAGTTTAAAGAATTTGTGGAGAAGCTTAAAGAAAAGTTTCAGT
TCAGCCCTAAGGAATTTCTAACCTTGAAATCCCAGACACACTCCAGGAGCTGTTCCGCCAGGTACCGAGTTTTGGCA
ATTGGGGATGAAAAAGATCAAACCAGGAAAGAGGATGAACCTAACAGCGTGGATGACATCCACTTTCTGGTGCTT
CAGAACCTGATCCAGAGCAGCTGGCCCTCTCAGACAGTCAGATGAAGTCCTACCAGTCATTCCAGACTTTCCGC
CTCTATCGGGAGTACAAGGACCACGTTCTTGTGAAGGCCCTTCATGGAGTGCCAGAAGAGGAGCTTGGTCAACCGG
CGCCGGGTCAACCACACGCTGGGCCCCAAGAAGAACCGGGCCCTCCCCTTCGTGCCAATGTCTTACCAGCTATCC
CAGACCTACTACAGGATTTTTACGTGGCGATTTCGAAGCACCATCTGCACGGAGTCATTCCAGTTTTTGGACAGA
ATGCGGGCTGCCGCAAGTTGGACCAGCCTGATCGTTTCTCTTTCAAAGACCAGGATAATAACGAGCCCAAAAC
GACATGGTGGCCTTTTCACTGGACGGCCCTGGAGGAAATTGTGTGGCCGTCCTGACCCTCTTCTCTCTGGGCCTC
ATTTCTGTGGATGTCAGGATCCCGGAGCAGATCATCGTGGTAGACAGCTCAATGGTGGAGAATGAGGTCATCAAA
AGCTTGGGGAAGGACGGCAGCCTGGAGGATGACGAGGATGAAGAGGATGACTTGGACGAAGGTGTAGGGGGCAAG
CGCCGGAGCATGGAGGTGAAACCTGCGCAAGCCTCCCACACCAACTACCTGCTGATGAGGGGCTACTACTCCCC
GGCATCGTCAGCACCCGCAACCTCAACCCCAACGACAGCATTGTGGTCAACTCCTGCCAGATGAAGTTCAGCTC
CGCTGCACCCCTGTGCCCGCCCGGCTCAGGCCCCGCTGCCGCTCCTCTGGAAGAGCTAACAAATGGGAACCTCCTGC
CTCCCTGATACGTTACCAAGCTGATAAAACCCCCAGGAAAACACCTGCAGCTTGGAGGAGTTTGTCTCTCAGCTG
GAGCTGTCTGGGTATAGTCCCGAAGACCTGACTGCTGCCTTGGAGATCTTGGAAAGCCATTATAGCCACGGGTTGT
TTTGGGATTGACAAGGAGGAGCTGCGCAGACGGTTCTCGGCCTTGGAGAAGGCAGGTGGTGGGCGCACCCAGGACA
TTCGCAGATTGCATCCAGGCCCTCCTGGAGCAGCATCAGGTGCTGGAGGTGGTGGCAACACTGCGCGCCTGGTA
GCCATGGGCTCTGCCTGGCCTTGGCTCCTGCACCTCCGTGCGGCTGAAAGACAGAGAAGACGCCGACATCCAGAGA
GAAGACCCCCAGGCCAGACCCCTGGAGGGGTCTTCCAGTGAGGACAGCCCCCGAGGGGCAGGCACCTCCTTCT
CACAGCCCCCGGGGCACCAAGAGGCGCGCCAGCTGGGCCAGTGAGAATGGGGAGACCGACGCCGAGGGCACCCAG
ATGACCCCTGCCAAGAGGCCAGCGCTCCAGGACTCAAATTTGGCCCCAGCCTTGGGCCCCGAGCTGAAGATGGG
GCAGAAGCCCAGGCCCATCTCCACCCCCAGCTCTTGAAGACACCGCTGCAGCGGGAGCAGCACAGGAAGACCAA
GAGGGTGTCTGGTGAGTTTCAGTTCCCCAGGCCAAGAGCAGCTGAGCGGCCAGGCGCAGCCTCCAGAGGGCTCTGAA
GACCCAGAGGGTTACAGAGAGTTTCGGAGCTGCCAACATCTCCAGGCAGCACGGGAAAGGGACTGTGAGAGT
GTCTGCTTCATCGGCCGCGCGTGGCGTGTCTGGATGGCCACCTGAACCTTCCGTGATGCAAGGGTATGATGGAG
GCCATGCTGTACACATCATGACCAGGCCTGGCATCCCCGAGAGCTCCCTGCTGCGCCACTACCAGGGGGTCTCTG
CAGCCCGTCTCGCGTGTCTGGAGTTGCTCCAGGGCCTGGAGTCCCTCGGCTGCATCCGGAAGCGCTGGCTGAGAAAG
CCAAGGCCTGTCTCGCTCTTCTCTACACCCGTGGTGGAAAGAGGTGGAAGTGCCCTCCAGCCTGGACGAGAGCCCC
ATGGCTTTCTATGAGCCACCTTGGACTGTACCTTCCGGCTGGGCGGTGTGTTCCCCCACGAGGTCAACTGGAAC
AAGTGGATCCACCTCTAGGACCCCTGTGGGCGTCCCTCCCTCCCAGCCACCGCCTGCCACACCACTCCTGCCTG
GTGCTCGGCAGACCCCACTGTGCCCTGGCCTTGGGTCTGCCGAGCCTCCTGCAGCAGGGGACGGGTGCTTTGGCC
AGAGTCACAGACTGACACGTTTCCCACTGTACTGGAACCTCTGGAAGAGGGGCTCCCCGACCTGCCCATCCCCA
GGCTCTTCTGGGCCTTCCCCCTGGGAACTGGCCTCATCACACTGGGAGTTGGTGTCTTCTGTCTCTGGGTCTCCA
GAGTTTGGCCCGCCTGTGCACACCTCACATTCAGACTCTAGCCATCTCGGCAGGATCTCCTGGCTCCTTGAGTG
CCCAGGTGCCACCAAGAGGAAGGGCCTTGTGGGATACACCTTGAGAATAGGGATCGGTGTGCCCGCTGCGAGG
GGCCCCCATGGGGCTGTGGCCCCCTCCGCAGGCAGGACATCCCAACCCCTGGCTGGGACTGAACCACCCAGAGC
GGAGCGGCTCCCTTTTTCAGCCTTGTGAGTCACCTGGCAGGCCCCAGCTGGGCTGGCTGTCCGTGTCCCTCAGCCT
GGCTGGTGATTCTTTCAGG

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FIGURE 4431

CGTATCCGCTAGCGCGGCCTGGGATGCGCTTGGGCTCCCTGTTTCGTTCCACATGCAGGGCAGCACAAAGGAGAAT
GGGCGTCATGACTGATGTCCACCGGCGCTTCCTCCAGTTGCTGATGACCCATGGCGTGCTAGAGGAATGGGACGT
GAAGCGCTTGACAGACGCACTGCTACAAGGTCCATGACCGCAATGCCACCGTAGATAAGTTGGAGGACTTCATCAA
CAACATTAACAGTGTCTTGGAGTCCTTGTATATTGAGATAAAGAGAGGAGTCACGGAAGATGATGGGAGACCCAT
TTATGCGTTGGTGAATCTTGCTACAACCTTCAATTTCCAAAATGGCTACGGATTTTGCAGAGAATGAACTGGATTT
GTTTAGAAAGGCTCTGGAAGTGAATTATTGACTCAGAAACCGGCTTTGCGTCTTCCACAAACATATTGAACCTGGT
TGATCAACTTAAAGGCAAGAAGATGAGGAAGAAGGAAGCGGAGCAGGTGCTGCAGAAAGTTTGTTCAAAACAAGTG
GCTGATTGAGAAGGAAGGGGAGTTACCCCTGCACGGCCGGGCCATCCTGGAGATGGAGCAATACATCCGGGAGAC
GTACCCCGACGCGGTGAAGATCTGCAATATCTGTACAGCCTCCTCATCCAGGGTCAAAGCTGCGAAACCTGTGG
GATCAGGATGCACTTACCCTGCGTGGCCAAGTACTTCCAGTCGAATGCTGAACCGCGCTGCCCCACTGCAACGA
CTACTGGCCCCACGAGATCCCAAAGTCTTCGACCCTGAGAAGGAGAGGGAGTCTGGTGTCTTGAAATCGAACAA
AAAGTCCCTGCGGTCCAGGCAGCATTAGCCATCGTGCCCTGCTGAGGGGCTGGCTGCCTTGAGTGGCCTGATCGC
CACAGCCCTTCTTGGAAGAAAGGCGTCCGTGTTTCAGGTTCCACGCGAGTCACCTCTTTCGTCTTAATGTTTACC
GTCCACAGCTTTGGAATAAACCATCCTGGG

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FIGURE 4432

GTCGTGATCAGACGAGCGGTGAGCGATCGATACTCCTATGCTAGCCTCTGGCTCCTCAGGGGACACAGCCGAGTG
GTCGGACCAAACGCAACGAGTCTTCGCCAGCCCAAAGGCGACTCGACACCGTCCCAGCTGAAGAGAGGCACGGGA
CTGAACCAGCTGGTGGTGGCCCG**ATG**GCTGGAGACACCCACTGCCCCGCAGAGCCCCTGGCCAGAGAAGGCACTT
TATGGGAGGCCCTCAGGGCGCTCCTGCCGCACAGTAAAGAAGACCTGAAGTTGGACCTCGGGGAGAAAAGTGGAGA
GGAGCGTGGTGACATTGTTGCAGCGAGCCACTGAGCTCTTCTACGAGGGCAGGAGGGACGAGTGTCTGCAGAGCA
GCGAGGTGATCCTGGACTACTCCTGGGAGAAGCTCAACACGGGCACATGGCAGGACGTAGACAAAAGACTGGCGCC
GGGTCTACGCCATCGGCTGCCTCCTGAAAGCCCTGTGTCTGTGCCAGGCACCTGAGGATGCCAAACACTGTGGCCG
CAGCCCTGCGGGTCTGTGACATGGGCCTGCTGATGGGGGCAGCCATCCTGGGGGACATCCTTCTTAAAGTCGCTG
CCATCCTCCAGACACACCTCCCTGGAAAGAGGCCTGCCCGTGGCTCCCTCCCAGAGCAACCCTGCACAAAGAAAG
CAAGGGCGGACCATGGTTTGGATTCCAGATGTGAAGTTAGAAAAACAGTCCCCCGGCTGCACCGTCCGTCCCTCC
AGCATTTTCAGGGAGCAGTTTTTGGTTCCAGGGAGGCCCGTGATCCTGAAAGGCGTGGCTGACCACTGGCCCGTGCA
TGCAGAAAGTGGAGTTTGGAGTATATCCAGGAGATCGCTGGCTGCCGAACCTGTCCCAGTGGAAGTTGGTTTCAGGT
ACACAGATGAGGAATGGTCCCAGACCCTCATGACGGTCAACGAGTTCATCAGCAAATACATCGTGAATGAGCCAA
GGGACGTGGGTACCTTGCTCAGCACCAGCTCTTTGACCAGATCCCGGAGTTGAAGCAGGACATCAGCATCCCCG
ACTACTGCAGCCTGGGCGATGGGGAGGAGGAGGAAATCACCATCAATGCCTGGTTTGGTCCCCAGGGAACCATCT
CCCCACTACATCAGGATCCCCAGCAAACTTCCTAGTGCAGGTGATGGGGAGGAAGTACATCCGGCTGTATTCCC
CGCAGGAGTCAGGGGCTCTGTACCCTCATGACACGCACCTTCTCCATAACACGAGCCAGGTTGACGTGGAGAATC
CCGACCTGGAAAAGTTCCCCAAGTTTGCCAAGGCCCCATTCTGTCTGTCATCCTGTCTCCTGGAGAGATCCTGT
TCATCCCGGTGAAATACTGGCATTACGTGCGGGCTCTGGATTTGAGCTTCTCGGTCAGCTTCTGGTGGT**CGTAGC**
CAGGATAGGAGCTGAAAGGGCCTGACATGCAGACAGCATTATCTGTTTACTAATTTCTGGGTCCTGGAATCTA
TAGAGACAAGCAGGACTGAACCTGTGTCCTGAAGAGCCTTCACTGCCCAGTGGCAGCCCTGGGGGGCTGAGCTCC
AGCACTGGACAGGCACAGAGCAGGGGCTGCCAGGAAGGAGCACACTCCAGGCCAGGGGTGCATGGCAGAGGAAG
GTGGGGAGAGCCAGAAGGACATTGCAGACAGACAGCCTGCATGGGGACTCTGGCATCAGAAAGCCGAATGTTTT
TGGGAAACGGGTGGGTACACAGGCAGGGGTGAAACATGGGCTCTGAGGTTGGCTACCTGATTCAAACCCGGCCG
CGCTGTGCACCTGCTGGGTGACTTGGCCAGGATCCCCACTTCGCTGTGCCCATATGGAAAAGAGGGCAAGGCCA
GTCCTCACTGCCGAGGGCCGAGAAGGCGGTGCCGAGCCCCTGCTGCTGCATGAACCTTAGCCGCTGTCACTGATC
CCAATTACTCTGATCCTTTTTGCCCTTCCTTCCCATAACGGCCTGCTGGACGCCACAGCCTGAATACTGGAGAGAG
CTGGGCATTGCCAGGTACAGGAGAGAGTCCGTAGAGACCTGCGCAGGAGCCGGGACCCCTGCTGAGCAGTGGG
AGCTTTCTGTCTATCCCCATGGCTCAAGGATAACCTACCTGCCTGCAGAGAAGTGCGAAGGTCTTGCTGGATGACT
TTTACCCGCACTCACCCAGGAGCAGGCTCCCAAGTGAAGAAACCACCGAACCATCACCAGCTCCTAGAAGCCTC
CCTCCTACCACCTTCTAGTCACCATCCCCAGAAGTAATGACTCTCAAACCTGGGGGATTTGAGGCCAGGGGGAG
AGCCAGGCTCTATGCTTTCTGTAATTGTGTCTCGTTTGTGTGCACGCAGGTTTGTGTTTATGTTTTGGCCATTAAG
ATTTTCCCCAGCCCTC

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FIGURE 4433

MAGDTHCPAEPLAREGTLWEALRALLP HSKEDLKLDLGEKVERSVVTLLQRATELFYEGRRDECLQSSEVILDYS
WEKLNTGTWQDVDDWRRVYAIGCLLKALCLCQAPEDANTVAAALRVCDMGLLMGAAILGDILLKVAAILQTHLP
GKRPARGSLPEQPCTKKARADHGLIPDVKLEKTVPRLHRPSLQHFREQFLVPGRPVILKGVADHWPCMQKSLEY
IQEIAGCRTVPVEVGSRYTDEEWSQTLMTVNEFISKYIVNEPRDVGYLEAQHQLFDQIPELKQDISIPDYCSLGDG
EEEEITINAWFGPQGTISPLHQDPQONFLVQVMGRKYIRLYSPQESGALYPHDTHLLHNTSQVDVENPDLEKFPK
FAKAPFLSCILSPGEILFIPVKYWHYVRALDLSFSVSFWWS

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FIGURE 4434

GAGCAGTGTGAAGAAGAGGCGAGAACGACCCCCAGACCGACCAAAGCCCGCGCGCCACTGCATCCCGCGTCCAGC
ACCTACGTCCTGCTGCCGTCGCCGCCACCACCATGCCCAACTAAAAAGGCCCTGCAAAGAAGGGAGAGAAGGTA
CCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGGAATAACCCTGCAGAAAATGGAGATGCCAAAACA
GACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGTGCATTTTTTGATAACTGTGTACTTCTG
GTGACTGTACAGTTTGGAACTACTATTTTTTATCAAGTTTTATAAAAATGTGGAATTTTGTTTTACTTTTTTTTTT
TTTTAAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCACCTAATAGA
ATGTCTCCAAAGCTGGATTGATGTGGAGAAAACACCTTTCCCTTCTAGTTTTTGAGAGACTTCCTCTTGGCTCCCA
GGAGGAGGGATTCCCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTTGGTATAGAAAGACAAATTT
GTTTTTATGTCTCTTCTCCCTTTCCATCTTTTCCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGAC
CTGACCCCTAGTCATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGT
CAAAGAGCAGTGGTTCCATTTCTAGATTGTGGATCTTCAGATAAAATCTGCCATTTTCAATTCCTTCTGAAA
GTCAGAGATGGCTTGTGTCCCTGTTTCCAGAGCATCAGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTT
TTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTTAACGATTGTCTGCCCATGTCTGCCTGA
AATACCATGATTGTTTATGGAAAGTATCTTTAATAAAGCTGGATACAG

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FIGURE 4435

GAAGAGGCGAGAACGACCCCCAGACCGACCAAAGCCGCGCGCCACTGCATCCCGCGTCCAGCACCTACGTCCTG
CTGCCGTCGCCGCCACCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGACTAAAAAGG
CCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGGAATAACC
CTGCAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGT
GCATTTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGGAATACTATTTTTTATCAAGTTTTATAAAAATG
TGGAATTTTGTTTTACTTTTTTTTTTTTTTAAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGTTTTTGG
GGGAAGGGGCATATGTCACATAATAGAATGTCTCCAAAGCTGGATTGATGTGGAGGATTCCCTGACTTTGACACAC
ATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAGACAAATT

FIGURE 4436

GTATTAGCTGCCAGGCTGTCCCCGCCCTGCCCGGCCCGAGCCCCGCGGGCCGCCGCCACCGCCGCCATGAA
GAAGCAGTTCAACCGCATGAAGCAGCTGGCTAACCAGACCGTGGGCAGAGCTGAGAAAAACAGAAGTCTTAGTGA
AGATCTATTACAGATTGAGAGACGCCTGGACACGGTGCAGTCAATATGCCACCATTCCCATAAGCGCTTGGTGGC
ATGTTTCCAGGGCCAGCATGGCACCGATGCCGAGAGGAGACACAAAAAACTGCCTCTGACAGCTCTTGCTCAAAA
TATGCAAGAAGCATCGACTCAGCTGGAAGACTCTCTCCTGGGGAAGATGCTGGAGACGTGTGGAGATGCTGAGAA
TCAGCTGGCTCTCGAGCTCTCCAGCACGAAGTCTTTGTTGAGAAGGAGATCGTGGACCCCTCTGTACGGCATAGC
TGAGGTGGAGATTCCCAACATCCAGAAGCAGAGGGAGCAGCTTGCAAGATTGGTGTTAGACTGGGATTTCAGTCAG
AGCCAGGTGGAACCAAGCTCACAAATCCTCAGGAACCAACTTTTCAGGGGCTTCCATCAAAAATAGATACTCTAAA
GGAAGAGATGGATGAAGCTGGAATAAAGTAGAACAGTGCAAGGATCAACTTGCAGCAGACATGTACAACCTTTAT
GGCCAAAGAAGGGGAGTATGGCAAATTCCTTTGTTACGTTATTAGAAGCCCAAGCAGATTACCATAGAAAAGCATT
AGCAGTCTTAGAAAAGACCCTCCCCGAAATGCGAGCCCATCAAGATAAGTGGGCGGAAAAACCAGCCTTTGGGAC
TCCCCTAGAAGAACACCTGAAGAGGAGCGGGCGGAGATTGCGCTGCCCATGAAGCCTGTGTATGCTGCTTCT
GGAGACAGGCATGAAGGAGGAGGGCCTTTTCCGAATTGGGGCTGGGGCTCCAAGTTAAAGAAGCTGAAAGCTGC
TTTGGACTGTTCTACTTCTCACCTGGATGAGTTCTATTAGACCCCCATGCTGTAGCAGGTGCTTTAAATCCTA
TTTACGGGAATTGCCTGAACCTTTGATGACTTTTAATCTGTATGAAGAATGGACACAAGTTGCAAGTGTGCAGGA
TCAAGACAAAAAATTCAAGACTTGTGGAGAACATGTCAGAAAGTTGCCACCACAAAATTTTGTAACTTTAGATA
TTTGATCAAGTTCCTTGCAAAGCTTGCTCAGACCAGCGATGTGAATAAAATGACTCCAGCAACATTGCGATTGT
GTTAGCCCCTAACCTTGTTATGGGCCAGAAACGAAGGAACACTTGCTGAAATGGCAGCAGCCACATCCGTCCATGT
GGTTGCAGTGATTGAACCCATCATTAGCATGCCGACTGGTTCTTCCCTGAAGAGGTGGAATTTAATGTATCAGA
AGCATTGTACCTCTCACCACCCCGAGTTCTAATCACTCATTCACACTGGAAACGACTCTGACTCGGGGACCCT
GGAGAGGAAGCGGCCTGCTAGCATGGCGGTGATGGAAGGAGACTTGGTGAAGAAGGAAAGTCTCCCAAACCGAA
GGACCCCTGTATCTGCAGCTGTGCCAGCACCAGGGAGAAAAACAGTCAGATAGCATCTGGCCAAAATCAGCCCCA
GGCAGCTGCTGGCTCCCACCAGCTCTCCATGGGGCAAACCTCACAAATGCTGCAGGGCCCAGCCCGCATACACTGCG
CCGAGCTGTTAAAAAACCCTCCAGCACCCTCCGAAACCGGGCAACCCACCTCCTGGCCACCCCGGGGGCCAGAG
TTCTTTAGGAACATCTCAGCATCCACCCAGTCTGTACCAAAGCCACCCACCCGAAGCCCCCTCTCCTCCCACCCA
GCACACGGGGCCAGCCTCCAGGCCAGCCCTCCGCCCTCCAGCTCTCAGCACCCCGGAGGTACTCCAGCAGCTT
GTCTCCAATCCAAGCTCCCAATCACCACCCGCCGAGCCCCCTACGCAGGCCACGCCACTGATGCACACCAAACC
CAATAGCCAGGGCCCTCCCAACCCCATGGCATTGCCAGTGAGCATGGACTTGAGCAGCCATCTCACACCCCTCC
CCAGACTCCAACGCCCCCAGTACTCCGCCCTTAGGAAAACAGAACCCAGTCTGCCAGCTCCTCAGACCCCTGGC
AGGGGGTAACCCCTGAAACTGCACAGCCACATGCTGGAACCTTACCGAGACCGAGACCAGTACCAAAGCCAAGGAA
CCGGCCCAGCGTGCCCCACCCCCCAACCTCCTGGTGTCCACTCAGCTGGGGACAGCAGCCTCACCAACACAGC
ACCAACAGCTTCCAAGATAGTAACAGACTCCAATTCCAGGGTCTCAGAACCGCATCGCAGCATCTTTCTGAAAGT
GCACTCAGACTCAGCCAGCAAAGACGTGCCTGGCCGCATCCTGCTGGATATAGACAATGATACCGAGAGCACTGC
CCTGTGAAGAAAGCCCTTTCCAGCCCTCCACCACTTCCACCCTGGCGAGTGGAGCAGGGGCAGGCGAACCTCTT
TCTTTGCAGACCGAACAGTGAAAAGCTTTTCACTGGAGGACAAAGGAGGGCCTCACTGTGTGGGACCTGGCCTTCT
GCACGGCCCCAAGGAGAACCTGGAGGCCACCACTAAAGCTGAATGACCTGTGTCTTGAAGAAGTTGGCTTTCTTTA
CATGGGAAGGAAATCATGCCAAAAAAATCCAAAACAAAGAAGTACCTGGAGTGGAGAGAGTATTCTGTCTGAAAC
GCGCATAGGAAGCTTTTGTCCCTGCTGTTAATGCGGGCAGCACCTACAGCAACTTGAATGAGTAAGAAGCAGTG
CGTTAACTATCTATTTAATAAAATGCGCTCATTATGCAAGTCGCCTACTCTCTGCTACCTGGACGTTTCTTTA
TGTATTAGGAGGGAGGCTGCGCTCCTTCAGACTTGCTGCAGAAATCATTTTGTATCATGTATGGTCTGTGTCTCCC
CAGTCCCCTCAGAACCATGCCCATGGATGGTGACTGCTGGCTCTGTACCTCATCAAACCTGGATGTGACCCATGC
CGCCTCGTTGGATTGTGCGAATGTAGACAGAAATGTACTGTTCTTTTTTTTTTTTTTAAACAATGTAATTGCTAC
TTGATAAGGACCGAACATTATTCTAGTTTTCATGTTTAATTGAAATTAATATATTCTGTGGTTTATATG

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FIGURE 4437

MKKQFNRMKQLANQTVGRAEKTEVLSEDLLQIERRLDTVRSICHHSHKRLVACFQGQHGTDAERRHKKLPLTALA
QNMQEASTQLEDSSLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQKQREQLARLVLDWDS
VRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAGEGEYGKFFVTLLAQADYHRK
ALAVLEKTLPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLK
AALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFNLYEWTQVASVQDQDKKLQDLWRTCQKLPPQNFVNF
RYLIKFLAKLAQTSNVNKMTPSNIAIVLAPNLLWARNEGTLAEMAAATSVHVAVIEPIIQHADWFFPEEVEFNV
SEAFVPLTTPSSNHSFHTGNDSDSGTLERKRPASMAVMEGDLVKKESPPPKPKDPVSAAVPAPGRNNSQIASGQNO
PQAAAGSHQLSMGQPHNAAGPSPHTLRRVKKPAPAPPKPGNPPGHPGGQSSSGTSQHPPSLSPKPPTRSPSP
TQHTGQPPGQPSAPSQLSAPRRYSSSLSPIQAPNHPPPQPPTQATPLMHTKPN SQGPPNPMALPSEHGLEQPSHT
PPQTPTPPSTPPLGKQNPSPAPQTLAGGNPETAQPHAGTLPRPRVPKPRNRPSVPPPPQPPGVHSAGDSSLTN
TAPTASKIVTDSNSRVSEPHRSIFPEVHSDSASKDVPGRILLDIDNDTESTAL

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FIGURE 4438A

GAAACCTCTAGGTCCACCACCTCCATCTTACACGTGTTTCCGTGTGGTAAACCTGGACATTATATTAAGAATTG
CCCAACAAATGGGGATAAAAACTTTGAATCTGGTCCTAGGATTAAGAGAGCACTGGAATTTCCAGAAGTTTCAT
GATGGAAGTGAAAGATCCTAATATGAAAGGTGCAATGCTTACCAACACTGGAAAATATGCAATACCAACTATAGA
TGCAGAAGCATATGCAATTGGGAAGAAAGAGAAACCTCCCTTCTTACCAGAGGAGCCATCTTCTTCCCTCAGAAGA
AGATGATCCTATCCCAGATGAATTGTTGTGTCTCATCTGCAAGGATATTATGACTGATGCTGTTGTGATTCCCTG
CTGTGGAAACAGTTACTGTGATGAATGTATAAGAACAGCACICCTGGAATCAGATGAGCACACATGTCCGACGTG
TCATCAAAATGATGTTTCTCCTGATGCTTTAATTGCCAATAAATTTTACGACAGGCTGTAAATAAATTCAA
TGAAACTGGCTATACAAAAAGACTACGAAAACAGTTACCTCCTCCACCACCCCAATACCACCTCCGAGACCACT
GATTCAGAGGAACCTACAACCTCTGATGAGATCTCCGATATCAAGACAACAAGATCCTCTTATGATTCCAGTGAC
ATCTTCATCAACTCACCAGCTCCGTCTATATCTTCATTAACCTTCTAATCAGTCTTCTTGGCCCCCTCCTGTGTC
TGGAATCCGTCTTCTGCTCCAGCTCCTGTACCTGATATAACTGCAACAGTATCCATATCAGTTCATTTCAGAAAA
ATCAGATGGACCTTTTCGGGATTCTGATAATAAAATATTGCCAGCTGCAGCTCTTGCATCAGAGCACTCAAAGGG
AACCTCCTCAATTGCAATTACCGCTCTTATGGAAGAGAAGGGTTACCAGGTGCCTGTTCTTGAACCCCATCTTT
GCTTGGACAGTCATTATTGCATGGACAGTTGATCCCCACAACCTGGTCCAGTAAGAATAAATACTGCTCGTCCAGG
TGGTGGTCGACCAGGCTGGGAACATTCCAACAACTTGGCTATCTGGTTTCTCCACCACAACAAATTAGAAGAGG
GGAGAGGAGCTGCTACAGAAGTATAAACCGTGGGCGACACCACAGCGAAAGATCACAGAGGACTCAAGGCCCGTC
ACTACCAGCAACTCCAGTCTTTGTACCTGTTCCACCACCTCCTTTGTATCCGCCTCCTCCCATACACTTCTCTCT
CCCTCCGGGTGTTCTCCTCCACAGTTTTCTCCTCAGTTTCTCCTGCGCCAGCCACCACCCGCTGGGTATAGTGT
CCCTCCTCCAGGGTTTCTCCTCAGCTCCTGCCAATTTATCAACACCTTGGGTATCATCAGGAGTGCAGACAGCTCA
TTCAAAATACCATCCCAACAACACAAGCACCACCTTTGTCCAGGGAAAGATTCTATAGAGAGCAGCGACGACTAAA
AGAAGAGTCTAAATCTCCCTATAGTGGTCTTTCGTATTCAAGAAAGTTCATATACTTATTCTAAATCAAGATCTGG
TTCAACACGTTACAGCTCTTATTCTCGATCATTACAGCCGCTCACATTCTCGTTCTTACGGTCCACTCCATA
CCCCAGAAGAGGCAGAGGCCAAGAGCCGCAATTACCGTTACAGGTCATAGATCTCATGGATATCATCGATCTAGGTC
AAGGTACCCCCCTTACAGACGCTATCATTACAGATCAAGATCTCCTCAAGCGTTTAGGGGACAGTCTCCTAATAA
ACGTAATGTACCTCAAGGGGAAACAGAACGTGAATATTTAATAGATACAGAGAAGTTCACCACCATATGACAT
GAAAGCATATTATGGGAGAAAGTGTGACTTTAGAGACCCATTTGAAAAAGAACGCTACCGAGAATGGGAGAGAAA
ATATAGAGAGTGGTATGAAAAATATTATAAAGGTTATGCTGCTGGAGCACAGCCTAGACCCTCAGCAAAATAGAGA
GAACTTTTCTCCAGAGAGATTTTGGCACTTAACATCAGGAATTCTCCCTTCACAAGAGGCCGAGAGAAGACTA
TGTTGGTGGGCAAGTCATAGAAGTCGAAACATAGGTAGCAACTATCCAGAAAAGCTTTCAGCAAGAGATGGTCA
CAATCAGAAGGATAATACAAAGTCAAAAGAGAAGGAGAGTGAAAACGCTCCAGGAGATGGTAAAGGAAATAAGCA
TAAGAAACACAGAAAAAGAGAAAAGGGGAGGAAAGTGAGGGTTTTCTGAACCCAGAGTTATTAGAGACTTCTAG
GAAATCAAGAGAACCTACAGGTGTTGAAGAAAATAAAACAGACTCATTGTTGTTCTCCCAAGTAGAGATGATGC
CACACCTGTTAGAGATGAACCAATGGATGCAGAATCAATCACTTTTAAATCAGTGTCTGAAAAAGACAAGAGAGA
AAGGGATAAACCAAAAGCAAAGGGTGATAAAACCAAACGGAAGAATGATGGATCTGCTGTGTCCAAAAAGAAAA
TATTGTAAAACCTGCTAAAGGACCCCAAGAAAAAGTAGATGGAGAACGTGAGAGATCTCCTCGATCTGAACCTCC
AATTAAGAAAGCCAAAGAGGAGACTCCGAAGACTGACAATACTAAATCATCATCTTCTCCTCAGAAAGGATGAAAA
AATCACTGGAACCCCAAGAAAGCTCACTCTAAATCAGCAAAAGAACCAAGAAACAAAACCAAGTCAAAGAGGA
AAAAGTGAAGAAGGACTATTCCAAAGATGTCAAATCAGAAAAGCTAACAACTAAGGAAGAAAAGGCCAAGAAGCC
TAATGAGAAAAACAAACCACTTGATAATAAGGGAGAAAAAGAAAAAGAAAAACTGAAGAAAAAGGCGTAGATAA
AGATTTTGAGTCTTCTTCAATGAAAACTCGAACTAGAAGTGAAGTGAATAGTGAAACCATCACCAAGCGCAA
AATGGAACCTGATACTGAAAAATGGATAGGACCCCTGAAAAGGACAAAAATTTCTTTAAGTGCGCCAGCCAAAA
AATCAAACTCAACAGAGAACTGGGAAGAAAATTGGAAGTACAGAAAAATATATCAAAACAAAAAGAACCTCTGA
AAAATTGGAGTCAACATCTAGCAAAAGTTAAACAAGAAAAAGTCAAAGGAAAGGTCAGACGAAAAGTGAAGTGAAC
TGAAGGATCCAGCTCAACTCTGGTGGATTACACCAGTACGAGCTCAACTGGAGGCAGTCTGTGCGGAAATCTGA
AGAAAAACAGATACAAAGCGAACTGTGATTAAACGATGGAAGAATATAATAATGACAATACCGCGCCAGCTGA
AGATGTTATCATTATGATTACAGGTTCTCCTCAATCCAAATGGGATAAAGATGACTTTGAATCTGAAGAAGAAGATGT
TAAATCCACACAGCCTATATCAAGTGTAGGAAAACCTGCTAGTGTTATAAAAAATGTTAGTACAAAGCCATCAAA
TATAGTCAAGTATCCTGAGAAAGAAAGTGAGCCATCCGAGAAAATTCAGAAATTCACCAAGGACGTGAGCCATGA

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FIGURE 4438B

AATCATACAACATGAGGTTAAAAGTTCAAAAACTCTGCATCTAGTGAAAAAGGGAAAACCAAAGATCGAGATTA
TTCAGTGTGGAAAAGGAGAACCCTGAAAAGAGGAAGAACAGCACTCAGCCAGAGAAAAGAGAGTAATTTGGACCG
TCTGAATGAACAAGGAAATTTTAAAAGTCTGTCTCAATCTTCCAAAGAGGCTAGAACGTCAGATAAACATGATTC
CACTCGTGCTTCCTCAAATAAAGACTTCACTCCCAATAGAGACAAAAAACTGACTATGACACCAGAGAGTATTC
AAGTTCCAAACGTAGAGATGAAAAGAATGAATTAACAAGACGAAAAGACTCTCCTTCTCGGAATAAAGATTCTGC
ATCTGGACAGAAAAATAAACCAAGGGAAGAGAGAGATTTGCCTAAAAAAGGAACAGGAGATTCCAAAAAAGTAA
TTCTAGTCCCTCAAGAGACAGAAAACCTCATGATCACAAAGCCACTTATGATACTAAACGGCCAAATGAAGAGAC
AAAATCTGTAGATAAAAAATCCTTGTAAGGATCGTGAGAAGCATGTATTAGAAGCAAGGAACAATAAAGAGTCAAG
TGGCAATAAACTACTTTATATACTTAACCCACCAGAGACACAGGTTGAAAAAGAGCAAATTACTGGGCAAATTGA
CAAGAGTACTGTCAAGCCTAAACCCCAGTTAAGTCATTCTCTAGACTTTCTCTGACTTAACTAGAGAACTGA
TGAAGCTGCTTTTGAACCAGACTATAATGAAAGTGACAGTGAAAGTAATGTTTCTGTAAAAGAAGAGGAATCTTC
AGGAAACATTTCTAAGGACCTGAAAGATAAAATAGTGGAGAAAGCAAAGAGAGCCTGGACACAGCAGCAGTTGT
CCAGGTGGGCATAAGCAGGAATCAGAGCCACAGCAGCCCCAGCGTCAGCCCCAGCAGAAGCCACAGTCCTTCTGG
AAGCCAGACCCGAAGCCACAGTAGCAGTGCCAGCTCAGCAGAAAGTCAGGACAGCAAGAAGAAGAAGAAAAAGAA
GGAAAAGAAAAAACACAAGAAACATAAAAAAGCATAAGAAGCATAAGAAACATGCAGGCACTGAAGTGGAATTGGA
AAAAAGCCAAAAACACAAACACAAGAAAAAGAAGTCAAAGAAGAACAAGATAAAGAGAAGGAGAAGGAGAAAGA
TGACCAAAAAGTGAAATCTGTCACTGTGTAAAAAGACAGATTTTTTAAATTGACTTAATTACTAAGTCATCTGTA
TTAAATTTTGTTATAATGTAAAGAGATTCAAGCCTTGTAATAATGACATGGAAGACCTGTGCTGCACTTAAAA
TATTGCTGCTTGATTATTTGATTTTTACATCAGAGCTTTATAACACGAACTTTTGTACAGAATTGTGAGTTGTGA
CCATGTAACATGAGAGGTTTTGCTAGGGCCTATTATTTTTAACCACCATTAATTAGTTGGGGTGGAGTTTACTGT
AATGTGAAATTTTACATTTGAATTTTTTAATTGCCTGGCAAAGCTGATATAAGTTCTAAAATATCAGCAGAAT
GATTTGCTGAATTCATTACAACCCTGTTATGTCACTTTTTGATTACAATAAAAGTTTTTCAGTAACTTTTC

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FIGURE 4439

MATTKAIDSSASISLAQLTKTANLAEANASEEDKIKAMMSQSGHEYDPINYMKKPLGPPPPSYTCFRCGKPGHY
IKNCPTNGDKNFESGPRIKKSTGIPRSFMMEVKDPNMKGAMLTNTGKYAIPTIDAEAYAIGKKEKPPFLPEEPSS
SSEEDDPIPELLCLICKDIMTDAVVIPCCGNSYCDCEIRTALLESEHTCPTCHQNDVSPDALIANKFRLQAVN
NFKNETGYTKRLRKQLPPPPPIPPPRPLIQRNQLPLMRSPISRQQDPLMIPVTSSSTHPAPSISSLTSNQSSLA
FPVSGNPSSAPAPVPDITATVSISVHSEKSDGPFPRSDNKLPAALASEHSKGTSSIAITALMEEKGYQVPVLG
TPSLLGQSLLHGQLIPTTGPVRINTARPGGGRPGWEHSNKLGYLVSPPPQIIRRGERSCYRSINRGRHHSERSQRT
QGPSPATPVFVPVPPPPPLYPPPPHTLPLPPGVPPPPQFSPQFPFPQPPAGYSVPPPGFPPAPANLSTPWVSSGV
QTAHSNTIPTTQAPPLSREEFYREQRLKEESKSPYSGSSYSRSSYTYSKSRSGSTRSRYSRSFSRSHSRYSR
SPPYPRRGRGKSRNYSRSHGYHRSRSPPYRRYHRSRSPQAFRGQSPNKRNVQGETEREYFNRYREVPP
PYDMKAYYGRSVDFRDPFEKERYREWERYEWYKYYKGYAAGAQRPSANRENFSPERFLPLNIRNSPFTTRGR
REDYVGGQSHRSRNIHSNYPEKLSARDGHNQKDNTKSKEKESENAPGDGKGNKHKHKKRKRKGESESEGLNPELL
ETSRKSREPTGVEENKTDLSFVLP SRDDATPVRDEPMDAESITFKSVSEKDKREDDKPKAKGDKTKRNDGSAVS
KKENIVKPAKGPQEKVDGERERSRSEPPIKKAKEETPKTDNTKSSSSSQKDEKITGTTPRKAHKSASKEHQETKP
VKEEKVKKDYSKDVKSEKLTTEKAKKPKNEKNKPLDNKGEKRRKTEKGVDDKDFESSMKISKLEVTEIVKPS
PKRKMEDTEKMDRTPEKDKISLSAPAKKIKLNRETGKKIGSTENISNTKEPSEKLESTSSKVKQEKVKGVRRK
VTGTEGSSSTLVDTSTSTSGSPVRKSEKTDTKRTVIKTMEEYNNNDNTAPAEDVIIMIQVPQSKWDKDDFESE
EEDVKSTQPISSVGKPASVIKNVSTKPSNIVKYPEKESEPSEKIQKFTKDVSHI IQHEVKSSKNSASSEKGTK
DRDYSVLEKENPEKRNSTQPEKESNLDRLEQGNFKSLSSQSSKEARTSDKHDSTRASSNKDFTPNRDKKTDYDT
REYSSSKRRDEKNELTRRKDSPSRNKDSASGQKNKPREERDLPPKGTGDSKKSNSSPSRDRKPHDHKATYDTRP
NEETKSVDKNPCKDREKHVLEARNNKESGKNLLYILNPPETQVEKEQITGQIDKSTVKPKPQLSHSSRLSSDLT
RETDEAAFEPDYNESDSESNVSVKEEESGNISKDLKDKIVEKAKESLDTAAVVQVGISRNSHSSPSVSPSRSH
SPSGSQTRSHSSASSAESQDSKKKKKKKKEKKKKKKKKKKKKKKHAGTEVELEKSQKHKKKKKKSKKNKDKEKE
KEKDDQKVKSVTV

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FIGURE 4440

TGACATTGTGCCCCGTTGGCGGATTCTCGATTTCCCCTCTTCCCCGTCCTCGTCCTCCTCCTCCCCATGAAGTGA
TTCTGAGTATCGGGGGTCTCTGGATTATTGTTCTGACGAACCCCTGCTTGTGGTTGGGGGGTATTTAATCTGAG
GCCTTAGGGTCCTTCGGTGTCTTTGAGTGTGTTGTGTGTACATATTTTACTCTTAAAGTTTATAAATATACGTAT
ATTGAGAGTGTCCACGTCTCCTCGCTGAACCTTAGGAATCCCTTGGCACCATGTCCTGTGTGCATTATAAATTTT
CCTCTAAACTCAACTATGATAACCGTCACCTTTGATGGGCTCCACATCTCCCTCTGCGACTTAAAGAAGCAGATT
TGGGGAGAGAGAAGCTGAAAGCTGCCGACTGCGACCTGCAGATCACCAATGCGCAGACGAAAGAAGGTAAGGGCC
GCTTGGTCTTAAGATATTTGGTGGCTGGAGAGAGATACTAGCTAGAAGGTGCCTGGCAGGAAGCTAACCGCCATT
ATGTCCTAGTGGGGACTGTTTCGTTCTAGTACTTTGGATACAACCTTTCATTGATAGCCAAGGTTTGCAGCAGTTG
GCCTTGGAGTTTCACTGGTTTATTTTATTTCTGCATACCTGGGTCACTCTGTAACAGGCTAACCCAAAACGTGGAA
GCCTGATTATTCTTCTCGCTGTTTTTTAAAATGAGGGAGGGAGGAGAGGGGGATAGCTATCTAGACTCTTTGAGT
GCTTGTCTTAGGGCGTTTTCTAACTTATTTTCCATCAGGAGGGCAGGAGAGCCTGTGCAAAGCTTGTGTTGTTCAA
TCAGC

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FIGURE 4441

MSCVHYKFSSKLNVDTVTFDGLHISLCDLKKQIMGREKLKAADCDLQITNAQTKEGKGRVLRLRYLVAGERY

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FIGURE 4442

GGCACGAGGGAGCGGTGCGGAGGCTCTGCTCGGATCGAGGTCTGCAGCGCAGCTTCGGGAGC**ATG**AGTGCTGCAG
TGACTGCAGGGAAGCTGGCACGGGCACCGGCCGACCCTGGGAAAGCCGGGGTCCCCGGAGTTGCAGCTCCCGGAG
CTCCGGCGGGCGGCTCCACCGGCAGAAAGAGATCCCGGAGGTCCTAGTTGGACCCACGCAGCCGGCGGGCGCTATGTGC
GGGGCCGCTTTTTGGGCAAGGGCGGCTTTGCCAAGTGCTTCGAGATCTCGGACGCGGACACCAAGGAGGTGTTTCG
CGGGCAAGATTGTGCCTAAGTCTCTGCTGCTCAAGCCGCACCAGAGGGAGAAGATGTCCATGGAAATATCCATT
ACCGCAGCCTCGCCACCAGCACGTCTGATGATTCCACGGCTTTTTTCGAGGACAACGACTTCGTGTTTCGTGGTGT
TGGAGCTCTGCCGCCGGAGGTCTCTCCTGGAGCTGCACAAGAGGAGGAAAGCCCTGACTGAGCCTGAGGCCCGAT
ACTACCTACGGCAAATTGTGCTTGGCTGCCAGTACCTGCACCGAAACCGAGTTATTCATCGAGACCTCAAGCTGG
GCAACCTTTTTCTGAATGAAGATCTGGAGGTGAAAATAGGGGATTTTGGACTGGCAACCAAGTCGAATATGACG
GGGAGAGGAAGAAGACCCTGTGTGGGACTCCTAATTACATAGCTCCCGAGGTGCTGAGCAAGAAAGGGGCACAGTT
TCGAGGTGGATGTGTGGTCCATTGGGTGTATCATGTATACCTTGTTAGTGGGCAAACCACCTTTTGAGACTTCTT
GCCTAAAAGAGACCTACCTCCGGATCAAGAAGAATGAATACAGTATTCCTCAAGCACATCAACCCCGTGGCCGCT
CCCTCATCCAGAAGATGCTTCAGACAGATCCCACTGCCCCGCAACCATTAACGAGCTGCTTAATGACGAGTTCT
TTACTTCTGGCTATATCCCTGCCCCTCTCCCCATCACCTGCCTGACCATTCCACCAAGGTTTTTCGATTGCTCCCA
GCAGCCTGGACCCAGCAACCGGAAGCCCCCTCACAGTCTCAATAAAGGCTTGGAGAACCCCTGCCTGAGCGTC
CCCGGAAAAAGAAGAACCAGTGGTTCGAGAGACAGGTGAGGTGGTCGACTGCCACCTCAGTGACATGCTGCAGC
AGCTGCACAGTGTCAATGCCTCCAAGCCCTCGGAGCGTGGGCTGGTCAGGCAAGAGGAGGCTGAGGATCCTGCCT
GCATCCCCATCTTCTGGGTGAGCAAGTGGGTGGACTATTCGGACAAGTACGGCCTTGGGTATCAGCTCTGTGATA
ACAGCGTGGGGGTGCTCTTCAATGACTCAACACGCCTCATCCTCTACAATGATGGTGACAGCCTGCAGTACATAG
AGCGTGACGGCACTGAGTCTACCTCACCGTGAGTTCCCATCCCAACTCCTTGATGAAGAAGATCACCTCCTTA
AATATTTCCGCAATTACATGAGCGAGCACTTGCTGAAGGCAGGTGCCAACATCACGCCGCGCGAAGGTGATGAGC
TCGCCCCGGCTGCCCTACCTACGGACCTGGTTCCGCACCCGAGCGCCATCATCCTGCACCTCAGCAACGGCAGCG
TGCAGATCAACTTCTTCCAGGATCACACCAAGCTCATCTTGTCGCCACTGATGGCAGCCGTGACCTACATCGACG
AGAAGCGGGACTTCCGCACATACCGCCTGAGTCTCCTGGAGGAGTACGGCTGCTGCAAGGAGCTGGCCAGCCGGC
TCCGCTACGCCCCGCACTATGGTGGACAAGCTGCTGAGCTCACGCTCGGCCAGCAACCGTCTCAAGGCCTCC**TAAT**
AGCTGCCCTCCCCTCCGGACTGGTGCCCTCCTCACTCCCACCTGCATCTGGGGCCCATACTGGTTGGCTCCCGCG
GTGCCATGTCTGCAGTGTGCCCCCAGCCCCGGTGGCTGGGCAGAGCTGCATCATCCTTGAGGTGGGGGTTGCT
GTGTAAGTTATTTTTGTACATGTTTCGGGTGTGGGTTCTACAGCCTTGTCCTCCCTCCCTCAACCCACCATATG
AATTGTACAGAATATTTCTATTGAATTCGGAAGTGTCTTTCTTGGCTTTATGCACATTAAACAGATGTGAATA
TTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4443

MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKEIPEVLVDPRSRRRYVVRGRFLGKGGFAKCFEISDADT
KEVFAGKIVPKSLLKPHQREKMSMEISIHRSIAHQHVVGFGHGFEDNDFVVFVLELCRRRSLELHKRRKALTE
PEARYYLRQIVLGCQYLHRNRVIHRDLKLGNLFLNEDLEVKIGDFGLATKVEYDGERKKTLCGTPNYIAPEVLSK
KGHSFEVDVWSIGCIMYTLLVGKPPFETSCLKETYLRICKNEYSIPKHINPVAASLIQKMLQTDPTARPTINELL
NDEFFTSGYIPARLPITCLTIPPRFSIAPSSLDPSNRKPLTVLNKGLENPLPERPREKEEPVVRETGEVVDCHLS
DMLQQQLHSVNASKPSEGLVRQEEAEDPACIPIFWVSKWVDYSDKYGLGYQLCDNSVGVLFNDSRLLILYNDGDS
LQYIERDGTESYLTVSSHPSLSMKKITLLKYFRNYMSEHLLKAGANITPREGDELARLPYLRTWFRTRSAILHL
SNGSVQINFFQDHTKLILCPLMAAVTYIDEKRDFRTYRLSLLEEYGCCKELASRLRYARTMVDKLLSSRSASNRL
KAS

[illegible]

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FIGURE 4445

MELGELLYNKSEYIETASGNKVSRSVLCGSQNIVLNGKTIVMNDICIIRGDLANVRVGRHCVVKSRSVIRPPFKK
FSKGVAFFPLHIGDHVFIEEDCVVNAAQIGSYVHVGKNCVIGRRCVLKDCCCKILDNTVLPPETVVPFFTTFSGCP
GLFSGELPECTQELMIDVTKSYYQKFLPLTQV

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FIGURE 4446

AGTGCATCCTGGGTTGGCGTAGCCATGGCGTCTCGTGTCCTTTTCAGCCTATGTCAGCCGCCTGCCCCGCGGCCTTT
GCGCCGCTGCCCCGGGTCCGGATGCTGGCCGTGGCCCGGCCTCTCAGCACTGCTCTCTGCTCCGCGGGGACCCAG
ACGAGGCTCGGGACTTTGCAGCCGGCCTTAGTGCTCGCGCAGGTTCTTGGTAGAGTTACACAGTTGTGCCGCCAG
TATAGCGACATGCCTCCTTTGACGTTAGAGGGCATCCAGGACCGTGTTCTTTACGTATTGAAACTCTATGACAAG
ATTGACCCAGAGAAGCTTTTCAGTAAATTCTCATTTTTATGAAAGACCTGGGCTTAGACAGTTTGGACCAAGTGGAG
ATTATCATGGCCATGGAAGACGAATTTGGGTTTGAAATTCCTGATATAGATGCTGAAAAGTTAATGTGTCCACAA
GAAATTGTAGATTACATTGCAGATAAGAAAGATGTATATGAATAAAGTATCAGACCCTTTGGCTTTGCTGAGAGA
GGACTCAGATGATAGTGACGAATGTCTGGCAGTGAGGACACATTTTGGCATTCTTGCTGACTCTGACAGAGTGAT
TCTGATGGACTTGTATTTAAATTGTATGTGTTTTACTCTTTGAAAATAAATCTATAAAACCAA

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FIGURE 4447

MASRVLSAYVSRLPAAFAPLPRVRMLAVARPLSTALCSAGTQTRLGTLQPALVLAQVPGRVTQLCRQYSDMPPLT
LEGIQDRVLYVLKLYDKIDPEKLSVNSHFMKDLGLDSLQVEIIMAMEDEFGFEIPDIDAEKLMCFQEIVDYIAD
KKDVYE

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FIGURE 4448

GTTCCTCCATGTTGCCCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCCAAGTAC
TGGGATTACAGGCATGTCCCACCATGCCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTG
AGTTGCTATGGCTCCAGCTGAAAGCCTGTGCAGTCATATCATGGGTAAACATTTGCTTTATGCTAAAAATATGGT
GGACCTGGCATTACAGCTATTACAAATCTCCTAAGGTGTCTCAGGTAGTGTATTAGTTACTTTTCATACTGCTAT
GAAGAAATACTCGAGACTGGGTAAATTTATAAAGGAAAAAGAGGTTTAATGTACTCACAGTTCCACAAGGCTGGGGA
GGCCTCAGAAATCATGGTGGAAGGCAAAGAAGGAGCAAAGGTACGTCTTACATGGCTGCAGGAAAGAGAGCACGTG
CAGGGAAACTGCCCTTTATAAAACCATCAGATTTAGTGAGATGTATTCACTATCACAGAAGACAGTATGGGAAAAA
CCTGCCCCCATGATTTGATTACCTCCTACCAGGTCCCTCCCACGACACATGGGGATTATGGGAACTACAATTCAA
GATGAAATTTGGGTGGGGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAA
GCCATTTACCAAGATAGTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTATGAAAATATGTTGCAGTGGGC
AGCTCAGCAGAGAAGGGGCTACCTGCAAAGAGGCAGGGGCTGGAGGAAAGTTTTATAGGGTCCTGCTGAAGGGTG
CTACGTGTGGAATGAGGTCATTGTGCCCCGAGGTTGTTTGTGATTAGCTGTCTCTAACAATTGTTTCATACAGTAA
TTGTTTCATTATTGTTCTCAACTTGGGGCTCTCCCCAACCTGGGGACCCTTCCTTATTGTTGCTTACTTATCAGGA
CTCCACATAAGGGTGTGGAACTTCATTTCATTTCATATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAAAAA
TTTATTCAACAAATATTTAGTCCAAGCCACTGTTACTTATTACCCTCTCTACTTCTGTATGGACTTTTAACTATC
TCTGACACTATTCACTATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATGCA
ACTAATACTCACAGGGAATATATAGAGTCTAGAAGAAAAATATACAGGTCCTTAGAGGCTGCTCTGCCAACAAAAC
CATAATGCAGGAACAAACATCACAACTATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAAACTG
GAATTTCCAGACTTCCTTTCTGCATTAACCAGTTTAACTAGATAGTAATGAAATATCCCTCTACTTTATGCTGTG
ATAGTTTATTTATTTATTTGAGAGTTTATTTATTTATTTTGAGACAACAGAGCGAGACTCCGTCTCA

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FIGURE 4449

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTGCGCCATGTGCGGGTTTTTCACCACCGGTTTCGGACAGCGAGTCCGAGTCGTCTTGTCCGGGGAGGAGCT
CGTCACCAAAACCTGTGCGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTTCGTGATGTCACCAAGTGCCTGGAAGAGTTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAAGCATTGT
GGACAAAGAAGGTGTCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAA
ATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCACGACAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGGAAAGGGTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACCTGATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCAATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCTGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTTGTTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGGAACGAATGGATGAAGAATTTACCAAAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGTGGTACCAGGCCCGCAGCTCATGCTCATGAGCCACTTGCAGGACAA
CATTGAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTGCCTGCCATGCTCCTGGAGATCCCCTA
TGACTGGAAGACCTGTCACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTCAGACATGTTTGAGCTGGATCTGCCCCTGTGCACTCCATCAT
CAGCAAAATGATCATTAAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCCTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTTGAGCTCTCCACTCTGTTTTCCGCGCT
GGGCCATCCAACCTTGAAGTCTTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 4450

MSRFFTTGSDSESESSLSGEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSADKDRFEELTNLIRTI RNAMKIRD
VTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKKMNNNAKALSTLRQKIRKYNR
DFESHITSYKQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDEDEDESDS
EDDEDWDTGSTSSSDSDSEEEEGKQTALASRFLKKAPTDEDKKAEEKKREDKAKKKHDKSKRLDEEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESEN LHNADQPLRVGCI LTLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAI IERVQRYLEEKGTTEEVCRIYLLRILHTYYKFDYKAHQRLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTDRIRTCAILCHIIYHHALHSRWYQARDLMLMSHLQDNIQH
ADPPVQIILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQE QEKVERRRQVPFHL
HINLELLECVYLVSAMLLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVWDLFP EADKVRTMLVRKIQEESLRTYLFTYSSVYDSISMETLSDMFELDLP TVHSIISKM
IINEELMASLDQPTQTVMHRTEPTAQQNLALQLAEKLGSLVENNERVFDHKQGT YGGYFRDQK DGYRKNEGYMR
RGGYRQQQSQTAY

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FIGURE 4451

GTGCATGCCGTGGGTCTGACGGCTTGAGTAGCGCTAGGGAGAATCCCTGCAGGTAATATTTGACTTTTGCTTCAT
ATTAATCTGAGTGGAATAAAAGGGCCCTCTTCTCCTCTCGCTTCCCTGCCGGGCAGGCGCCATGCGCGGAAGCC
TCGGCGACGGGCGCCTGCGGAGAGGCGATGGCAGCGGCGGAAGGCTCCTCGGGCCCGGCGGGCTTGACTCTGGGC
CGGAGCTTCTCGAACTACCGGCCCTTCGAGCCCCAGGCGTTGGGCCTCAGCCCCGAGCTGGCGGCTGACGGGCTTC
TCCGGCATGAAGGGCTGAGGCTGCAAGGTCCCGCAGGAGGCGCTGCTCAAACCTCCTGGCGGGACTGACGCGGCCG
GACGTGCGGCCCCCGCTGGGCCGGGGCTGGTGGGTGGCCAGGAAGAGGCGTCCCAGGAAGCCGGCCTGCCGGCA
GGAGCGGGCCCCAGCCCCACCTTTCCAGCCCTGGGCATCGGGATGGACTCCTGCGTCATCCCCCTGAGGCACGGG
GGCCTGTCACTGGTGCAGACCACGGACTTCTTTTACCCCTTGGTAGAAGATCCCTACATGATGGGGCGCATAGCT
TGTGCCAACGTGCTGAGTGACCTCTACGCCATGGGGATTACTGAGTGTGACAACATGTTGATGTTACTCAGCGTC
AGCCAGAGTATGAGTGAGGAGGAACGCGAAAAGGTAACGCCACTCATGGTCAAAGGCTTTCGGGATGCGGCTGAG
GAAGGAGGGACGGCAGTGACCGGTGGGCAAACGGTGGTCAACCCTTGGATTATAATCGGTGGAGTTGCCACTGTA
GTATGCCAACCAAATGAGTTCATAATGCCGGACAGCGCCGTCGTTGGGGACGTGCTGGTGTAAACCAAACCGTTA
GGAACCCAGGTTGCTGTCAATGCCACCAATGGCTGGATAATCCTGAAAGATGGAATAAAGTAAAGATGGTGGTC
TCCAGAGAAGAGGTGGAGCTGGCCTATCAGGAAGCCATGTTCAATATGGCTACCCTCAACAGAACTGCTGCAGGT
TTAATGCACACATTTAATGCCCATGCGGCCACAGATATCACAGGCTTTGGCATTCTAGGACACTCCAGAACCTT
GCAAAACAACAAAGAAATGAAGTGTCTTTGTTATTCTAATCTGCCAATAATTGCCAAGATGGCTGCCGTCAGC
AAGGCCAGTGACGGTTTGGGCTTCTTCAAGGAACCTCAGCTGAAACCTCTGGGGGATTACTGATTTGTCTGCCA
AGAGAACAGGCGGCTCGCTTTTGTCTGAAATCAAATCCTCCAAGTACGGAGAGGGTCACCAAGCGTGGATCGTT
GGCATTGTGAAAAGGGAAAACCGAACGGCCCGGATCATTGACAAGCCGCGAGTTATTGAAGTCCTGCCTCGTGGG
GCCACAGCTGCTGTTCTTGCTCCTGACAGTTCAAATGCCTCCTCTGAGCCTAGCTCGTGAGATGAAAGAACAGAA
GTTGTTTGGACCTTAGAGCCATTGTCCACAATCACGGATGGTTCTCAAGAGTTGATTGTAAGAAATTTCCAAAGA
AGGCTGCCTGCATAGTGGTTCCGGCTGCCCTTCTAGGTGATTGGAATCAGCCCATCTAAAGCAGTCTTTATATG
CATTCCGAGGCCAGAGTAACATTTTGAACCTTGGGGGGATATTTGTTCACTACTTGGGTAGAAGAGGAGCAAAAA
TACTTCTGTTTTCTCTTGCCAAAGTAAGATGAAGCTATTCCAGGTTGAGGGATTTTCTTTGCACGGGGTTGATT
AATTTCTGCACAGGGAGTGAGATTATTAAGTAACACACACACAAAGTAAATTGCAAAATGAAAAAATTAGAAG
CAAATGAGTTTTGGACCAATATTGTTGATAAATCTAAATTGTTAAGAGAGATCTTATAATGCAACATCAAATTCT
TTATTCAATTTTACTGAAGTACTGGCTCTTTCTGCTCTGGACAAGAATTGAGCAACTTGTCTGATGACTGGGAA
AGGAGGACCTGCAACCATCTGACTTGGTCTCTGTTAATGACGTCTCTCCCTCTAAACCCCATTAAGGACTGGGAG
AGGCAGAGCAAGCCTCAGAGCCCAGGCCTCAGTGGTCATTAAGATGTTAAGTCTTTTGCGGCAGATTCTGGTGA
TTTGATCAATAAAGAGTAATTTCTTGCTAAATAAATAAAAGAAACCTTGTTGAAAACTAAAAAAAAAAAAAAAA
AAA

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FIGURE 4452

GGSLGDGRLRRGDGSGGRLLGPGGLDSGPELLELPALRAPGVGPQPELAADGLLRHEGLRGCKVPQEALLKLLAG
LTRPDVRPPLGRGLVGGQEEASQEAGLPAGAGPSPTFPALGIGMDSCVIPLRHGGLSLVQTTDFFYPVEDPYMM
GRIACANVLSLDLYAMGITECDNMLMLLSVSQSMSEEREKVTPLMVKGFRDAAEEGGTAVTGGQTVVNPWIIIGG
VATVVCQPNEFIMPDSAVVGDVVLVLTPLGTQVAVNAHQWLDNPERWNVKVMVVSREEVELAYQEAMFNMATLNR
TAAGLMHTFNAAHAATDITGFGILGHSQNLAKQQRNEVSFVIHNLPIIAKMAAVSKASGRFGLLQGTS AETSGGLL
ICLPREQAARFCSEIKSSKYGEGHQAWIVGIVEKGNRTARIIDKPRVIEVLPRGATAAVLAPDSSNASSEPPSS

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FIGURE 4453A

CCTCTTTCACCCTGTCTAGGTTGCCAGCAAAATCCACGGGCTCCTGACGCTGCCCCTGGGGCCACAGGTCCCTC
GAGTGCTGGAAGGATGAAGGATTCTGTCATCACTGTGATGGCCATGGCGCTGCTGTCTGGGTTCTTTTTCTTCGC
GCCGGCCTCGAGCTACAACCTGGACGTGCGGGGCGCGCGGAGCTTCTCCCCACCGCGCGCCGGGAGGCACTTTGG
ATACCGCGTCTGTCAGGTTCGAAACGGGGTCATCGTGGGAGCTCCAGGGGAGGGGAACAGCACAGGAAGCCTCTA
TCAGTGCCAGTTCGGGCACAGGACACTGCCTGCCAGTCACCCTGAGAGGTTCCAACATACTCCAAGTACTTGGG
AATGACCTTGGCAACAGACCCACAGATGGAAGCATTTTGGCCTGTGACCCTGGGCTGTCTCGAACGTGTGACCA
GAACACCTATCTGAGTGGCCTGTGTTACCTCTTCCGCCAGAATCTGCAGGGTCCCATGCTGCAGGGGCGCCCTGG
TTTTTCAGGAATGTATCAAGGGCAACGTAGACCTGGTATTTCTGTTTGATGGTTTCGATGAGCTTGCAGCCAGATGA
ATTTTCAGAAAAATCTGGACTTCATGAAGGATGTGATGAAGAACTCAGCAACACTTCGTACCAGTTTGCTGCTGT
TCAGTTTTCCACAAGCTACAAAACAGAATTTGATTTCTCAGATTATGTTAAATGGAAGGACCCTGATGCTCTGCT
GAAGCATGTAAAGCACATGTTGCTGTTGACCAATACCTTTGGTGCCATCAATTATGTCGCGACAGAGGTGTTCCG
GGAGGAGCTGGGGGCCCCGCCAGATGCCACCAAAGTGCTTATCATCATCACGGATGGGGAGGCCACTGACAGTGG
CAACATCGATGCGGCCAAAGACATCATCCGCTACATCATCGGGATTGGAAAGCATTTTCAGACCAAGGAGAGTCA
GGAGACCCCTCCACAAATTTGCATCAAACCCGCGAGCGAGTTTGTGAAAATTCTGGACACATTTGAGAAGCTGAA
AGATCTATTCACTGAGCTGCAGAAGAAGATCTATGTCAATTGAGGGCACAAGCAAACAGGACCTGACTTCCTTCAA
CATGGAGCTGTCTCCAGCGGCATCAGTGCTGACCTCAGCAGGGGCCATGCAGTCGTGGGGGCGAGTAGGAGCCAA
GGACTGGGCTGGGGGCTTTCTTGACCTGAAGGCAGACCTGCAGGATGACACATTTATTGGGAATGAACCATTGAC
ACCAGAAGTGAGAGCAGGCTATTTGGGTTACACCGTGACCTGGCTGCCCTCCCGGCAAAAGACTTCGTTGCTGGC
CTCGGGAGCCCCCTCGATACCAGCACATGGGCCGAGTGCTGCTGTTCCAAGAGCCACAGGGCGGAGGACACTGGAG
CCAGGTCCAGACAATCCATGGGACCCAGATTGGCTCTTATTTCCGTGGGGAGCTGTGTGGCGTCGACGTGGACCA
AGATGGGGAGACAGAGCTGCTGCTGATTGGTGCCCCACTGTTCTATGGGGAGCAGAGAGGAGGCCGGGTGTTTAT
CTACCAGAGAAGACAGTTGGGGTTTGAAGAAGTCTCAGAGCTGCAGGGGGACCCCGCTACCCACTCGGGCGGTT
TGGAGAAGCCATCACTGCTCTGACAGACATCAACGGCGATGGGCTGGTAGACGTGGCTGTGGGGCCCCCTCTGGA
GGAGCAGGGGGCTGTGTACATCTTCAATGGGAGGCACGGGGGGCTTAGTCCCCAGCCAAGTCAGCGGATAGAAGG
GACCCAAGTGCTCTCAGGAATTCAGTGTTTTGGACGCTCCATCCATGGGGTGAAGGACCTTGAAGGGGATGGCTT
GGCAGATGTGGCTGTGGGGGCTGAGAGCCAGATGATCGTGCTGAGCTCCCGGCCCGTGGTGGATATGGTCACCCCT
GATGTCCTTCTCTCCAGCTGAGATCCCAGTGTCATGAAGTGAGTGCTCCTATTCAACCAGTAACAAGATGAAAGA
AGGAGTTAATATACAATCTGTTTCCAGATCAAGTCTCTCATCCCCAGTTCCAAGGCCGCTGGTTGCCAATCT
CACTTACACTCTGCAGCTGGATGGCCACCGGACCAGAAGACGGGGGTTGTTCCAGGAGGGAGACATGAACCTCAG
AAGGAATATAGCTGTACACCACCAGCATGTTCATGCACTGACTTCTCATTTCATTTCGGGTATGTGTTCAAGACCT
CATCTCCCCCATCAATGTTTCCCTGAATTTCTCTCTTTGGGAGGAGGAAGGGACACCGAGGGACCAAGGGCGCA
GGGCAAGGACATAACGCCCCATCCTGAGACCCTCCCTGCACTCGGAAACCTGGGAGATCCCTTTTGAGAAGAACTG
TGGGGAGGACAAGAAGTGTGAGGCAAACTTGAGAGTGTCCTTCTCTCCTGCAAGATCCAGAGCCCTGCGTCTAAC
TGCTTTTGCCAGCCTCTCTGTGGAGCTGAGCCTGAGTAACTTGGAAGAAGATGCTTACTGGGTCCAGCTGGACCT
GCACTTCCCCCGGGACTCTCCTTCCGCAAGGTGGAGATGCTGAAGCCCCATAGCCAGATACCTGTGAGCTGCGA
GGAGCTTCCCTGAAGAGTCCAGGCTTCTGTCCAGGGCATTATCTTGCAATGTGAGCTCTCCCATCTTCAAAGCAGG
CCACTCGGTTGCTCTGCAGATGATGTTTAATACTGGTAAACAGCTCCTGGGGGGACTCGGTTGAATTGCACGC
CAATGTGACCTGTAAACATGAGGACTCAGACCTCCTGGAGGACAACTCAGCCACTACCATCATCCCCATCCTGTA
CCCCATCAACATCCTCATCCAGGACCAAGAAGACTCCACACTCTATGTCAAGTTTACCCCCAAAGGCCCAAGAT
CCACCAAGTCAAGCACATGTACCAGGTGAGGATCCAGCCTTCCATCCACGACCACAACATACCCACCCTGGAGGC
TGTGGTTGGGGTGCCACAGCCTCCCAGCGAGGGGGCCATCACACACCAGTGAGCGTGCAGATGGAGCCTCCCGT
GCCCTGCCACTATGAGGATCTGGAGAGGCTCCCGGATGCAGCTGAGCCTTGCTCTCCCCGGAGCCCTGTTCCGCTG
CCCTGTTGTCTTCAGGCAGGAGATCCTCGTCCAAGTGATCGGGACTCTGGAGCTGGTGGGAGAGATCGAGGCCTC
TTCCATGTTACGCTCTGCAGCTCCCTCTCCATCTCCTTCAACAGCAGCAAGCATTTCACCTCTATGGCAGCAA
CGCTTCCCTGGCCCAGGTTGTATGAAGTTGACGTGGTGTATGAGAAGCAGATGCTCTACCTCTACGTGCTGAG
CGGCATCGGGGGGCTGCTGCTGCTGCTGCTCATTTTCATAGTGCTGTACAAGGTTGGTTTCTTCAAACGGAACCT
GAAGGAGAAGATGGAGGCTGGCAGAGGTGTCCCGAATGGAATCCCTGCAGAAGACTCTGAGCAGCTGGCATCTGG
GCAAGAGGCTGGGGATCCCGGCTGCCTGAAGCCCCCTCCATGAGAAGGACTCTGAGAGTGGTGGTGGCAAGGACTG

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FIGURE 4453B

AGTCCAGGCCTGTGAGGTGCAGAGTGCCCAGAACTGGACTCAGGATGCCCAGGGCCACTCTGCCTCTGCCTGCAT
TCTGCCGTGTGCCCTCGGGCGAGTCACTGCCTCTCCCTGGCCCTCAGTTTCCCTATCTCGAACATGGAACATCATT
CCTGCCTGTCTCCTTTGCAGGCTCATAGGGAAGACCTGCTGAGGGACCAGCCAAGAGGGCTGCAAAAGTGAGGGC
TTGTCATTACCAGACGGTTCACCAGCCTCTCTTGGTTTCCTTCCTTGGAAGAGAATGTCTGATCTAAATGTGGAG
AAACTGTAGTCTCAGGACCTAGGGATGTTCTGGCCCTCACCCCTGCCCTGGGATGTCCACAGATGCCTCCACCCC
CCAGAACCTGTCTTGCACACTCCCCTGCACTGGAGTCCAGTCTCTTCTGCTGGCAGAAAGCAAATGTGACCTGT
GTCACTACGTGACTGTGGCACACGCCTTGTTCTTGGCCAAAGACCAAATTCCTTGGCATGCCTTCCAGCACCCCTG
CAAAATGAGACCCCTCGTGGCCTTCCCCAGCCTCTTCTAGAGCCGTGATGCCTCCCTGTTGAAGCTCTGGTGACAC
CAGCCTTTCTCCCAGGCCAGGCTCCTTCTGTCTTCTGCAATCACCCAGACAGCTCCCTCTGCCTGAACCTTCC
ATCTCGCCACCCCTCCTTCCCTTGACCAGCAGATCCCAGCTCAGTCACTTGGTTGGGTCTCACATCTTTCAC
ACTTCCACCAGCCTGCACTACTCCCTCAAAGCACACGTATGTTTCTTCATCCGGCAGCCTGGATGTTTTTCCC
TGTTTAAATGATTGACGTACTTAGCAGCTATCTCTCAGTGAAGTGTGAGGGTAAAGGCTATACTTGTCTTGTTCAC
CTTGGGATGATGCCTCATGATATGTCAGGGCGTGGGACATCTAGTAGGTGCTTGACATAATTTCACTGAATTAAT
GACAGAGCCAGTGGGAAGATACAGAAAAAGAGGGGCTGGGCTGGGCGCGGTGGTTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCAAGGAGGGTGGATCACCTGAGGTGAGGAGTTAGAGGCCAGCCTGGCGAAACCCCATCTCTACTA
AAAATACAAAATCCAGGCGTGGTGGCACACACCTGTAGTCCCAGCTACTCAGGAGGTTGAGGTAGGAGAATTGCT
TGAACCTGGGAGGTGGAGGTGCAGTGAGCCAAGATTGCGCCATTGCACTCCAGCCTGGGCAACACAGCGAGACT
CCGTCTCAAGGAAAAAATAAAAAATAAAAGCGGGCACGGGCCCCGTGACATCCCCACCCTTGAGGGCTGTCTTCTC
AGGCTCTGCCCTGCCCTAGCTCCACACCCTCTCCCAGGACCCATCACGCCTGTGCAGTGGCCCCCACAGAAAGAC
TGAGCTCAAGGTGGGAACCACGTCTGCTAACTTGAGCCCCAGTGCCAAGCACAGTGCCTGCAITGATTTATCCA
ATAAATGTGAAATTCTGTCC

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FIGURE 4454

CGCGCTGGAGAGGCGCGGGGTCAAGACGTCCGGCCTCGGGGGCCCGGGCTGGGCCGCCGAGTCCCCTGGGCGGCG
CTGAGCGGGCGGGAGGCGGGGGCCCGCGGCTCGGGGCAACCGAGGCCGGGTGCGGGGATCGGCCGCCATCGCCGC
CGCCGCTGCACTGGGAGCCCCGCGGGGATGGAGCGGGAGGCGTTGCCGTGGGGCCTCGAGCCCCAGGATGTGCAGA
GTTCTGACGAAATGAGGAGCCCCGAAGGGTACCTCAGAGGCAACATGAGTGAGAATGAGGAAGAGGAAATTTCTC
AGCAAGAAGGCAGTGGGGACTATGAAGTCGAAGAGATACCATTTGGGCTTGAACCCCAGAGCCCTGGGTTTGAGC
CACAAAGCCCAGAGTTTGAACCCCCAAAGCCCCAGATTTGAGCCTGAAAGCCCCGGGGTTTGAGTCCCAGGCCCTG
GGCTTGTGCCCCCAAGCCCTGAGTTTGCACCCAGAAGCCCTGAATCAGATTCTCAGAGCCCTGAGTTTGAATCCC
AGAGCCCTAGGTATGAACCCCCAAAGCCCTGGCTATGAACCTCGGAGCCCCGGGTATGAACCCCGGAGCCCTGGCT
ATGAATCTGAGAGCTCTAGATATGAATCCCAGAACACTGAGCTCAAAACCCAAAGCCCAGAATTTGAAGCTCAAA
GTTCCAAATTCCAGGAAGGTGCGGAGATGCTTCTGAACCCCGACGAAAAGAGTCCTTTGAATATCTCCGTAGGAG
TTCACCCCTGGACTCCTTCACTCAGGGGTTTGGGGAGCAGCCACAGGGGACCTGCCCATAGGGCCACCTTTTG
AGATGCCACAGGGGCCCTGCTGTCTACACCGCAGTTTGAGATGCTTCAGAATCCCCTGGGTCTCACAGGAGCCC
TTCGAGGTCCAGGTGCGCGGGGTGGCCGGGCCAGGGGTGGGCAGGGCCCTCGGCCAACATCTGCGGCATCTGCG
GGAAGAGCTTCGGGCGGGGCTCCACCCTGATCCAGCACCAGCGCATCCACACCGGTGAGAAGCCCTACAAATGTG
AGGTCTGCAGCAAGGCCTTCTCCCAGAGCTCTGACCTCATCAAACACCAGCGCACCCACACTGGCGAGCGGCCCT
ACAAATGTCCCGTTGCGGCAAGGCCTTCGCCGACAGCTCTTACCTGCTTCGCCACCAGCGCACTCACTCTGGCC
AGAAGCCCTACAAGTGCCACATTGTGGCAAGGCCTTCGGCGACAGCTCCTACCTCCTGCGACACCAGCGCACCC
ACAGCCACGAGCGGCCCTACAGCTGCACCGAGTGCGGCAAGTGCTATAGCCAGAACTCGTCCCTGCGCAGCCATC
AGAGGGTGACACCGGTGAGAGGCCCTTACAGCTGTGGCATCTGCGGCAAGAGCTTCTCCCAGCGGTGCGGCCCTTA
TCCCCATGCCCCGAGCCACGCCCCGGGAGAAGCCCTTCAAGTGCCCTGAGTGCGGCAAGCGCTTTGGCCAGAGCT
CGGTGCTGGCCATCCACGCCCCGCACCCACCTGCCAGGCCGCACCTACAGCTGCCCCGACTGCGGCAAGACCTTCA
ATCGCTCCTCCTCTCATCCAGCACCAGCGCTCCACACGGGCGAGCGGCCCTACAGGTGCGCCGTGTGCGGCA
AGGGCTTCTGCGCTCCTCCACGCTTCTGCAGCATCACCGGGTCCACAGTGGCGAGCGGCCTTACAAGTGCGATG
ACTGCGGAAAGGCCTTCTCCCAGAGCTCCGACCTCATCCGCCACCAGCGGACCCACGCGGCGGGCCGGCGCTGAC
CTGGGGCCCCAGCAGGGGTGGGAGGTGTGGGCAGAAGATAAGGGGCCAGGGAGCTAGAGGAACCTTTAGGGAGGA
TAGTGGAGAAGCCGCAGGAGAATGGAGGAGCTGAGGATGCTGGAAGAAGAGAACCAGGGTGGAGGAAGTGACATG
CCCTGGAGACTTGTGGGAAGTGGTTGGAGGGAGGCCAGGCCGGCAGCGGGAGGCCCTGGGAGAAATGGAGAGAG
GTCAGCGGAGGGCTGGCTCAGCCGCGGCTCCTTGGTGGGTGCCTGGCTTGGCAACTGCTAGAGCAGGGAGGGGG
GAGGGCAGGGGATTACCTAATTAGAGTGGTTAGCTTAGATTGGTAGCTGCTGAAACTCTCGTTGAGTCAGGAGC
GGGTAAAAGGTAGGTGGGGTGGGGAGTGGGGCCCCGGGGTGGGGCCTGGGCCTCTGCGTGCAAACCCCAGCCTCC
CTCTTCTTCTCAGGCTTTGGAGCCCCTGAGTTTGAATTAATAAAACCTTATGTGGTAAAAAAAAAAAAAA

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FIGURE 4455

MRSPEGYLIRGNMSENEEEEEISQQEGSGDYEVEEIPFGLQSPGFEPQSPEFEPQSPRFEPESPGFESRSPGLVP
PSPEFAPRSPESDSQSPEFESQSPRYEPQSPGYEPRSPGYEPRSPGYESESSRYESQNTLKTQSPEFEAQSSKF
QEGAEMLLNPDEKSPLNISVGVPPLDSFTQGFGEQPTGDLPIGPPFEMPTGALLSTPQFEMLQNPGLTGALRGP
GRRGGRARGGQGPRPNICGICGKSFGRGSTLIQHQRHTGEKPYKCEVCSKAFSQSSDLIKHQRHTHTGERPYKCP
RCGKAFADSSYLLRHQRTHSGQKPYKCPHCGKAFGDSSYLLRHQRTHSHERPYSCTECGKCYSQNSSLRSHQRVH
TGQRPFSCGICGKSFSQRSALIPHARSHAREKPFKCECGKRFGQSSVLAIHARTHLPGRTYSCPDGKTFNRSS
TLIQHQRSHHTGERPYRCAVCGKGFCSRSTLLQHHRVHSGERPYKCDDCGKAFSQSSDLIRHQRTHAAGR

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FIGURE 4456

GGCACGAGGCTTTCTCGGGCGCAGGAGGTTCGCGAGGCCAGGCCAGGCCAGGGGAGGCAGCCGATCCGTCGTCG
GGGTTGACAGTTACC**ATG**CGCGCGCCTCTGGCCCCGCTCCCTCCCCGGGACCCAAACGGGGCCGGACCCGAGTGG
AGGGAGCCGGGGGCTGTGAGCTTCGCGGACGTGGCCGTGTACTTCTGCCGGGAGGAGTGGGGCTGCTTGCGGCCA
GCGCAGAGGGCCCTGTACCGGGACGTGATGCGGGAGACCTACGGCCACCTGAGCGCTCTCGGAATCGGAGGCAAC
AAGCCAGCTCTCATCTCCTGGGTGGAGGAGGAGGCCGAACGTGTGGGGTCCGGCTGCCAGGATCCGGAGGTGGCG
AAATGTCAGACACAAACGGACCCAGCAGATTCCAGAAACAAGAAAAAGGAAAGACAAAGGGAAGGGACGGGAGCC
CTGGAGAAGCCCCGACCCTGTGGCCGCCGGGTCTCCTGGGCTGAAGTCTCCCCAAGCCCCCTCGGCCGGGCCCCCT
TATGGTTGGGAGCAGCTGTCCAAGGCACCGCACCGGGGACGCCCTCCCTCTGTGCCCCACCCCCCTGTCCCCGA
GCTGACCAGCGTCATGGCTGCTACGTGTGCGGAAGAGCTTTGCCTGGCGCTCCACACTGGTGGAGCACGTCTAC
AGTCACACTGGCGAGAAGCCCTTCCACTGCACTGACTGCGGCAAGGGCTTCGGCCACGCTTCTTCCCTGAGCAAA
CACCGGGCCATCCATCGTGGGGAGCGCCCCACCGCTGTCTGGAGTGTGGCCGGGCCCTTCACGCAGCGCTCGGCG
CTGACTTCGCACCTGCGCGTCCACACCGGCGAGAAACCTATGGCTGCGCCGACTGTGGCCGCGCTTCAGCCAG
AGCTCTGCCCTCTACCAGCACCGGCGCGTGCACAGCGGCGAGACCCCTTCCCCTGCCCGGACTGTGGCCGCGCC
TTCGCTACCCCTCGGACCTGCGGCGCCACGTGCGCACCCACACCGGCGAGAAGCCCTACCCGTGCCCGGACTGC
GGGCGCTGCTTCCGCCAGAGCTCGGAGATGGCAGTCCACAGGCGCACCCACAGCGGCGAGAAGCCCTACCCCTGC
CCGCAGTGGCGGCCGCGCTTTGGCCAGAAGTCAGCCGTGGCCAAACACCAGTGGGTTCATCGGCCCGGGGCGGG
GGCCACAGGGGCCGGGTGCGCGGCGTCTGTCTGTGACCCTGACCCTGGCCACGGAGACCTGGACCCGCCCGTG
GGCTTCCAGCTGTACCCGGAGATATTCAGGAGTGTGGGT**GAC**GGCCTTAAAAGTGAATCTAGACATTACGGG
AGGCCCGAGATGGGCTCAGGGGCCCCGAACCTCTGCGGCGGCCTGCAGGGAGGTCCAGAATCTAGGGCAAGAGCT
GGCCCTGGGGTGGGACAGTCTGATCTTGGGCCCTTAGCAGCCTCCTCTGCCAGCACCTTGCTCCCCACTGCCCA
GGGCTCTCCAAGGCCCTCTACTGAGGCAGGGCTGAGTTGAGAACCCCCAGACCTACATAAGGGGAACCAAAAG
CTGTTTCTCAGCCCAGAGGTGCTAAGAGGACTGAGGTAGAGGAGAACCTTGTTTTACCCATTGTCTTTTTTAAATT
TTTTATCATTATTTTTATTCTTGTGACCCTCCCAGAACACAATACTCATTGTCTTTTTTATTATTTATTTATTTA
TTTCTGAGACAGCTTCCCTGCTCTGTACCCAGGCTGGAGTGCAGTGGTGTGAACAGGGCTAACTGCAGCCTCAAC
CTGCAGTGCTCAAGGAATCCTCTCCCATCAGCCTTCCAAATATCTGAGACTACAGGCGGGCAACACTACGGCCAG
CTAATTTTTTAAATTTTACATAGAGATGAGGTTCTCACTGTTGTCCAGGCTGGTCTCAAACCTCCTTGGCTGAAGTG
ATCCTGTCTGCTCGGCTTCCGCAAGTGCTGGGATTACAGGCGTGAGCTACCACCATGCCTGGCTTCCATTGTCTT
TGTGTGTGTGTGTGTGTGATGGGGTTTTGCTCTTGTGTCAGGCTGGAGTGCAATAGCGCAATCTCAGCTCACT
GCAACCTCTGCCTCCAGAGTTCAAGCAATTCTCCTTCCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCACC
ACCTCCATTGTCTTTTTTACTGCCCAAGTTAAATCCTGTGACTGTGTACTGGATCTGGCCTGCGGTTGTCAATTT
TATTGATCTGAGTCCAGGCAGTGTTTTTAAGTGATATGAGTTAGTAGTGAATAATTGAAAAGGATATTTTACAACC
AAATACAGGTTTTCTGGTGTCTTTTGAAAAATCCAAAGATTTGGCAACTCGACCTAGGCTCCGACAAAACCACAG
TTGTTGGGAGCTGAGCCGGAGCCAGAACTCACAATTCACCGTGGCCCGGCCACCCATCCCCACCACTCCCGTGCG
CTCCTGACCAAGCACACCGTGCCATTTCATCATGGCTTGCTTTTAGTGTTTTGGTGTATCTTAAAGTACAGCG
AAGAAGAAAGGGAAGTATTTCTTAGACCATGTCTCTGTCCAAATAGGCCTTTCATCTGGCATTTCCTGCTCAT
TTATATGACTTGCTGAGTTCCTATGGTCATTTGAGTTTGCAAACAGTGGTCTGTAGCACTCAGGTTTTCTGGAGT
TGGAGAGAAAGGGTGGCAAGAGAGAAGTAAAAGTTGGTTTTATTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4457

MAPPLAPLPDRDPNGAGPEWREPGAVSFADVAVYFCREEWGCLRPAQRALYRDVMRETYGHL
SALGIGGNKPALI
SWVEEEAELWGPAAQDPEVAKCQTQTDPADSRNKKKERQREGTGALEKPD
PVAAGSPGLKSPQAPSAGPPYGWEQ
LSKAPHHRGRPSLCAHPPVPRADQRHGCYVCGKSFAWRSTLVEHVYSH
TGEEKPFHCTDCGKGFGHASSLSKHRAIH
RGERPHRCLECGRAFTQRSALTSHLRVHTGEKPYGCADCGRRF
SQSSALYQHRRVHSGETPFFPCPDCGRAFAYPS
DLRRHVRIHTGEKPYPCPDCGRRCFRQSSEMAVHRRTHSGEKPYPC
PQCGRRFQKSAVAKHQWVHRPGAGGHRGR
VAGRLSVTLTPGHGDLDPVGFQLYPEIFQECG

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FIGURE 4458

CTGGGGATCTACGCTGAGTTCGGAGATGCTCCAGCTCGGGCCGCCCCTGTCTGAGCGGAGCTTTGCGGCGCTGAA
GCTTACAGGGGAAGGAAAAGCCTCGCCCGGCGTCTGATTGGCGGAACCGCGCTGCCGCAGCCTGGGATTCCCCAG
GGACCCCCCGGAGCCGCCGCGTCTCCC**ATCG**ACTTGCCCGGGGACTCCAGCCCGCCTGGCCAGCCGCGTCTGTG
CCGCCAGCCTCTGACTCGAGCATTATGGGGAGCCAGGAGCCCGAAACGGCCGAGGCTGCAGCTCCCGGGGGCCCC
TTCTCCCCCTGGAAAAGGCCTCTCGGCGGGTCTTGCCCGTGGTGCTAGAAGATGTATGGCTGTTTACATGGTCCC
CGTGGTGCCCTCAAAGCAGACCTCCATACCACAGCACCACAGCTACCATCAGGATCCTGTCCACAGGCAGCCGCC
TGCTCGCCACCCCGGCAGGCCGGGTGGTCCCTCGCAGGCCAGGCCTCCCGACCCTCTGTGTTTTGTGTGCGCAGCC
CTTGAGCCGCATCCACCGACCTCTTCCACCCCTGAGGCGGCGATCAAGGACAACCCCTGGCCCCAGAGGAGGGCCC
TTCACAAAAGGTGGACCGGGCCCCCAGCCACCCCTGGTGGTGATGCTGGAAGACATCGCCAGTCCTAGACCCCC
CGCTGAGGGCTTCATTGATGAGACCCCCAACTTCATCATCCAGCACAAAGAGCTGAGCCCATGAGGATAGTTTCG
CCAGCCAACGCCTCCACCTGGGGACCTAGAACCCCCATTCCAGCCATCTGCTCTGCCTGCAGACCCTCTGGAGAG
CCCACCAACAGCCCCAGATCCTGCTCTGGAGTCCCATCCACCCACCACCGTCCAGCCTTTTACGCCCCCGCCT
CAGTCCCTGGGGCTTGCCCCGCTCTTCCGTTCGCTCCGCTCCAAGCTGGAGAGCTTTGCTGACATCTTCCTCAC
GCCCAACAAAACCCACAGCCCCCACCCTCGTCCCCCCTGAAGCTGGAGTTGAAGATCGCCATCTCAGAGGC
CGAGCAGTCTGGGGCTGTGAGGGCACTGCGTCTGTACGCCCCGGCCCCCAATCCGCCAGTGCGGAACCTCAGGA
CCACAATACCCACAGCACTTCTCCCTAAGCCCTCTCTGGGCCGAAGCTACTCCTGCCCTGATCTGGGGCCCCCTGG
CCCAGGTACCTGCACCTGGCCACCTGCTCCACCCCAACCAAGCCGACCACGGCCGCGGCGGCACACTGTGGGTGG
TGGGGAAATGGCCCAGCCCCGCCACCCCTCGGCCCTGTCTCCGGAAGAGGTCTTCCCTCTCGGAGGAGTGGG
AGCCTCCCCTTCTCTACACATCTTGCTCGTCCACGGCATCCACTTCCTTCTCCGAACCAGCAGAACCCAGGTT
GGGTTCAACCAAAGGGAAGGAGCCAAGAGCCTCAAAGGACCAGGTGCTTTCAGAACCTGAGACCAAGACCATGGG
AAAGGTTTCTCGATTGAGAATACGCAGAACACCAGCCGTCCTCAGCTAAACCTTACACCAATGGGACTGCCTCG
ACCAATCAGGTTGAACAAGAAGGAGTTTCTGAGTTGGAAGAAATTTACACCAACAAGAATTACCAATCACCACAAC
CAGGAGGACCTTTGAGACCATCTTTGAGGAACCCCGGGAGCGCAATGGGACTCTGATTTTACCAGCTCAAGGAA
GCTCCGGCGGGCTGTGGAATTTGGGACAGCAGCCTTCTCGATCACGAAGACCGTCCCGTGGGGTCCGGGCTGC
AGGGGGCAGGACTGTTCTCCCAATGTGGCCCCCAGCCCTGATGTGGGCCCCCTGCTCCAGCAGCGGCTGGAGGA
GCTAGATGCCTTGCTCCTGGAGGAAGAAACAGTAGATCGGGAGCAGCCCCACTGGACCT**TAG**GTGCCCCATCTGTT
GGTCATCCATCCTGAAGGGACAGGAAACCTCCAGGCAGTTATTTTTTTTTTCTCTATATTTCTAGTAAAGTTTT
CGATATGTTTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4459

MDLPGDSSPPGQPRLCRQPLTRALWGARSPKRPRQLQLPGAPSPLEKASRRVLAVVLEDVMAVHMVPVVP SKQTSI
PQHHSYHQDPVHRQPPASPPRQAGWSSQARPPDPLCLCREPLSRIHRTSSTLRRRSRTTPGP EEGPSQKVDRAPQ
PTLVVMLEDIASPRPPAEGFIDETPNFIIPAQRAEPMRIVRQPTPPPGDLEPPFQPSALPADPLESPTAPDPAL
ELPSTPPPSSLLRPRLSPWGLAPLFRSVRSKLESFADIFLTPNKTPQPPPSPPMKLELKIAISEAEQSGAAEGT
ASVSPRPPIRQWRTQDHNTPALLPKPSLGRSYSCPDLGPPGPGTCTWPPAPPQSRPRPRRHTVGGGEMARAPP
PRPCLRKEVFPLGGVGASPSLTTSCSSTASTSFSEPAEPRLGSTKGKEPRASKDQVLSEPETKTMGKVSFRIRRR
TPARPQLNLTPMGLPRPIRLNKKEFSLEEIYTNKNYQSPTTRRTFETIFEEPRERNGT LIFTSSRKLRRAVEFRD
SSLPRSRRPSRGVRAAGGRTVPPNVAPSPDVGP LLQQRLEELDALLLEETVDREQPHWT

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FIGURE 4460A

GCTAGGCTGACCCTCCTGCAGGTGACGGAAGTACCGCCTCCTCCCGTTTGACGCCCCCTCAGGGGACCCTGCATCG
CTCCAGCCGCCGCGGCCATGTCTGGGCCAGGCAACAAACGCGCCGCCGCGACGGGGGCTCAGGGCCCCCGGAAA
AGAAGCTGAGTCGTGAGGAGAAGACCACCACGACTCTTATCGAGCCCATTTCGTCTTGGAGGCATCTCTTCCACGG
AGGAGATGGACCTGAAGGTACTACAGTTCAAGAACAAGAACTGGCAGAGCGGCTGGAACAACGGCAGGCTTGTG
AAGATGAACTCCGAGAACGAATTGAGAAGTTGGAGAAGCGGCAGGCCACAGATGATGCCACACTCCTCATCGTCA
ATCGCTACTGGGCCCAGCTGGATGAAACTGTGGAAGCCCTTCTCCGATGCCATGAGAGCCAGGGGGAGCTGTCTT
CAGCGCCTGAGGCACCTGGGACCCAGGAGGGGCCAACATGTGATGGGACTCCTCTCCAGAGCCGGGGACATCAG
AGCTGAGAGACCCCTTGCTGATGCAGCTGCGGCCCTCTCAGTGAGCCGGCCTTGGCTTTTGTGGTGGCACTGG
GTGCCAGCAGCAGTGAGGAGGTGGAGCTGGAGCTGCAAGGCCGAATGGAGTTCTCCAAGGCAGCTGTGTCTCGTG
TGGTAGAGGCCTCAGACCGCTACAGCGCCGGGTGGAGGAACCTGTGTCAGCGAGTGACAGCCGAGGGGACAGTG
AGCCCCCTCAGTGAGGCGGCTCAGGCACACACCCGAGAGCTGGGCCGTGAGAACC GGCGACTGCAGGACTTGGCCA
CTCAGCTGCAGGAGAAACACCACCGCATCTCATTGGAGTACTCCGAGCTCCAGGATAAAGTGACATCGGCAGAGA
CCAAGGTGCTGGAGATGGAGACAACAGTGGAGGACTTGCAGTGGGACATCGAGAAGCTGCGGAAGCGAGAGCAAA
AGCTCAATAAGCACCTGGCAGAGGCCTTAGAGCAGCTTAACTCTGGCTACTATGTATCTGGGAGCTCCTCAGGCT
TCCAGGGGGGCCAGATCACACTCAGCATGCAGAAGTTTGAGATGCTGAATGCAGAGTTAGAGGAAAACCAGGAAC
TGGCCAACAGCCGTATGGCAGAGCTGGAGAAACTGCAGGCCGAACCTCAGGGGGCTGTGCGGACCAATGAGCGCC
TCAAGGTGGCCCTGCGGAGCCTTCTGAGGAGGTAGTGCGGGAGACGGGGAGTACCGCATGCTGCAGGCCCAAT
TCTCACTGCTCTACAACGAGTCTCTGCAAGTGAAGACCCAGCTAGACGAGGCTCGGGGCTGCTGCTGGCCACAA
AGAACTCCCACCTGCGACACATCGAGCACATGGAGAGCGACGAGCTGGGGCTGCAGAAGAAGCTACGCACAGAGG
TCATTGAGCTGGAGGACACGCTGGCCCAGGTACGCAAGGAGTATGAGATGCTGCGCATCGAGTTTGAGCAGAATC
TGGCGGCCAACGAGCAGGCGGGGGCCCATCAACCGTGAGATGCGCCACCTGATTAGTAGTCTTCAAAAACCACAACC
ACCAGCTAAAAGGGGACGCCAGCGATAACAAGCGGAAGCTTCGAGAAGTACAAGCTGAGATTGGCAAGCTCCGGG
CCCAGGCCAGTGGCTCTGCCACTCCACCCCCAACCTGGGCCACCCAGAGGATTCTGGCGTCAGTGCCCCAGCCC
CAGGGAAAAGAGGAGGGTGGGCCAGGCCCTGTGAGTACCCCCGACAACAGAAAGGAGATGGCTCCAGTGCCCTGGCA
CCACCCTACTACCACTTCACTGAAGAAGGAGGAGCTGGTCCCCCTCTGAAGAGGACTTCCAGGGTATAACCCCTG
GGGCCCAGGGCCCTTCTCCCGGGGCGGAGAACCTGAGGCCAGGCCCAAGCGGGAGCTTCAGGAACGGGAAGGTC
CCAGCCTAGGACCTCCACCTGTAGCCTCCGCTCTCTCAAGGGCTGATCGGGAGAAGGCCAAGGTGGAAGAAACCA
AGCGGAAGGAATCAGAACTCCTCAAGGGTCTCCGAGCAGAGCTCAAGAAGGCCCAGGAGAGCCAGAAGGAGATGA
AACTGCTGCTGGATATGTACAAGTCAGCGCCCAAGGAGCAGCGGGATAAGGTGCAGCTCATGGCAGCGGAACGCA
AGGCTAAGGCCGAGGTTGATGAGCTGCGGAGCCGCATCCGGGAATTGGAGGAGAGGGATCGAAGGGAGAGCAAGA
AGATCGCGGATGAGGATGCCCTGCGGCGCATTCCGCGAGGCAGAGGAGCAGATAGAACACCTGCAGCGCAAGCTGG
GTGCCACCAAGCAGGAGGAGGAGGCTCTGCTCTCAGAGATGGATGTGACAGGTCAGGCTTTTGAGGACATGCAGG
AACAGAACGGGCGGCTGCTACAGCAGTTGCGGGAAAAGGATGATGCCAACTTTAAGCTAATGTGAGAGCGGATCA
AGGCCAACCAAGATTACAAGCTGCTGCGGGAGGAGAAGGATGAGTTGGGCGAGCAGGTCCTTGGCCTCAAGTCCC
AGGTGGATGCCCAGCTGCTGACTGTGTCAGAAGCTAGAGGAGAAGGAGCGAGCCTTGACAGGGCAGCCTCGGGGGTG
TGGAGAAGGAGCTGACGCTGCGCAGCCAAGCCCTGGAGCTCAACAAGCGGAAGGCTGTAGAAGCCGCCCAGCTGG
CCGAGGACCTGAAGGTGCAGCTGGAGCACGTGCAGACTCGGCTGCGGGAGATCCAGCCCTGCCTGGCAGAGAGCC
GGGCTGCTCGTGAGAAAGAGAGCTTCAACCTCAAGAGGGCTCAGGAGGACATCTCACGGCTGCGGCGCAAGCTGG
AAAAGCAGAGGAAGGTGGAGGTCTACGCAGATGCCGACGAAATCCTCCAGGAGGAGATCAAGGAGTACAAGGCGC
GGTTGACCTGCCCTGCTGTAAACACCCGCAAGAAGGATGCAGTCCCTTACCAAGTGCTTCCACGTTTTCTGCTTCG
AGTGCGTGCGGGGCCGCTATGAGGCCCGCCAGAGGAAGTGCCCCAAGTGCAACGCGGCCTTTGGTGCCACGACT
TCCATCGTATCTACATCAGCTGAACCTGAAACTCAGGGGACTCTGGAACACCATGGACCCTGGGGGGCTGTGCCCC
CATCTCCTCCCCACCCAGGTCTAGTGGCCCCACCTCCATTCCGGACCCCATGGGGCCAGCCCCCTGCCCCATCTA
GTTGGTTTTGGGGACCCCTGGTGATGCTAGTGGGCATGGGATCAGCCAAGCTTCGTTCCATCTTTTCTTAAAGGTC
AGAGCTGCAGCCTAGGGGGCACTGCCCTACAGAAAAGGTCTGCCTGAGAGGCCTGAGGAGCCAGAGCACTTGAC
TGAGCTTCCCGGAAACTGGCCCTAACCTGTCTGTCTCCGTGGATGCATCCTAACCTAAGGAAAATTCCCCAGGC
TGTGATCTACCCTAGAGAAGGCTCGCTCCCTGCCTACTGGCTCACAAATGAGGACCAGTGAGCCATGTCTTGT
CCTTGTTTTGAGACTGGGTGCAGGCCCCAGGAAGACTTTCCTTACCCACCATCCCCCTAACCTCGGCAGGGCTT

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FIGURE 4460B

CTGTCCTGTGGAGTTCCCTGGACACCTTGGTCTGGCTCTTGTGCCAAGGGCTGAAGGAGGTACCCTCTTGGCAGA
TGGGGGCATCACTTGCTTCCTTTGGGAAGCTCTAAGGTGCTGCAGTCACCTTCCTCATCTTGCAGGTGCTGAAC
CAACATCATCAGTTTCTATTCTAATCAGGCCCCCTTCCCAATCTCCATTTCTCTGCCAAGCCCATTACCCCCACC
TCATGCATCCCAAGGCTCTACTGGGTCCCTGGACCTAACCCTGCTTTTCATCCTGGTGGCCTTAACTACAGTGGAG
GTGGAACCTTCCCAGGAGGGGAAGGGACAGACCAGCCCCAGCCGCTGGGCCAACTTCCAATCATTCAGCTAGAAG
AGCTTCCCCCTGACACCCTGTGACTGAGCCTGTGTCCTGTCTGCCTGCCAGCCATGCTCCATCGGCTGTGAGGG
CAGTGCCCGGAGAGGCCAGAGGGTTGGAGCTGCAGGGACCCGTTTGGACCCACAGCCTCTGTTCTAGAGATGCTT
GTATAGGCTGTTAATTGTGATGAATAAACGTTCAACCCTCGGCCTGCAGCCAGAGTAGCCAGGCCGCGCACCCC

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FIGURE 4461

CATGGGGTCCTGTCCCAGCAATTCGTGGAGCTCATCAACAAGTGCAATTCAATGCAGTCCGAATACCGGGAGAAG
AACGTGGAGCGGATTCGGAGGCAGCTGAAGATCACCAATGCTGGGATGGTGTCTGATGAGGAGTTGGAGCAGATG
CTGGACAGTGGGCAAAGCGAGGTGTTTGTGTCCAATATCCTGAAGGACACGCAGGTGACTCGACAGGCCTTAAAT
GAGATCTCGGCCCCGGCACAGTGAGATCCAGCAGCTTGAACGCAGTATTCGTGAGCTGCACGACATATTCACTTTT
CTGGCTACCGAAGTGGAGATGCAGGGGGAGATGATCAATCGGATTGAGAAGAACATCCTGAGCTCAGCGGACTAC
GTGGAACGTGGGCAGGAGCACGTCAAGACGGCCCTGGAGAACCAGAAGAAGGCGAGGAAGAAGAAAGTCTTGATT
GCCATCTGTGTGTCCATCACCGTCGTCCTCCTAGCAGTCATCATTGGCGTCACAGTGGTTGGATAATGTCGCACA
TTGTTGGCACTAGGAGCACCAGGAACCCAGGGCCTGGCCTTCTCTCCCAGCAGCCTGGGGGGCAGGCAGAGCCT
CCAGTCGGACCCCTTCCTCACACTGGCCCCTATGCAGAAGGGCAGACAGTTCTTCTGGGGTTGGCAGCTGCTCAT
TCATGATGGCCTCCTCCTTCAGGCCTCAATGCCTGGGGGAGGCCTGCACTGTCCTGATTGGCCGGGACACACGGT
TTTGTAATAAATTAAAAACAAAAAAGAGCATAGAAA

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FIGURE 4462

GGTTTTCTCCGCGGGCGCCTCGGGCGGAACCTGGAGATAATGGGCAGCACCTGGGGGAGCCCTGGCTGGGTGCGG
CTCGCTCTTTGCCTGACGGGCTTAGTGCTCTCGCTCTACGCGCTGCACGTGAAGGCGGCGCGCCCCGGGACCGG
GATTACCGCGCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTGCGCGCTCTTCTCCTCCAGGTGGGGCAGGGGT
TTCGGGCTGGTGGAGCATGTGCTGGGACAGGACAGCATCCTCAATCAATCCAACAGCATATTCGGTTGCATCTTC
TACACACTACAGCTATTGTTAGGTTGCCTGCGGACACGCTGGGCCTCTGTCCTGATGCTGCTGAGCTCCCTGGTG
TCTCTCGCTGGTTCTGTCTACCTGGCCTGGATCCTGTTCTTCGTGCTCTATGATTTCTGCATTGTTTGTATCACC
ACCTATGCTATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAACCCCAAGGGCAAGGCTAAGAGG
CACTGAGCCCTCAACCCAAGCCAGGCTGACCTCATCTGCTTTGCTTTGGCATGTGAGCCTTGCCTAAGGGGGCAT
ATCTGGGTCCCTAGAAAGGCCCTAGATGTGGGGCTTCTAGATTACCCCCTCCTCCTGCCATACCCGCACATGACAA
TGGACCAAATGTGCCACACGCTCGCTCTTTTTTACACCCAGTGCCTCTGACTCTGTCCCCATGGGCTGGTCTCCA
AAGCTCTTTCATTGCCAGGGAGGGAAGGTTCTGAGCAATAAAGTTTCTTAGATCAATC

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FIGURE 4463

GGGCGCAGGCGGCTGGGCGCCTGGCGAGTGGACTGTTTCGAGCCCTTCCGCTGGGACCCGGGCCCCTGGCTCCGGCC
CCGCGATGGGAGCTGCTCTCCGCGGGCTGAGCCTGTCAGCATCCTCGACGCACCCTGGTCCCTGAAGTCGGAGAA
GAGCCCCCTACCCACCCACACCCCCTTGCCCCATTTTGGGTGCGCTGGGTCTCAGTCCTAGCGGATCCTCAGTCC
TAGCGGCCACCGGGTCTGAAAGGAGCAAGACGATGATCTTGGCGTTCGGTGCTGAGGAGCGGTCCCGGGGGCGGGC
TTCCGCTCCGGCCCCCTCCTGGGACCCGCACTCGCGCTCCGGGGCCCGCTCGACGTCGGCCACCGACACACACCAG
TGGAGATGGCTCGGGAGCGCTCCAAGACCGTCACCTCCTTTTACAACCAGTCGGCCATCGACGCGGCAGCGGAGA
AGCCCTCAGTCCGCCTAACGCCACCATGATGCTCTACGCTGGCCGCTCTCAGGACGGCAGCCACCTTCTGAAAA
GTGCTCGGTACCTGCAGCAAGAACTTCCAGTGAGGATTGCTCACC GCATCAAGGGCTTCCGCTGCCTTCTTTCA
TCATTGGCTGCAACCCCACCATACTGCACGTGCATGAGCTATATATCCGTGCCTTCCAGAAGCTGACAGACTTCC
CTCCGATCAAGGACCAGGCGGACGAGGCCCAGTACTGCCAGCTGGTGCGACAGCTGCTGGATGACCACAAGGATG
TGGTGACCCCTCTTGGCAGAGGGCCTACGTGAGAGCCGGAAGCACATAGAGGATGAAAAGCTCGTCCGCTACTTCT
TGGACAAGACGCTGACTTCGAGGCTTGGAATCCGCATGTTGGCCACGCATCACCTGGCGCTGCATGAGGACAAGC
CTGACTTTGTGCGCATCATCTGTACTCGTCTCTCACCAAAGAAGATTATTGAGAAGTGGGTGGACTTTGCCAGAC
GCCTGTGTGAGCACAAGTATGGCAATGCGCCCCGTGTCCGCATCAATGGCCATGTGGCTGCCCGGTTCCCCCTTCA
TCCCTATGCCACTGGACTACATCCTGCCGGAGCTGCTCAAGAATGCCATGAGAGCCACAATGGAGAGTCACCTAG
ACACTCCCTACAATGTCCCAGATGTGGTCATCACCATCGCCAACAATGATGTCGATCTGATCATCAGGATCTCAG
ACCGTGGTGGAGGAATCGCTCACAAAGATCTGGACCGGGTCATGGACTACCACTTCACTACTGCTGAGGCCAGCA
CACAGGACCCCCGGATCAGCCCCCTCTTTGGCCATCTGGACATGCATAGTGGCGCCAGTCAGGACCCATGCACG
GCTTTGGCTTCGGGTGCCCCACGTACGGGCCTACGCGGAGTACCTCGGTGGGTCTCTGCAGCTGCAGTCCCTGC
AGGGCATTGGCACGGACGTCTACCTGCGGCTCCGCCACATCGATGGCCGGGAGGAAAGCTTCCGGATCTGACCCCC
ACAGCCTTTGGCCTGCTCACCCGACCAGCCTGGGCCGCATTCCCTGCAGGACCTCCCGGGTCAGGCAGGGCGGCC
CCCTGCTCCACACACTGCTGCATCTTGGGTCTCAGGGACCCAGACAGATGGACTTACATGGAGCTGGGCCTGCC
CTGCCTCAACAGGGTCCATTGCCTCCTCGCCTCCAGAACTTGGAGCAGGGAAGTGGGCACCCTGAGGCCTCCAGC
ACCAGTTCCGTCAATTCTCGTTCTTGGGGAACCCCCACTCTGACCTGTTATTAAAGTTCACATTTTGAATGCCCTC
TCGGGCCCCGTGTGTGGGGAGGGCAGGTG

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FIGURE 4464

MILASVLRSGPGGGLPLRP LLGPALALRARSTSATDTHHVEMARERSKTVTSFYNQSAIDAAAEKPSVRLTPTMM
LYAGRSQDGSHELLKSARYLQQELPVRIAHRIKGFRCLPFIIGCNPTILHVHELYIRAFQKLTDFPPIKDQADEAQ
YCQLVRQLDDHKDVVTLAEGLRERKHIEDEKLVRYFLDKLTLSRLGIRMLATHHLALHEDKPDFVGIICTRL
SPKKIIEKWVDFARRLCEHKYGNAPRVRINGHVAARFPFIPMPLDYILPELLKNAMRATMESHLDTPYNVPDVVI
TIANNVDVLIIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRISPLFGHLDMHSGAQSGPMHGFGLPTSRA
YAEYLGGSLLQLSLQGIGTDVYLRLRHIDGREESFRI

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FIGURE 4465

ATGCTCAGTCCTCCAGGCGTCGGTGCTCAGCGGTGTTGGAACCTTCGTTGCTTGCTTGCTTGCTGCTGCGCGCGTGCGCG
GAC**ATG**GCCTCAAACGATTATACCCAACAAGCAACCCAAAGCTATGGGGCCTACCCACCCAGCCCGGGCAGGGC
TATCCCAGCAGAGCAGTCAGCCCTACGGACAGCAGAGTTACAGTGGTTATAGCCAGTCCACGGACACTTCAGGC
TATGGCCAGAGCAGCTATTCTTCTTATGGCCAGAGCCAGAACACAGGCTATGGAACCTCAGTCAACTCCCCAGGGA
TATGGCTCGACTGGCGGCTATGGCAGTAGCCAGAGCTCCCAATCGTCTTACGGGCAGCAGTCTCTACCCCTGGC
TATGGCCAGCAGCCAGCTCCCAGCAGCACCTCGGGAAGTTACGGTAGCAGTTCTCAGAGCAGCAGCTATGGGCAG
CCCCAGAGTGGGAGCTACAGCCAGCAGCCTAGCTATGGTGGACAGCAGCAAAGCTATGGACAGCAGCAAAGCTAT
AATCCCCCTCAGGGCTATGGACAGCAGAACCAGTACAACAGCAGCAGTGGTGGTGGAGGTGGAGGTGGAGGTGGA
GGTAACTATGGCCAAGATCAATCCTCCATGAGTAGTGGTGGTGGCAGTGGTGGCGGTTATGGCAATCAAGACCAG
AGTGGTGGAGGTGGCAGCGGTGGCTATGGACAGCAGGACCGTGGAGGCCGCGGCAGGGGTGGCAGTGGTGGCGGC
GGCGGCGGCGGCGGTGGTGGTTACAACCGCAGCAGTGGTGGCTATGAACCCAGAGGTCTGGAGGTGGCCGTGGA
GGCAGAGGTGGCATGGGCGGAAGTGACCGTGGTGGCTTCAATAAATTTGGTGGCCCTCGGGACCAAGGATCACGT
CATGACTCCGAACAGGATAATTCAGACAACAACACCATCTTTGTGCAAGGCCTGGGTGAGAATGTTACAATTGAG
TCTGTGGCTGATTACTTCAAGCAGATTGGTATTATTAAGACAAACAAGAAAACGGGACAGCCCATGATTAATTTG
TACACAGACAGGGAAACTGGCAAGCTGAAGGGAGAGGCAACGGTCTCTTTTGATGACCCACCTTCAGCTAAAGCA
GCTATTGACTGGTTTGATGGTAAAGAATTCTCCGGAATCCTATCAAGGTCTCATTGTGCTACTCGCCGGGCAGAC
TTTAATCGGGGTGGTGGCAATGGTCGTGGAGGCCGAGGGCGAGGAGGACCCATGGGCCGTGGAGGCTATGGAGGT
GGTGGCAGTGGTGGTGGTGGCCGAGGAGGATTTCCAGTGGAGGTGGTGGCGGTGGAGGACAGCAGCGAGCTGGT
GACTGGAAGTGTCTAATCCCACCTGTGAGAATATGAACTTCTCTTGGAGGAATGAATGCAACCAGTGTAAAGGCC
CCTAAACCAGATGGCCCAGGAGGGGGACCAGGTGGCTCTCACATGGGGGGTAACTACGGGGATGATCGTCGTGGT
GGCAGAGGAGGCTATGATCGAGGCGGCTACCGGGGCCGCGGCGGGGACCGTGGAGGCTTCCGAGGGGGCCGGGGT
GGTGGGGACAGAGGTGGCTTTGGCCCTGGCAAGATGGATTCCAGGGGTGAGCACAGACAGGATCGCAGGGAGAGG
CCGTAT**TAA**ATTAGCCTGGCTCCCCAGGTTCTGGAACAGCTTTTTGTCTGTACCCAGTGTTACCCTCGTTATTTT
GTAACCTTCCAATTCTGATCACCCAAGGGTTTTTTTTTGTGTGCGACTATGTAATTGTAACCTATACCTCTGGTTC
CCATTAAAAGTGACCATTTTAGTT

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FIGURE 4466

MASNDYTQQATQSYGAYPTQPGQGYSQSSQPYGQQSYSGYSQSTDTSQYQSSYSSYQSQNTGYGTQSTPQGY
GSTGGYGSSQSSQSSYGQQSSYPGYGQQPAPSSSTSGSYGSSSQSSSYGQPQSGSYSQQPSYGGQQQSYGQQQSYN
PPQGYGQQNQYNSSSGGGGGGGGGNYGQDQSSMSSGGGSGGGYGNQDQSGGGGSGGYGQQDRGGRGRGGSGGG
GGGGGGYNRSSGGYEPRGRGGGRGGRGGMGGSDRGGFNKFGGPRDQGSRDSEQDNSDNNTIFVQGLGENVTIES
VADYFKQIGI IKTNKTGQPMINLYTDRETGKLKGEATVSFDDPPSAKAAIDWFDGKEFSGNPIKVSFATRRADF
NRGGGNRGGGRGRGGPMGRGGYGGGSGGGGRGGFPGGGGGGGQQRAGDWKCPNPTCENMNF SWRNECNQCKAP
KPDGPGGGPGGSHMGGNYGDDRRGGRGGYDRGGYRGRGGDRGGFRGGRGGDRGGFGPGKMDSRGEHRQDRRERP
Y

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FIGURE 4467

ATGCCAAGGTCAGGGGCTCCCAAAGAGCGCCCTGCGGAGCCTCTCACCCCTCCCCATCCTATGGCCACCAGCCA
CAGACAGGGTCTGGGGAGTCTTCAGGAGCCTCGGGGGACAAGGACCACCTGTACAGCACGGTATGCAAGCCTCGG
TCCCCAAAGCCTGCAGCCCCGGCGGCCCTCCATTCTCCTCTTCCAGCGGTGTCTTGGGTACCGGGCTCTGTGAG
CTAGATCGGTTGCTTCAGGAACCTTAATGCCACTCAGTTCAACATCACAGATGAAATCATGTCTCAGTTCCCATCT
AGCAAGGTGGCTTCAGGAGAGCAGAAGGAGGACCAGTCTGAAGATAAGAAAAGACCCAGCCTCCCTTCCAGCCCG
TCTCCTGGCCTCCCAAAGGCTTCTGCCACCTCAGCCACTCTGGAGCTGGATAGACTGATGGCCTCACTCTCTGAC
TTCCGCGTTCAAAACCATCTTCCAGCCTCTGGGCCAACTCAGCCACCGGTGGTGAGCTCCACAAATGAGGGCTCC
CCATCCCCACCAGAGCCGACTGGCAAGGGCAGCCTAGACACCATGCTGGGGCTGCTGCAGTCCGACCTCAGCCGC
CGGGGTGTTCCCAACCAGGCCAAAGCCTCTGTGGCTCCTGCAATAAACCTATTGCTGGGCAAGTGGTGACGGCT
CTGGGCCGCGCCTGGCACCCCGAGCACTTCGTTTTCGGGAGGCTGTTCCACCGCCCTGGGAGGCAGCAGCTTCTTC
GAGAAGGATGGAGCCCCCTTCTGCCCCGAGTGCTACTTTGAGCGCTTCTCGCCAAGATGTGGCTTCTGCAACCAG
CCCATCCGACACAAGATGGTGACCGCCTTGGGCACTCACTGGCACCCAGAGCATTCTGCTGCGTCAGTTGCGGG
GAGCCCTTCGGAGATGAGGGTTTCCACGAGCGCGAGGGCCGCCCTACTGCCGCCGGGACTTCTGTCAGCTGTTT
GCCCCGCGCTGCCAGGGCTGCCAGGGCCCCATCCTGGATAACTACATCTCGGCGCTCAGCGCGCTCTGGCACCCG
GACTGTTTTCTGCTGTCAGGGAATGCTTCGCGCCCTTCTCGGGAGGCAGCTTTTTTCGAGCACGAGGGCCGCCGTTG
TGCGAGAACCACTTCCACGCACGACGCGGCTCGCTGTGCGCCACGTGTGGCCTCCCTGTGACCGGCCGCTGCGTG
TCGGCCCTGGGTGCGCGCTTCCACCCGGACCACTTCACATGCACCTTCTGCCTGCGCCCGCTCACCAAGGGGTCC
TTCCAGGAGCGCGCCGGCAAGCCCTACTGCCAGCCCTGCTTCTGAAGCTCTTCGGCTGA

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FIGURE 4468

CAAAAGCTCGGC**ATG**GCTGACGACGCGGGTTTGGAGACCCCGCTGTGTTCCGAGCAGTTCGGCTCCGGGGAGGCA
CGGGGCTGCCGCGCCGCCGCGGACGGGAGCCTGCAGTGGGAGGTCGGGGGCTGGCGCTGGTGGGGGCTCTCCAGG
GCCTTCACGGTCAAACCTGAAGGACGAGATGCGGGCGAAGTGGGGGCTTCCGGGGCCCCCTCACCGCCCTCTCC
GGGCTCCAGGCCGTGTTCTCCTGCCTCAGGGCTTCCCTGATAGCGTCAGCCCGGACTACTTGCCCTACCAGCTGTGG
GATTCCGTGCAGGCGTTTGCTTCCAGCCTCTCCGGCTCCCTAGCCACCCAGGCAGTCTTGCTGGGCATAGGGGTG
GGGAACGCAAAAGCCACTGTTTCAGCTGCCACGGCCACCTGGCTCGTGAAAGATTCAACTGGCATGCTGGGCCGC
ATCGTCTTTGCCTGGTGGAAAGGGAGCAAACCTGGACTGCAATGCCAAGCAGTGGAGGCTTTTTGCGGACATCCTC
AATGACGTAGCCATGTTCTTGGAGATTATGGCTCCTGTATACCCAATCTGTTTCACCATGACCGTCTCCACCAGC
AACCTAGCCAAGTGCATCGTGAGTGTGCTGGTGGGGCCACTCGGGCTGCCCTGACCGTGCACCAGGCTCGGAGG
AACACATGGCTGACGTGTCAGCCAAGGACAGCAGCCAGGAGACGCTGGTGAACCTGGCGGGGCTCTTGGTCAGC
CTCCTGATGCTCCCTCTGGTGTGAGGTTGCCCTGGCTTACAGCCTTGGATGTTTCTTCTTCTCACTGCCCTCCAC
ATCTACGCCAACTACCGCGCGGTCCGAGCCCTGGTCATGGAGACCTTGAACGAAGGCCGGCTCCGGCTGGTCTG
AAGCACTACCTTCAGAGGGGAGAGGTACTCGACCCAAGTGCAGCCAATCGCATGGAGCCGCTGTGGACAGGTTTC
TGGCCAGCTCCGTCTCTATCCCTGGGGGTCCCCTTACACCGCTTGGTCTCCAGTGTCTTTGAGCTGCAGCAGCTG
GTTGAGGGGCACCAAGAATCCTACCTCCTCTGCTGGGACCAGTCACAAAACCAGGTACAGGTAGTTCTGAACCAG
AAGGCAGGCCCAAGACCATCCTAAGGGCCGCCACACATGGGCTGATGCTTGGGGCCCTGCAGGGAGATGGACCC
CTTCCAGCAGAGCTGGAGGAGCTGAGGAACCGGGTGCGGGCAGGTCTTAAGAAAGAGAGCTGGGTGCTGCTCAAG
GAGACACACGAAGTGTGGACATGCTGTTCCCAAAGTTCTTGAAGGACTGCAGGATGCCGGCTGGAAGACCGAG
AAGCACCAGCTAGAGGTGGGTGAGTGGAGGGCCACATGGCTTCTGTCTCCCGAAAAGAAGGTCTT**GTGAG**CAGCC
CAGACGGAGGCCCAAGCCAGGGCAGGAACCTGGAGCAAGGACACTTTGGCCACAGCAGGACAGGGGAAAGGCAG
CTTTATTTTTCTTAGGGCAACTGCAGCGGGTGGGCCAGGCCCTCATGGGAAGTGAAGTGCCTCAATCAGATGCAGTG
GGCCCCAGGCAGAGGAAGGCCGGGAGAAGGGGAGCCAGGACCTTCTACCCCACTGCCCTTCCCCTTTTCTGGG
GAGCACCAGCAGGCTCCTCACCCCCACTTCCTGTGAGGCTGTGGCTTATGGTGTCCAACGCAGTTGGTCTTAGGCA
TAGAAGCCCCAGAGGAACACGGCCACTGCCATCATGAGCAGGGCATTGAGGTTGACCACACGGGCCAGCTCGGG
TCCTCGCTGATGTCCTCCAGCCGCTGGCTGCTGCCGCTGCCTCCTCCTGGGTAAGGGGCGGAGGACTGCCACCC
CCACCTCTGCTCATTCCACAAAACCAGAGCAGGCAGTGGCGGAAGAGGCTTGGTGCCGGGGCCTGGGGCTCTGAG
GGAAATTGAGGCCCTGCAGTTAGTTTGCGGGAAGTCTCAGCTCCTCCAGCCCCACCTCCCAGCATGGTGCCCTACCA
TTCATCTCCATGGCACTCTCTGGGCACCCATTCTGTACAGGGAGTGAGGAGCCTTGCTGCTCATCAGCATCCAGG
TCCTCCCGTTCTCCTTGCTATGCCGGAGACTGAAGACCAGGCGGTGGAGCTGGGGAGGGTGGGAGCACGAACGA
GGTGGGAGTTCTGTCCCCCATGCCTGGCCCTAAAGTCTCTTGACACACCAGCTCGTCACTGCCTGCCCTACCCAC
CTCTGTCCAGTCTACACACCCAGCCAGGCTTAACTCATGCCAAGTCCACCCCTACATGGCTGCCCTGTGCCCTCG
GGATAAACCCCAAGCCCTGAGCTTGTGTTTAAAGCGTTGGCCTTGCTCCCCAGCTTTGTGAGCTCAGGTCTG
TCTACACCCAGATGGTAGCGCTTGTGACACTGGCCTGGCAGTCTGCTCACAGTGTCTGTGCCCTGTGTGCTCCC
ACCCTTTCTCCTGCTGCTGCAGAAACCCGGCCATCCTTCCACACCCAGATCTCTGTCTGCTCCTCACCCACC
CTGCCACCATCAGCCCTGCCTGGAGCCACCTGCCCTTTGGCAACAAAACCAACCTTTTTGTGGCGTTCAAGAT
GGTATTGTGCCACCCAGTCAGATCCTGTGTTTTGAGTCCCAAAGGCCATGCCAAGGATTGGCTTTGGGAGGCTTT
AATACCAACCCATCAACATCAAGCTCCCCCAGGCCGGTTCAAATAAATGTATTTAAAT

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FIGURE 4469

MADDAGLETPLCSEQFGSGEARGCRAAADGSLQWEVGGWRWWGLSRAFTVKPEGRDAGEVGASGAPSPPLSGLQA
VFLPQGFPDSVSPDYLPYQLWDSVQAFASSLSGSLATQAVLLGIGVGNAKATVSAATATWLVKDSTGMLGRIVFA
WWKGSKLDCNAKQWRLFADILNDVAMFLEIMAPVYPICFTMTVSTSNLAKCIVSVAGGATRAALT VHQARRNNMA
DVS AKDSSQETLVNLAGLLVSLMLPLVSGCPGFSLG CFFFLTALHIYANYRAVRALVMETLINEGRRLVLKHYL
QRGEVLDPTAANRMEPLWTGFWPAPSLSLGVPLHRLVSSVFELQQLV EGHQESYLLCWDQSQNQVQVVLNQKAGP
KTILRAATHGLMLGALQGDGPLPAELEELRNRVRAGPKKESWVVKETHEVLDMLFPKFLKGLQDAGWKTEKHQL
EVGEWRATWLLSPEKKVL

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FIGURE 4470

GCTTCCCTGCTTGATCTGTGTACCCTGCTCTTTCTCCTTCATTCCGCAGCCTCCTTTGCCCTGTGACCTGCAGGT
ACTGGACGGTCCCTAGAGAGGATACCGGGACGCTCCTGAAGCCGCGAGATGATTTCAAGCAGATGCAGCCTGACC
ATTAGGGCCAAGGCCAAATTGCAAAAAAAAAAAGAAGTTTGCCTTTATTCTACTCCATCCACATCTAAACTTTGG
AGGTCAAGGCTGTGGACAGATCAGAAGACATAGTTCCCTCCTTCTGGGGCTCCACATCCTTCATTCACTGATCTC
TGGGAAGGAGGATGGGTGGCAGGATGGGTCTTCCATGATACTGAAGGGAGAGCCACATGTTGATGCCCAGGACCA
GCTGCCTCCTTGGTCTGAAAGGCCTGATCGAGGCCAGGATTGGCTATGAGAGCTGGGAAATGGGACCATCTTTGA
AGCCATGGGAGAGGGTGAGAGCCACCATCACTCATGTTCTTGAATGGGAACTGCCTGGAGACCCTGAAGAAGAAG
GAGCCTGAAGGAGGAAGGAGGAGGCTGAGCCATCCCGGGAACATGGGCTGGATGAGGCCAAGCCAGGAGACGACA
CCACCAGATAGAAGTCACCATTCAAGGATTTGGACTTTTCTGTGGAGATCCTGGCCCCGAGATCGAACCCCTTCTCC
CTGTGGGTGTTCCCGCAGGAGATGGTGCTGGAGATCCACCAGCTGTTTCATGGACCATGAATACCCATGTCACCAC
ATCACTTCTCACTGCACCTGGGTGGCAGCACACTGGACCACGTCTCAGAGCTGCGCAGCATGGCAGGGCTGCAGG
CGGGCTTGCTGCTCCACGTGGTGGAAGAGCCCTGCACAATGCACAAGGCCCCACGGTGATGAGTGCCACATTTGAG
ACTGCTCAGGAGCCTGGACCCAGCTGATGCAGCTCCTTGTCCTTCTGAGCGTCTTCACTGACAGTGGCCTGAGA
GACGGCAGGAGCAGAAAGACTTGAGATGGACCCACCGACTGCACACCACCCAAGTACATCCTGCTAGGGACCC
TGGAACAGCCACTGTGTCCCTGCAACCCAGAACGGTGACTAAAAGCCCCCTGAAAGTGCTCACCGTGAGCGGCT
GGTACCTGTCCCCTGGGAACTGCAAGATGCACAGGACCTTGTGTACCTGTTTGTGATCACAGCCGAGGACCAGCG
AGGTAGCATTACCACATCCACACAGGGCTTTTACCATAACCGCCCCAGTACTGGAACGAGGAGCTGCAGATGATG
AGGGACCTACCCAACAAGAACCAACCTGAGCAGCTGCTTCAAGAAAAAGCCATGTTCAAGGTGCCTGAATCCCCCT
GGTAAGTGAGTGACAGCCTCACAGCCTCAGGCCCCACCTGGCTCCTGCTGGAAGGTTTTCTTGTGCTCGGGAGAGA
AGTGAGGGAAGCCGGCAGTCCCAGCCCTGTCAGGTGCCCTGAAGGCCCGTCAGGTTTGGCCTGCAAGGCCTTCTA
GCATTCTGCTTCTTGGGAGACCATCCCCACCTTTCTCCGGCCTCTGAGACTTTGAGTCCTTGGGAGGAGAAGGC
CCTCCTTGCTATCTGGGCTGAGTGGCCAGGGCCATCCAGCTTCCCACCCCTCCACTGACTGCCATGGGGCCCTCCC
CTGAGCACATGGTGCCCAACTGTAGCCCTTCTAGGGCAGGGGCTCATTGGCAGCACTTGCAGCTTGCTGGCACTT
AAAAGTCATTAGTGCGGTTACTGAGAGAAATGAGGAAAAATAATTGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4471

MFLNGNCLETLLKKKEPEGGRRRLSHPGNMGWMRPSQETTPPDRSHHSGFGLFCGDPGPEIEPFSLWVFPQEMVLE
IHQLFMDHEYPCHHITSHCTWVAAHWTTSQSCAAWQGCRACCSTWWKSPAQCTRPTVMSATFETAQEPGPS

i

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FIGURE 4472

AAGAAGAGGCGAGAAAGACCCCCGACAGACCAAAGCCCGTGTGCCGCTGCATCCTGCATCCAGCACCTACCTCC
CGCCACTGTCGCCACTGCCACCATGCCCAAGAGAAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAA
GGATGAACCACAGAGAAGATCCGCAAGGTTGTCTGCTAAACCTCCTCCTCCAAAGCCAGACAGCCCAAGCCTAGA
AAGGCCCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATT
CCTGACTTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTTGTTTTTATGTCCT
CTTCTCCCTTTCCATCTTTTCTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCCTTAGTC
ATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGTAGTG
GTTCCATTTCTAGATTGTAGATCTTCAGATAAATTCTGCCATTTTCAATTTCACTTCCTGAAAGTCAGGGTCGGCT
TCTAAAAATTTGTTAAACAATATGCTAAATGTGAAATGTCACCCCTCACTCTAAACTTTCCCCGTTTCTAGAGCATC
AGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTT
GTTGTATACTGTTAACGATTATCTGCCCATGTCCTGCCT

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FIGURE 4473

MPKRKAEGDAKGDKAKVKDEPQRRSARLSAKPPPPKPDSPSLERPLQRRRERRYPKGKREKLMLRRRDSLTLTHMA
TLAQKPCGIEKQICFYVLFSLSFQHRLNSLKPRHLLGPD

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FIGURE 4474

CCGCTCTGTCTGCTTCGCCACCTTCTCCCCGAGCACTGCCCCGGCCGGCCGCC**ATG**GCTAACGTGGCTGACACGAA
GCTGTACGACATCCTGGGCGTCCCGCCCCGGCGCCAGCGAGAACGAGCTGAAGAAGGCATACAGAAAGTTAGCCAA
GGAATATCATCCTGATAAGAATCCAAATGCAGGAGACAAATTTAAAGAAATAAGTTTTGCATATGAAGTACTATC
AAATCCTGAGAAGCGTGAGTTATATGACAGATACGGAGAGCAAGGTCTTCGGGAAGGCAGCGGCGGAGGTGGTGG
CATGGATGATATTTTCTCTCACATTTTTTGGTGGGGGATTGTTCCGGCTTCATGGGCAATCAGAGTAGAAGTCGAAA
TGGCAGAAGAAGAGGAGAGGACATGATGCATCCACTCAAAGTATCTTTAGAAGATCTGTATAATGGCAAGACAAC
CAAACCTACAACCTTAGCAAGAATGTGCTCTGTAGTGCATGCAGTGGCCAAGGCGGAAAGTCTGGAGCTGTCCAAAA
GTGTAGTGTCTGTGCGAGGTTCGAGGTGTGCGCATCATGATCAGACAGCTGGCTCCAGGGATGGTACAACAGATGCA
GTCTGTGTGCTCTGATTGTAATGGAGAAGGAGAGGTAATTAATGAAAAGACCGCTGTAAAAAATGTGAAGGGAA
GAAGGTGATTAAAGAAGTCAAGATTCTTGAAGTCCACGTAGACAAAGGCATGAAACATGGACAGAGAATTACATT
CACTGGGGAAGCAGACCAGGCCCCAGGAGTGGAAACCCGGAGACATTGTTCTTTTGCTACAGGAGAAAGAACATGA
GGTATTTTCAGAGAGATGGGAATGATTTGCACATGACATATAAAATAGGACTTGTTGAAGCTCTATGTGGATTTCA
GTTACATTTTAAGCACCTTGATGGACGTCAGATTGTGGTGAAATACCCCCCTGGCAAAGTAATTGAACCAGGGTG
TGTTCCGTGTAGTTCGAGGTGAAGGGATGCCGCAGTATCGTAATCCCTTTGAAAAAGGTGATCTTTACATAAAGTT
TGATGTGCAGTTTCCCTGAAAACAACTGGATCAACCCAGACAAGCTTTCTGAACTAGAAGATCTTCTGCCATCTAG
ACCGGAAGTTCCTAACATAATTGGAGAAACAGAGGAGGTAGAGCTTCAGGAATTTGATAGCACTCGAGGCTCAGG
AGGTGGTCAGAGGCGTGAAGCCTATAATGATAGCTCTGATGAAGAAAGCAGCAGCCATCATGGACCTGGAGTGCA
GTGTGCCCATCAG**TAA**ACTCTGCAACAAATTGCACAGGTGGATTTTCTTTCCACATTTGCCTGATTTGTTCTCA
GCAATCCAGCTGGAGTGTCTTATCAATCCAGATGAACTGAGGGACATCTGTTGGTCTATGTATAACTTTTAAAT
TGGTATAGTATCTACAGAGTGTATAATTTAAACTAACCACAAAGCTTTACATCTTCATTTTGACTGTTCCATAGC
AGAATAAAGCACTTGAAAGGAAACAAGACTCCCTTTCACACATGGATTATTATAAGTTTCAATCCTGGTATCTGT
GCTTGATTTTTATCAGTTTTTGTGTAGATTTTTATGTTTCATATTTTAAATTTAAATCCCACATTGTAAAGTTTGT
ACAATTTGTCCTGAAGCTTTGTGTTTGGCTGCACCTGCATAAGCTGCTACAAATAGAATAAAGAATTTCATAGCC
TGTATCTATCATTTAGATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCTGACTGGGAACAATGG
AAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTTTGTTTTTTGGTTTTTGTTTTTTTTTTCTTTTTTCTTTTTTT
TTTTTTTACCATCTTGTGAAAGGTTTCTGAAACTCGATAATAAAAAGCGGTTGGTGTAATT

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FIGURE 4475

MANVADTKLYDILGVPPGASENELKKAYRKLAKYHPDKNPNAGDKFKEISFAYEVLSNPEKRELYDRYGEQGLR
EGSGGGGGMDDIFSHIFGGGLFGFMGNQSRSRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKNVLCSSACSGQG
GKSGAVQKCSACRGRGVRIMIRQLAPGMVQQMQSVCSDCNGEGEVINEKDRCKKCEGKKVKEVKILEVHVDKGM
KHGQRITFTGEADQAPGVEPGDIVLLQLQEKEHEVFQRDGNDLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPP
GKVIEPGCVRVVRGEGMPQYRNPFEKGDLYIKFDVQFPENNWINPDKLSELEDLLPSRPEVPNIIGETEEVELQE
FDSTRGSGGGQRREAYNDSSDEESSHHGPGVQCAHQ

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FIGURE 4476

GGCACGAGCGCGCGTTCACGGGAATTGTTTCGCTTTAGTGCCGGCGCCATGGGGTTCGGAGCTGATCGGGCGCCTA
GCCCCGCGCCTGGGCCTCGCCGAGCCCGACATGCTGAGGAAAGCAGAGGAGTACTTGCGCCTGTCCCGGGTGAAG
TGTGTCGGCCTCTCCGCACGCACCACGGAGACCAGCAGTGCAGTCATGTGCCTGGACCTTGCAGCTTCCTGGATG
AAGTGCCCCCTTGGACAGGGCTTATTTAATTAAACTTTCTGGTTTGAACAAGGAGACATATCAGAGCTGTCTTAAA
TCTTTTGAGTGTTTACTGGGCCTGAATTCAAATATTGGAATAAGAGACCTAGCTGTACAGTTTAGCTGTATAGAA
GCAGTGAACATGGCTTCAAAGATACTAAAAAGCTATGAGTCCAGTCTTCCCCAGACACAGCAAGTGGATCTTGAC
TTATCCAGGCCACTTTTCACTTCTGCTGCACTGCTTTCAGCATGCAAGATTCTAAAGCTGAAAGTGGATAAAAAAC
AAAAATGGTAGCCACATCCGGTGTAAAAAAGCTATATTTGATCGACTGTGTAAACAAGTAGAGAAGATTGGACAG
CAGGTCGACAGAGAACCTGGAGATGTAGCTACTCCACCACGGAAGAGAAAGAAGATAGTGGTTGAAGCCCCAGCA
AAGGAAATGGAGAAGGTAGAGGAGATGCCACATAAACCACAGAAAGATGAAGATCTGACACAGGATTATGAAGAA
TGGAAAAAGAAAAATTTTGGAAAATGCTGCCAGTGCTCAAAAGGCTACAGCAGAGTGAATTTTTCAGCTTCCAACTGG
TATACATTCCAACTGATAGTACATTGCCATCTCCAGGAAGACTTGACGGCTTTGGGATTTTGTAACTTTTA
TAATAAGGATCCTAAGACTGTTGCCTTTAAATAGCAAAGCAGCCTACCTGGAGGCTAAGTCTGGGCAGTGGGCTG
GCCCCCTGGTGTGAGCATTAGACCAGCCACAGTGCCTGATTGGTATAGCCTTATGTGCTTTCTACAAAATGGAAT
TGGAGGCCGGGCGCAGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGT
CAGGAGCTCGAGACCAGCCTGGCCAACATGGTGAAACCCATCTCTACTAAAAATACAAAAATTAGCCAGGTGTG
ATGGTGCATGCCCTGTAATCCCAGCTCCTCAGTAGGCTGAGACAGGAGCATCACTTGAACGTGGGAGGCAGAGGTT
GCAGTGAGCCGAGATTGCACCACCGCACTCCAGCCTGGGTGACAGAGCGAGACTTATCTCATAAATAAATAGATA
GATACTCCAGCCTGGGTGACAGAGCGAGACTTATAGATAGATAGATAGATAGATGGATAGATAGATAGATAGATA
GATAGATAGATAAACGGAATTGGAGCCATTTTGCTTTAAGTGAATGGCAGTCCCTTGTCTTATTCAGAATATAAA
ATTAGTCTGAATGGCATCTTACAGATTTTACTTCAATTTTGTGTACGGTATTTTTTATTGACTAAATCAATA
TATTGTACAGCCTAAGTTAATAAATGTTATTTATATATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4477

MGSELIGRLAPRLGLAEPDMLRKAEEYLRLSRVKCVGLSARTTETSSAVMCLDLAASWMKCPLDRAYLIKLSGLN
KETYQSCLKSFECLLGLNSNIGIRDLAVQFSCIEAVNMASKILKSYESSLPQTQQVDLDLSRPLFTSAALLSACK
ILKLKVDKNKMVATSGVKKAI FDR LCKQLEKIGQQVDREPGDVATPPRKRKKIVVEAPAKEMEKVEEMPHKPQKD
EDLTQDYEEWKRKILENAASAQKATAE

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FIGURE 4478

TATTTTGTCTCAGATGTGTTGAACCTCGATTAAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTAAATCTGAGAAGCAGTTTG
TCAAAATTGTAACCTCTGATTCCGAGCAGGAAAAATATCTCCATGGTGGAAGGGTTAAATTTGATTTCGGAGATGGAA
CAGTTGAAACAAAAGCTGAAACTCATTGAGAAATCCTTTGTTGAGGTATGTGTTTGGTTATCAGAAGAATTCTAAC
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT
CCATTGTCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCTTGGCCATTATGTGGTACATGGC
ACTTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC
AAAGGCGACACTTTTGTGGACTGCACTGGTGTGATATTAATAATCTCAGGCATAAAATTTGTTTCAGCATGATGCT
GTAGAGGGAATCTTAATTGTTTACCGTGGTAAGACTACGCTGGAAGAACTGTGTGCTGCAGTGTGAGACGACCGGA
GTCACAGTGGGACATCAGCAGAGTTTCTAATGAAGAACTCGGATTTATATGGCGCCAAGGGTGCTGGTATAGAA
ATCTACCCTGGGAGTCAGTGACCCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAATAATGAAGGTTATGGT
GTTGTCTTGGTGAAACCTACAATCTTCTCTGACCTGCAAGAAAATGCTGAAGATGGAAGTGAAGAAAATAAAGCG
CTTAAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT
GGTAAAATGGAGCTTTGTGCAAGAACTGACCCTTCTGAGCAAGTCGAGGGAAATTTGTGAAATTGTAAATGAACATA
ATTGCTGCCTCCACACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAAGTGGGGATCAGCAAGCTGATGAC
AACTTAATGTACAGGAGATGTTTGTGGGATTGTGGGAACCAAGTCAAGTGGAAATGGGAAAGGTAGTTTTGGC
ACATTTCTTTTCTGACTACAGTGTGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAATCA
CTGCTGCCATTGTAGTTTGTCTGTATTGTCTGTATTTTATATTTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA
TTTCCATTTGCAGGTGTTGCACATAAAACACTCCCTCTTTATAAGAAAAATCATAAATGCATATAAAATAGAAAA
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTAGTAAGT
TTTTAGTGTAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAATGCAAGACTAGTGCATAAAATG
CAATAGGTGTATATGTACAGCATTCTTCTTAGAGTTGCCTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC
CTGTATTTGCATAATACTTGTCTTAAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA
TTGAGACGTCAATGGGACGCATTTTTCTGTTGAGCTATGCAGTCGTCAAACAGCGATAGACAGCATAGGAGGTT
TGAAGCAGAAATGAAATGTGTTATTTCAGAGCCAATGTTGTACATAGAGCATTTTCACTATTGCTGAATGGGAATG
ATTAAAAACAAGGTATTTTTTCGGGCCAGGCGGTGGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG
GAGGATCACTTGAGCCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGCATGTAGTTCAGCTACTCAGGAGGCTGAGGCTAGAGGATCC
TTGAGCCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCGCCACTGCATTCCAGCTTGGGCGACAGAGCGAGAC
CCAGTCTCAAAAAAAAAAAAAAGTATTTTCTCTTACCGTTACAGTATTCTGATTATATTACTGACACAGTCAAA
ATGATTAAGTGTACAACCTGTATCTGCTGGGTGTTCTTGTATCATATTGTAAAACAGCTTTAAAAATATTTATA
TTTTAAAACTGTATGTGACATTAATATGCCTAATGATTAAATTTATAGTGATGAAATAACAAAA

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FIGURE 4479

GCTGCAACACCGAGCGGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGATCACC
ACCATTGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGC
CTCCAGCAAGAAGTTGAGGGAGAAAGGCGGGCCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCA
GAAAAAGCTGCTGGTGAGAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAGATGAAGAAAAGATG
GAACTCCAAGAAGCTCCAAGCTCAAAGAAGCTAAGCACATTCAGAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCT
CGTAAGTTGGTGACCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCCCGTTGCCGA
GAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAA
AAAGAAGACAAATATGAGGAAGAAATCAAGATTTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAGTTT
GCTGAGCGATCGGTAGCCAAGCTGGAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGAGGAG
CACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAATGCCCCAGTCCCACCC
TGCTGCTGCTCCTCCCTGTGACCCAGACTCCGCCTGAGGCCAGCCTGCCAGAAGCTGACCTTTAACTGAGGGCTG
ATCTTTAACTGGAAGGCTGCTTTCTCCTTTACCGCCCCCTCCTTCCCTGTGTCTTTTTCGCCAAACTGTCTCTG
CCTTTTCCCGGAGAATCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAACAACATTTAAGGGAATGTGAGCACAA
TGCATAATGTCTTTAAAAAGCGTGTTGTGATGTACACATTTTGTAAATTACCTTTTTTGTGTTTTGTAGCAAACA
TTTGTAACCATTCCAAATAATTCCACAGCCCTGAAGCAGCAATCAAATCCCTTTCTCACTTTTGAAGGTGACT
TTTACCTTAATGCATATTCCTCTCCATAGAGGAGAGGAAAAGGTATAGGCTTGCCTTGCTGAGAGCCAAACA
GAGCCCAGGGAGACTCCACTGTGGGAAACCTCATTGCTCTGTACAAAGTACTAGCTAAACCAGAAAGGTGATTCC
AGGAGGAGTTAGCCCAACAACAACAAAAACAAAAATGTGCTGTTCAAGTTTTTCAGCTTTAAGATATCTTTGGATA
ATATTATTTCTATTTTTTTATTTTTTTTTCATTAGAAATGATCAAATTAAGATGGTTAAGACCTCTGAGACCAAACT
TTCTCTCATCTCTACCCCTCCCAACTGCTCACAGAACGGATCATGTCCCCCTTATGTTGAGGTGACCACTTAAT
TGCTTTCTGCTCCTTGAAAGAAAGAAGATTGTGTTTTCTCCACTGATTTAGCCATGTGAAACTCATCTCATT
CCCTTTTCTGGGTTTCAAGCTGCTGTCTCTAGAAGTGCCATCTCATTGTGCTTCGTATCAGTCAGTGCTGGAGAA
ATCTTGAATAGCTTATGTACAAAACTTTTTAAATTTTATATTATTTTAAACCTTTGCTTCTTTGGGTTTGTGGCA
CCCTGGCCACCCCATGTGGCTGTGACAGCCTCTGCAGTCCGTGGGCTGGCAGTTTGCTGATCTGTTAAATTTCT
TTCCCTACCCAGTCCCCATTTTCTGGTAAGGTTTTCTAGGAGGTCTGTTAGGTGTACATCCTGCAGCTTATTGGCT
TAAATGTACTCTCCTTTTATGTCGTCTCTTTGGGGCTGATTGGGAGAAAGAGAAATCAATAGTGCAACTGTTTT
GATACTGAATATTGACAAGTGTCTTTTTGAAATAAAGAACCAGTCCCTCC

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FIGURE 4480

GGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGATCACCACCATTGAGGCGGTG
AAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCAAGAAGTT
GAGGGAGAAAGGCGGGCCCGGAAACAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAAGATGAAGAAAAGAT
GGA ACTCCAAGA ACTCCA ACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGC
TCGTAAGTTGGTGACCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCCCGTTGCCG
AGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCA
AAAAGAAGACAAATATGAGGAAGAAATCAAGATTTTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAGTT
TGCTGAGCGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGAGGA
GCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAAATGCCCCAGTCCCACC
CTGCTGCTGCTCCTCCCTTTTCCCGGAGAATCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATTTAAG
GGAATGTGAGCACAATGCATAATGTCTTTAAAAGCGTGTGTGATG

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FIGURE 4481

MMQRSELSASSKKLREKGGPGNRGMKVIENTRALKDEEKMELQELQLKEAKHIAEEADRYEEVARKLVTIEGDLE
RTEERAELTESRCREMDEQIRLMDQNLKCLSAEEKYSQKEDKYEEEIKIFTDKPKEAETCAEFAERSVAKLEKT
IDDLEDKCLKCTKEEHLCTQRMLDQTLDDL NEM

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FIGURE 4482

GGAGGCTGCAACACCGAGCGGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGAT
CACCACCATTTGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCAAGAAGTTGAGGGAGAAAGGCGGGCCCCGAAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACCG
TAGGATCCAGCTGGTTGAAGAAGAGCTGGATCGTCCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAAGCTGGAAGA
AGCAGAAAAAGCTGCTGGTGAGAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAAGATGAAGAAAA
GATGGAACTCCAAGAAGCTCCAAGCTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGT
GGCTCGTAAGTTGGTGACCATTTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCTACTCT
CAAAAAGAAGACAAATATGAGGAAGAAATCAAGATTTTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAG
TTTGCTGAGCGATCGGTAGCCAAGCTGGAAAAGACA

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FIGURE 4483

ATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACA
ACTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGAAGTGTGTGGTAATGAGAGATCCAAAC
ACGAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGG
CCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGATGCC
CACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTT
GAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACAGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTT
GTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACCATACTGTGAATGGCCACAAGTGT
GAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGGAGAATGCAAGGACCT
GAGCTTCTCTTCCTCAAGCCCCTCACAGCGACTGGGCCTTTACAACCTCAATGTTCTGAAGCTCTGGTACTGTTTAA

FIGURE 4484

TGGTTTCGCGCTGCATCTCCAGACCTTCCTCAGGCGGCTGGCTGGAGGCTGCGCATCTGGGGCTTTAAACACATACAAAGGGA
 TTGCCAGGACCTGCGGCGGCGGCGGCGGCGGGGCTGGGGCGCGGGGGCCGGACCATGAGCCGCTGAGCCGG
 GCAAACCCCAGGCCACCGAGCCAGCGGACCCTCGGAGCGCAGCCCTGCGCCGCGGAGCAGGCTCCAACCAGGCGG
 CGAGGCGGCCACACGCACCGAGCCAGCGACCCCCGGGCGACGCGCGGGGCCAGGGAGCGCTACGATGGAGGCGCT
 AATGGCCCCGGGGCGCGCTCACGGGTCCCCTGAGGGCGCTCTGTCTCCTGGGCTGCCTGCTGAGCCACGCCGCCGC
 CGCGCCGTCGCCCATCATCAAGTTCCCCGGCGATGTGCGCCCCAAAACGGACAAAGAGTTGGCAGTGCAATACCT
 GAACACCTTCTATGGCTGCCCCAAGGAGAGCTGCAACCTGTTTTGTGCTGAAGGACACACTAAAGAAGATGCAGAA
 GTTCTTTTGGACTGCCCCAGACAGGTGATCTTGACCAGAATACCATCGAGACCATGCGGAAGCCACGCTGCGGC
 CCCAGATGTGGCCAACTACAACCTTCTTCCCTCGCAAGCCCAAGTGGGACAAGAACCAGATCACATACAGGATCAT
 TGGCTACACACCTGATCTGGACCCAGAGACAGTGGATGATGCCTTTGCTCGTGCCCTTCCAAGTCTGGAGCGATGT
 GACCCCACTGCGGTTTTTCTCGAATCCATGATGGAGAGGCAGACATCATGATCAACTTTGGCCGCTGGGAGCATGG
 CGATGGATACCCCTTTGACGGTAAGGACGGACTCCTGGCTCATGCCTTCGCCCCAGGCACTGGTGTGGGGGAGA
 CTCCCATTTTGATGACGATGAGCTATGGACCTTGGGAGAAGGCCAAGTGGTCCGTGTGAAGTATGGGAACGCCGA
 TGGGGAGTACTGCAAGTTCCCCTTCTTGTTCAATGGCAAGGAGTACAACAGCTGCACTGATACCGGCCGCGACGGA
 TGGCTTCCCTCTGGTGCTCCACCACCTACAACCTTTGAGAAGGATGGCAAGTACGGCTTCTGTCCCCATGAAGCCCT
 GTTCACCATGGGCGGCAACGCTGAAGGACAGCCCTGCAAGTTTCCATTCCGCTTCCAGGGCACATCCTATGACAG
 CTGCACCACTGAGGGCCGCGACGGATGGCTACCGCTGGTGCGGCACCACTGAGGACTACGACCGCGACAAGAAGTA
 TGGCTTCTGCCCTGAGACCGCCATGTCCACTGTTGGTGGGAACCTCAGAAGGTGCCCCCTGTGTCTTCCCCTTAC
 TTTCTGGGCAACAAATATGAGAGCTGCACCAGCGCCGGCCGAGTGACGGAAAGATGTGGTGTGCGACCACAGC
 CAACTACGATGATGACCGCAAGTGGGGCTTCTGCCCTGACCAAGGGTACAGCCTGTTTCTCTGTGGCAGCCACGA
 GTTTGGCCACGCCATGGGGCTGGAGCACTCCCAAGACCCTGGGGCCCTGATGGCACCATTACACCTACACCAA
 GAACTTCCGTCTGTCCCAGGATGACATCAAGGGCATTGAGGAGCTCTATGGGGCCTCTCCTGACATTGACCTTGG
 CACCGGCCCCACCCCCACGCTGGGCCCTGTCACTCCTGAGATCTGCAAACAGGACATTGTATTGATGGCATCGC
 TCAGATCCGTGGTGAGATCTTCTTCTTCAAGGACCGGTTCAATTGGCGGACTGTGACGCCACGTGACAAGCCCAT
 GGGGCCCCCTGCTGGTGGCCACATTCTGGCCTGAGCTCCCGGAAAAGATTGATGCGGTATACGAGGCCCCACAGGA
 GGAGAAGGCTGTGTTCTTTGCAGGGAATGAATACTGGATCTACTCAGCCAGCACCCCTGGAGCGAGGGTACCCCAA
 GCCACTGACCAGCCTGGGACTGCCCCCTGATGTCCAGCGAGTGGATGCCGCTTTAACTGGAGCAAAAACAAGAA
 GACATACATCTTTGCTGGAGACAAATCTGGAGATACAATGAGGTGAAGAAGAAAATGGATCCTGGCTTCCCCAA
 GCTCATCGCAGATGCCTGGAATGCCATCCCCGATAAAGTGGATGCCGCTCGTGGACCTGCAGGGCGGCGGTACAG
 CTACTTCTTCAAGGGTGCTATTACCTGAAGCTGGAGAACC
 AAAGTCTGAAGAGCGTGAAGTTTGAAGCATCAA
 ATCCGACTGGCTAGGCTGCTGAGCTGGCCCTGGCTCCCACAGGCCCTTCTCTCCACTGCCTTCGATACACCGGG
 CCTGGAGAACTAGAGAAGGACCCGGAGGGGCTGGCAGCCGTGCCTTACAGCTCTACAGCTAATCAGCATTCTCAC
 TCCTACCTGGTAATTTAAGATTCCAGAGAGTGGCTCCTCCCGGTGCCCAAGAATAGATGCTGACTGTACTCCTCC
 CAGGCGCCCCCTTCCCCCTCCAATCCCACCAACCCTCAGAGCCACCCCTAAAGAGATACTTTGATATTTTCAACGC
 AGCCCTGCTTTGGGCTGCCCTGGTGCTGCCACACTTCAGGCTCTTCTCCTTTTACAACCTTCTGTGGCTCACAGA
 ACCCTTGGAGCCAATGGAGACTGTCTCAAGAGGGCACTGGTGGCCCGACAGCCTGGCACAGGGCAGTGGGACAGG
 GCATGGCCAGGTGGCCACTCCAGACCCCTGGCTTTTCACTGCTGGCTGCCTTAGAACCTTTCTTACATTAGCAGT
 TTGCTTTGTATGCACTTTGTTTTTTTCTTTGGGTCTTGTTTTTTTTTTTCCACTTAGAAATTGCATTTCTGACAG
 AAGGACTCAGGTTGTCTGAAGTCACTGCACAGTGCATCTCAGCCACATAGTGATGGTTCCCCTGTTCACTCTAC
 TTAGCATGTCCCTACCGAGTCTCTTCTCCACTGGATGGAGGAAAACCAAGCCGTGGCTTCCCGCTCAGCCCTCCC
 TGCCCCCTCCCTTCAACCATTCCCCATGGGAAATGTCAACAAGTATGAATAAAGACACCTACTGAGTGGC

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FIGURE 4485

CACATGTAAACTACTTGAACTCCATTTTCATCTTTTTTCATACCATCTCTAAGATTGCTGCCGCATTTGCTTGTTA
AACTGAAAAGCATGTTTCTTGCAAAGGCTCTATTGGAAGGAGCAGATCGAGGTCTTGGAGAAGCTCTTGGAGGCCT
CTTTGGAGGAGGTGGTCAGAGAAGAGAAGGAGGAGGAAGAAATATTGGAGGGATAGTTGGAGGAATTGTGAATTT
TATCAGTGAGGCTGCAGCAGCTCAGTATACTCCAGAACC GCCTCCCACTCAGCAGCATTTACCAGTGTGGAGGC
CTCAGAAAAGTGAGGAAGTTAGGCGATTTTCGGCAACAATTTACACAGCTGGCTGGACCAGACATGGAGGTGGGTGC
CACTGATCTGATGAATATTCTCAACAAAGTCCTTTCTAAGCACAAAGATCTTAAGACTGACGGTTTTAGTCTTGA
CACCTGCCGGAGCATTGTGTCTGTTCATGGACAGTGACACGACTGGTAAGCTGGGCTTTGAAGAATTTAAGTATCT
GTGGAACAACATCAAGAAATGGCAGTGTGTTTATAAGCAGTATGACAGGGACCATTCTGGGTCTCTGGGAAGTTC
TCAGCTGCCGGGGAGCTCTGCAGGCCGCAGGCTTCCAGCTAAATGAACAACCTTTACCAAATGATTGTCCGCCGGTA
TGCTAATGAAGATGGAGATATGGATTTTAACAATTTTCATCAGCTGCTTGGTCCGCCTGGATGCCATGTTTCGTGC
CTTCAAGTCTCTGGATAGAGATAGAGATGGCCTGATTCAAGTGTCTATCAAAGAATGGCTGCAGTTGACCATGTA
TTCCTGAAGTGGGAAGTGAGAAGTCAAGATCCTCCCTGGAGGACAGGACTGAAAACCTTGCCAAGCTGTACACAG
TTGCTGATACCCCTGTGCAACAGCTCTCATTTCCTGGCAAGCTCTTTCACAACCCTACATATTTCTGATCATGTGC
TGCCTTTTACTGCTGAATTTAAACAGATATTTTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4486

MFLAKALLEGADRGLGEALGGLFGGGGQRREGGGRNIGGIVGGIVNFISEAAAAQYTPEPPPTQQHFTSVEASES
EEVRRFRQQFTQLAGPDMEVGATDLMNILNKVLSKHKDLKTDGFSLDTCRSIVSVMDSDTTGKLGFEFEFKYLWNN
IKKWQCVYKQYDRDHSGSLGSSQLRGALQAAGFQLNEQLYQMIVRRYANEDGDMDFNNFISCLVRLDAMFRAFKS
LDRDRDGLIQVSIKEWLQLTMYS

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FIGURE 4487

CCTCGGCGTGCCCCCAGGACCGGTAAAGTTCTCTCGCCAGCCGCATCCATGCTTCTGGCGCGGATGAACCCGCA
GGTGCAGCCCGAGAACAAACGGGGCGGACACGGGTCCAGAGCAGCCCCCTTCGGGCGCGCAAACTGCGGAGCTGCT
GGTGGTGAAGGAGCGCAACGGCGTCCAGTGCCCTGCTGGCGCCCCGCGACGGCGACGCGCAGCCCCGGGAGACCTG
GGGCAAGAAGATCGACTTCCTGCTGTCCGTAGTCGGCTTCGCAGTGGACCTGGCCAACGTGTGGCGCTTCCCCCTA
CCTCTGCTACAAGAACGGCGGGCGGTGCCTTCTTGATCCCGTACACACTGTTCTTATCATCGCGGGGATGCCCT
GTTCTACATGGAGCTGGCTCTGGGACAGTACAACCGGGAGGGGGCTGCCACCGTTTGGAAAATCTGCCCATTTCTT
CAAAGGCGTTGGCTATGCTGTATCCTGATCGCCCTGTACGTTGGCTTCTACTACAACGTATCATCGCCTGGTC
ACTCTACTACCTCTTCTCCTCCTTCAACCTGCCCTGGACCGACTGTGGCCACACCTGGAACAGCCCCAA
CTGTACCGACCCCAAGCTCCTCAATGGCTCCGTGCTTGGCAACCACACCAAGTACTCCAAGTACAAGTTCAGCC
GGCAGCCGAGTTTTATGAGCGTGGTGTCTGACCTTCACGAGAGCAGCGGGATTTCATGACATCGGCCTGCCCA
GTGGCAGCTCTTGCTCTGTCTGATGGTCTGTCATCGTCTTGTATTTTAGCCTCTGGAAAGGGGTGAAGACATC
AGGAAAGGTGGTGTGGATCACAGCCACGCTGCCTTACTTCGTGCTGTTTCGTGCTCCTGGTCCATGGCGTCACGCT
GCCCGGAGCCTCCAATGGCATCAATGCCTACCTGCACATCGACTTCTACCGCTTGAAAGAGGCCACGGTATGGAT
TGATGCCGCAACTCAGATATTTTTTCTTGGGGGCTGGATTTGGAGTATTGATTGCATTTGCCAGTTACAACAA
ATTTGACAACAACCTGTTACAGGGATGCCCTGCTGACCAGCAGCATCAACTGTATCACCAGCTTCGTCTCTGGGTT
CGCCATCTTCTCCATCCTTGGTTACATGGCCCATGAACACAAGGTCAACATTGAGGATGTGGCCACAGAAGGAGC
TGGCCTAGTGTTCATCCTGTATCCAGAGGCCATTTCTACCTGTCTGGATCTACATTCTGGGCTGTTGTGTTTTT
CGTCATGCTCCTGGCGCTGGGCCTTGACAGCTCAATGGGAGGCATGGAGGCTGTATCACGGGCCTGGCAGATGA
CTTCCAGGTCTGAAGCGACACCGGAAACTCTTCACATTTGGCGTCACCTTCAGCACTTTCCTTCTCGCCCTGTT
CTGCATAACCAAGGGTGAATTTACGTCTTGACCCTCCTGGACACCTTTGCTGCGGGCACCTCCATCCTTTTTGC
TGTCTCATGGAAGCCATCGGAGTTTCTTGGTTTTATGGAGTGGACAGGTTTCAGCAACGACATCCAGCAGATGAT
GGGGTTCAGGCCGGGTCTATACTGGAGACTGTGCTGGAAGTTCGTGAGTCTGCTTCTCCTGTTCTGTTGTTGT
GGTCAGCATCATCAACTTCAAGCCACTCACCTACGACGACTACATCTTCCCGCCCTGGGCCAACTGGGTGGGGTG
GGGCATCGCCCTGTCTCCATGGTCCCTGGTGGCCATCTACGTATCTATAAGTTCTCAGCACGCAGGGCTCTCT
TTGGGAGAGACTGGCCTATGGCATCACGCCAGAGAACGAGCACCACCTGGTGGCTCAGAGGGACATCAGACAGTT
CCAGTTGCAACACTGGCTGGCCATCTTGAGCCTGCCTGGAGGAGAAGGAGGAACCCCCATGCCAATGTCCAGGTCA
CAGGCATCCGCTGCGCTCCCACCTCGGACACCATCTTGGGATTCTTCCCCTGGAAGTTGTCCTTTCTGATCCTCT
CTTCTTTTCCCATTTACAAATGATTTCTGTGACTGTAGTTTTTGTTCACCTTCTGTGCATCTGGCCTGGGGGCTGT
TAGCTCAGAGGAGAGGAGCAAACAGGAAAATGACTT

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FIGURE 4488

MLLARMNPQVQPENNGADTGPEQPLRARKTAELLVVKERNGVQCLLAPRDGDAQPRETWGKKIDFLLSVVGFAVD
LANVWRFPYLCYKNGGGAFLIPYTLFLIIAGMPLFYMELALGQYNREGAATVWKICPFFKGVGYAVILIALYVGF
YYNVIIAWSLYYLFSSFTLNLPWTD CGHTWNSPNC TDPKLLNGSVLGNHTKY SKYKFTPAAEFYERGVLLHLESS
GIHDIGLPQWQLLLCLMVVVIVLYFSLWKGVKTS GKVVWITATLPYFVLFVLLVHGVTLP GASNGINAYLHIDFY
RLKEATVWIDAATQIFFSLGAGFGVLI AFASYNKFDNNCYRDALLTSSINCITSFVSGFAIFSILGYMAHEHKVN
IEDVATEGAGLVFILYPEAISTLSGSTFWAVVFFVMLLALGLDSSMGGMEAVITGLADDFQVLKRHRKLFTFGVT
FSTFLLALFCITKGGIYVLTLLDTFAAGTSILFAVLMEAIGVSWFYGVDRFSNDIQQMMGFRPGLYWRLCWKFVS
PAFLLFVVVVSIIINFKPLTYDDYIFPPWANWVGWGI ALSSMVLVPIYVIYKFLSTQGS LWERLAYGITPENEHHL
VAQRDIRQFQLQHWLAI

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FIGURE 4489

GAACTGTCGCCCTTCCAGGATGTGGCTCCCTGCTCTTGTCTGCTGGCCACTCTCGCTGCTTCCGCGGCTTGGGGGCA
TCCGTCCTCGCCACCTGTGGTGGACACCGTGTCATGGCAAAGTGCTGGGGAAGTTCGTCAGCTTAGAAGGATTGCTG
ACAGCCTGTGGCCATTTTCTGCGGAATCCCTTTTGCCAAGCCGCTCTTGGACCCCTGAGGTTTACTCCACCGCA
GCCTGCAGAACCATGGAGCTTTGTGAAGAATGCCACCTCGTACCCTCCTATGTGCACCCAAGATCCCAAGGCGGG
GCAGTTACTCTCAGAGCTATTTACAAACCGAAAAGGAGAACATTCCCTCTCAAGCTTTCTGAAGACTGTCTTTACCT
CAATATTTTACTCTCCTGCTGACTTGACCAAGAAAAACAGGCTGCCGGTGATGGTGTGGATCCACGGAGGGGGGCT
GATGGTGGGTGCGGCATCAACCTATGATGGGCTGGCCCTTGCTGCCCATGAAAACGTGGTGGTGGTGACCATTCA
ATATCGCCTGGGCATCTGGGGATTCTTCAGCACAGGGGATGAACACAGCCGGGGGAACTGGGGTCACCTGGACCA
GGTGGCTGCCCTGCGCTGGGTCCAGGACAACATTGCCAGCTTTGGAGGGAACCCAGGCTCTGTGACCATCTTTGG
AGAGTCAGCGGGAGGAGAAAGTGTCTCTGTTCTTGTCTTGTCTCTCCATTGGCCAAGAACCTCTTCCACCGGGCCAT
TTCTGAGAGTGGCGTGGCCCTCACTTCTGTTCTGGTGAAGAAAGGTGATGTCAAGCCCTTGGCTGAGCAAATTGC
TATCACTGCTGGGTGCAAAACCACCACCTCTGCTGTCTCATGGTTCACTGCCTGCGACAGAAGACGGAAGAGGAGCT
CTTGAGACGACATTGAAAATAAATTCTTATCTCTGGACTTACAGGGAGACCCAGAGAGAGTCAACCCCTTCTG
GGCACTGTGATTGATGGGATGCTGCTGCTGAAAACACCTGAAGAGCTTCAAGCTGAAAGGAATTTCCACACTGTC
CCCTACATGGTTCGGAATTAACAAGCAGGAGTTTGGCTGGTTGATTCCAATGTTGATGAGCTATCCACTCTCCGAA
GGGCAACTGGACCAGAAGACAGCCATGTCACTCCTGTGGAAGTCCTATCCCCTTGTTTGCAATGCTAAGGAAGTGA
ATTCCAGAAGCCACTGAGAAATACTTAGGAGGAACAGACGACACTGTCAAAAAGAAAGACCTGTTCTTGGACTTG
ATAGCAGATGTGATGTTTGGTGTCCCATCTGTGATTGTGGCCCGGAACACAGAGATGCTGGAGACCCACCTAC
ATGTATGAGTTTCAGTACCGTCCAAGCTTCTCATCAGACATGAAACCCAAGACGGTGATAGGAGACCACGGGGAT
GAGCTCTTCTCCGTCTTTGGGGCCCCATTTTAAAAGAGGGTGCTCAGAAGAGGAGATCAGACTTAGCAAGATG
GTGATGAAATTCTGGGCCAACTTTGCTCGCAATGGAAACCCCAATGGGGAAGGGCTGCCCACTGGCCAGAGTAC
AACCAGAAGGAAGGGTATCTGCAGATTGGTGCCAACACCCAGGCGGCCCAGAAGCTGAAGGACAAAGAAGTAGCT
TTCTGGACCAACCTCTTTGCCAAGAAGGCAGTGGAGAAGCCACCCAGACAGAACACATAGAGCTGTGAATGAAG
ATCCAGCCGGCCTTGGGAGCCTGGAGGAGCAAAGACTGGGGTCTTTTGCGAAAGGGATTGCAGGTTTCAAGGCA
TCTTACCATGGCTGGGGAATTGTCTGGTGGTGGGGGACAGAGGCCATGAAGGAGCAAGTTTTGTATTT
GTGACCTCAGCTTTGGGAATAAAGGATCTTTTGAAGGCC

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FIGURE 4490

CTCCGCCAGGACCCCCGAGGGCGAGCGCCTGGGGGGCGCGGCCTTGCTCGCGGGAGCGCTGCTGAGGGAGAGTGG
TTCTAGTAAATACCGCTTGCTGTGTTTTGATGTTGGTGGCTAAGCTCATCCAGTGTATTGTGTTTGGCCCTCTTC
GAGTGAGTGAGAGACAGCATCTCAAAGACAAATTTTGGAATTTTATTTTCTACAAGTTCAATTTTCATCTTTGGTG
TGCTGAATGTCCAGACAGTGAAGAGGTGGTCATGTGGTGCCTCTGGTTTGGCCGACTTGCTCTTTCTGCACCTGA
TGGTTTCAGCTCTGCAAGGATCGATTTGAATATCTTTCTTCTCGCCACCACGCCGATGAGCAGCCACGGTCGAG
TCCTGTCCCTGTTGGTTGCCATGCTGCTTTTCTGCTGTGGACTGGCGGCCGTCTGCTCCATCACCGGCTACACCC
ACGGAATGCACACCTTGGCTTTTCATGGCTGCAGAGTCTCTTCTTGTGACAGTGAGGACTGCTCATGTGATTTTAC
GATACGTAATTCACCTCTGGGACCTCAACCACGAAGGGACGTGGGAAGGAAAGGGGACGTATGTCTATTACACAG
ACTTTGTTCATGGAGCTCACTCTCCTGTCCCTGGACCTCATGCACCATATTACATGTTGTTATTTGGCAACATCT
GGTTATCCATGGCCAGCCTGGTCATCTTTATGCAGCTGCGTTACCTGTTTCATGAGGTGCAACGTCGAATTCGTC
GGCACAAGAACTATCTACGTGTGGTTGGAAACATGGAGGCCAGGTTTGCAGTTGCAACTCCAGAGGAGCTGGCTG
TCAACAATGACGACTGTGCCATCTGTTGGGACTCCATGCAGGCTGCGCGGAAACTGCCCTGTGGACATCTTTTCC
ACAACCTCCTGTCTTTCGTTTCTGGCTAGAACAAGACACCTCCTGTCCAACATGCAGAATGTCTCTTAATATTGCCG
ACAATAATCGTGTGAGGGAAGAACATCAAGGAGAGAAGTTGGATGAGAATTTGGTTCTGTAGCAGCAGCCGAAG
GGAGACCTCGCTTAAACCAACACAATCACTTCTTCCATTTCGATGGGTCTCGGATTGCGAGCTGGCTGCCGAGTT
TTTCGGTTGAAGTGATGCACACCACCAACATTCTTGGCATTACGCAGGCCAGCAACTCCCAGCTCAATGCAATGG
CTCATCAGATTCAAGAGATGTTTCCCCAGGTTCCATACCCTGTTACTGCAGGACCTCCAGCTGACACGCTCAG
TTGAAATAACAACAGACAATATTTTAGAAGGACGGATTCAAGTACCTTTTCTACACAGCGGTCAGATAGCATCA
GACCTGCATTGAACAGTCTGTGGAAGGCCAAGCAGTGACCAGGAAGAGGGAGAAACTTCTGCTCAGACCGAGC
GTGTGCCACTGGACCTCAGTCCTCGCCTGGAGGAGACGCTGGACTTCGGCGAGGTGGAAGTGGAGCCCAGTGAGG
TGGAAGACTTCGAGGCTCGTGGGAGCCGCTTCTCCAAGTCTGCTGATGAGAGACAGCGCATGCTGGTGCAGCGTA
AGGACGAAGTCCCTCCAGCAAGCTCGCAAACGTTTCTTGAACAAAAGTTCTGAAGATGATGCGGCCTCAGAGAGCT
TCCTCCCCCTCGGAAGGTGCGTCTCTGACCCCGTGACCTGCGTCTGAAGGATGCTGGCTGCCGCCGCGGAACGGA
GGCTTCAGAAGCAGCAGACCTCCTAGCGCTCCCTTGCCTTCTCAGCTGCCTCCTGCGCCCTGTGCCCGACTGAC
TGGAGGAGGCCTGTCCCAATTCTGCCCGCTCCATGGAAAAGCGGGCTTGACTGCATTGCCGCTGTATAAAGCATG
TGGTCTTATAGTGTGTTGGACAGCTGATAAAATTTAATCCTTCTTTGTAATACTTTCTATGTGACATTTCTCTTCCC
CTTAGAAAACACTGCAAATTTTAACTGTAGGTATGATCTCTTCTGGTGTGACTGGACTGCTTGGGGTGGGGGACG
ATCAGGAGGAAGTGAGCAGTCGCCTGCCTGCAGCAGGCAGCTTCTACTCCTGCCTCATGCGTACGTCCCACAAAT
GCAGGTGTCTGAGCACCACACCCAGTGGGAAGAGTGTGGGGGAGGCGCACAGTGTGAGCCCGCCCCACGTCGT
GGGGTAACATCTGTTATCAAACCTGCTGTGCTGTTGTTGTTGGAAGCATGTAGACTGTGCCAGAGGCCAGACCCACGGG
CTCATGCACCCCTGAGCCAGCAGGGCATCTTGGAAAAGGAACTCTTGGTTCGATACCTGGAGCAGAGGAGGGGAA
AGTCCAGGGCTATAGGGTGTGATGAAGTACCCCTTCTGTCCCACTACATCTGGGACTGACTTTCCGAGCCTCC
AGTCCAAAGCCGGCTTGATTTCCGTGAACCTCTGGTGTCTGCTCATCTCATGAGTGTGCCCCATGGGTCCCCCTCC
CTCTCAGCATTTCCTTGTCCCGTCTGGACCTGGGGAGTGGTTAGGCAGCAAGCTTTGGTTTATGGTTTTTCATTCA
TTGGTGAAGTAAATTAGGCAGTGCTAAAGCCTGTGGGTTTGGTCCCTTGAACAAGATGTGGGCCTTGCAAGATGGG
AGAGTAAACCTTGAAGGGCTTTATTAAAGAAATAAAAAAGAACTTTTGTATCTTTTATCCTGGGAGCACTGCGTT
TTCCTAGCTGTGTTATTCCTGGTTTAAATTCAGCAGAGAAGGTAAGGTGTGAACCTACCTGCCTTGGAGAGGGCCC
AGGTCCCAAATCTCTTCAAATCTTCACATGTTTAACTTTAAGGATTTGAACCATGAAGTCATAGGTTACAGACC
TCAGTTTTATGCCCCATTGGATTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTCTTTGAAAGCTTTGTTT
TGTGGTAGTCTTTTGGGAAGAATCCAGTATTATCCACAATTATTGGCAAAGTTTAAATGTATTTTACATAACGG
AAAGTTTTTAGAATGTTGAAAAGTAATTGAAAAAGGTGATAGGTAAATTTTTAGGCAAAGATAATTTATTTCAAT
AAATCTTTCAAAAAGCCTTACCTTGAAATGCTGTTAGTAAATTTCTGTGATTTTTTTTTTTTAAATTTGTTTTGCTGA
GAGCATAGCTATTTGTTTTTATTGTAAA

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FIGURE 4491

CTTGTTCTGCTCACTGGTGTGAGCTCCAGCATCCCCTTTGCTCGAAATGACCCCCAACTGCTCTTGCGCCACTGG
TGGCTCCTGCACGTGCGCCGGCTCCTGCAAGTGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGTGAGTGCGG
GGCCATCTCCAGGAATCTGGGGCTGTGGCTCAGGTTGGGAGGGAACCTCAAGGCTGGCCCTGAGTGCATCCTTCTG
GGGAACTGGGCTTTCTTTGCCCTCATTGCCCGTGTTCATTCCTCTCCAGGCTTTCTGCCCTAAATTCAGATGGGG
CAGGACAGCATTTTTCTCGTGGGACACAAACCCCCAACTGTACCCCCTATGGTTTCAGAACAGAGCTGTGCCAGAC
GAAAAAAGCATCCTCTGGGTCTGGGTCTGAGCTCGAGCCAGGCTTGCTATTAGGGCAGGGAGGTGCCCGGTCA
AGTCTACTGCCACCTCTCACTCTCCCCTTCTTCCCCAGGCTGCTGTTCTGCTGCCCCGTGGGCTGTGCCAAGTG
TGCCCAGGGCTGCGTCTGCAAAGGGGCATCGGAGAAGTGAGCTGCTGTGCCTGATGTGGGAACAGCTCTTCTCC
CAGATGTAAATAGAACAACCTGCACAACCTGGATTTTTTTAAAAATACAACACTGAGCCATTGCTGCATTTCTT
TTTATACTAAATATGTGACTGACAATAAAAAACAATTTTGACTTT

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FIGURE 4492

MDPNCSCATGGSCTCAGSCKCKECKCTSCCKSECGAISRNGLWLRLGGNSRLALSASFSGTGLSLPSLPVSFPL
QAFCPKFRWGRTAFFSWDTNPNCIPYGFRTLCQTKKSILWVWLSSSQACY

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FIGURE 4493

CCGCTGCGTGTTTTCTCTTGATCGGGAACTCCTGCTTCTCCTTGCCTCGAAATGGACCCCAACTGCTCCTGCTC
GCCTGTTGGCTCCTGTGCCTGTGCCGGCTCCTGCAAATGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGCTG
CTGCTCCTGCTGCCCTGTGGGCTGTGCCAAGTGTGCCCAGGGCTGCATCTGCAAAGGGACGTCAGACAAGTGCAG
CTGCTGTGCCTGATGCCAGGACAGCTGTGCTCTCAGATGTAAATAGAGCAACCTATATAAACCTGGATTTTTTTT
TTTTTTTTTTTTTGTACAACCCTGACCCGTTTGCTACATCTTTTTTTCTATGAAATATGTGAATGGCAATAAATTC
ATCTAGACT

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FIGURE 4494

MDPNCSCSPVGSCACAGSCKCKECKCTSCKKSCCSCCPVGCAKCAQGCICKGTSDKSCCA

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FIGURE 4495

CTGAGCGACAGCAAGTGCAGCGGGCTCCTACCCCGGGTGAGGGGTGGCCTCCGCGTGGGATCGTGCCCTCTTCAG
CCCGCTCCTGTCCCCGACATCACGTGTATTCCGCACGTCCCTCCGCGCTGTGTGTCTACTGAGACGGGGAGGCG
TGACAGGGCCCCGGGTCCCTTCTCAGTGGTGCTCTGTGCTTCAGGGCAAGCTCCCGTCTCCGGGCGCACTTCCCT
CGCTGTGTTTCGGTCCATCCTCCTTTCTCCAGCCTCCTCCCTCGCAGGTGGGATCGTCGGTGGGACCGGAGCGC
GGGCGGGCGCGGCCCGGGGACCATGGCCCGGGTCCGACACCGCGCCCTTCTCAGCCAGGCGGATGACCCGGAC
GACGGGCCAGTGCCTGGCACCCCGGGGTTCAGGGTCCACGGGGAACCCGAAGTCCGAGGAGCCCGAGGTCCCG
GACCAGGAGGGGCTGCAGCGCATCACCGGCCTGTCTCCCGGCCGTTTCGGCTCTCATAGTGGCGGTGCTGTGCTAC
ATCAATCTCCTGAACATACATGGACCGCTTCACCGTGGCTGGCGTCTTCCCGACATCGAGCAGTTCTTCAACATC
GGGGACAGTAGCTCTGGGCTCATCCAGACCGTGTTCATCTCCAGTTACATGGTGTGGCACCTGTGTTTGGCTAC
CTGGGTGACAGGTACAATCGGAAGTATCTCATGTGCGGGGGCATTGCCTTCTGGTCCCTGGTGACACTGGGGTCA
TCCTTCATCCCCGAGAGCATTCTGGCTGTCTCCTGACCCGGGGCCTGGTGGGGGTGGGGAGGCCAGTTAT
TCCACCATCGCGCCCACTCTCATTGCCGACCTCTTGTGGCCGACCAGCGGAGCCGGATGCTCAGCATCTTCTAC
TTTGCCATTCCGGTGGGCAGTGGTCTGGGCTACATTGCAGGCTCCAAAGTGAAGGATATGGCTGGAGACTGGCAC
TGGGCTCTGAGGGTGACACCGGTCTAGGAGTGGTGGCCGTTCTGCTGCTGTTTCTGGTAGTGCGGGAGCCGCCA
AGGGGAGCCGTGGAGCGCCACTCAGATTTGCCACCCCTGAACCCACCTCGTGGTGGGCAGATCTGAGGGCTCTG
GCAAGAAATCCTAGTTTCGTCTGTCTTCCCTGGGCTTCACGTCTGTGGCCTTTGTACGGGCTCCCTGGCTCTG
TGGGCTCCGGCATTCCTGCTGCGTTCCCGCTGGTCCCTGGGGAGACCCACCCCTGCCTTCCCGGAGACTCCTGC
TCTTCCTCTGACAGTCTCATCTTTGGACTCATCACCTGCCTGACCGGAGTCTGGGTGTGGGCCTGGGTGTGGAG
ATCAGCCGCCGGCTCCGCCACTCCAACCCCGGGCTGATCCCTGGTCTGTGCCACTGGCCTCCTGGGCTCTGCA
CCCTTCCTCTTCCTGTCCCTTGCTGCGCCCGTGGTAGCATCGTGGCCACTTATATTTTCATCTTCATTGGAGAG
ACCTCCTGTCCATGAAC TGGGCCATCGTGGCCGACATTCTGCTGTACGTGGTGATCCCTACCCGACGCTCCACC
GCCGAGGCCTTCCAGATCGTGCTGTCCACCTGCTGGGTGATGCTGGGAGCCCTACCTCATTGGCCTGATCTCT
GACCGCTGCGCCGGAAC TGGCCCCCTCCTTCTTGTCCGAGTTCGGGGCTCTGCAGTTCTCGCTCATGCTCTGC
GCGTTTGTGGGGCACTGGGCGGCGCAGCCTTCTGGGCACCGCCATCTTCATTGAGGCCGACCGCCGGCGGGCA
CAGCTGCACGTGCAGGGCTGCTGCACGAAGCAGGGTCCACAGACGACCGGATTGTGGTGCCCCAGCGGGGCGC
TCCACCCGCGTGCCCGTGGCCAGTGTGCTCATCTGAGAGGCTGCCGCTCACCTACCTGCACATCTGCCACAGCTG
GCCCTGGGCCCCACCCACGAAGGGCCTGGGCCTAACCCCTTGGCCTGGCCAGCTTCCAGAGGGACCCCTGGGCCG
TGTGCCAGCTCCAGACACTACATGGGTAGCTCAGGGGAGGAGGTGGGGTCCAGGAGGGGGATCCCTCTCCACA
GGGGCAGCCCCAAGGGCTCGGTGCTATTTGTAACGGAATAAAATTTGTGCCAGAAAAAAAAAAAAA

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FIGURE 4496

MAGSDTAPFLSQADDPDDGPVPGTPGLPGSTGNPKSEEPVDPQEGLRITGLSPGRSALIVAVLCYINLLNYMD
RFTVAGVLPDIEQFFNIGDSSSGLIQTVFISSYMLAPVFGYLGDRYNRKYLMCGGIAFWSLVTLGSSFIPGEHF
WLLLLTRGLVGVGEASYSTIAPTILIADLFVADQSRMLSIFYFAIPVGSGLGYYIAGSKVKDMAGDWHWALRVTPG
LGVVAVLLLLFLVREPPRGAVRHSDDLPLNPTSWWADLRALARNPSFVLSSLGFTAVAFVTGSLALWAPAFLLR
SRVVLGETPPCLPGDSCSSSDSLIFGLITCLTGVLGVGLGVEISRRLRHSNPRADPLVCATGLLGSAFFLFLSLA
CARGSIVATYIFIFIGETLLSMNWAIVADILLYVVIPTRRSTAEAFQIVLSHLLGDAGSPYLI GLISDRLRRNWP
PSFLSEFRALQFSLMLCAFVGALGGAFLGTAIFIEADRRRAQLHVQGLLHEAGSTDDRIVVPQRGRSTRVPVAS
VLI

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FIGURE 4497

GGCGCGGAGGAGGAGGTTCCCGGAAGCCACGCGCAGCTGGAGCAGCGGCGACCGCAGCTGGAGGCCCGGAGCGCC
TGCGGGGCTGGCAGAGGCGAGGGAGGTTGCGGGTAGGAAGGGCGGACTGCGCGCGCCCCCTGCGTCCCGCGCACC
TCGGGGCCGGTCCATGCTCCCGACGGCTGCGGGCTTCAGCATCTGGGGCCAGGTTGGGGCGGGCGGGGTCCAGGGC
GCAGGTGGTGCGGCCGATGCGCCGGGCCGGAGGCTGAGGCCGCGCTGCGGGGCTGGGACAGCACTGGCATCTCCA
GAGCAGGCCCCGGGGCAGCAAGGGAGGCGCCGCGATGCCAGACGAAAATATCTTCCTGTTTCGTGCCCCAACCTCATC
GGTTATGCCCCGATTGTCTTCGCCATCATTTCTTTCTACTTCATGCCCTGCTGCCCCCTCACGGCCTCCTCCTTC
TACCTGCTCAGCGGCCTGCTGGACGCTTTTCGATGGACACGCTGCTCGCGCTCTTAATCAAGGAACCCGGTTTGGG
GCCATGCTGGACATGCTGACGGACCGCTGCTCCACCATGTGCCTGTTGGTCAACCTGGCCCTGCTGTACCCTGGA
GCCACGCTGTTCTTCCAAATCAGCATGAGTTTGGATGTGGCCAGTCACTGGCTGCACCTCCACAGTTCTGTGGTC
CGAGGCAGTGAGAGTCACAAGATGATCGACTTGTCCGGGAATCCGGTGCTTCGGATCTACTACACCTCGAGGCCT
GCTCTGTTACCTTGTGTGCTGGGAATGAGCTCTTCTACTGCCTCCTCTACCTGTTCCATTTCTCTGAGGGACCT
TTAGTTGGCTCTGTGGGACTGTTCCGGATGGGCCTCTGGGTCACTGCCCCCATCGCCTTGCTGAAGTCGCTCATC
AGCGTCATCCACCTGATCACGGCCGCCCCGAACATGGCTGCCCTGGACGCAGCAGACCGCGCCAAGAAGAAGTGA
CGCTGGAGCCCCGGGTCTGGCTGCCCACCTGCCCTGGGAGTCTTGCTGTGCCACACAGCTCCCCACCCCTTGCT
AGGAGGTCCCAGTCTCACGCCTTCCTCATGTGTTGTTCTACCTGCTGGGATGGGGGTGAGCCTCTCTTTGGTGAC
GTCACGTTCTCTGGGATCCTGAGGACCCGGGCCTCAAATCAGGGAGGATACGCGGGAGGCCCCCTCCATCCAGGC
GGTGCTCCTGGGGTGCCGGGACCGGGCAGTGTCACACCCTGCCTGCTCAGTCCTGGGGTCCGAGATGCTAGGGAC
GCTTGAGTGAGGGAGGTGGTGTGAGGGCCAGGTTTCTGAAAGGCGGGAGTCAGACCTCCGCCCCCAGCCAGAGC
AAGCTTGGGGCACCATGCCCAGGAGGGAAGAAGCCATCCACAGCCTTCCCTGTCACCGGCTCCTCTGTCTCCTGCCT
ACCCTGGTCTCTGGCGGGACTTCACTATTTGACTTGGTTTCTTTTCAGATATTCTTGGCTCAGGGCCTGGGTTGAG
GGAGCTTAGGGAAGGACGTCCGTCTGGGTGCTTTTCTCCAGTTTGCTGGCTGGCTTCTCCGTCTACCCACAGTG
ACCTCACAGAGAGGCCCTCCTGCCACCCATGCTCATGTGGTGTCCCCACCGCCCACTTGTTTGATGTCACTGACT
GTCTACATGTATTTATATTCTTGATATTTTCTACCCTCACTAGAATGTAAACTCCATGAAGGCACAGACTTTTCT
TGTTCTCTTCTCTATCCCTAGAGTAAGACCAACTTGAACCTGGCATATAGTAGCTGCTTAATAAATACTCGTCTG
TC

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FIGURE 4498

TTCCCCATCTGAGGCGTTTGTTCAGCTACCTGCACTTCTAGATGCTCCCCAGGTTTCATCCTGTGTCGTCTCCCC
CACCTACCAGTCATCTTCTTGTGAGCCCTGGGCTTAGGAGTCACC**ATGG**CAACTGAAGAGTTCATCATCCGCATC
CCCCCATACCACTATATCCATGTGCTGGACCAGAACAGCAACGTGTCCCGTGTGGAGGTGGGGCCAAAAGACCTAC
ATCCGGCAGGACAATGAGAGGGTACTGTTTGGCCCCATGCGCATGGTGACCGTCCCCCCACGTCACTACTGCACA
GTGGCCAAACCTGTGTCTCGGGATGCCCAGGGCTTGGTGCTGTTTGATGTCACAGGGCAAGTTTCGGCTTCGCCAC
GCTGACCTCGAGATCCGGCTGGCCCAGGACCCCTTCCCCCTGTACCCAGGGGAGGTGCTGGAAAAGGACATCACA
CCCCTGCAGGTGGTTCTGCCAAACACTGCCCTCCATCTAAAGGCGCTGCTTGATTTTGAGGATAAAGATGGAGAC
AAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGACCTGGCACGTACATCCCCCGGAAGGAAGTGGAGGTCGTG
GAGATCATTACAGGCCACCATCATCAGGCAGAACCAGGCTCTGCGGCTCAGGGCCCGCAAGGAGTGTGGGACCGG
GACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTGGTCACCACAGTAGGGGCGTACCTCCCAGCGGTGTTTGAG
GAGGTTCTGGATTTGGTGGACGCCGTATCCTTACGGAAAAGACAGCCCTGCACCTCCGGGCTCGGCGGAACCTC
CGGGACTTCAGGGGAGTGTCCCGCCGCACTGGGGAGGAGTGGCTGGTAACAGTGCAGGACACAGAGGCCACGTG
CCAGATGTCCACGAGGAGGTGCTGGGGGTTGTGCCATCACCACCCTGGGCCCCACAACACTACTGCGTGATTCTC
GACCCTGTCCGACCGGATGGCAAGAATCAGCTGGGGCAGAAGCGCGTGGTCAAGGGAGAGAAGTCTTTTTCTC
CAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGATGTGTATGTGCTGTCGGAGCAGCAGGGGCTGCTGCTGAGG
GCCCTGCAGCCCCCTGGAGGAGGGGGAGGATGAGGAGAAGGTCTCACACCAGGCTGGGGACCACTGGCTCATCCGC
GGACCCCTGGAGTATGTGCCATCTGCCAAAGTGGAGGTGGTGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAAC
GAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCGCGCTGTGATTGGAAGCACCTACATGCTGACCCAG
GACGAAGTCCCTGTGGGAGAAAGAGCTGCCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCCTTGCCA
GACAGGGGTGAGAAGGACACAGCTAAGAGCCTCCAGCCCTTGGCGCCCCGGAACAAGACCCGTGTGGTCAGCTAC
CGCGTGCCCCACAACGCTGCGGTGCAGGTGTACGACTACCGAGAGAAGCGAGCCCGGTGGTCTTCGGGCGCTGAG
CTGGTGTGCTGGGTCTGAGGAGCAGTTCACAGTGTGTCCCTCTCAGCTGGGCGGCCCAAGCGTCCCCATGCC
CGCCGTGCGCTCTGCCTGCTGCTGGGGCTGACTTCTTCACAGACGTATCACCATCGAAACGGCGGATCATGCC
AGGCTGCAACTGCAGCTGGCCTACAACCTGGCACTTTGAGGTGAATGACCGGAAGGACCCCCAAGAGACGGCCAAG
CTCTTTTCAGTGCCAGACTTTGTAGGTGATGCCTGCAAAGCCATCGCATCCCGGGTGCAGGGGGGCGGTGGCCTCT
GTCACTTTTCGATGACTTCCATAAGAAGCTCAGCCCGCATCATTGCACTGCTGTCTTTGGCTTTGAGACCTCGGAA
GCGAAGGGCCCCGATGGCATGGCCCTGCCAGGCCCGGGACCAGGCTGTCTTCCCCCAAAACGGGCTGGTGGTC
AGCAGTGTGGACGTGCAGTCAGTGGAGCCTGTGGATCAGAGGACCCGGGACGCCCTGCAACGCAGCGTCCAGCTG
GCCATCGAGATCACCACCAACTCCCAGGAAGCGGCGGCCAAGCATGAGGCTCAGAGACTGGAGCAGGAAGCCCGC
GGCCGGCTTGAGCGGCAGAAGATCCTGGACAGTCAGAAGCCGAGAAAGCTCGCAAGGAACCTTTGGAGCTGGAG
GCTCTGAGCATGGCCGTGGAGAGCACCGGGACTGCCAAGGCGGAGGCCGAGTCCCGTGCAGGAGCAGCCCGGATT
GAGGGAGAAGGGTCCGTGCTGCAGGCCAAGCTAAAAGCACAGGCCTTGGCCATTGAAACGGAGGCTGAGCTCCAG
AGGGTCCAGAAGGTCCGAGAGCTGGAACCTGGTCTATGCCCGGGCCCAGCTGGAGCTGGAGGTGAGCAAGGCTCAG
CAGCTGGCTGAGGTGGAGGTGAAGAAGTTCAAGCAGATGACAGAGGCCATAGGCCCCAGCACCATCAGGGACCTT
GCTGTGGCTGGGCCTGAGATGCAGGTAAAAGTCTCCAGTCCCTGGGCCTGAAATCAACCCCTCATCACCAGTGGC
TCCACTCCCATCAACCTCTTCAACACAGCCTTTGGGCTGCTGGGGATGGGGCCCGAGGGTCAGCCCCTGGGCAGA
AGGGTGGCCAGTGGGGCCAGCCCTGGGGAGGGGATATCCCCCAGTCTGCTCAGGCCCTCAAGCTCCTGGAGAC
AACCACGTGGTGCCTGTACTGCGCT**TAA**CTCCTGATTAATACAATGGAAGTTTCTGGGCAAAAAAAAAAAAAAAAAA
GTTTCCA

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FIGURE 4499

MATEEFIIRIPPYHYIHVLDQNSNVSERVEVGPKTYIRQDNERNVLFAPMRMVTVPPRHYCTVANPVSRDAQGLVLF
DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVVLNPNTALHLKALLDFEDKDGDKVVAGDEWLFEGPGT
YIPRKEVEVVEIIQATIIIRONQALRLRARKECWDRDGKERVTEGEWLVTTVGAYLPAVFEEVLDLVDVILTEKT
ALHLRARRNFRDFRGVSRRTGEEWLVTVDTEAHVPDVHEEVLGVVPITTLGPHNYCVILDPVGPDKGNQLGQKR
VVKGEKSFFLQPGEQLEQGIQDVYVLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE
ERQAIPLDENEGIYVQDVKTGKVRVIGSTYMLTQDEVLWEKELPPGVEELLNKGQDPLADRGEKDTAKSLQPLA
PRNKTRVVSYPVPHNAAVQVYDYREKRARVVFGEPLVSLGPEEQFTVLSSLASGRPKRPHARRALCLLLGPDFFTD
VITTIETADHARLQLQLAYNWHFEVNDRKDPQETAKLFSVPDFVGDACKAIASRVRGAVASVTFDDFHKNSARIIR
TAVFGFETSEAKGPDGMALPRPRDQAVFPQNGLVSSVDVQSVEPVDQRTDALQRSVQLAIEITTSQEA-AAKH
EAQRLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAAARIEGEGSVLQAKLKAQA
LAIETEAEELQRVQKVRELELVYARAQLELEVSKAQQLAEVEVKKFKQMTAIGPSTIRDLAVAGPEMQVKLLQSL
GLKSTLITDGSTPINLFNTAFGLLGMGPEGQPLGRRVASGSPGEGISPQSAQAPQAPGDNHVVPVLR

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FIGURE 4500

AAAGGTTCCCATCTGAGGCGTTTGTTCAGCTACCTGCACTTCTAGATTTCATCTTCTTGTGAGCCCTGGGCTTA
GGAGTCACCAATGGGCAACTGAAGAGTTTCATCATCCGCATCCCCCATACCACTATATCCATGTGCTGGACCAGAAC
AGCAACGTGTCCCGTGTGGAGGTCGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTTTGCCCCC
ATGCGCATGGTGACCGTCCCCCACGTCACTACTGCACAGTGGCCAACCCTGTGTCTCGGGATGCCCAGGGCTTG
GTGCTGTTTGATGTACACAGGGCAAGTTCGGCTTCGCCACGCTGACCTCGAGATCCGGCTGGCCCAGGACCCCTTC
CCCCGTGTAACCAGGGGAGGTGCTGGAAAAGGACATCACACCCCTGCAGGTGGTTCTGCCCAACACTGCCCTCCAT
CTAAAGGCGCTGCTTGATTTTGTAGGATAAAGATGGAGACAAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGA
CCTGGCACGTACATCCCCCGGAAGGAAGTGGAGGTCGTGGAGATCATTAGGCCACCATCATCAGGCAGAACCAG
GCTCTGCGGCTCAGGGCCCCGAAGGAGTGCTGGGACCGGGACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTG
GTCACCACAGTAGGGGCGTACCTCCCAGCGGTGTTTGAGGAGGTTCTGGATTTGGTGGACGCCGTATCCTTACG
GAAAAGACAGCCCTGCACCTCCGGGCTCGGCGGAACCTCCGGGACTTCAGGGGAGTGTCGCCCGCGCACTGGGGAG
GAGTGGCTGGTAACAGTGCAGGACACAGAGGCCACGTGCCAGATGTCCACGAGGAGGTGCTGGGGGTTGTGCC
ATCACACCCCTGGGCCCCACAACCTACTGCGTGATTCTCGACCCTGTCGGACCGGATGGCAAGAATCAGCTGGGG
CAGAAGCGCGTGGTCAAGGGAGAGAAGTCTTTTTCTCCAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGAT
GTGTATGTGCTGTGCGGAGCAGCAGGGGCTGCTGCTGAGGGCCCTGCAGCCCTGGAGGAGGGGGAGGATGAGGAG
AAGGTCTCACACCAGGCTGGGGACCACTGGCTCATCCGCGGACCCCTGGAGTATGTCCATCTGCCAAAGTGGAG
GTGGTGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAG
GTGCGCGCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCCTGTGGGAGAAAGAGCTGCCTCCCGGG
GTGGAGGAGCTGCTGAACAAGGGGCAGGACCCCTCTGGCAGACAGGGGTGAGAAGGACACAGCTAAGAGCCTCCAG
CCCTTGGCGCCCCGGAACAAGACCCGTGTGGTCAGCTACCGCGTGCCCCACAACGCTGCGGTGCAGGTGTACGAC
TACCGAGAGAAGCGAGCCCGCGTGGTCTTCGGGCTGAGCTGGTGTGCTGGGTCTGAGGAGCAGTTACAGTG
TTGTCCCTCTCAGCTGGGCGGCCCAAGCGTCCCCATGCCCGCGTGCGCTCTGCCTGCTGCTGGGGCCTGACTTC
TTCACAGACGTTCATCACCATCGAAACGGCGGATCATGCCAGGCTGCAACTGCAGCTGGCCTACAACCTGGCACTTT
GAGGTGAATGACCGGAAGGACCCCCAAGAGACGGCCAAGCTCTTTTCAGTGCCAGACTTTGTAGGTGATGCCTGC
AAAGCCATCGCATCCCGGTGCGGGGGGCGTGGCCTCTGTCACTTTCGATGACTTCCATAAGAACTCAGCCCGC
ATCATTGCACTGCTGTCTTTGGCTTTGAGACCTCGGAAGCGAAGGGCCCCGATGGCATGGCCCTGCCCAGGCC
CGGGACCAAGGCTGTCTTCCCCAAAACGGGCTGGTGGTCAGCAGTGTGGACGTGCAGTCAGTGGAGCCTGTGGAT
CAGAGGACCCGGGACGCCCTGCAACGCAGCGTCCAGCTGGCCATCGAGATCACCACCAACTCCCAGGAAGCGGCG
GCCAAGCATGAGGCTCAGAGACTGGAGCAGGAAGCCCCGCGCCGGCTTGAGCGGCAGAAGATCCTGGACCACTCA
GAAGCCGAGAAAGCTCGCAAGGAACTTTTGGAGCTGGAGGCTCTGAGCATGGCCGTGGAGAGCACCGGGACTGCC
AAGGCGGAGGCCGAGTCCCGTGCAGGAGCAGCCGGATTGAGGGAGAAGGGTCCGTGCTGCAGGCCAAGCTAAAA
GCACAGGCCTTGCCATTGAAACGGAGGCTGAGCTCCAGAGGGTCCAGAAGGTCCGAGAGCTGGAACCTGGTCTAT
GCCCCGGGCCAGCTGGAGCTGGAGGTGAGCAAGGCTCAGCAGCTGGCTGAGGTGGAGGTGAAGAAGTTCAAGCAG
ATGACAGAGGCCATAGGCCCCAGCACCATCAGGGACCTTGCTGTGGCTGGGCTGAGATGCAGGTAAACCTGCTC
CAGTCCCTGGGCCTGAAATCAACCTCATCACCGATGGCTCCACTCCCATCAACCTCTTCAACACAGCCTTTGGG
CTGCTGGGGATGGGGCCCGAGGGTCAGCCCTGGGCAGAAGGGTGGCCAGTGGGCCCAGCCCTGGGGAGGGGATA
TCCCCCAGTCTGCTCAGGCCCCCTCAAGCTCCTGGAGACAACCACGTGGTGCCTGTACTGCGCTTAACTCCTGATT
AATACAATGGAAGTTTCTGGGCAAAAAAAAAAAAAAAAAAGTTTCCA

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FIGURE 4501

MATEEFIIIRIPPYHYIHVLDQNSNVS RVEVGPKTYIRQDNERNVLFAPMRMVTVP PRHYCTVANPVS RDAQGLVLF
DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVLPNTALHLKALLDFEDKDGDKVVAGDEWLFEGPGT
YIPRKEVEVVEIIQATIIIRQNQALRLRARKECWDRDGKERV TGEEWLVTTVGAYLP AVFEEVLDLVD AVILTEKT
ALHLRARRNFRDFRGVSRRTGEEWLVTVQDTEAHVPDVHEEVLGVVPITTLGPHNYCVILDPVGP DGKNQLGQKR
VVKGEKSFFLQPGEQLEQGIQDVYVLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE
ERQAIPLDENEGIIYVQDVKTGKVRVIGSTYMLTQDEVLWEKELPPGVEELLNKGQDPLADRGEKDTAKSLQPLA
PRNKTRVVS YRVP HNAAVQVYDYREKRARVVF GP ELVSLGPEEQFTVLSLSAGRPKRPHARRALC LLLGP DFFTD
VIT IETADHARLQLQLAYNWHFEVND RKDPQETAKLFSVPDFVGDACKAIASRVRGAVASVTFDD FHKNSARIIR
TAVFGFETSEAKGPDGMALPRPRDQAVFPQNGLVVSSVDVQSVEPVDQRTDALQRSVQLAIEIT TNSQEAAAKH
EAQRLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARIEGEGSVLQAKLKAQA
LAIETEAE LQRVQKVRELELVYARAQLELEVSKAQQLAEVEVKKFQMTEAIGPSTIRDLAVAGPEMQVKLLQSL
GLKSTLITDGSTPINLFNTAFGLLGMGPEGQPLGRRVASGSPSGEGISPQSAQAPQAPGDNHVVPVLR

[illegible]

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FIGURE 4503

MSLARGHGD TAASTAAPLSEEGEVT SGLQALAVEDTGGPSASAGKAEDEGEGGREETEREGSGGEEAQGEVPSAG
GEEPAEEDSEDWCVPCSDEEVELPADGQPWMPPPSEIQRLYELLA AHGTLELQAEILPRRPPTPEAQSEEERSDE
EPEAKEEEEEKPHMPTEFD DDEPVTPKDSLIDRRRTPGSSARSQKREARLDKVLSDMKRHKKLEE QILRTGRDL
FSLDSEDPSPASPPLRSSGSSLFPRQRKY

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FIGURE 4504

TGCCGCCGCTCTACGGTGGACACAGCGGCCCTGAAGCAGCCTCCGGCGCCCCCTCCGCCACCCCGCCAGTGTC
GGCGCCCGCGGCCGAGGCCGCGCCCCCGCCTCCGCCGCCACTATCGCCGCGTCGGCGGCCACCGCCGTCGTAGC
CCCAACCTCGACGGTCGCCGTGGCCCCGGTCGCGTCTGCCTTGGAGAAGAAGACAAAAGAGCAAGGGGCCCTACAT
CTGCGCTCTGTGCGCCAAGGAGTTCAAGAACGGCTACAATCTCCGGAGGCACGAAGCCATCCACACGGGAGCCAA
GGCCGGCCGGGTCCCTCGGGTGCTATGAAGATGCCGACCATGGTGCCCCCTGAGCCTCCTGAGCGTGCCCCAGCT
GAGCGGAGCCGGCGGGGGAGGGGGAGAGGCGGGTGCCGGCGGGCGCTGCCGCAGTGGCCGCCGGTGCGTGGT
GACCACGACCGCCTCGGGGAAGCGCATCCGGAAGAACCATGCCTGCGAGATGTGTGGCAAGGCCTTCCGCGACGT
CTACCACCTGAACCGACACAAGCTGTGCGACTCGGACGAGAAGCCCTACCAGTGCCCGGTGTGCCAGCAGCGCTT
CAAGCGCAAGGACCGCATGAGCTACCACGTGCGCTCACATGACGGCGCTGTGCACAAGCCCTACAAGTCTCCCA
CTGTGGCAAGAGCTTCTCCCGGCCGGATCACCTCAACAGTCACGTCAGACAAGTGCCTCAACAGAACGGCCCTT
CAAATGTGAGAAATGTGAGGCAGCTTTCGCCACGAAGGATCGGCTGCGGGCGCACACAGTACGACACGAGGAGAA
AGTGCCATGTCACGTGTGTGGCAAGATGCTGAGCTCGGCTTATATTTCCGACCACATGAAGGTGCACAGCCAGGG
TCCTCACCATGTCTGTGAGCTCTGCAACAAAGGTACTGGTGAGGTTTGTCCAATGGCGGCGGCAGCGGCAGCGGC
GGCAGCGGCAGCAGCGGCAGCAGTAGCAGCCCCCTCCACAGCTGTGGGCTCCCTCTCGGGGGCGGAGGGGGTGCC
TGTGAGCTCTCAGCCACTTCCCTCCCAACCCTGGTGAGCTCCAAGTTGGTTGCGGGGGAGAGGGGAGAATGGAGT
AGAGTCCCTTGGTACAAGCTCCTCTCCCCCTCTTTTCCCACTCCTATTTCCCTACCAACCAAGGAGCCTC
CAGAAGGAAAGGAGGAAGAAATGTTTTCTTAGGGGAATTC

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FIGURE 4505

TCGCCGTGGCCCCGGTCGCGTCTGCCTTGGAGAAGAAGACAAAGAGCAAGGGGCCCTACATCTGCGCTCTGTGCG
CCAAGGAGTTCAAGAACGGCTACAATCTCCGGAGGCACGAAGCCATCCACACGGGAGCCAAGGCCGGCCGGGTCC
CCTCGGGTGCTATGAAGATGCCGACCATGGTGCCCCCTGAGCCTCCTGAGCGTGCCCCAGCTGAGCGGAGCCGGCG
GGGGAGGGGGAGAGGCGGGTGCCGGCGGGCGCTGCCGCAGTGGCCGCCGGTGGCGTGGTGACCACGACCGCCT
CGGGGAAGCGCATCCGGAAGAACCATGCCTGCGAGATGTGTGGCAAGGCCTTCCGCGACGTCTACCACCTGAACC
GACACAAGCTGTGCGACTCGGACGAGAAGCCCTACCAGTGCCCGGTGTGCCAGCAGCGCTTCAAGCGCAAGGACC
GCATGAGCTACCACGTGCGCTCACATGACGGCGCTGTGCACAAGCCCTACAACCTGCTCCCACTGTGGCAAGAGCT
TCTCCCGGCCGGATCACCTCAACAGTCACGTGACACAAGTGCACTCAACAGAACGGCCCTTCAAATGTGAGAAAT
GTGAGGCAGCTTTCGCCACGAAGGATCGGCTGCGGGCGCACACAGTACGACACGAGGAGAAAGTGCCATGTCACG
TGTGTGGCAAGATGCTGAGCTCGGCTTATATTTGCGACCACATGAAGGTGCACAGCCAGGGTCTCTACCATGTCT
GTGAGCTCTGCAACAAAGGCTTACCACGGCAGCATACCTGCGCATCCACGCGGTGAAGGACCACGGGCTCCAGG
CCCCGCGGGCTGACCGCATCTGTGCAAGCTGTGCAGCGTGCACTGCAAGACCCCTGCCAGCTGGCCGGCCACA
TGCAGACCCATCTGGGGGGGGCGCCCCCTGTCCCGGGAGACGCCCCCAGCCACAGCCCACCTGCTGAGGGGG
ACCCCCGCACCCACCAGGTACTGGTGAGGTTTGTCCAATGGCGGCGGCAGCGGCAGCGGCGGCAGCGGCAGCAGC
GGCAGCAGTAGCAGCCCCCTCCACAGCTGTGGGCTCCCTCTCGGGGGCGGAGGGGGTGCTGTGAGCTCTCAGCC
ACTTCCCTCCCAACCCTGGTGAGCTCCAAGTTGGTTGCGGGGGAGAGGGGAGAATGGAGTAGAGTCCCTTGGTAC
AAGCTCCTCTCCCCCTCTTTTCCCACTCCTATTTCCCTACCAACCAAGGAGCCTCCAGAAGGAAAGGAGG
AAGAAATGTTTTCTTAGGGGAATTCGCTAGGTTTTAACGATTTGTTTCTCCTGCTCCTCTTCTGTCAGACCTGAC
CCACACAAACCTGTCCCTCGGTTGTGTTGAAGTCCCTGGACAGTGGGCAGGGGTGGCAGAGGACACGAGCAG
CCACTGCCCGTACCCCTCTCCTCTCTGTAAGCCCATGCCCTGTCTTCCCAGGGACTTGTGAGCCTCTTCCCTCG
ACGGTCTCTTCTCTCCTTCCAGTCCTCTCCCCCTGCTGTCTGCAGCCCTCCCCGGGGAGTTGGTGCTTTCTTT
TCCTTTTTTTTTTTTTTCCAGGGGGAGGGAGGAGGAAGGAGGGGGATCAGAGCTGTCCCAAAGAGGGGAAAGCG
GTGAGGTTTGAGGAGGGGCAGAAGCAGGGCCGGCAAAGGTTGTACCTTCATAAGGTGGTATGGGGGGTTGGGGTC
AGGCCCTGAACATCGTCCTACTTGAGAATCTGTGAGGGGAAAAAGTCAAGGGGAGCAGGAGGAAGAGCCAGGAGG
GCCAGAGGCAGAGAAGAGATGGAGTCTTAGGGGCCAGGGTGAGCGAGGGGTCCAGGGCCTAGAGGTGCTTCTTG
GGGCGGGGGAATGCAGCCAGTGTCCCCCTCCCTCTTCCACCCAGCTCCAGCCCTGGTCTTGTCTTTTCATCCC
TCTTCCCCACGACAGAAGAAGTTGTGGCCCTGGCCATGTCATCGTGTTCCTGTGTCCCCTGCATGTACCCACCC
TCCACCCCTTCTTTTTCGCGGGACCCATTACAATAAATTTTAAATA

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FIGURE 4506

MKMP TMVPLSLLSVPQLSGAGGGGGEAGAGGGGAAVAAGGVVTTTASGKRIRKNHACEMCGKAFRDVYHLNRHKL
SHSDEKPYQCPVCQQRFKRKDRMSYHVRSHDGAVHKPYNC SHCGKSFSRPDHLNSHVRQVHSTERPFKCEKCEAA
FATKDRLRAHTVRHEEKVPCHVCGKMLSSAYISDHMKVHSQGPHHVCELCNKGFTTAAYLRIHAVKDHGLQAPRA
DRILCKLCSVHCKTPAQLAGHMQTHLGGAAPLSRETTPSHSPPAEGDPRTHQVLVRFVQWRRQRQRRQRQQRQQ

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FIGURE 4507

GGGCGGGCCCAAGGAGGGAGTGGAA**ATC**GCCGCGGGCGGGCTCGACGCAGCAGAGGGCGACGCGAGATGGCGGCAGCT
TCAGCGGCGGCGATCTCAGGAGCTGGTTCGCTGTCGGCTAAGCAAGATTGGAGCTACTCGTTCGTCACCTCCAGCT
CGCGTAAGGGTGGCTGTGCGACTGCGGCCATTTGTGGATGGAACAGCGGGAGCAAGTGATCCCCCTGTGTGCGG
GGCATGGACAGCTGCTCTCTAGAGATTGCTAACTGGAGGAACCACCAGGAGACTCTCAAATACCAGTTTGATGCC
TTCTATGGGGAGAGGAGTACTCAGCAGGACATCTATGCAGGTTTCAGTGCAGCCCATCCTAAGGCACTTGCTGGAA
GGGCAGAAATGCCAGTGTGCTTGCTTATGGACCCACAGGAGCTGGGAAGACGCACACAATGCTGGGCAGCCCAGAG
CAACCTGGGGTGATCCCGCGGGCTCTCATGGACCTCCTGCAGCTCACAAGGGAGGAGGGTGCCGAGGGCCGCGCA
TGGGCCCTTTCTGTACCATGTCTTACCTAGAGATCTACCAGGAGAAGGTATTAGACCTCCTGGACCTGCTTCG
GGAGACCTGGTAATCCGAGAAGACTGCCGGGGGAATATCCTGATTCCGGGTCTCTCCAGAAGCCCATCAGTAGC
TTTGCTGATTTTGAGCGGCACTTCTGCCAGCCAGTCGAAATCGGACTGTAGGAGCCACCCGGCTCAACCAGCGC
TCCTCCCGCAGTCATGCTGTGCTCCTGGTCAAGGTGGACCAGCGGGAACGTTTGGCCCCATTTGCCAGCGAGAG
GGAAACTCTACCTGATTGACTTGGCTGGGTGAGAGACAACCGGCGCACAGGCAACAAGGGCCTTCGGCTAAAA
GAGAGTGGAGCCATCAACACCTCCCTGTTTGTCTGGGCAAAGTGGTAGATGCGCTGAATCAGGGCCTCCCTCGT
GTACCTTATCGGGACAGCAAGCTCACTCGCCTATTGCAGGACTCTCTGGGTGGCTCAGCCACAGTATCCTTATT
GCCAACATTGCCCTGAGAGACGCTTCTACCTAGACACAGTCTCCGCACTCAACTTTGCTGCCAGGTCCAAGGAG
GTGATCAATCGGCCTTTTACCAATGAGAGCCTGCAGCCTCATGCCTTGGGACCTGTTAAGCTGTCTCAGAAAGAA
TTGCTTGGTCCACCAGAGGCAAAGAGAGCCCCGAGGCCCTGAGGAAGAGGAGATTGGGAGCCCTGAGCCCATGGCA
GCTCCAGCCTCTGCCTCCCAGAACTCAGCCCCCTACAGAAAGCTAAGCAGCATGGACCCGGCCATGCTGGAGCGC
CTCCTCAGCTTGGACCGTCTGCTTGCCTCCCAGGGGAGCCAGGGGGCCCTCTGTTGAGTACCCCAAAGCGAGAG
CGGATGGTGCTAATGAAGACAGTAGAAGAGAAGGACCTAGAGATTGAGAGGCTTAAGACGAAGCAAAAAGAACTG
GAGGCCAAGATGTTGGCCCAGAAGGCTGAGGAAAAGGAGAACCATTGTCCACAATGCTCCGGCCCCCTTTCACAT
CGCACAGTCACAGGGGGCAAAGCCCCCTGAAAAAGGCTGTGGTGATGCCCTACAGCTAATTCAGGAGCAGGCAGCA
TCCCCAAATGCCGAGATCCACATCCTGAAGAATAAAGGCCGGAAGAGAAAGCTGGAGTCCCTGGATGCCCTAGAG
CCTGAGGAGAAGGCTGAGGACTGCTGGGAGCTACAGATCAGCCCGGAGCTACTGGCTCATGGGCGCCAAAAAATA
CTGGATCTGCTGAACGAAGGCTCAGCCCGAGATCTCCGCAGTCTTCAGCGCATTGGCCCGAAGAAGGCCAGCTA
ATCGTGGGCTGGCGGGAGCTCCACGGCCCCCTTCAGCCAGGTGGAGGACCTGGAACGCGTGGAGGGCATAACGGGG
AAACAGATGGAGTCCTTCTGAAAGGCAAACATCCTGGGTCTCGCCGCCGCCAGCGCTGTGGCGCTCCT**TGA**CCG
TCGTCTCCTCACTCCGCCTTTTCAAATTTTTGTATAACCCCGTGTGTGTAAATACAGTTTTTGTCTCCGGTG

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FIGURE 4508

MAAGGSTQQRREMAAASAAAISGAGRCRLSKIGATRRPPPARVRVAVRLRPFVDGTAGASDPPCVRGMDSCSLE
IANWRNHQETLKYQFDAFYGERSTQODIYAGSVQPILRHLLEGQNASVLAYGPTGAGKTHTMLGSPEQPGVIPRA
LMDLLQLTREEGAEGRPWALSVTMSYLEIYQEKVLDLLDPASGDLVIREDCRGNILIPGLSQKPISSFADFERHF
LPASRNRTVGATRLNQRRSSRSHAVLLVKVDQRERLAPFRQREGKLYLIDLAGESEDNRRTGNKGLRLKESGAINTS
LFVLGKVVDALNQGLPRVPYRDSKLTRLLQDSLGSAHSILIANIAPERRFYLDTVSALNFAARSKEVINRPFTN
ESLQPHALGFPVKLSQKELLGPPEAKRARGPEEEEEIGSPEPMAAPASASQKLSPLQKLSSMDPAMLERLLSLDRLL
ASQGSQGAPLLSTPKRERMVLMKTVEEKDLEIERLKTQKELEAKMLAQKAEKENHCPTMLRPLSHRTVTGAKP
LKKAVVMPLQLIQEQAAASPNAEIHILKNKGRKRKLESLEDALEPEEKAEDCWELQISPELLAHGRQKILDLLNEGS
ARDLRSLQRIGPKKAQLIVGWRELHGPFSSQVEDLERVEGITGKQMESFLKANILGLAAGQRCGAS

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FIGURE 4509

GTCCTGAGCAGCCAACACACCAGCCCAGACAGCTGCAAGTCACCATGGACGCTGAAGGCCTGGCGCTGCTGCTGC
CGCCCGTCACCCCTGGCAGCCCTGGTGGACAGCTGGCTCCGAGAGGACTGCCCAGGGCTCAACTACGCAGCCTTGG
TCAGCGGGGCAGGCCCCCTCGCAGGCGGCGCTGTGGGCCAAATCCCCTGGGGTACTGGCAGGGCAGCCTTTCTTCG
ATGCCATATTTACCCAACCTCAACTGCCAAGTCTCCTGGTTCCCTCCCCGAGGGATCGAAGCTGGTGCCGGTGGCCA
GAGTGGCCGAGGTCCGGGGGCCCTGCCACTGCCTGCTGCTGGGGGAACGGGTGGCCCTCAACACGCTGGCCCCGCT
GCAGTGGCATTGCCAGTGCTGCCGCCGCTGCAGTGGAGGCCGCCAGGGGGGCCGGCTGGACTGGGCACGTGGCAG
GCACGAGGAAGACCACGCCAGGCTTCCGGCTGGTGGAGAAGTATGGGCTCCTGGTGGGCGGGGCCCTCGCACC
GCTACGACCTGGGAGGGCTGGTGATGGTGAAGGATAACCATGTGGTGGCCGCCGGTGGCGTGGAGAAGGCGGTGC
GGGCGGCCAGACAGGCGGCTGACTTCACTCTGAAGGTGGAAGTGAATGCAGCAGCCTGCAGGAGGCCGTGCAGG
CAGCTGAGGCTGGTGGCGACCTTGTCCTGCTGGACAACCTTCAAGCCAGAGGAGCTGCACCCACGGCCACCGTGC
TGAAGGCCCAGTTCCCGAGTGTGGCTGTGGAAGCCAGTGGGGGCATCACCTGGACAACCTCCCCCAGTTCTGCG
GGCCGCACATAGACGTCATCTCCATGGGGATGCTGACCCAGGCGGGCCAGCCCTTGATTTCTCCCTCAAGCTGT
TTGCCAAAGAGGTGGCTCCAGTGCCCAAATCCACTAGTCCTAAACCGGAAGAGGATGACACCGGCCATGGGTTA
ACGTGGCTCCTCAGGACCCTCTGGGTACACATCTTTAGGGTCAGTGGCCAATGGGGCACATTTGGCACTAGCTT
GAGCCCAACTCTGGCTCTGCCACCTGCTGCTCCTGTGACCTGTCAGGGCTGACTTCACCTCTGCTCATCTCAGTT
TCCTAATCTGTAAAATGGGTCTAATAAAGGATCAACC

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FIGURE 4510

MDAEG LALLLPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSPGVLAGQPPFFDAIFTQLNCQVSWFL
PEGSKLVPVARVAEVRGPAHCLLLGERVALNTLARCSGIASAAAAAVEAARGAGWTGHVAGTRKTPGFRLVEKY
GLLVGGAASHRYDLGGLVMVKDNHVVAAGGVEKAVRAARQAADFTLKVEVECSSLQEAVQAAEAGADLVLLDNFK
PEELHPTATVLKAQFPSVAVEASGGITLDNLPQFCGPHIDVISMGMLTQAAPALDFSLKLFAKEVAPVPKIH

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FIGURE 4511

GCCTCGGGAGGTGGTGGAGTGACCTGGCCCCAGTGCTGCGTCCTTATCAGCCGAGCCGGTCCCAGCTCTTGCTCC
TGCTGTTTGCTGGAAATGGCCACGCTTCTCCTTCTCCTTGGGGTGCTGGTGGTAAGCCCAGACGCTCTGGGGA
GCACAACAGCAGTGACAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCCTGAGCTCAAAGATGT
ACACCACTTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACTT
CCATCAATGAGGGATCCCCCTCTTTGGACTTCCATTGGTGCCAGCACTGGTTCCCCCTTACCTGAGCCAACAACCT
ACCAGGAAGTTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCCTGCTGTTCCCA
TAACAGCAAACCTCTCTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTCTCCAGAAACCTCCAGTA
GGACCAAGTGGAGCCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACCTCCAGAGGCACCTCTGGACCCCCTCTTA
CCATGGCAACTGTCTCTCTGGAGACTTCCAAAGGCACCTCTGGACCCCCTGTTACCATGGCAACTGACTCTCTGG
AGACCTCCACTGGGACCCTGGACCCCCTGTTACCATGACAACCTGGCTCTCTGGAGCCCTCCAGCGGGGCCAGTG
GACCCCAGGTCTCTAGCGTAAACTATCTACAATGATGTCTCCAACGACCTCCACCAACGCAAGCACTGTGCCCT
TCCGGAACCCAGATGAGAACTCACGAGGCATGCTGCCAGTGGCTGTGCTTGTGGCCCTGCTGGCGGTCATAGTCC
TCGTGGCTCTGCTCCTGCTGTGGCGCCGGCGGCAGAAGCGGCGGACTGGGGCCCTCGTGCTGAGCAGAGGTGGCA
AGCGTAACGGGGTGGTGGACGCCTGGGCTGGGCCAGCCCAGGTCCCTGAGGAGGGGGCCGTGACAGTGACCGTGG
GAGGGTCCGGGGGCGACAAGGGCTCTGGGTTCCCCGATGGGGAGGGGTCTAGCCGTGGGCCACGCTCACCCTT
TCTTTGGCAGACGGAAGTCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTGAGGCCCCAGCCTCA
AAGGGGAGGAGGAGCCACTGGTGGCCAGTGAGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAGCCCGAAGGGG
GAGACGGGGCTGCCCTTAAGTGTGCGTGAATAGTGAGGCTGGAGGCCGAATCTCAGCCAGCCTCCAGCACCTT
CCCTCTCACCATCCCCTGCCCCCTCGCTCCCATGTTTCCACCCGGCACCTGATCCTCACCAGAATCTCCTTTT
TTTTTTTCTTTTGAGACAGAGTTTCGCTTTGTGCGCCAGGCTGGAGTGCAATGCACGATCTCAGTTCACTGCAAC
CTCTGCCCTCCTAAGTTACAGGCGATTCTCCTGCCCTCAGCTTCCCGAGTAAGTGAAGATTACAGGCACCCACCACCT
GCCCAGCTGCTTTTTTTGTATTTTTGGTAGAGATGGGGTTTACCATGTTGGCTAGGCTGGTCTCAAACCTCCTGAC
CTCAGGTGATCTACCTGCCCTCAGCCTCCCAAAGTGCTGAGATTACAGACATGAGCCTCCGCGCCTTGCCCTCCTCA
CCCACCTCTTCACTCTGAATCCTCATGAGGCTTCTCAGCCCTGGATTTCTGCTGCCATCCTCACCAGCACCCA
CAACTAGCGCCTGGGCAGGGCAGGGCTGGCACCTCTCAACGTCTGTGGACTGAATGAATAAACCTCCTCATCCA
CCCC

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FIGURE 4512

MATLLLLLLGVLVVSPDALGSTTAVQTPTSGEPLVSTSEPLSSKMYTTSITSDPKADSTGDQTSALPPSTSINEGS
PLWTSIGASTGSPLPEPTTYQEVS IKMSSVPQETPHATSHPAVPITANSLGSHTVTGGTITTNSPETSSRTSGAP
VTTAASSLETSGPPLTMATVSLETSGKTS GPPVTMATDSLETSTGTTGPPVTMTTGSLEPSSGASGPQVSS
VKLSTMMSPTTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLLWRRRQKRRTGALVLSRGGKRNGVV
DAWAGPAQVPEEGAVTVTVGGSGGDKGSGFPDGE GSSRRPTLTTFGRRKSRQGSLAMEELKSGSGPSLKGE EEP
LVASEDGAVDAPAPDEPEGGDGAAP

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FIGURE 4513

GGTAACTTCTTGATGTTGCCGTGGCATTGTGTAACCTGTCATGGTGCTGGTAGGAGTGTAGCAGGGAGGATGATGG
GAGGTCAGTCTTGTCTCTATTTTGGTTTTGGTGGGTTTTGGCCAGCTCCTTCACTGCAACCTGTTTTATCAGCAA
GGTCTTTAIGACTGGTATTTTGTGCTGACCTTCTATGTCATCCTGTGACTTAGAATGCCTTAACCATCAGGGAAT
GCAGCCCAGTAGTTTTAGCCTCATTTTTCCCGGCTCCTATTTAAGATGGAGTTGCTCTGGTTTCACACACCTCTGA
CATGATCATTGCCCACTGCGGCTTCCACCTCCCGGGTTCAAGAGATCCTCCTGCCTCACCTCCCAAGGTGCTGG
GACTACAGGTGTGTGCCACCACGCTCAGCTAATTTTTGTATTTTTTGTAGAGATGGTGTTTTTCCATGTTGCCCA
GGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCATGTC
CCACCATGCCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTGAGTTGCTATGGCTCCAGC
TGAAAGAAAGCCCGTGCAGTCATATCACGCGTAAACATTTGCTTTATGCTAAAAATATGGTGGACCTGGCATTAC
AGCTATTACAAATCTCCTAAGATGTCTCGGGTAGTGTATTAGTTACTTTTCATACTGCTATGAAGAAATACTGGA
AACTGGGTAATTTATAAAGAAAAAGAGTTTAATGTACTCAGATTCCACAAGGCTGGAGAGGCCTCAGAATCAT
GGTGGAAGGCAAGGAGCAAAAAGGTATGTCTTCCATGGCAGCAGGCAAGAGAGCACGTGCAGGGAAACTGCCCTT
TATAAAACCATCAGATTTAGTGAGATGTATTCACTATCACGAGAACAGTATGGGAAAAACCTGCCCCCATGATTC
GATTACCTCCTACCGGGTCCCTCCCACGACACATGGGGATTATGGGAACTACAATTCAAGATGAAATTTGGGTGG
GGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAAGCCATTTACCAAGATA
GTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTGTGAAAATATGTTGCAGTGGGCAGCTCAGCAGAGAAGG
GGCTACCTGCAAAGAGGCAAGGGCTGGAGGAAAGTTTTATAGGGTCCTGCTGAAGGGTGCTACGTGTGGAATGAG
GTCATTGTGCCCCGAGGTTGTTTGTGATTAGCTGTTTCTAACAATTGTTTCATACAATAATTGTTTCATTATTGTTT
TCAACTTGGGGCTCTCCCCAACCTGGGGACCCTTCCTTATTGTTGCTTACTTATCAGGTCTCCACATAAAGGTGT
GGAAACTTCATTTCATTTCATATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAACATTTATTCAACAAATAT
TTAGTCCAAGCCACTATTACTTATTACCTTCTCTACTATTGTATGGACTTTTAACTATCTCTGACACTATTCCT
ATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATACACTAATACTCACAGGG
AATATATAGAGTCTAGAAGAAAATATACAGGTCCTTAAAGGCTGCCCTGCCAACAAAACCATAACGCAGGAACAA
ACATCACAACCTATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAACTGGAATTTCCAGACTTCC
TTTCTGCATTAAACCAGTTTAACTAGACAGTAACGAAATATTCTACTTTATGCTGTGATAGTTTGTGTTTATTATT
TATTTATTTATTTATTTGAGACAGAGTTTCGCTCTTGTGTCAGTGAGCCAGGATCATGCCATTGCACTCCAGCCT
GGTCAACGGAGCGAGACTCCGCCTCATTAACAAAAAAAAAAAAAAAAA

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FIGURE 4514

CGGTCCTTCTCAACAGGCCTGTGCCCCGCGGGGTCCGCCTCCTCTGGGACGCCTTCCTCCCGGCACAGAAGGCCT
CCCCCTCTCACCAGGGCCCTCGCCCGCTGGTCCGCCAGGCCCGCCTTTTTTGCGGCCCCCATTTGTGCTGCTGGA
CCCGACGAGCAGTGTTGACAGTGAACCCACGTAGACGCGGCCCGGTACCGGGGGTTTCAGGCAGTAGAGCAGGT
AGACGCCGAAAAAGCGCCCTGGCCTCGCCGCGACCCCGCGGGACCCATCGGGCCTTGGGGTTCGGGAACACAG
CAGGGGGTTGATTGCCGTGACCTAGGGTCCAGGGGAGGGCTGGATCGCTAGGGCTGCAGGGTGCTTGCTTCGGAA
CAAGCTCTCGGGGACTATCCGGAGGCAGCCTGTCAGGAAGCCGTAGCGCCGGTACGTGCCCTCTCCTGTCTGGAG
GCGGGTGTAGAAGTCCGACCGCGGAAGCCAGACTGCTGTCCAGTCGGCGAGCGCGTACCATTCAGCATCGGCTCC
GCCCAGTCCACCTTCCTCAGGCTCTGATTGGCTGACACATGGCAAGCGCGAAAAGCCTGGACCGCTGGAAAGC
CCGGCTGCTTGAGGGCGGAAGTACTGCGTTGACGTACGCCTTAGTAAGGGCGGAAGTGAGTTTTCCAGCGGAAGT
GGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCGAGCTGGGGTTGTGTCCCTGCTGGGCTGCCGTTCCAG
CTGGACTGCCGCCATGGAACCTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGAGGCGGAGCATGT
GGAGGTGGAGGACACGACCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTGCGGCCAAGTTCGAGGG
GAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACATCCATGCCTTTGA
ACAGAAAACCCTGACCCAGACCAGTGGGCACGTGAGCGACAGAAATGAGGGACTGGGATCTGCACAGCCATTAA
ATTATAAATCTGG

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FIGURE 4515

MASAKSLDRWKARLLEGGSTALTYALVRAEVSFPAEVAPVRQQGSVAGARAGVVSLLGCRSSWTAAMELSAEYLR
EKLQRDLEAEHVLPSGGVGQVRGETAASETQVLYRVMRCVTAANQVFFSEAVLTAANERVGVLLGSLDPSMTIH
CDMVITYGLDQLENCQTCGTDYIISVLNLLTLIVEQINTKLPSSFVEKLFIPSSKLLFLRYHKEKEVVAVARAVY
QAVLSLKNIPVLETAYKLILGEMTCALNLLHSLQLPESCSEIKHEAFKNHVFNVDNAKFVVKFDLSALTTIGNA
KNSLIGVSL

FIGURE 4516

[illegible]

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FIGURE 4517

MSRQVVRSSKFRHVFGQPAKADQCYEDVRVSQTTWDSGFCAVNPKFVALICEASGGGAFVLVPLGKTGRVDKNAP
TVCGHTAPVLDIAWCPHNDNVIASGSEDCTVMVWEIPDGGLMLPLREPVVTLLEGHTKRVGIVAWHTTAQNVLLSA
GCDNVIMVWDVGTGAAMLTLGPEVHPDTIYSVDWSRDGGLICTSCRDKRVRIIEPRKGTVVAEKDRPHEGTRPVR
AVFVSEGKILTTGFSRMSEQVALWDTKHLEEPLSLQELDTSSGVLLPFFDPDTNIVYLCGKGDSSIRYFEITSE
APFLHYLSMFSSKESQRMGYMPKRGLEVNKCEIARFYKLHERRCEPIAMTVPRKSDLFQEDLYPPTAGPDPALT
AEEWLGGRDAGPLLIISLKDGYVPPKSREL RVNRGLDTGRRRAAPEASGTPSSDAVSRLEEFEMRKLQATVQELQKR
LDRLEETVQAK

[illegible]

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FIGURE 4519

MAEISDLDRQIEQLRRCELKESEVKALCAKAREILVEESNVQRVDSPVTVCEDIHGQFYDLKELFRVGGDVPET
NYLFMGDFVDRGFYSVETFLLLLALKVRYPDRLTLIRGNHESRQITQVYGFYDECLRKYGSVTWRYCTEIFDYL
SLSAIIIDGKIFCVHGGLSPSIQTLQIRTIDRKQEVPHDGPMCDLLWSDPEDTTGWGVSPRGAGYLFGSDVVAQF
NAANDIDMICRAHQLVMEGYKWHFNETVLTWVSAPNYCYRCGNVAAILELDEHLQKDFIIFEAAPQETRGI PSKK
PVADYFL

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FIGURE 4520

AGTACCGGGTACGCAGGGGTGCCTCAACCACACTCCGTCCACGGACTCTCCGTTATTTTAGGAGGTCCCTGGCCA
AAGATTTATTTCTCTTGACAACCAAGGGCCTCCGTCTGGATTTCCAAGGAAGAATTTCTCTGAAGCACCGGAAC
TTGCTACTACCAGCACCA**ATG**CCCTACCAATATCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGTCTGACATCG
CTCACCGCATCGTGGCACCTGGCAAGGGCATCCTGGCTGCAGATGAGTCCACTGGGAGCATTGCCAAGCGGCTGC
AGTCCATTGGCACCGAGAACACCGAGGAGAACCGGGCGCTTCTACCGCCAGCTGCTGCTGACAGCTGACGACCGCG
TGAACCCCTGCATTGGGGGTGTCATCCTCTTCCATGAGACACTCTACCAGAAGGCGGATGATGGGCGTCCCTTCC
CCCAAGTTATCAAATCCAAGGGCGGTGTTGTGGGCATCAAGGTAGACAAGGGCGTGGTCCCCCTGGCAGGGACAA
ATGGCGAGACTACCACCCAAGGGTTGGATGGGCTGTCTGAGCGCTGTGCCAGTACAAGAAGGACGGAGCTGACT
TCGCCAAGTGGCGTTGTGTGCTGAAGATTGGGGAACACACCCCTCAGCCCTCGCCATCATGGAAAATGCCAATG
TTCTGGCCCGTTATGCCAGTATCTGCCAGCAGAATGGCATTGTGCCCATCGTGGAGCCTGAGATCCTCCCTGATG
GGGACCATGACTTGAAGCGCTGCCAGTATGTGACCGAGAAGGTGCTGGCTGCTGTCTACAAGGCTCTGAGTGACC
ACCACATCTACCTGGAAGGCACCTTGCTGAAGCCCAACATGGTCACCCAGGCCATGCTTGCACTCAGAAGTTTT
CTCATGAGGAGATTGCCATGGCGACCGTCACAGCGCTGCGCCGCACAGTGCCCCCGCTGTCACTGGGATCACCT
TCCTGTCTGGAGGCCAGAGTGAGGAGGAGGCGTCCATCAACCTCAATGCCATTAACAAGTGCCCCCTGCTGAAGC
CCTGGGCCCTGACCTTCTCCTACGGCCGAGCCCTGCAGGCCTCTGCCCTGAAGGCCTGGGGCGGGAAGAAGGAGA
ACCTGAAGGCTGCGCAGGAGGAGTATGTCAAGCGAGCCCTGGCCAACAGCCTTGCTGTCAAGGAAAGTACACTC
CGAGCGGTCAGGCTGGGGCTGCTGCCAGCGAGTCCCTCTTCGTCTCTAACCACGCCTAT**TAAG**CGGAGGTGTTCC
CAGGCTGCCCCCAACAACCTCAGGCCCTGCCCCCTCCCACTCTTGAAGAGGAGGCCGCCTCCTCGGGGCTCCAGG
CTGGCTTGCCCGCGCTCTTTCTTCCCTCGTGACAGTGGTGTGTGGTGTCTGTGAATGCTAAGTCCATCACCC
TTTCCGGCACACTGCCAAATAAACAGCTATTTAAGGGGG

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FIGURE 4521

MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSIAKRLQSIGTENTENRRFYRQLLLTADDRVNPCIG
GVILFHETLYQKADDGRFPFQVIKSKGGVVGIVDKGVVPLAGTNGETTTQGLDGLSERCAQYKKDGADFAKWRC
VLKIGEHTPSALAIMENANVLARYASICQQNGIVPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHIYLE
GTLLKPNMVTTPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLSGGQSEEEASINLNAINKCPLLKPWALTF
SYGRALQASALKAWGGKKENLKAAQEYVKRALANSLACQGYTPSGQAGAAASESLFVSNHAY

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FIGURE 4522

GGCACGAGGCGGCCTCCCTGCCCCCTTACGGCCCGCCTGCCTCCCTGCCCAAGTCCTGAGCCACCATGCTGACCC
CGATGGTGGCCGGGGGGGTGGTGTTCCTCCGACTCTTCCTCCTCTCCAAGAACACGCTCCAGCGGCTGCCCCAGC
TACGCTGGGAGGAGGCCGACGCAGTCATTGTCTCAGCCAGGCTGGTGTCTCTGTCCAGGCCATC**ATG**GCCTCCA
CTGCCGGCTACATCGTCTCCACCTCCTGCAAGCACATCATTGATGACCAACACTGGCTGTCTCTGCCTACACGC
AATTGCTGTGCCCTACTTTCATCTACGACATCTACGCCATGTTTCCTCTGTCACTGGCACAAGCACCAGGTCAAAG
GGCATGGAGGGGACGACGGAGCGGCCAGAGCCCCGGGCGAGCACGTGGGCCATAGCGCGTGGCTACCTGCACAAGG
AGTTCCTCATGCTGCTCCACCATGCCGCCATGGTGTCTGGTGTGCTTCCCACTCTCAGTGGTGTGGCGACAGGGTA
AGGGAGACTTCTTTCTGGGTTGCATGTTGATGGCAGAGGTCAGCACGCCCTTCGTCTGCCTTGGCAAGATCCTCA
TCCAGTACAAGCAGCAGCACACACTGCTGCACAAGGTGAACGGGGCCCTGATGCTGCTCAGCTTCCTCTGCTGCC
GGGTGCTGCTCTTTCCCTACCTGTACTGGGCCTACGGGCGCCATGCCGGCCTGCCCCTGCTGGCCGTGCCCTGG
CCATCCCTGCCCACGTCAACCTGGGCGCTGCGCTGCTCCTGGCCCTCAGCTCTACTGGTTCTTCTCTCATCTGCC
GTGGGGCCTGCCGCTCTTCTGGCCCCGCTCCCGGCCGCCCCGGCCTGCCAGGCCAGGACT**TGAG**GCCGGGGGC
CGGGACCTCCCCCTCCCCACCCCCACCCCCGCTGGAGACAGGGCTCTGGGGCTGATGGCTGGGGTTGGGAGCCAG
GGTCTCTTGCCCGGACAACCCCAGGACTGACGATGACCCCGAAAGGGAAGAGGCCCATCTCTCGGGGACTGAG
GGGGTGGAGAGAGGGGACCTCTTCCCCCTACTCTGCCCCCTTCCTGCACACCCTTGCGCTGGAGGAGGGGAGGGG
GCACCGCTCCCACTGAGGGCAGGAGGGCTTGTGGGGAGGGACACCAACAGGGTTTCAAGGGGACCAGGAG
TCAGAAATGTGGGGAGACGCTCTGCCAAGGCCATCCCAGCCCCCTATGCTGCCATCCCCAGGGCTCCCCATCACC
CGAGAGGAGAGGACGCCCCAACTAACCCCCGCTGGCCCTCGGGCCTCCCGAGTGGCCGGCTGCAACCACGGCTCC
TCTCCAGGGTAGGCCAGCTTGAGGAATCTTATTTATTTTATTTATTTTACCCAAATTTGAACTAGTCTGTTGGGTT
GGGGGAAGGAGGTGGCTGCTACCCCCAAGCCTTCCCAGTGTGACAACCCCGGGGGCAGGCGAGGGCGCCCAGTC
CCTCACCATCGGCTGCACATCGCGCCCTCGGGCCCTGCCATGTCCCTGGTGTCTACTGACCTCTCAAGGCTTCCTC
CAATCTGGGGTCGGGGGACCCTGGGAGGTGCTTTACAGACCGCTAATAAAAGACGATCTGCGTGAACGCCAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4523

MASTAGYIVSTSCCKHIIDDQHWLSSAYTQFAVPYFIYDIYAMFLCHWHKHQVKGHGGDDGAARAPGSTWAIARGY
LHKEFLMVLHHAAMVLVCFPLSVVWRQGKGDFFLGCMLMAEVSTPFVCLGKILIQYKQQTLLHKVNGALMLLSF
LCCRVLLFPYLYWAYGRHAGLPLLAVPLAIPAHVNLGAALLAPQLYWFFLICRGACRLFWRPSRPPFACQAQD

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FIGURE 4524

CGTTGGCCCTTGGCCGCGGACCGCGTGGGCCGAGAACTTTGCCAGACGAGACTTGTTTTCTCTGGGCAGTTGGAG
GGTCTCGCGGCTCCTACCCTTTTTTTGGAAACGGATCATTTTAAAAGTTCTCGTTAGAAACCAATTCGGCGCCGGCA
CCCTTTGGGTGAAACCTAATCAGCCCGCGACGCTGCCTTTCTCACTGGTCACGGGCAACAGCTAGGCTGCTGTTA
TTTCGCAAGGCAGAAGAGAAAAGGCATCCTCGCGAGCAGATGAGGAACCTCGGGGATAAATCCTTTTTGTGGCTTC
AAGTGTCTAAGTACATTAGAGTCAGGAACGGCGCTTTCAGCGTCCGCCATTTTTGTGGCGTCACCGCGTCGCTG
CTACGGCTTGGGGTAGCGGGAGGGCAGACTCTGGGCGCCACTCCC GGCCGGTCATGAACGGGGCCGGCGGACGGC
GAAGTGGACTACAAAAAAAATACCGGAATCTGAAGCGGAAGCTCAAGTTCCTCATCTACGAGCACGAGTGCTTC
CAGGAGGAGCTGAGGAAAGCGCAAAGGAAATTACTGAAGGTGTCCCGGGACAAGAGTTTCCTCCTAGACCGACTT
CTGCAGTACGAGAACGTGGATGAAGACTCTTCGGACTCAGATGCCACTGCATCATCAGATAACAGCGAGACGGAG
GGGACACCCAAGTTGTCTGACACACCGGCCCTAAGAGGGTTTCCCTTCAGGCCTCCGGGGTCCCCTCCCCATA
CCTGAGCTCGCTGGCCTCCTCCCGCTACCCCCCATTCCTTCTGACTACCTGGCCCTGCAGCTGCCCAGAGCCAG
TCCCCTGAGGCCCAAGCGGGAGAAACGGCCCCGCCTGCCCGGAACTCAAGATGGCGGTGGGACCCCCGACTG
CCCTGTGGGAGGGCCGCTGACCTTCCCTGGCCGGGGTTCTGGGGCTGGGGTCGGGACAACCTGACCCCCCTCCC
ACCCCCTAAGATGCCCCCCCCACGATCCTGAGCACGGTCCCTCGGCAGATGTTTCAGCGATGCAGGTAGCGGGGA
CGATGCCTTGATGGAGACGATGACCTGGTGATCGACATCCC

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FIGURE 4525

MRNLGDKSFCGFKCLSTLESGTALSSVRHFCGVTASLLRLGVAGGQTLGATPGPVMNGPADGEVDYKKKYRNLKR
KLKFLIYEHECFQEELRKAQRKLLKVS RDKSFLLDRL LQYENVDEDSSDSDATASSDNSETEGTPKLS DTPAPKR

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FIGURE 4526

CCGAGGTTCTCATCTGCTCGCGAGGATGCCTTTTCTCTTCTGCCTTGCGAAATAACAGCAGCCTAGCTGTTGCC
CGTGACCAGTGAGAAAAGGCAGCGTCGCGGGCTGATTAGGTTTCACCCAAAGGGTGCCGGCGCCGAATTGTTTCT
AACGAGAACTTTTAAATGATCCGTTCCAAAAAAGGGTAGGAGCCGCGAGACCCTCCAAGTCCCCAGAGAAAACA
AGTCTCGTCTGGCAAAGTTCTCGGCCACGCGGTCCGCGGCCAAGGGCCAACGGTCCCTCGCCCCACGTTGCCGC
AGCACTGCGCGTGCGCGAGCCGCTGTCAAACGCGCTGACGGAGGCCGAGAAGAAAAAAGGCGGGAGCCGTCAAT
CCCGGGTTGAGCAAAATGGCGCGGAGAAGGAGATGCAGGAGTTACCCGTAGCTTCTTCCGAGGCCGCCGGAC
CTCAGCACGCTTACGCATTCCATCGTGCGGCGGAGGTACTTAGCTCACTCGGGCCGCGAGCCACCTGGAGCCCGAG
GAGAAGCAGGCACTGAAGCGGCTGGTGGAGGAGGAGCTGCTGAAGATGCAGGTGGATGAAGCCGCTTCCAGGGAA
GACAACTGGACCTTACCAAGAAGGGCAAGAGGCCTCCCACCCCTTGTTAGCGACCCGGAGAGAAAAAGGTTCCGC
TTCAATTGAGAGTCGGAGTCCGGCTCTGAAGCCTCCAGCCCAGACTACTTTGGACCCCCAGCAAAGAATGGGGTG
GCAGCAGAAAGTCAGCCCAGCCAAAGAGGAGAATCCAAGGCGAGCCTCAAAGGCAGTTGAGGAGAGCAGTGATGAG
GAACGGCAGAGGGACCTGCCCGCACAGAGGGGAGAGGAGAGCAGTGAGGAGGAGGAAAAGGGGTACAAGGGGAAG
ACTAGGAAGAAACCTGTGGTAAAGAAGCAGGCACCAGGCAAGGCCTCAGTCAGTAGGAAGCAGGCCAGGGAAGAA
AGTGAGGAGAGCGAGGCAGAACCCGTTGAGAGGACAGCAAAGAAGGTGGAGGGAAATAAAGGAACTAAAAGCCTG
AAGGAAAGTGAACAGGAGAGTGAAGAGGAGATCCTAGCCAGAAGAAAGAGCAGAGAGAGGAGGAAGTGGAGGAG
GAAGAGAAAGAAGAGGATGAGGAAAAGGGGATTGAAAACCCAGAACCAGGAGCAATGGCCGGAGAAAAGTCAGCT
AGGGAGGAGAGGAGCTGTAAGCAGAAAAGCCAGGCAAAGAGGCTCTTGGGAGACTCAGACAGCGAGGAAGAGCAG
AAAGAGGCAGCCAGCAGTGGGGATGACAGTGGGAGAGATAGAGAACCCCCAGTGCAGAGGAAGAGTGAGGACAGG
ACCCAGCTTAAGGGTGGGAAGAGGTTGAGTGGAAGCAGCGAGGACGAGGAAGACAGTGGGAAGGGGGAACCCACA
GCTAAAGGCTCTAGAAAGATGGCCAGACTGGGCAGCACCAAGTGGTGAGGAAAGTGACTTGGAGAGGGAGGTAAGT
GACAGCGAGGCAGGGGGAGGCCCCAGGGGGAGAGGAAGAACCCTCTTCCAAGAAGAGCTCCAGGAAAGGCAGG
ACACGAAGCTCCTCTTCTCCTCAGATGGAAGTCCAGAGGCCAAAGGAGGGAAGGCTGGCTCAGGTCGCCGTGGA
GAGGACCACCCGGCTGTGATGAGGCTGAAGCGCTACATTCGGGCCTGTGGTGCCCATCGAACTACAAGAAGCTG
TTGGGCTCCTGTTGCTCACACAAGGAGCGCTGAGTATCCTCCGGGCAGAACTGGAAGCGCTAGGCATGAAGGGT
ACCCCTTCCCTAGGGAAGTGTGCGGCCCTGAAGGAGCAGAGGGAGGAGGCAGCTGAGGTGGCCTCCTTGATGTT
GCGAACATCATCAGTGGCTCGGGCCGGCCACGCAGACGTACAGCCTGGAACCCCTTAGGAGAAGCAGCACCCCCA
GGGGAGCTGTACCGACGGACCCTGGACTCAGATGAAGAGCGGCCCCGTCCCGCACCCCCAGACTGGTCACATATG
CGTGGCATCATCAGCAGTGATGGCGAGAGTAACTGAGCTCTGCCACCCCCAGGAGGGACCCTTGATACATGTACA
AAGCATACATAGCACCCCTTGCCCTGTGTCTGTGGAACAGAAGCAGCTTCCTTCAGAGAAGACTGCAGCTCCCAA
GGACACAAGCTGTTGGGATGCTACTTCTCAGCTTCACGCTGTCCCTTTAAGGTGTTTATTTTTTAAGACTCAATA
AAGGAGTGTTTTTAATCACCTC

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FIGURE 4527

AGCAGGGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAGTTATAGCTCACTGCAGCCTTGAACCTCCTGG
GCTCAAGTGATCCTTCCACCTCAGCCTCCCTAGTAGCTGGGACCACAGGTGGTGACTTCCAAGAGTGACTCCGTC
GGAGGAAAATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCTGCTGCAAGGTG
CCCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAGGAGCAGCCTCCACT
ACAAAACCCACACCAGACCTGCGCATCTCCATCGAGAACTCCGAAGAGGCCCTCAGAGTCCATGCCCCCTTTCCTG
CAGCCCCACCTGCTTCCCGATCCTTCCCTGACCCCCAGGGGCTCTACCACTTCTGCCTCTACTGGAACCGACATG
CTGGGAGATTACATCTTCTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTCTAGCCTCCTCTGCTTCC
AGCACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCACTTCTGTCACTCCTGGTGGAGCCCTCAGA
ACATCAGCCTGCCAGTGCCGCCAGCTTACCTTCTCCTTCCACAGTCTCTCCACACGGCCGCTCACAATGCCT
CGGTGGACATGTGCGAGCTCAAAGGGACCTCCAGCTGCTCAGCCAGTTCTGAAGCATCCCCAGAAGGCCCTCAA
GGAGGCCCTCGGCTGCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTATGG
GGGACATGGTGTCTTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTCCAGCCCACAGCCGGCCTCCAGG
ACCTGCACATCCACTCCCGGCAGGAGGAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACAC
TCTTCCAGAGGACGAAAGGCCGGAGCGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCC
TGTTCCAGGACAAGAATTCCAGCCAAGTCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACACCAAAGTAG
CCAACCTCACGGAGCCCGTGGTGTCTCACTTTCAGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTGT
TCTGGGTGGAAGACCCACATGTGACAGCCCGGGGCATTGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAA
CCCAAACATCCTGCTTCTGCAACCACTTGACCTACTTTGCAGTGCTGATGGTCTCCTCGGTGGAGGTGGACGCCG
TGCACAAGCACTACCTGAGCCTCCTCTCTACGTGGGCTGTGTCTCTGCCCCTGGCCTGCCTTGTCAACCATTG
CCGCCTACCTCTGCTCCAGGGTGCCCTGCCGTGCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGA
ACCTGCTGCTGGCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGG
CTGGCTGCCGAGCCAGTGCCATCTTCTGCACCTTCTCCCTGCTCACCTGCCTTTCTGGATGGGCCTCGAGGGGT
ACAACCTCTACCGACTCGTGGTGGAGGTCTTTGGCACCTATGTCCCTGGCTACCTACTCAAGCTGAGCGCCATGG
GCTGGGGCTTCCCCATCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACATAGGCCCCATCATCTTGG
CTGTGCATAGGACTCCAGAGGGCGTCATCTACCCCTTCCATGTGCTGGATCCGGGACTCCCTGGTCAGCTACATCA
CCAACCTGGGCCTCTTTCAGCCTGGTGTCTTCTGTTCAACATGGCCATGCTAGCCACCATGGTGGTGCAGATCCTGC
GGCTGCGCCCCCACACCCAAAAGTGGTTCATGTGCTGACACTGCTGGGCCTCAGCCTGGTCTTGGCCTGCCCT
GGGCCTTGATCTTCTTCTCCTTTGCTTCTGGCACCTTCCAGCTTGTCTCTCTACCTTTTCAGCATCATCACCT
CCTTCCAAGGCTTCTCATCTTCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
AGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGCAGCACCTCGTCCAGCCGCATCTAGGCCTCCAGCC
CACCTGCCCCATGTGATGAAGCAGAGATTGGCCCTCGTGCACACTGCCTGTGGCCCCGAGCCCCGGCCAGCCCC
AGGCCAGTCAGCCGCAGACTTTGGAAGCCCAACGACCATGGAGAGATGGGCCGTGGCCATGGTGGACGGACTCC
CGGGCTGGGCTTTTGAATTGGCCTTGGGGACTACTCGGCTCTCACTCAGCTCCACGGGACTCAGAAGTGCGCCG
CCATGCTGCCTAGGGTACTGTCCCCACATCTGTCCCAACCCAGCTGGAGGCCTGGTCTCTCTTACAACCCCTGG
GCCCAGCCCTCATGTGCTGGGGCCAGGCCTTGGATCTTGAGGGTCTGGCACATCCTTAATCCTGTGCCCCCTGCCT
GGGACAGAAATGTGGCTCCAGTTGCTCTGTCTCTCGTGGTACCCCTGAGGGCACTCTGCATCCTCTGTCAATTTTA
ACCTCAGGTGGCACCCAGGGCGAATGGGGCCAGGGCAGACCTTCAGGGCCAGAGCCCTGGCGGAGGAGAGGCCC
TTTGCCAGGAGCACAGCAGCAGCTCGCCTACCTCTGAGCCC

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FIGURE 4528

AGGGCTTCCTGAAGAATGAGAAGGACAATGCCCTGCTGTCTGCCATCGAAGAGTCCCGGAAGAGGACCTTCGGCA
TGGCTGAGGAGTACCATCGGGAGTCAATGTTGGTTGAGTGGGAGCAAGTGAAACAGCGAATTCTGCACACACTGC
TGGCATCAGGAGAAGACGCCCTTGACTTTACTCAAGAAAGCGAGCCAAGCTACATCAGTGATGTGGGACCCCTG
GTCGAAGCTCTCTGGATAACATCGAGATGGCCTATGCGCGGCAAATTTATATCTATAATGAGAAAATTGTAAATG
GACACCTGCAGCCTAACCTGGTGGACCTTTGTGCTTCCGTGCGCAGAGCTCGATGATAAGAGCATTTCCGACATGT
GGACCATGGTAAAACAAATGACAGACGTGTTGTTGACACCGGCAACGGATGCCCTGAAGAACCAGCAGCGTGG
AAGTGCATGAGTTTGTGAGGAGGCTTGGCGTACCTTGAGCAGAGTTATAAGAATTACACCCTTGTGACTG
TCTTTGGAAATTTGCATCAGGCCAGCTGGGCGGGTGCCTGGGACTTACCAATTGGTTCTGAAGTTTCCTGAACA
TTAAACTGCCAGCTCCCTTGCTGGACTACAGGATGGAGAGGTGGAAGGCCATCCTGTGTGGGCGCTAATTTACT
ACTGCATGCGCTGTGGAGACCTGCTTGCCGCTTACAGGTAGTTAATCGAGCCCAGCACCAGCTGGGAGAGTTTA
AAACCTGGTTCCAGGAGTACATGAACAGCAAGGACAGAAGATTGTCCCAGCTACGGAAAACAAGCTCCGGCTGC
ATTACCGTAGGGCCCTCAGGAACAATACAGATCCCTACAAGCGGGCCGTGTACTGTATCATTTGGCAGATGTGACG
TCACCGACAACCAGAGTGAAGTGGCGGACAAAACCTGAGGATTACCTGTGGCTGAAGTTGAACCAAGTGTGTTTTG
ACGACGATGGCACCAGCTCCCCACAAGACAGGCTCACTCTCTCACAGTTCCAGAAGCAGTTGTTGGAAGACTATG
GCGAGTCCCACTTTACGGTGAACCAGCAACCCTTCCTCTACTTCCAAGTCCTGTTCTGACAGCGCAGTTTGAAG
CAGCAGTTGCCTTTCTTTTCCGCATGGAGCGGCTGCGCTGCCATGCTGTCCATGTAGCACTGGTGTGTTTGAGC
TGAAGCTGCTTTTAAAGTCTCTGGACAGAGTGCTCAGCTCCTCAGCCACGAGCCTGGTGACCCTCCTTGCTTGC
GGCGGCTGAACCTTCGTGCGGCTCCTCATGCTGTACACCCGGAAGTTTGAGTCCACGGACCCAAGGGAGGCCCTCC
AGTACTTCTATTTCTCAGGGATGAGAAAGATAGTCAAGGAGAAAACATGTTTCTGCGCTGTGTGAGTGAGCTTG
TGATTGAAAGCCGAGAGTTTCGATATGATTCTTGGGAAACTAGAGAATGACGGAAGTAGAAAGCCTGGAGTCATAG
ATAAGTTTACTAGTGACACAAAGCCTATTATCAACAAAGTTGCTTCTGTGGCAGAAAATAAAGGACTGTTTGAAG
AGGCAGCAAAGCTGTATGACCTTGCCAAGAATGCTGACAAGGTACTGGAGCTGATGAACAAACTGCTGAGCCCTG
TCGTCCCCCAGATCAGTGCCCCGCAATCCAACAAGGAGAGGCTGAAGAACATGGCACTCTCCATTGCCGAACGGT
ATAGGGCTCAAGGAATAAGCGCAAATAAATTTGTGGACTCCACGTCTCTCTTTTGGACTTGATCACCTTTT
TTGACGAGTATCATAGTGGTCATATTGATAGAGCTTTTGATATCATTGAGCGCTTGAAGCTGGTGCCCCTGAATC
AGGAAAGTGTGGAAGAGAGAGTGGCTGCCCTCAGAAATTTAGTGATGAAATCAGGCACAACCTCTCAGAAGTGC
TTCTTGCCACCATGAACATCTTGTTCACACAGTTTAAAGAGGCTCAAGGGGACAAGTCCATCCTCGTCATCCAGGC
CCCAGCGAGTCATCGAGGACCGCGACTCTCAACTCCGAAGTCAAGCCGCACTCTGATTACCTTTGCTGGAATGA
TACCATACCGAACGTCTGGGGACACCAATGCGAGGCTGGTGCAGATGGAGTCTCATGAATTAAGTGCCATGCT
TTGTGGGAGTCTGGGTCGGCACACTGTCAGTACATCAGGCACATGGGCCCCTAGGCTGGGGTTTCTGTTTTGT
TTCTGTTGTGTTTTGTTTTGGTTTCTGTATTATGTATTTTGTCAACGCCAATAAATTTCTTTGATTTGT

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FIGURE 4529

MAEEYHRESMLVEWEQVKQRILHTLLASGEDALDFTQESEPSYISDVGPPGRSSLDNIEMAYARQIYIYNEKIVN
GHLQPNLVDLCASVAELDDKSI SDMWTMVKQMTDVLLTPATDALKNRSSVEVRMEFVRQALAYLEQSYKNYTLVT
VFGNLHQAQLGGVPGTYQLVRSFLNIKLPAPLPGLQDGEVEGHPVWALIYYCMRCGDLLAASQVVNRAQHQLGEF
KTWFQEYMNSKDRRLSPATENKLRLHYRRALRNNTDPYKRAVYCIIGRCDVTDNQSEVADKTEDYLWLKLNQVCF
DDDGTS SPQDRLTLSQFQKQLLEDYGESHTVNQQPFLYFQVLFLTAQFEAAVAFLFRMERLRCHAVHVALVLF
LKLLKSSGQSAQLLSHEPGDPPCLRRLN FVRLMLYTRKFESTDPREALQYFYFLRDEKDSQGENMFLRCVSEL
VIESREFDMILGKLENDGSRKPGVIDKFTSDTKPIINKVASVAENKGLFEEAAKLYDLAKNADKVLELMNKLLSP
VVPQISAPQSNKERLKNMALSIAERYRAQGISANKFVDSTFYLLLDLITFFDEYHSGHIDRAFDI IERLKLVLPLN
QESVEERVA AFRNFSDEIRHNLSEVLLATMNILFTQFKRLKGTSPSSSRPQRVIEDRDSQLRSQARTLITFAGM
IPYRTSGDTNARLVQMEVLMN

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FIGURE 4530

GACGTGAACGGTCGTTGCAGAGATTGCGGGCGGCTGAGACGCCGCCTGCCTGGCACCTAGGAGCGCAGCGGAGCC
CCGACACCGCCGCGCCGCC**ATG**GAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAGAGCCCCAACC
AGCGCCACCGCGACTTGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGGCCCACCTGAGCCGCG
TCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGTTGTTGGATCACCAATGTC
TCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTGTGCAATGTGAAGAGTCCTTCAAAA
TGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTTCTAATCGGGGACAGTATCCTGAGG
ATTCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCTTTCTTCCCCTGGATGGGAAAACATCTCAA
GGCCTGAAGCTGCCAGCAGGCATTCCAAGGCCTGGGTCTGGTTTCTCCGTTACACACCCTATGGGTGGCTTC
AGCTTTCTGGTTCAGCAGATATATGCACGACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGG
CTTTTGTTCACCACCAAGTGCACAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTACAAACCAGT
TTCCAGCTGAAAACCAGCCTGCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATT
TGCGGATGAATGCACAAGGTGGCCCTATTGTGGAAGAAGATGATGAAATAAATCGAGATTGGTTGGATTGGACCT
ATTACAGCAGCTACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCTCATGGTCA
TGGGGGCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCAGGCGGTTTCAGAACTTCC
CAAATGATGGTCTCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAA
CTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCTCCTTTATGAGCA
CAGCATGGCTTGCTTTCAAGACTTTCTTTGCCTCTCTTCTTCCAGAAGGCCCCCAGCCATCGCAAAC**TGA**TGGT
GTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCAGCTAGATTGCCTCTCCTG
GACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTTTTGTGAGCAAGCAAAAGCAGAAACG
TGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCCAAGGCTTCTCATGTCTTTATTCTGAAGAGCTTTAATAT
ATACTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCCTTAGGTGTTGCATGTCTATGCTTGAGGAACTTTC
CAAATGTGTGTGTCTGCATGTGTGTTTGTACATAGAAGTCATAGATGCAGAAGTGGTTCTGCTGGTACGATTTGA
TTCCTGTTGGAATGTTTAAATTACACTAAGTGTACTACTTTATATAATCAATGAAATTGCTAGACATGTTTAGC
AGGACTTTTCTAGGAAAGACTTATGTATAATTGCTTTTTTAAATGCAGTGCTTTACTTTAACTAAGGGGAACCTT
TGCGGAGGTGAAAACCTTTGCTGGGTTTTCTGTTCAATAAAGTTTTACTATGAATGACCCTGAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 4531

MESETEPEPVTL LVKSPNQRHRDLELSGDRGWSVGHLKAHL SRVYPERPRPEDQRLIYSGKLLLDHQCLRDLLPK
QEKRHVLHLVCNVKSPSKMPEINAKVAESTE EPAGSNRGQYPEDSSSDGLRQREVLRLNLSSPGWENISRPEAAQQ
AFQGLGPGFSGYTPYGWLQLSWFQQIYARQYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQP
ANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVM
YLHHVGWFPFRPRPVQNF PNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPPDRDVLDGEQTSPSFMSTAWLVFK
TFFASLLPEGPPAIAN

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FIGURE 4532

CCCGAGCGGCTGGGAGCGCACGCGAGCGGGCCGTGGCCGCGCGGGCAGCGCCCTGAGCCTGTCCCGCGCCCGCGG
GCCCCGCCGAGCAGGAGCAGCTCCCGGGGATGCCCGGGCGGCTCGGAGCGCGGGCAGCGGCAGCCGTGCGGTGAG
GGCGGTGGCGCCCGCGGGACCTGCGACTGCCAGGAACCTCTGCCACCGCCACCGGCTCCCATGGCCACATACCC
AGTGGGGGTGCCCCAGCAGCGGGGCGAGCCCCCATGGGCCCCCAGTATTGCGTGTGCAAGGTGGAGCTGTCACTG
AGTGGCCAGAACCTACTGGACCGGGATGTTACCTCCAAGTCCGACCCCTTCTGTGTCTCTTTACAGAGAACAAT
GGCAGATGGATCGAGTACGACAGGACAGAAACCGCGATCAACAACCTCAACCCCGCCTTCTCCAAGAAGTTCGTG
CTTGACTACCACTTCGAGGAGGTACAGAAGCTCAAGTTCGCGCTCTTTGACCAGGACAAGTCCAGTATGCGGCTG
GACGAGCATGACTTCCTGGGCCAGTTCTCCTGCAGCCTGGGCACGATCGTCTCCAGCAAGAAGATCACTAGGCCT
CTGCTGCTGCTGAATGACAAGCCTGCGGGGAAGGGCTTGATTACGATCGCTGCCAGGAGCTGTCCGACAACCGC
GTCATCACACTAAGCCTGGCGGGCAGGAGGCTGGACAAGAAGGACCTCTTTGGGAAGTCAGACCCCTTTCTGGAG
TTTTATAAGCCAGGAGACGATGGCAAGTGGATGCTGGTCCACAGGACTGAGGTGATCAAGTACACACTGGACCCT
GTGTGGAAGCCATTACAGTGGCCTTGGTGTCCCTGTGTGATGGGGACATGGAGAAGCCCATCCAGGTCAATGTGC
TACGACTATGACAATGACGGGGGCCATGACTTCATCGGCGAGTTCAGACCTCAGTGTACAGATGTGTGAGGCT
CGAGACAGCGTCCCGCTGGAGTTCGAGTGCATCAACCCCAAGAAGCAGAGGAAGAAGAAGAACTATAAAAACTCG
GGCATCATCATCCTGCGATCCTGCAAGATAAACCGAGACTACTCCTTCCTTGACTACATCCTGGGAGGCTGCCAG
CTCATGTTACCGTTGGAATAGACTTTACAGCCTCCAACGGGAATCCCCTCGACCCTTCCTCTTTGCACTATATC
AACCTATGGGCACCAACGAATATCTGTGGCCATCTGGGCTGTTGGGCAGATCATTACAGGACTACGACAGTGAT
AAGATGTTTCCAGCTCTGGGATTCGGGGCCCAGTTACCCCCAGACTGGAAGGTCTCCCATGAGTTTGCCATCAAC
TTCAACCCCAACCAACCCCTTCTGCTCAGGTGTGGATGGTATTGCCAGGCGTACTCAGCTTGCTGCCCCACATC
CGCTTCTACGGTCTTACCAATTTCTCCCCATCGTCAACCACGTGGCCCGGTTTGCGGGCCAGGCCACACAACAG
CGGACGGCCACGCGAGTACTTCATCCTCCTCATCATCACGGACGGGGTCATCAGTGACATGGAGGAGACACGGCAT
GCCGTGGTGCAGGCTTCCAAGCTGCCCATGTCCATCATCATCGTGGGCGTGGGCAATGCGGACTTCGCTGCCATG
GAGTTCCTGGATGGGGACAGCCGATGCTGCGCTCCACACGGGGGAGGAGGCAGCCCGGATATTGTGAGTTC
GTTCCCTTTTCGAGAGTTCGCAACGCAGCAAAAGAGACCTTGCCCAAAGCTGTGCTGGCGGAGCTGCCCCAACAA
GTTGTGAGTATTTCAAGCATAAAAACCTGCCCCCAACCACTCGGAGCCCGCCTGAGCTCCAGTGCCAGCAGC
AGCATGTCAGCTGAGCCTCCTGCCCTCCCCAGGAACATGCACGCTCACTCTGCTTCCTTGTTGGGTGGCCTTTTT
TTACCGATCCCCCTTTTTTATTTTTTACAACCGGACCTCCACCCCAACTTCCTCCAGCCCAGCTGGGCTTCCTTT
GTTGGAGTCAACTGTTGATGCTTCCAGGCCAACTGGCTTCCTCTCCTCCTCTCCCCACCTTTGCCATTCTTAAG
TATTGAATGTACTTTGTATAATTTTAGTGGAATTGTTATTGAGAATAAAATTTTTTACAATCAT

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FIGURE 4533

MRLDEHDFLGQFSCSLGTIVSSKKITRPLLLLNDKPAGKGLITIAAQELSDNRVITLSLAGRRLDKKDLFGKSDP
FLEFYKPGDDGKWMLVHRTEVIKYTLDPVWKPFTVPLVSLCDGDMEKPIQVMCYDYDNDGGHDFIGEFQTSVSQM
CEARDSVPLEFECINPKKQRKKKNYKNSGIIILRSCKINRDYSFLDYILGGCQLMFTVGIDFTASNGNPLDPSSL
HYINPMGTNEYLSAIWAVGQIIQDYDSDKMFPALGFGAQLPPDWKVSHEFAINFNPTNPFCSGVDGIAQAYSACL
PHIRFYGPTNFSPIVNHVARFAAQATQQRATQYFILLIITDGVISDMEETRHAVVQASKLPMSIIIVGVGNADF
AAMEFLDGDSRMLRSHTGEEAARDIVQFVPFREFRNAKETLAKAVLAELPQQVVQYFKHKNLPPTNSEPA

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FIGURE 4534

CGGTGGCGCCGCGCAGTCACCGCGGAGCAGACGCGGAGGCTGGTGGCCCCCTGGGCGAGATGCCGTACGCCAACCA
GCCTACCGTGCGGATCACGGAGCTCACTGACGAGAATGTCAAGTTCATCATCGAGAACACCGACCTGGCGGTGGC
CAATTCGATTTCGGAGGGTCTTCATCGCTGAGGTTCCCATATAAGCCATTGACTGGGTTCAGATTGATGCCAATTC
CTCAGTTCTTCATGATGAATTCATTGCTCACAGGCTTGGATTAATTCCCCTCATTAGTGATGACATTGTGGACAA
GCTGCAGTACTCTCGGGACTGCACATGTGAGGAGTTCTGCCCCGAGTGCTCGGTGGAGTTCACCCCTCGATGTGCG
GTGCAATGAAGACCAGACGCGACATGTACGTCTCGAGACCTCATCTCCAACAGCCCCCGGGTCATTCCGGTGAC
ATCCCGGAACCGAGATAATGACCCCAATGACTACGTGGAGCAGGATGACATCCTCATCGTCAAGTTGAGAAAGGG
CCAGGAGCTGAGACTTCGAGCCTATGCCAAAAAGGGCTTTGGCAAGGAGCATGCCAAGTGGAACCTACTGCAGG
GGTGGCTTTTGAATACGATCCAGACAATGCCCTGAGGCACACAGTGTACCCCAAGCCCCGAGGAATGGCCAAAGAG
TGAGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTA
CAATGTGGAGTCTGTGGCTCTCTGCGTCCTGAAACCATTGTCTGTGAGCCCTCTCAGGATTGAAGAAGAACT
GAGTGATTTACAACTCAATTAAGCCACGAGATCCAGAGTGATGTGCTAACCATAAATTAAGTGCAGCTTGCCTG
CTTCAGCAAAAACGGAGATTACAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAGACTCTTCTCGTTTCTGAGAA
TCTAGTCTACTGTTGGTTGAGCTTCTTGGCAGGACATCAGTACCAACTAGAAGTGGGTCATAGATAGATTACCAG
GGATGCAGTGGTGTGTTAGGCAGGATAGGTCTTTACTGGCCCTGACTGCTGTTAATAATTGGCAGCAGTGCTCCCC
AGATCCCAGAAGGTCCCTGCTGGAGTGTTTCCAGTGCACCTGTAGGGAACCAACTAGACTTCTCTCCTGGTTAGT
CCAGCTCTTTACTCTAAACCCTTTCTGTCCAAAATGAGTCATTTTCAGTTGTACCTTAGATGTCTGGTGTGAGG
ATCAAGTGCCATAGCCTTTATTCAGGGGGCCTATAAACCTTCCAGTTCTTGCCCCAGGGCTGGCCTGCTAGCGC
TTCAAATTCCCAGGTGTCCCTAATTTGAGAAGTAACCTTTTGGAATAGCATTAGACCCTGGCTGTCCCTCCCCA
CCAAATAAACATGATATTTTATTCTCTGTCCAGCAGTCATGAACCCCTTACCTCCAATGACCTGATCATTTAGT
TTGGTGGGGGTGGGGGTGGGGGTGGGGGTGGAAGCAGCCGCAGGAGCAAGGGCCCCCTCCACATACACAGGAGGA
GTATTTTCAATTTCTCCTTAATGAAGGCTCTGGCCCTAACCCCTCAGCACTGTCTCCAGATAGGAACATGCACAAAG
CAGTTAATTAGGCAGCCTGGAGAAAACCAGAGATCCAGTACAGAAAGGAAAGGATATTTATTGATTAACAGAAGT
TGTCTTTTTTAAAAGTGTTTATTTTTGGCAATAAAGAGCACAACAT

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FIGURE 4535

CCCGGCGCCGCGCCGCCCTGCCGCCCCGCCAGCCGCGCCGTGACGCGGGCATGAGCCTGCTCCGCGGCGCCGC
TGAGCAGGCGCTCCTGGCCCGGGCCTCGGCGCCAGCAGGCGCGGGGCGAAGGAGCTGCTAGAACAAATGCTGAGG
CGGGTGAGGTGAGGAGCAGCCCCCTCGCGGCAGCCCCGACAGAGTGTCTGGAACAGGTGATTGGAGGAGCCGGAGA
CCCAGGCACCTGGGCATCCTTCCCCTCGCCTCTGCCAGGCCCGCGCCCCCTAAAAGGTGGGAAAACCATGCGGAC
CAATTTCACTGACATCGTCAAGCAAGGCTACGTGAAGATGAAGAGCAGGAAGCTCGGGATCTACCGGAGGTGCTG
GCTGGTGTTCGGAATCCTCCAGCAAGGGGCCCCAGCGGCTGGAGAAGTATCCAGATGAGAAGTCGGTGTGCCT
CCGGGGCTGCCCCAAGGTGACTGAGATCAGCAACGTCAAGTGTGTTACGCGGCTCCCCAAGGAGACCAAGCGGCA
GGCGGTGGCCATCATATTTACTGATGACTCGGCACGTACCTTCACCTGCGACTCAGAGCTAGAGGCAGAGGAGTG
GTACAAGACACTATCTGTGGAGTGTCTGGGGTCCCGCCTCAACGACATCAGTCTGGGAGAACCTGACCTCCTGGC
CCCAGGGGTGCAGTGTGAACAGACAGATCGCTTCAATGTCTTCTGCTGCCCTGCCCCAACCTGGACGTGTATGG
CGAGTGCAAGCTGCAGATCACCCACGAGAACATCTACCTCTGGGACATCCACAACCCCCGTGTGAAGCTCGTCTC
GTGGCCCCCTGCTCACTGCGCCGCTATGGCCGGGATGCCACACGCTTTACCTTCGAGGCTGGCCGGATGTGTGA
TGCTGGGGAAGGACTCTATACCTTCCAGACACAAGAGGGGGAGCAGATTTACCAGCGCGTCCACAGTGCCACCCT
GGCCATCGCAGAGCAGCACAAGCGGGTCTGCTGGAATGGAGAAGAAGCTGAGGCTGCTGAACAAGGGCACGGA
ACATTACTCGTATCCCTGCACACCCACGACCATGCTGCCGCGCAGTGCCTACTGGCACCACATCACTGGTTCCCA
GAACATCGCCGAAGCCTCCAGCTATGCTGGTGAGGGGTATGGGGCAGCCCAGGCCAGCTCGGAAACAGACCTCCT
CAACAGATTCATCCTGCTAAAGCCAAAGCCCAGCCAGGGGGACAGCAGTGAGGCCAAGACCCCATCCCAGTGACC
ACAGTGCTGGCGAGCACCGATGACTGCTGGGGGCTGCCTGCTGCGGGGCTGGCTGCAGTGTACCGTGGACAGCCT
CAGGGGGCTGTGCGCCAAGAGCCTGGAGAAAGGGAGCAAGCTGCCCCCTCCTTGCCCCAAGGATGAGGCTGGAC
TGAGGCAAAGGGCTGGCCACACCACCTGAGCATGTGTGAGGGGTGGAGCTACCGTGGGACTATATACTGTTAAT
GATTTTAATATATATATGGCTTATGACATACTCTGTATCAATGAGATCCCCTCACCCCTACCCCATCCTTCCCCACC
AATACACACAAATTTTTTAATCCCATGACCAGGCCACGGTCAAGGCTGTTTTTGAGTATGAGTGCAGTCGTGTCC
ATCCTCCATGGCACAGCCCTCCTGCTGCCAGGACCTGCTTGAACCTACCAGGGCCACAGGAGGGGGATAATCAGAG
CTTGAGGCTGGCACTCTGACTGCTGGCTTTTTCCCAAACAGCCCAAGGGCCGGAACAGCAGGTGGCTTCTCAGTTC
CTCTGGGCCTGGAGTGACACAGGAAGGATCTGCACTTCCTCTGTGCTGCTTGCCAGCCTTGCAAGTTGGAGTTT
AGCAGAGGTGACATCTGGTTGACGCTCAGGTGAAAATCTGGTTTTAAATGTAACCTCTGCACAGGCTCCTTCC
TGCTTTGTAGGCTGGGAAGATGCCCCCTGGGGTAGGGGTGCTGATTACCTCAGCCATGTGGAGGAAGGCTGGAGCT
TGTTCTGCCCCAGGAATAGGCCAGGAGGGAAGGCCGAGCAGGACTGCCGTGGGGAGCACCCCTGCTGCCCCC
TCTCACTGACCAGGGGTGGACAATGCCCAAGCAGAGGGAGCCCCCTTGCCCTGTTTGGCCACCCTCTGGCCAGCC
AAAAGCACTCTGAAACCAAGACCTTCCCATTCCTCCTCCCCACATGGTGCTGAGGCTCCCTGCTGCAATGCAATT
AAAGCAATTGATTTTCTAGTGCTGGTATTTGTTGACTACCATGCAGAAGGGCTATCTTTCTATTACGTCAAAT
TTTGTTGTGTGGGGTTTTTTGTTGTTTTTTGGGTTTTGTTTTTAATACTTTAGGGTCTGATTTGTGGGAACA
GACCTTCTTGTAATAACCACTATTTGAGTTGTGGCAGGAGGATGATAAAGCACGCGGCCCTCCCAAAGGAGCC
CTTGAGCTAGGGAGGTGGTGCAGTCAGCCTCGCTCTCAACGTGACCCGGGGAATGACCACCCAGAGGGATGAGCT
AGCCTGTAGAGGGGAACTGGGGTCCAAAGGTCTTTGGGGAGGGAGGCAGAGCTGGCTGGCTCAGCTAAGTGGCAC
GATGACGCATGAAGGAGATTATGTTGTGCTCTTTATTGCCAAAAATAAACACTTTTAAAAAGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4536

MATNFS DIVKQGYVKMSRKLGIYRRCWL VFRKSSSKGPQRLEKYPDEKSVCLRGCPKVTEISNVKCVTRL PKET
KRQAVAIIFTDD SARTFTCDSELEAE EWYKTL SVECLGSRLNDISLGE PDLLAPGVQCEQTDRFNVFLLPCPNLD
VYGECKLQITHENIYLWDIHNPRVKLVSWPLCSLRRYGRDATRFTFEAGRMCDAGEGLYTFQTQEGEQIYQRVHS
ATLAIAEQHKRVLLEMEKNVRLLNKGTEHYSYPCTPTTMLPERSAYWHHITGSQNI AEASSYAGEGYGAAQASSET
DLLNRFILLKPKPSQGDSSEAKTPSQ

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FIGURE 4537

ATTTTGTGGGTGGGGCTTCAGGTGCCAGCCAGCTGAAGGATGGCCACCCCTGTGGTCAACCAAGACAGCCTGGAAG
TTGCAAGAGATCGTCGCGCATGCCAGCAACGTGTCTCACTGGTGTCTGGGCAAAGCCTCCGGGCGGCTGCTGGCT
ACAGGCGGGGATGACTGCCGCGTCAACCTGTGGTCCATCAACAAGCCCAACTGCATCATGAGCCTGACGGGCCAC
ACATCCCCAGTGGAGAGCGTCCGCTCAACACCCCCGAGGAGCTCATCGTGGCCGGCTCTCAGTCGGGCTCCATC
CGTGTCTGGGACCTGGAAGCTGCCAAAATTCTTCGCACACTCATGGGACACAAAGCCAACATCTGCAGCCTGGAT
TTCCACCCGTACGGCGAGTTTGTAGCCTCTGGTTCCCAGGACACAAACATCAAGCTCTGGGACATCAGGAGGAAA
GGCTGTGTCTTCCGATACAGGGGGCACAGCCAGGCCGTGCGGTGTCTCCGGTTCAGCCCCGATGGGAAGTGGTTG
GCGTCGGCCGCAGATGACCACACCGTGAAGCTCTGGGATCTCACTGCCGGCAAGATGATGTCTGAGTTCCTGGT
CACACGGGGCCTGTCAACGTGGTCGAGTTTACCCCCAACGAGTACCTCCTGGCCTCCGGCAGCTCTGACAGGACA
ATCCGCTTCTGGGACCTGGAGAAGTTCCAGGTGGTGAAGTGCATCGAAGGGGAGCCTGGGCCCCGTCAGGAGCGTC
CTCTTCAACCCAGACGGCTGCTGCCTGTACAGCGGCTGCCAGGACTCACTGCGTGTCTACGGCTGGGAACCTGAG
CGGTGCTTTGATGTGGTCTCTCGTCAACTGGGGCAAGGTGGCCGACCTGGCCATCTGCAATGACCAGTTGATAGGT
GTGGCCTTCTCCCAGAGCAACGTCTCTCTACGTGGTGGATCTGACGCGTGTACACAGGACTGGCACGGTGGCC
CGGGACCTGTGCAGGACCACCGGCCCTGGCACAGCCACTGCCCCAACCCAGCGCCCCCTCCGGCGCATCTAT
GAGCGGGCCAGCACAACTGCAGCAAGCCTCAGAGGGTGAAGCAGAACTCAGAGAGCGAGCGCCGCAGCCCCAGC
AGCGAGGATGACCGGGACGAGCGGAGTCCGCGCGGAGATCCAGAACGCCGAGGACTACAACGAGATCTTCCAG
CCCAAGAACAGCATCAGTCGGACGCCACCCCGGAGAAGTGAGCCCTTCCCTGCACCCCCAGAGGACGACGCAGCC
ACAGCAAAGGAGGCAGCAAAGCCCAGCCCTGCCATGGATGTGCAGTTCCCGGTGCCAAATCTGGAGGTCTGCC
CGGCCCCCAGTGGTTGCTTCCACACCTGCACCCAAGGCTGAGCCTGCCATCATCCCTGCCACCCGGAACGAGCCC
ATCGGGCTGAAGGCCTCCGACTTCTGCCCCGCGTGAAGATCCCCCAGCAGGCCGAGCTGGTGGACGAGGATGCC
ATGTACAGATCCGCAAAGGCCACGACACCATGTGTGTGGTGTCAACAGCCGCCACAAGAACCTGGACACTGTG
CGGGCTGTGTGGACCATGGGCGACATCAAGACGTGCGTGGACTCCGCTGTGGCCATCAACGACCTGTGCGTGGTG
GTGGACCTCCTGAACATCGTCAACCAGAAAGCCTCCCTGTGGAAGCTGGACCTGTGCACCACCGTCTGCCACAG
ATTGAGAAGCTTCTGCAGAGCAAGTATGAGAGCTACGTCCAGACGGGCTGCACCTCCCTGAAGCTGATCCTGCAG
CGGTTTCTGCCCCCTCATCACAGACATGCTGGCGGCCCCACCCTCTGTGGGTGTGGATATCAGCAGGGAGGAGAGG
CTGCATAAGTGCCGGCTCTGCTACAAGCAGCTTAAGAGCATCAGCGGCCTGGTCAAGAGCAAGTCAGGCCTGAGC
GGCCGCCATGGCAGTACCTTCCGCGAGCTGCACCTGCTCATGGCCAGTCTGGACTGAGGAAAGCAGTGGGCAGGG
GCGCTCGGCAGCCACAGGGCCTGGCCTCAGCCCCACTCCTGTTCTTGTGCACCCACTGGCCCATGAGCCTCT
GCCTGGCCCCCTGCTGCTGTCTGTGGCCGTCTGGAGGAGGTGATGTGGTCCCTGGCCACCTCTACAGCCCTGA
ACTCTTGAGACAACCTCTCTCCAGCAATAGCTGCCAGCTTTGCCAACTGTTGCTTCTTGGGGCAGCGAACTGAG
CCCTGGGGCTGCTGCTGTAATTTATAAGGCAAATTTTATTAAATTTGTAACCTATT

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FIGURE 4539

CCGCTTCCCCGTCTTGTACACCCCTAACTCCTGAGGCTCCTCCGAATCACGCGAGTGGAAGCGGAGAAGCTCAAG
TGGCCGCCATGTCAGAGGCTTATTTCCGAGTGGAGTCGGGTGCGCTGGGGCCTGAGGAGAACTTTCTTTCTTTGG
ACGACATCCTGATGTCCCACGAGAAGCTGCCGGTGCGCACGGAGACCGCCATGCCTCGCCTTGGCGCTTTCTTCC
TGGAGCGGAGCGCAGGCGCCGAGACTGACAACGCGGTCCCACAGGGTTCCAAGCTTGAACCTACCTTGTGGCTGG
CAAAAGGACTTTTTTGACAACAAGCGACGGATCCTTTCTGTGGAACCCCCAAGATCTACCAAGAGGGTTGGAGGA
CTGTGTTTCAGTGCAGATCCCAATGTGGTGGACCTCCACAAAATGGGGCCCCATTTCTACGGGTTTGGCTCCCAGC
TCCTGCATTTTGACAGTCCCGAGAATGCAGACATTTCCCAGTCTCTGCTGCAGACTTTTATCGGACGTTTTCGCC
GCATCATGGACTCCTCACAGAATGCTTACAACGAAGACACTTCAGCCCTGGTAGCCAGGCTAGACGAGATGGAGA
GGGGCTTATTTCAAACAGGGCAGAAAGGACTGAATGACTTTTCAGTGTGGGAGAAGGGGCAGGCTTCTCAGATCA
CAGCTTCCAACCTCGTTTACAATTACAAGAAGAGAAAATTCAGTATATGGAAGACTTGAAAGCCGGAAGAACACA
GAATGGCTCCTCACAGACGTATCCCTCCGTGTGTCCTTGATAGGAGCTGGTTGACCTTGTACAGAACCAGAATCC
TGTCCCATTTTCATGGCTTATTTCTGTGGCCATAGAGAATTATAGGGAAGTGGACATGCTGGAGGATGTGGGTGT
CCCTGGCTCTGTGAGTCTTCCAGGACCGTCCCACCCTGCTGACCCACAGCCCAGGCCCTTTAACCCAAGAACCCA
TGGCCAAGGAGAAATCAAAGTCCTTCCTAAATAAGAATCACTGCCATATAATATATCACAGTAGAGTTGCAACTG
AGATTTCCTTGTGTCTGGGAGTTTGGACAGCTTCAGATGTACAGTTTCACTAGCCACAAAGCACAGGTACAACTG
GGTCATCGCTGTTCACAAAATGCTCTCTTGATCTTATTTGCCTCATCTTCCTCATGGTTGTACAGAGGATAGCA
CCCCACCATGCCAGCCTGACTTGGAGATATCTCCTGCTGCCTGCCTGCAGGGAGTTACCCAGTTTCCAAAAACA
GTCGCCCAGATAAAGGAGGAAAAAGGGAAGGCAGACGAATGGCATGGCTTTTACTAAAGAAAAGATGTTGGCCTC
ATACTCTATACTCAGGGCTTAATGAACTGGAATCTGCATAACTCAGCAGTCAACCCAGAAGGGAAATGGTTAAAC
TGAGCTTGTTATTGCCTCGGAGAGCCTAAGAGCACCCGCACACTTAATTCTACTCCCTGTCTAGAAAAGCTGTCA
GGGAGTCGTTTGAATTGCAATGTAGTTATTAAGGGCTGTTAACCAGCCTGCATTACATCTGGAAGTCAGGACTT
GGGTGCTGACTATGAAGGGCCCTGTTTTCAAATCTAACATTGCAAGTGTAATGGGCAAGAAGCCTCCGTTGTG
CTTTTTTTTTCTCTTCAGTAACTTTTGCAACATTATTGCATAGAAGATCCCTGACCATTTACTAGGAACCTGGT
TAAGCAAGCACTAATCTCTTTTCTGGAGATCAAGGATGCAACCTCAGGTTGAGAAAGAAACAGGGTTCCCTGGG
CCCATTAGACTGTTTGCAGGGCATCACTGCTTCCCCCTGACACCTCACAACTAGCAAAAATTGTCTTTGTCTTTG
GAAATTATAGAGGGATTTGGGTATCCAGATTGTGCAGATGCAAACTTAGGCTGTCTTGATGCAAACTTAGAACCA
CAGAAATGCTTTTAAATGCCTGTTTTAAGATGGAATTGTTGTTTTTATAATTTGATTTTAGTGCTAAATAAATG
ATTGGCTTTGTACATGAATATGTTCTGTACAAGTGCTCTTTCAGTACTACAGATAATCAAAGCTATCAGAAT
TGTGTCTTTGATCATATTTGACGGTAATACACAAATAAATCCATGTTTTAGCAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 4540

MSEAYFRVESGALGPEENFLSLDDILMSHEKLPVRTETAMPRLGAFFLERSAGAETDNAVFPQSKLELPLWLAKG
LFDNKRRILSVELPKIYQEGWRTVFSADPNVVDLHKMGPHFYGFSGQLLHFDSPENADISQSLQLQTFIGRFRRIM
DSSQNAYNEDTSALVARLDEMERGLFQTGQKGLNDFQCWEKGQASQITASNLVQNYKKRKFTDMED

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FIGURE 4541

GGTCCACCATGGCCCTGCTGCACTCCGGCCGCGTCCTCCCCGGGATCGCCGCCGCCTTCCACCCGGGCCTCGCCG
CCGCGGCCCTCTGCCAGAGCCAGCTCCTGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATTCTGGGAGTCA
CTGAAGCCTTTAAGAGGGACACCAATAGCAAAAAGATGAATCTGGGAGTTGGTGCCTACCGGGATGATAATGGAA
AGCCTTACGTTCTGCCTAGCGTCCGCAAGGCAGAGGCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGC
CCATTGGGGGACTGGCTGAATTTTGCAAGGCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGA
GTGGCCGGTTTGTCACTGTGCAGACCATTTCTGGAAGTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGAT
TTTTTAAGTTCAGCCGAGATGTCTTTCTGCCCAAACCAACCTGGGGAAACCACACACCCATCTTCAGGGATGCTG
GCATGCAGCTACAAGGTTATCGGTATTATGACCCCAAGACTTGCGGTTTTGACTTCACAGGCGCTGTGGAGGATA
TTTCAAAAATACCAGAGCAGAGTGTCTTCTTCTGTCATGCCTGCGCCACAATCCACGGGAGTGGACCCGCGTC
CGGAACAGTGAAGGAAATAGCAACAGTGGTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAG
GCTTTGCCAGTGGTGATGGTGATAAGGATGCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGCC
TCTGCCAATCATATGCCAAGAACATGGGCTTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATG
CGGATGAAGCCAAAAGGGTAGAGTCACAGTTGAAGATCTTGATCCGTCCCATGTATTCCAACCCTCCCCTCAATG
GGGCCCGGATTGCTGCTGCCATTCTGAACACCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAAGTCATGG
CTGACCGCATCATTGGCATGCGGACTCAACTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAAC
ACATCACCGACCAAATTGGCATGTTCTGTTTCACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGT
TCTCCATCTACATGACAAAAGATGGCCGCATCTCTGTGGCAGGGGTACCTCCAGCAACGTGGGCTACCTTGCCC
ATGCCATTACCAGGTACCAAGTAATGTCCCTGGTGCAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTG
CTATTGAGAGCTTCACACAGACAATGAGAGAGGGTGGATGGTGGTGAAGTGGATCATTTCTTTCAGCCACAGTGTG
TAACACTCAGCATTTGAATGTTTCTCAGAAAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTC
TGGAATATTAAACCAAACCTCTCCCGGTCCTTTTTTCTCCAACTTTTCTCAAAGAGTTTACATGTGCAAGAAAGT
CATCGCACCAAAAAACCTGTCAATTATGCCATTGCAATATTTTCAAGAGCTTTAACTGAAGTGTGAGGTTCCCTCGT
GAGAAACAGCACACGTTAGAGGCTTTGAGAGAAGGCCTAGTTCTGTTCATGAGTAGTCGGCCTCGTGTCTGTCTC
CCATCTTGGAACAACCTTATCAACAGGCCGCACTGCAGAAATGATGTTTTATGAAAACCAATGAGGCTGCTGCCA
CTCCAGCAAGGGAAATAATGCAGTTTCCTGTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTCATT
GCCGTTCTTTTCTTACACGCAAAGATTTTTTAACTATTGCAGATTTTCATCCCATCTACTGCTTGATTGACCA
TCAACTCCATCCTATCGAGATTTATTTAAGAAATGAAGAACATAATTTCTGCTGATGCTGTACCCTCACCTTTT
CAGCAAAGAATAGTGGAGAGTAGGAACTGTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCA
GTTGGGATGTTGTCTCTGCCCCGTTGGACCTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTG
TGAGTCCAGCGGCGCAGGGTGGTACCAGGAAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTCAGGCT
TCACCCACTGGAAAGAACCACCATCTGCTCTAACCATGTAGACTTATTGCGGCCTGGTTTCTCTGTTACAATAAA
ATTACTGTAGACCC

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FIGURE 4542

MALLHSGRVLPGLIAAAFHPGLAAAASARASSWTHVEMGPPDPILGVTEAFKRDTNSKKMNLGVGAYRDDNGKPY
VLPSVRKAEAQIAAKNLDKEYLP IGG LAEFCKASAE LALGENSEVLKSGRFVTVQTISGTGALRIGASFLQRFFK
FSRDVFLPKPTWGNHTPIFRDAGMQLQGYRYYDPKTCGFDFGTGAVEDISKIPEQSVLLHACAHNPTGVDP RPEQ
WKEIATVVKKRNLF AFFDMAYQGFASGDGDKDAWAVRHFIEQGINVCLCQSYAKNMGLYGERVGAF TMVCKDADE
AKRVESQLKILIRPMYSNPPLNGARIAAAI LNTPD LRKQWLQEVKVMADRI IGMRTQLVSNL KKEGSTHNWQHIT
DQIGMFCFTGLKPEQVERLIKEFSIYMTKDGRISVAGVTSSNVGYLAHAIHQVTK

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FIGURE 4543

ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGAAGACCATCACCCCTCGAGGTT
GAACCCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA
CTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAGGAGTCTACTCTT
CATCTTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC
ACAAGAGAAAAGAAGGTTAAGCTGGCTGTCTGAAATACTATAAGGTGGATGAGAATGGCTTTATGGCAAGCCACT
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAACTGTATGAGT
TAATAAA

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FIGURE 4544

ATGGCGGACCTTGATTGCGCTCCGAAGCTGTCAGGGGTGCAGCAGCCGTCTGAGGGGGTGGGAGGTGGCCGCTGC
TCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTCTGC
GGCGAGGAGAAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAACAGCAAAACACCATTGAAAAGTAAGATGGTC
ACTCTCCACCGAATGGGTCCTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACCTTT
ACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAAGTTCTGTCAGCTTGACCTGGCCAAGAACCGCCTCTATCAGGCC
ATTGAGAGAGCTGATGACATCTTGACCTGAAGTTCTGTCATGGATGGAGTTGAGACTGCTTTGAGGAGTGAAGAT
TATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCCTGGACAAGTCGGTCATTGAGCTCAGCCGACAGGGC
AAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTGGCA
GAGAAGTTTGCCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCACTGCTG
GGTTTGCATGAGGAGGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAGAAT
CTGCTCATGGTGTCTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGCAGATACACTTACTCTTCTG
TTTGAAGGGATTGCCCCGATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTCTAT
ACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTCATCAAGCAAAGG
GACTACCACCAGCAGTTCCGGCATGTTCAGAACAACCTGATGAGAAATTCTACAACAGAAAAATCGAACCAAGA
GAACTGGACCCCATCCTGACTGAGGTACCCCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCCTCAAGAAG
AGGATTAGCTCTGATTTTGAGGTGGGAGACTCCATGGCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGTCTG
GACAAACTCCTCAATAACTGCCTTTTGAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAGGAG
TACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGCATG
GTGGATGATGCTTCTACATTGTTAAGAAGTGCAATTGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTCTGT
GCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATGGGC
TTTCCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTCCAG
CAAGGCAAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCCTGGGACATATTCTGAGT
CACCTGAGCCACGATAGAGGCTGGGCTGTCCAGCTGTACCTAGAATTCATTCCCAGAGCACTGGCCAGCTGCT
CAGGAGCCCACTGAGTGCCAAGCTTGGCTTGATCTGCCACAGAACCAGCTCTACCATCTGTGCCAGACCACCAG
ACTGCTTCTCTGAGGAGAGGGCCGCGAGCATGGGCAGGCGCCAGTCCTTCGGGCCTGCCATCACTGCTCTGCTAGT
ACATGTCTTAGGCTTTCAACTTCCTCTGGAAAGGAGGCTTTATTAAAGCCCTTTGCTACCCAGAATGACAGATGT
GATAAAGCAGCAAGCCTTCCATTGTGTGACAGCTTGGAAGGAGGAGCACAGAAGGATGA

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FIGURE 4545

GGCACGAGGCAGCGTCAGCTGACCTGGGGAGTCGCGATTTCGTGCCGGCCGGTCCCTGGTTCTCCGGTCCCGCCGCT
CCCGCAGCAGCC**ATG**TCGTTCTTCCCGGAGCTTTACTTTAACGTGGACAATGGCTACTTGGAGGGACTGGTGCGC
GGCCTGAAGGCCGGGGTGCTCAGCCAGGCCGACTACCTCAACCTGGTGAGTGCGAGACGCTAGAGGACTTGAAA
CTGCATCTGCAGAGCACTGATTATGGTAACCTTCCTGGCCAACGAGGCATCACCTCTGACGGTGTCAGTCATCGAT
GACCGGCTCAAGGAGAAGATGGTGGTGGAGTTCCGCCACATGAGGAACCATGCCTATGAGCCACTCGCCAGCTTC
CTAGACTTCATTACTTACAGTTACATGATCGACAACGTGATCCTGCTCATCACAGGCACGCTGCACCAGCGCTCC
ATCGCTGAGCTCGTGCCCAAGTGCCACCCACTAGGCAGCTTCGAGCAGATGGAGGCCGTGAACATTGCTCAGACA
CCTGCTGAGCTCTACAATGCCATTCTGGTGGACACGCCTCTTGCGGCTTTTTTCCAGGACTGCATTTTCAGAGCAG
GACCTTGACGAGATGAACATCGAGATCATCCGCAACACCCTCTACAAGGCCTACCTGGAGTCCTTCTACAAGTTC
TGCACCCTACTGGGCGGGACTACGGCTGATGCCATGTGCCCCATCCTGGAGTTTGAAGCAGACCGCCGCGCCTTC
ATCATCACCATCAATTCTTTCCGACAGAGCTGTCCAAAGAGGACCGTGCCAAGCTCTTTCCACACTGTGGGCGG
CTCTACCCTGAGGGCCTGGCGCAGCTGGCTCGGGCTGACGACTATGAACAGGTCAAGAACGTGGCCGATTACTAC
CCGGAGTACAAGCTGCTCTTCGAGGGTGCAGGTAGCAACCCTGGAGACAAGACGCTGGAGGACCGATTCTTTGAG
CACGAGGTAAAGCTGAACAAGTTGGCCTTCCTGAACCAGTTCCACTTTGGTGTCTTCTATGCCTTCGTGAAGCTC
AAGGAGCAGGAGTGTGCAACATCGTGTGGATCGCTGAATGTATCGCCCAGCGCCACCGCGCCAAAATCGACAAC
TACATCCCTATCTTCT**TAG**CGTCCTGGCCCAAGGCTCTCAATTGCACTCTTTGTGTGTGTGTGTGTGTGTGTGCGC
GTGTGTGTGCGTGTGTGTGTATGTGGTCTGTGACAAGCCTGTGGCTCACCTGCCTGTCCGGGGTGTAGTACGCTG
TCCTAGCGGCTGCCCAGTTCTCCTGACCCTCTTAGAGACTGTTCTTAGGCCTGAAAAGGGGCTGGGCACCCCCC
CCACCAAGGATGGACGAAGACCCCTCCAGAGCAAGGAGGCCCCCTCAGCCCTGTGGTTACAGCCGCTGATGTAT
CTAAGAAGCATGTCACTTTTCATGTTCCCTAACTCCCTGACCTGAGAACCCTGGGGCCTGGGGGCAGTTTGAG
CCTCCTCTCCCTTCTGTGGGTCGCTCCCAGAGCCATGGCCCATGGGAAGGACAGAGTGTGTGTGTCTTGGGGCC
TGGGGGGATGTTGCTCCTCAGCTCCCTCCCTCAGCCCTGCCCCCTGTGAGACAATAAACTGCCCTCTCTAAGGCA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4546

MSFFPELYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGNFLANEASPLTVSVIDDRLK
EKMVVEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITGTLHQRSIAELVPKCHPLGSFEQMEAVNIAQTPAEL
YNAILVDTPLAFFQDCISEQDLDEMNIIEIRNTLYKAYLESFYKFCTLLGGTTADAMCPILFEADRRAFIITI
NSFGTELSKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTLED RFFEHEVK
LNKLAF LNQFHF GVFYAFVKLKEQE CRNIVWIAECIAQRHRAKIDNYIPIF

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FIGURE 4547

CGCGCCCCAGGCCGGTGTACCCCCGCACTCCGCGCCCCGGCCTAGAAGCTCTCTCTCCCCGCTCCCCGGCCCCGGC
CCCCGCCCCGCCCCGCCCCAGCCGCTGGGCGGCC**ATG**GAGCGCTGGCCTTGGCCGTCGGGCGGCGCCTGGCTGC
TCGTGGCTGCCCCGCGCTGCTGCAGCTGCTGCGCTCAGACCTGCGTCTGGGCCGCCCCGCTGCTGGCGGCGCTGG
CGCTGCTGGCCGCGCTCGACTGGCTGTGCCAGCGCCTGCTGCCCCCGCCGGCCGCACTCGCCGTGCTGGCCGCCG
CCGGCTGGATCGCGTTGTCCCGCCTGGCGCGCCCCGAGCGCCTGCCGGTGGCCACTCGCGCGGGTGTCTATCACC
GCTGTGACTCTGGTTTTGGCAAGGAGACGGCCAAGAACTGGACTCCATGGGCTTCACGGTGTGCTGGCCACCGTAT
TGGAGTTGAACAGCCCCGGTGCCATCGAGCTGCGTACCTGCTGCTCCCCTCGCCTAAGGCTGCTGCAGATGGACC
TGACCAAAACCAGGAGACATTAGCCGCTTGCTAGAGTTCACCAAGGCCACACCACCAGCACCCGGCCTGTGGGGCC
TCGTCAACAACGCAGGCCACAATGAAGTAGTTGCTGATGCGGAGCTGTCTCCAGTGGCCACTTTCCGTAGCTGCA
TGGAGGTGAATTTCTTTGGCGCTCGAGCTGACCAAGGGCCTCCTGCCCTGCTGCGCAGCTCAAGGGGCCGCA
TCGTGACTGTGGGGAGCCCAGCGGGGGACATGCCATATCCGTGCTTGGGGGCCTATGGAACCTCCAAAGCGGCCG
TGGCGCTACTCATGGACACATTAGCTGTGAACTCCTTCCCTGGGGGTCAAGGTCAGCATCATCCAGCCTGGCT
GCTTCAAGACAGAGTCAGTGAGAAACGTGGGTGAGTGGGAAAAGCGCAAGCAATTGCTGCTGGCCAACCTGCCTC
AAGAGCTGCTGCAGGCCTACGGCAAGGACTACATCGAGCACTTGCTGAGGCGAGTTTCTGCACTCGCTACGCCTGG
CCATGTCCGACCTCACCCAGTTGTAGATGCCATCACAGATGCGCTGCTGGCAGCTCGGCCCCGCCGCCGCTATT
ACCCCGGCCAGGGCCTGGGGCTCATGTACTTCATCCACTACTACCTGCCTGAAGGCCTGCGGCGCCGCTTCTGTC
AGGCCTTCTTCATCAGTCACTGTCTGCCTCGAGCACTGCAGCCTGGCCAGCCTGGCACTACCCACACAGGACG
CAGCCCAGGACCCAAACCTGAGCCCCGGCCCTTCCCCAGCAGTGGCTCGGT**TGAG**CCATGTGCACCTATGGCCCAG
CCACTGCAGCACAGGAGGCTCCGTGAGCCTTGGTTCTTCCCCGAAAACCCCCAGCATTACGATCCCCCAAGTGTC
CTGGACCTTGGCCTAAAGAATCCACCCCCACTTCATGCCCACTGCCGATGCCCAATCCAGGCCCGGTGAGGCCA
AGGTTTCCCAGTGAGCCTCTGCGCCTCTCCACTGTTTCATGAGCCCCAACACCCTCCTGGCACAAACGCTCTACCC
TGCAGCTTGGAGAACTCCGCTGGATGGGAGTCTCATGCAAGACTTCACTGCAGCCTTTACAGGACTCTGCAGAT
AGTGCTCTGCAAACCTAAGGAGTGACTAGGTGGGTGGGGACCCCTCAGGATTGTTTCTCGGCACCAGTGCTC
AGTGCTGCAATTGAGGGCTAAATCCCAAGTGCTCTTGGACTGGCTCAAGAATTAGGGCCCCAACTACACACCCCC
AAGCCACAGGGAAGCATGTACTGTACTTCCCAATTGCCACATTTTAAATAAGACAAATTTTTATTCTTCTA

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FIGURE 4548

MERWFWPSGGAWLLVAARALLQLLRSDLRLGRPLLAALALLAALDWLCQRLLPPPAALAVLAAAGWIALSRLARP
QRLPVATRAVLITGCDSGFGKETAKKLDSMGFTVLA TVLELN SPGAIELRTCCSPRLRLQLMDLTKPGDISRLLE
FTKAHTTSTGLWGLVNNAGHNEVVADAELSPVATFRSCMEVNFFGALELTKGLLP LLRSSRGRIVTVGSPAGDMP
YPCLGAYGTSKAAVALLMDTFSCCELLPWGVKVSIIQPGCFKTESVRNVGQWEK RKQLLLANLPQELLQAYGKDYI
EHLHGQFLHSLRLAMSDLTPVVDAITDALLAARPRRRYYPGQGLGLMYFIHYLPEGLRRRFLQAFFISHCLPRA
LQPGQP GTTP PQDAAQDPNLSPGPSPAVAR

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FIGURE 4549A

AGTGGCGTCTCGGAAGTCAAAGCACCTGTGAGCTTGCGGAAGTCAGTTCAGACTCCAGCCCGCTCCAGCCCGGCC
GACCCGACCGCACCCGGCGCCTGCCCTCGCTCGGCGTCCCCGGCCAGCC**ATG**GGCCCTTGGAGCCGCGAGCCTCTC
GGCGCTGCTGCTGCTGCTGCAGGTCTCCTCTTGCTCTGCCAGGAGCCGGAGCCCTGCCACCCCTGGCTTTGACGC
CGAGAGCTACACGTTACGGTGCCCCGGCGCCACCTGGAGAGAGGCCGCGTCTGGGCAGAGTGAATTTTGAAGA
TTGCACCGGTGACAAAGGACAGCCTATTTTTCCCTCGACACCCGATTCAAAGTGGGCACAGATGGTGTGATTAC
AGTCAAAAAGCCTCTACGGTTTCATAACCCACAGATCCATTTCTTGCTCTACGCCTGGGACTCCACCTACAGAAA
GTTTTCCACCAAAGTCACGCTGAATACAGTGGGGCACCACCACCGCCCCCGCCCCATCAGGCCTCCGTTTCTGG
AATCCAAGCAGAATTGCTCACATTTCCCAACTCCTCTCCTGGCCTCAGAAGACAGAAGAGAGACTGGGTATTCC
TCCCATCAGCTGCCAGAAAATGAAAAAGGCCCATTTCTTAAAAACCTGGTTCAGATCAAATCCAACAAAGACAA
AGAAGGCAAGGTTTTCTACAGCATCACTGGCCAAGGAGCTGACACACCCCTGTTGGTGTCTTTATTATTGAAAG
AGAAACAGGATGGCTGAAGGTGACAGAGCCTCTGGATAGAGAACGCATTGCCACATACACTCTCTCTCACGC
TGTGTATCCAACGGGAATGCAGTTGAGGATCCAATGGAGATTTTGATCACGGTAACCGATCAGAATGACAACAA
GCCCCAATTCACCCAGGAGGTCTTTAAGGGGTCTGTATGGAAGGTGCTCTTCCAGGAACCTCTGTGATGGAGGT
CACAGCCACAGACGCGGACGATGATGTGAACACCTACAATGCCGCCATCGCTTACACCATCCTCAGCCAAGATCC
TGAGCTCCCTGACAAAAATATGTTTACCATTAAACAGGAACACAGGAGTCATCAGTGTGGTCAACCTGGGCTGGA
CCGAGAGAGTTTCCCTACGTATACCCTGGTGGTTCAAGCTGCTGACCTTCAAGGTGAGGGGTTAAGCACAAACAGC
AACAGCTGTGATCACAGTCACTGACACCAACGATAATCCTCCGATCTTCAATCCCACCACGTACAAGGGTCAGGT
GCCTGAGAACGAGGCTAACGTCGTAATCACCACTGAAAGTGACTGATGTGATGCCCCCAATACCCAGCGTG
GGAGGCTGTATACCATATTGAATGATGATGGTGGACAATTTGTCGTCACCACAAATCCAGTGAACAACGATGG
CATTTTGA AACAGCAAAGGGCTTGGATTTTGAAGGCAAGCAGCAGTACATTCTACACGTAGCAGTGACGAATGT
GGTACCTTTTGAAGGTCTCTCTCACCACTCCACAGCCACCGTCACCGTGGATGTGCTGGATGTGAATGAAGCCCC
CATCTTTGTGCTCCTGAAAAGAGAGTGGAAGTGTCCGAGGACTTTGGCGTGGGCCAGGAAATCACATCCTACAC
TGCCAGGAGCCAGACACATTTATGGAACAGAAAATAACATATCGGATTTGGAGAGACACTGCCAACTGGCTGGA
GATTAATCCGGACACTGGTGCCATTTCCACTCGGGCTGAGCTGGACAGGGAGGATTTTGAACAGTGAAGAACAG
CACGTACACAGCCCTAATCATAGCTACAGACAATGGTTCTCCAGTTGCTACTGGAACAGGGACACTTCTGCTGAT
CCTGTCTGATGTGAATGACAACGCCCCCATACCAGAACCTCGAACTATATTCTTCTGTGAGAGGAATCCAAAGCC
TCAGGTCAATAACATCATTGATGCAGACCTTCTCCCAATACATCTCCCTTACAGCAGAACTAACACACGGGGC
GAGTGCCAACCTGGACCATTCAGTACAACGACCCAACCCAAGAATCTATCATTTTGAAGCCAAAGATGGCCTTAGA
GGTGGGTGACTACAAAATCAATCTCAAGCTCATGGATAACCAGAAATAAGACCAAGTGACCACCTTAGAGGTGAG
CGTGTGTGACTGTGAAGGGGCGCGCGCGTCTGTAGGAAGGCACAGCCTGTGGAAGCAGGATTGCAAATTCCTGC
CATTTCTGGGGATTCTTGAGGAATTCTTGCTTTGCTAATTCTGATTCTGCTGCTCTTGCTGTTTCTTCGGAGGAG
AGCGGTGGTCAAAGAGCCCTTACTGCCCCAGAGGATGACACCCGGGACAACGTTTATTACTATGATGAAGAAGG
AGGCGGAGAAGAGGACCAGGACTTTGACTTGAGCCAGCTGCACAGGGGCTGGACGCTCGGCCTGAAGTGACTCG
TAACGACGTTGCACCAACCCCTCATGAGTGTCCCCGGTATCTTCCCCGCCCTGCCAATCCCGATGAAATTGGAAA
TTTTATTGATGAAAATCTGAAAGCGGCTGATACTGACCCACAGCCCCGCCCTATGATTCTCTGCTCGTGTGTA
CTATGAAGGAAGCGGTTCCGAAGCTGCTAGTCTGAGCTCCCTGAACTCCTCAGAGTCAGACAAAGACCAGGACTA
TGACTACTTGAACGAATGGGGCAATCGCTTCAAGAAGCTGGCTGACATGTACGGAGGCGGCGAGGACGACT**TAGGG**
GACTCGAGAGAGGCGGGCCCCAGACCCATGTGCTGGGAAATGCAGAAATCACGTTGCTGGTGGTTTTTCAGCTCC
CTTCCCTTGAGATGAGTTTCTGGGGAAAAAAAAGAGACTGGTTAGTGATGCAGTTAGTATAGCTTTATACTCTCT
CCACTTTATAGCTCTAATAAGTTTGTGTTAGAAAAGTTTCGACTTATTTCTTAAAGCTTTTTTTTTTTTCCCATC
ACTCTTTACATGGTGGTGTGATGTCCAAAAGATACCCAAATTTTAATATTCCAGAAGAACAACCTTTAGCATCAGAAG
GTTACCCAGCACCTTGACAGATTTTCTTAAGGAATTTTGTCTCACTTTTAAAAAGAAGGGGAGAAGTCAGCTACT
CTAGTTCTGTTGTTTTGTGTATATAATTTTTTAAAAAAATTTGTGTGCTTCTGCTCATTACTACACTGGTGTGT
CCCTCTGCCTTTTTTTTTTTTTTTTAAAGACAGGGTCTCATTCTATCGGCCAGGCTGGAGTGAGTGGTGCATCAC
AGTCACTGCAGCCTTGTCTCCAGGCTCAAGCTATCCTTGCACCTCAGCCTCCCAAGTAGCTGGGACCACAGG
CATGCACCACTACGCATGACTAATTTTTTAAATATTTGAGACGGGGTCTCCCTGTGTTACCCAGGCTGGTCTCAA
ACTCCTGGGCTCAAGTGATCCTCCCATCTTGGCCTCCAGAGTATTGGGATTACAGACATGAGCCACTGCACCTG
CCCAGCTCCCCAACTCCCTGCCATTTTTTAAAGAGACAGTTTCGCTCCATCGCCAGGCCTGGGATGCAGTGATGT

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FIGURE 4549B

GATCATAGCTCACTGTAACCTCAAACCTCTGGGGCTCAAGCAGTTCTCCCACCAGCCTCCTTTTTATTTTTTTGTA
CAGATGGGGTCTTGCTATGTTGCCCAAGCTGGTCTTAAACTCCTGGCCTCAAGCAATCCTTCTGCCTTGGCCCC
CAAAGTGCTGGGATTGTGGGCATGAGCTGCTGTGCCAGCCTCCATGTTTTAATATCAACTCTCACTCCTGAATT
CAGTTGCTTTGCCCAAGATAGGAGTTCTCTGATGCAGAAATTATTGGGCTCTTTTAGGGTAAGAAGTTTGTGTCT
TTGTCTGGCCACATCTTGACTAGGTATTGTCTACTCTGAAGACCTTTAATGGCTTCCCTCTTTCATCTCCTGAGT
ATGTAACCTTGCAATGGGCAGCTATCCAGTGACTTGTTCTGAGTAAGTGTGTTTCATTAATGTTTATTTAGCTCTGA
AGCAAGAGTGATATACTCCAGGACTTAGAATAGTGCCTAAAGTGCTGCAGCCAAAGACAGAGCGGAACCTATGAAA
AGTGGGCTTGAGATGGCAGGAGAGCTTGTCAATTGAGCCTGGCAATTTAGCAAACCTGATGCTGAGGATGATTGAG
GTGGGTCTACCTCATCTCTGAAAATTCTGGAAGGAATGGAGGAGTCTCAACATGTGTTTCTGACACAAGATCCGT
GGTTTGTACTCAAAGCCCAGAATCCCCAAGTGCCTGCTTTTGATGATGTCTACAGAAAATGCTGGCTGAGCTGAA
CACATTTGCCAATTCCAGGTGTGCACAGAAAACCGAGAATATTCAAAATTCAAATTTTTTCTTAGGAGCAAGA
AGAAAATGTGGCCCTAAAGGGGGTTAGTTGAGGGGTAGGGGGTAGTGAGGATCTTGATTGGATCTCTTTTTATT
TAAATGTGAATTTCAACTTTTGACAATCAAAGAAAAGACTTTTGTTGAAATAGCTTTACTGTTTCTCAAGTGTTT
TGGAGAAAAAATCAACCCTGCAATCACTTTTTGGAATTGTCTTGATTTTTCGGCAGTTCAAGCTATATCGAATA
TAGTTCTGTGTAGAGAATGTCACTGTAGTTTTGAGTGTATACATGTGTGGGTGCTGATAATTGTGTATTTCTTT
GGGGGTGAAAAGGAAAACAATTCAAGCTGAGAAAAGTATTCTCAAAGATGCATTTTTATAAATTTATTAAACA
ATTTTGTTAAACCATAAAAAAAAAAAAAA

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FIGURE 4550

MGPWSRSLSALLLLLQVSSWLCQEPEPCHPGFDAESYFTVPRRHLEGRVLGRVNFEDCTGRQRTAYFSLDTRF
KVGTDGVITVKRPLRFHNPQIHFLVYAWDSTYRKFKSTKVTLNTVGHHRPPPHQASVSGIQAELLTFPNSSPGLR
RQKRDWVIPPISCPENEKGPFKPNLVQIKSNKDKEGKVFYSITGQGADTPPVGVFIIERETGWLKVTEPLDRERI
ATYTLFSAVSSNGNAVEDPMEILITVTDQNDNKPEFTQEVFKGSVMEGALPGTSVMEVTATDADDDVNTYNAAI
AYTILSQDPELPDKNMFTINRNTGVISVVTGLDRESFPTYTLVVQAADLQGEGSLTTATAVITVTDNDNPPIF
NPPTYKGQVPENEANVVITTLKVTADAPNTPAWEAVYTIILNDGGQFVVTNPNVNDGILKTAKGLDFEAKQQY
ILHVAVTNVVPFEVSLTTSTATVTVDVLDVNEAPIFVPPEKRVESDFGVGQEITSYTAQEPDTFMEQKITYRI
WRDTANWLEINPDTGAISTRAELDREDFEHVKNSTYTALI IATDNGSPVATGTGTLILLILSDVNDNAPIPEPRTI
FFCERNPKPQVINIIDADLPPNTSPFTAELTHGASANWTIQYNDPTQESIILKPKMALEVGDYKINLKLMDNQNK
DQVTTLVSVCDCEGAAGVCRKAQPVEAGLQIPAILGILGGILALLILILLLLLFLLLLRAVVKEPLLPEDDTRD
NVYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPRYLPRPANPDEIGNFIDENLKAADTDPTAP
PYDSLIVFDYEGSGSEAASLSSLNSSESDDKDQDYDYLNEWGNRFKKLADMYGGGEDD

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FIGURE 4551

AGTGCTCGCGGCGGCGGCGACGGCGGCGGGAGGTTTCGGTTGTGCGCCGTTGGCCGCGCGGCGCCGCGCTCGGCGG
CCGCCATTGCAGGGAATCCCTGTGCTGATCGTGGGGCATCATATCCTGTATGGGAAAATCATCCACCTGGAGAAA
CCTTTTGCAGTTCCTTGTCAAACACACTCCTGGGGATCAGGACTGTGATGAGCTTGGCCGCGAGACTGGCACCCGG
TACCTGGTGACAGCACTCATCAAAGACAAGATCCTTTTCAAACCCGCCCAAGCCCATTATCACCAGCGTCCCC
AAGAAAGTATGAAGAACCTCGGATTTTCCCTAGAGAGCGGCCAACTCCTTGGACTCGTGCTCCGCTGCCACCTC
GAGGACGGCTCGACGGTTCCCTGGGACCACAGGGGGTCTCTGTTCTGAACACAGGCCACCCACTGGGTGTGAAC
CGGATCCCTTCCTTATGGCGGCCGGTTCTCTTGGTGGAATCTGACCCCATTTCCAAGGAACCCATCTCCTTTTC
CAGCTTCATCAGGCTCATTGGCTTCAAATCCAGCACCTTTCCCGGCTGGTGCTCGTGACCCAAGTATGGCTTCTT
TTCCAAGAGGGATGAATCCCCTGGCACAGGTGCAGTTTCTTTCCAAGGCCTGGTGCCCTCTTGGGGCCAGGCC
CAGGCCCAGGCCCCACCCTAAACCCTAGGACAGGGGCTCTGCCAGGCCCAGGGCCTCTGTCTAACCCAGGTTAG
GGGGTCTCCCAGGACCAGGTCTATGTCCAACCCAAGGGCAGGTGGTCTCCTGGGAGCAGGTCTGACCCAGAG
GTGGTGGTCCCATGGGCCCTGGATCTGGACCTAACCTGAGAGCCGGTGTCTGTTAACCTCTGGGAATGGTCTCT
CCAATCCTAGGCCAGTTGGCCTGGGCCCAGGACCAACCCCAATCTGAGATCAGGCTTTTTAGGGACAAACCCTG
CCCCCAGGTGAGGTGTGTTTCCAGGCCCAGGCCTTGGGCCCAACCCAAGACCAAGTGGCCTGGGCCCAGGCCCTA
ATCTAGATGCCAGAGCAGGTGGCCTCTTGGGCACAGGATCTGGTCTTAACCTAAGAATGGCTGGACCTCAAGGCC
TCGATCTTGCCCCCATTTCTAAGAGCAGCAGGTCTTTTAGGAGCAAATTCAGCTTCTTTCTCACAGGCTTCTGGAA
ACATGGGCACAAGCCCATCTCCATGGCAAGAGTACCTGGCCCCATGGGCCCAAACCTCGGGTCTCTAGCTCTCGGG
GAATTGGCCTTCCAGGGCCAAATCCATCTCCCATGTCAAGGGCTCCTGGCCCCATAGGCCCTAATTCAGCTCATT
TCTCAAGGCCAGTTGGCCCCATGGGGGTAAATGCCAATCCCTTTCCAGGGGAGCAGGTTCATCTGCCTTTTCTC
AGTCTTCTGGCACATTGGCATCAAACCCAGCTACCTTCAAAGGTCCGCTGGCCTCCAGGGCTCAAATCCAACCA
TTTTCCAAGAGCCTCTGGGCCACTTGGGCCCAACCCAGCTAACTTCCAAGGGCCACTGGCCTGCAGGGTCCAA
GTCCAACCTACCTTCCAAGGTCTACTGGCCCATTAGGCCCTGGTCAAGTTACTTTCCCCAGGCCAGCTGCCGGGC
ATCTGGGCCCTTCTCCAGCTGGCCCTGTGGGTATCAACCCAGCTCCTTTTACAAGGCCAACTGGGACCCTGGGTC
TCAACCCAGCTTCTTTTCCAAGGATGAATGGCCCTGCAGGCAAGAGTTTCGTCCCATTTCTTAGAGTGGGGAGCC
TCCCTGGCACAAACCCAGCTGCTTTCCCCAGACCAGGGGGTCCAATGGCTGCAATGTACCCAAATGGAATGTTGC
CCCCTTAAACACCATTTTCCCTCCAGGACCACCTTGGTTTCTAGGCACTGTGGTTCTTGGCAGGGGCTGTCTTAG
GTAAAGGGTAGTTGTGGAGCTACAGTCTGAAGAACATAGCTTGGGCTCAAGTTCAAATGAGCCATCTTTTTCT
TTGCGTTTTTCTTGAAGGTGAGATGTTATTTGTGGCATGTGAACTGTGGCAGGTGGGAATAATCCTGCCCT
TGAGAGAAAGGATCTCCAGCCTCCAGAAGCCTGCTGTGCTTTCGTCCACAGCTTTCTGCCATTGTTTCTTAC
TAGTTTCTTGAATTGTTCTTGTGGACTTTTCTCAGGGATACATTGGCCTGCAGGTCCAGTTCAATGTAGTCC
CCTGCTCACCATTGGAGAATCAGCTCACTGCTCTCTAGAAACGTGGCGTTGGTGAACGGACCATGCTTCCGTAGC
TCTGACCTGGGCAGCTTGGACCTGGTCATCTCTACTGCCATACCTTTCCCTGGGGGCTTGAACACAGAACAGGG
AGATGGACAACCACTTCAAAGAAAGACCCACCGAATGCAGTTTCTGCTTGACTGACTGGGCCTGCAGCTCCCTTC
TCCTGGGACTTAGAGGTGGCCAGATTTAAGGCCCTCTACTCATCCAACCTCCCTCTTCACTGGTACTCCCAATCA
ATCAAAGAACCTCAAAATTTAAACTGATGTGGATGGGAATATGGGAATTAGGGTGGGGGTGGGGATGAAGGGAA
GAAATCACTGTGCTTTGTTTCGGCCTGGTGTGCAAGGATGGTTGGTGGTTTTCTGCATTGTATCTTTTCTTACTG
TTTCTTTAATAAATGGGATGAGAGGGC

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FIGURE 4552

MKEPRIFPRERPTPWTRAPLPFRGRLDGSLGPQGGFVLNTGHPLGVNSDPFLMAAGSLGGNLTFFPRNPSPFPAS
SGSLASNPAPFPAGARDPSMASFPRGMNPTGTGAVSFPRPGLLGPGPGPGPTLNPRTGALPGPGPLSNPRLGGL
PGPGMSNPAGGLLGAGPDPRGGGPMGPGSGPNLRAGVLLTSGNGPPNPRPVGLGPGPNPNLRSGFLGTNPAPR
SGVFFPGPLGPNPRPSGLGPGPNLDARAGLLGTGSGLNLRMAGPQGLDLAPILRAAGLLGANSASFQASGNMG
TSPSSMARVEGPMGPNSGPSSRGIGLPGPNPSPMSRAPGPIGPNSAHFSRPVGPMGVNANPFPRGAGSSAFSQSS
GTLASNPATFQRSAGLQGSNPTIFPRASGPLGPNPANFPRATGLQGPSTTFPRSTGPLGPGQVTFPRPAAGHLG
PSPAGPVGINPAPFTRPTGTGLGNPASFFPRMNGPAGKSFVPFPRVGSLLPGTNPAAFPRPGGPMAAMYFNGMLPP

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FIGURE 4553

CTCAGTTAGCGGTGGAGAGGCAGTATGTCCGGTTCA**ATG**GCGACTGCGGAAGCTAGCGGCAGCGATGGGAAAGGG
CAGGAAGTCGAGACCTCAGTCACCTATTACCGGTTGGAGGAGGTGGCAAAGCGCAACTCCTTGAAGGAACTGTGG
CTTGTGATCCATGGGCGAGTCTACGATGTCACCCGCTTCCTCAACGAGCACCCCTGGAGGAGAAGAGGTTCTGCTG
GAACAAGCTGGTGTAGATGCAAGTGAAAGCTTTGAAGATGTAGGACACTCTTCTGATGCCAGAGAAATGCTAAAG
CAGTACTACATTGGTGATATCCATCCGAGTGACCTTAAACCTGAAAGTGGTAGCAAGGACCCCTTCAAAAAATGAT
ACATGCAAAAAGTTGCTGGGCATATTGGATTTTACCCATCATAGGCGCTGTTCTCTTAGGTTTCTGTACCGCTAC
TACACATCGGAAAGCAAATCCTCC**TGAG**GAGGCCTTGCTGAAGTTAGAAAGTGCATCCACTTTGGGGCGAAAAGT
AGAGACTTGCTTGGGGGCTGCAGAAGTGCCCTCTCCTCGAATCCTGCCAGTTGCATTCTTCCCCCTTGGAGCCAA
GACGATTGGCCAGACATCACCTCAGATCTGAGACCAGCGTCTTCCATCTCTCAGAGCCTTACTCCCAAAGTACCT
GCTCACTGTTCCGTGTTGAACAATTGCCGGTGTTCCTCTCTTCACTGGTTTCCATGAGTACCCCTTATATTTTAC
AACTTTCTGTTTCATAAGTTATAGTGACATTGCTCTTTGGTAAAAATGCCTGCTTTCCAATACTTTGATTGCATAT
TAGACATTCTTAACAGGGCGGCAGTCTAGTGTTGAAAGTTTTATTTTTCCATTTTTCTTTTAAGTAAATTTTTTT
TAAAAAATTCTGATTTAGGGCTAGGTGTGGTGGCTCAGGCCTGTAATCCTGGCACCTTTGGGAGGCCAAGGTGGGA
ACATCGCTTGAGGCCAAGAGTTCAAGACCAGCCTGGGCAACATAGCGAGACCCCTATCTGTATTAAAAAAAATC
TGATTTAATTCTTTTATTTATCATAAGGGGTTTAATTCTTGAAGTAAAGGTTTGCACCTATTAAACTTAAAACTG
CCAAATGATTTTTGTTCTTTTATGTGCGTGATAAAAAATACAAAGAATGGTGTGGCCACCTCCTCCCTTTCAAGCT
AGGGCAGCAGGTAGCTCTTCCCAGCCCCTGAGCCCAGCCCCTTCCCAAGTGGTGCCGGACAAAAAACTACATGGC
CCTTTCGTGTCTTGGGGGTGGAAAGGGAGGGATGAATTGGGGTGATAGAACCCTGGTGAATTCAGAGTAATCTTT
CTTTAGAAAAGTGGTGTTCCTAAAGAAACAGGATAGGAGTTTAGAGAAGGCACCAAAGCTTTTCACTTTGGTTTG
GCACCAGTTTCTAACCATCTGTTTTTTCTACCCTAGCTATCTTTTATTGGTAAAATATAAATGTATAATTATGTT
TGTAAGAGCTTTACCAAGGAGTTTCCCTCCTTTTTTTGTTTGTTGATTAGCAAATTTTTGATTCTCCATTTTCCAA
AAGTAAGAGACTCCAGCATGGCCTTCTGTTTGCCCCGAGTAAAGTAACCTCCATATAAAATGGTATTTGAAAGT
GAGAGTTTATGACAACAGACCGTTTTCCATTTTATCTGTATTTTATCTCCGTGACTCCAACCTTGTGGGTTTGTTC
TGTTTTTCCATGAGAATAAAATACTGGCGGTTTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 4554

MATAEASGSDGKGQEVETSVTYRLEEVAKRNSLKELWLVIHGRVYDVTRFLNEHPGGEEVLLEQAGVDASESFE
DVGHSSDAREMLKQYYIGDIHPSDLKPESGSKDPSKNDTCKSCWAYWILPIIGAVLLGFLYRYYTSESKSS

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FIGURE 4555

CACACACCCCTACAATCCCCTCCCCAGCCCCGAGAGACTTTTCTTGACTTCCACCAGTTGCTCCGGCGGGTGAG
AGTGGAGAGGGCCCCTCCTTCATCCCCCAGGCTCCCTCCCTTCCTGGAGCTGCAGCCTCAGCATCCTCCGCCCAGC
ACCCAGGATTTCAGGCGTTGGGTCCCGCCCTTGTAGGCTGTCCACCTCAAACGGGCGGGACAGGATATATAAGAG
AGAATGCACCGTGCACTACACACGCGACTCCCAACAAGGTTGCAGCCGGAGCCGCCCAGCTCACCGAGAGCCTAGT
TCCGGCCAGGGTCGCCCCGGCAACCACGAGCCCAGCCAATCAGCGCCCCGGACTGCACCAGAGCCATGGTCGGCA
GAAGAGCACTGATCGTACTGGCTCACTCAGAGAGGACGTCCTTCAACTATGCCATGAAGGAGGCTGCTGCAGCGG
CTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACCTCTATGCCATGAACTTCAATCCCATCATTTCAGAA
AGGACATCACAGGTAAACTGAAGGACCCTGCGAATTTTCAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAG
GCCATCTGAGCCCAGATATTGTGGCTGAACAAAAGAAGCTGGAAGCCGAGACCTTGTGATATTCCAGAGTAAGA
AGGCAGTGCTTTCCATCACCCTGGTGGCAGTGGCTCCATGTACTCTCTGCAAGGGATCCACGGGGACATGAATG
TCATTCTCTGGCCAATTCAGAGTGGCATTCTGCATTTCTGTGGCTTCCAAGTCTTAGAACCTCAACTGACATATA
GCATTGGGCACACTCCAGCAGACGCCCGAATTCAAATCCTGGAAGGATGGAAGAAACGCCTGGAGAATATTTGGG
ATGAGACACCACTGTATTTTGCTCCAAGCAGCCTCTTTGACCTAAACTTCCAGGCAGGATTCTTAATGAAAAAAG
AGGTACAGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGGCCATCACTTGGGCAAGTCCATCCCAACTG
ACAACCAGATCAAAGCTAGAAAATGAGATTCCCTTAGCCTGGATTTCCCTTCTAACATGTTATCAAATCTGGGTATC
TTTCCAGGCTTCCCTGACTTGCTTTAGTTTTTAAGATTTGTGTTTTTCTTTTTCCACAAGGAATAAATGAGAGGG
AATCGACTGTATTCGTGCATTTTTGGATCATTTTTAACTGATTCTTATGATTACTATCATGGCATATAACCAAAA
TCCGACTGGGCTCAAGAGGCCACTTAGGGAAAGATGTAGAAAGATGCTAGAAAAATGTTCTTTAAAGGCATCTAC
ACAATTTAATTCCTCTTTTTAGGGCTAAAGTTTTAGGGTACAGTTTGGCTAGGTATCATTCAACTCTCCAATGTT
CTATTAATCACCTCTCTGTAGTTTATGGCAGAAGGGAATTGCTCAGAGAAGGAAAAGACTGAATCTACCTGCCCT
AAGGGACTTAACCTGTTTGGTAGTTAGCCATCTAATGCTTGTTTATGATATTTCTTGCTTTCAATTACAAAGCAG
TTACTAATATGCCTAGCACAAGTACCACTCTTGGTCAGCTTTTGTGTTTATATACAGTACACAGATACCTTGAA
AGGAAGAGCTAATAAATCTCTTTGCTGCAGTCATCTACTTTTTTTTAAATTAATAAAAAAATTTTTTTTGAAG
CAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTT
CAGCAATTCTCCTGCCTCAGCCTCCCTAGTAGCTGGGATGACAGGCGCCTGCCATCATGCCTGACTAATTTTTGT
ATTTTTAGTAGAGACGGCGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCTGC
CTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGA

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FIGURE 4556

CTCTCACGCAGCCAAC**ATGG**CTCCAGTGGAGCACGTTGTGGCGGATGCTGGGGCTTTCCTGCGGCATGCGGCTCT
GCAGGACATCGGGAAGAACATTTACACCATCCGGGAGGTGGTCACTGAGATTTCGGGACAAGGCCACACGCAGGCG
GCTCGCTGTCTGCCCTACGAGCTGCGGTTCAAGGAGCCCTTACCGGAATACGTGCGGCTGGTGACTGAGTTTTC
AAAGAAAACAGGAGACTACCCAGCCTCTCTGCCACGGACATCCAAGTGCTTGCACTCACATAACCAGTTGGAAGC
AGAGTTTGTGGGGTGTCTCACCTAAACAAGAACCACAGAAGGTTAAGGTGAGCTCATCGATTTCAGCACCAGCA
AACACCTCTGCACATTTCTGGTTTCCATCTGCCCTACAAGCCTAAACCCCCACAAGAAACAGAAAAAGGACACTC
AGCTTGTGAGCCTGAGAACCTGGAATTTAGTTCCCTTCATGTTCTGGAGAAACCCTTTGCCAACATCGATCATGA
ACTGCAGGAGCTGCTGATTGACAGAGGTGAGGACGTTCCAAGTGAGGAGGAGGAGGAAGAAAACGGGTTTGA
AGACAGAAAAGATGACAGCGATGACGACGGGGGTGGCTGGATAACCCCCAGTAACATCAAGCAGATCCAGCAGGA
GCTGGAGCAGTGTGACGTCCCCGAGGACGTGCGGGTTGGCTGCCTGACCACAGACTTCGCCATGCAGAATGTTCT
GCTGCAGATGGGGCTGCACGTGCTGGCGGTGAACGGCATGCTGATTCTGTGAGGCCCGGAGCTACATCTTGCGCTG
CCATGGCTGTTTCAAGACAACGTCTGACATGAGCCGAGTGTCTGCTCACACTGTGGGAACAAGACCCTGAAGAA
AGTGTCCGTGACCGTCAGCGACGACGGCACCCCTGCACATGCACTTCTCCCGCAACCCCAAGGTGCTGAACCCCCG
CGGCCTCCGGTACTCGCTTCCCACTCCCAAAGGGGGCAAATACGCCATCAACCCCCATCTCACCGAGGATCAGCG
CTTCCCTCAGCTGCGACTCTCCCAAAGGCCAGGCAGAAAACCAACGTGTTGCCCCCTGACTACATCGCCGGGGT
GTCACCCTTTGTGAGAATGACATCTCCAGCCGCTCAGCTACCCTGCAGGTCCGGGACAGCACCTTGGGAGCTGG
GCGGAGACGCTTAAATCCCAACGCTTCCAGAAAGAAGTTTGTGAAGAAAAGG**TGA**AGAGCGAGTTCCCGCAGGCA
AATTGGATGGGCGTCTGGCCGCCGTGGAGTTCCGGTGACCCATTTCCCCAGCCGTGTCGTCTCCAGGACCACCCG
ATGGAAATAACAGGCGGGCTTCACGGTGCGGCTCTGTCCGCCCATGCCCGCTGGGTCTGCAGGGAACCTGGACTG
TCCCATGGCCTGTGAGCACCGGAGCGCCTGGCTGCCTGCCAAGGAAGTGCAATTGCATAAAAACAGAAAGAACAA
CGCCCTGGAGCCAATCTTCAAGAAAGGAATTTCCAAAGGATAATATTTTTCTAATAAATGCGGCTGCAACCTCCT
GTGCATTTAATTAAATAGGCCAAATTTTTGCTGCTTAGGTCATCTCAAGGCTGATACTTGAGCTGTGTGCCCAGA
GATCATGCATTTAGATTTATATTTTTGCCAGAAAATACAAGGTTATAATAAACTAAGAACTACCAAAAAAAAAA
AAAAAAA

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FIGURE 4557

MAPVEHVADAGAFRLRHAALQDIGKNIYTIREVVTEIRDKATRRRLAVLPYELRFKEPLPEYVRLVTEFSKKTGD
YPSLSATDIQVLALTYQLEAEFVGVSHLKQEPQKVKVSSSIQHPETPLHISGFHLPYKPKPPQETEKGHSACEPE
NLEFSSFMFWRNPLPNIDHELQELLIDRGEDVPSEEEEEENGFEEDRKDDSDDDGGGWITPSNIKQIQQELEQCD
VPEDVRVGCLTTDFAMQNVLLQMGLHVLAVNGMLIREARSYILRCHGCFKTTSDMSRVFCSHCGNKTLKKVSVTV
SDDGTLHMHFSRNPVKVLNPRGLRYSLPTPKGGKYAINPHLTEDQRFPLRLSQKARQKTNVFAPDYIAGVSPFVE
NDISSRSATLQVRDSTLGAGRRRLNPNASRKKFVKKR

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FIGURE 4558

CTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAGAAGTCC
AGGTTAGAGGGAAGTGGGAGGCACTTTGCTGTCTTCAATCGAAGTTGAGGGTGCAAAAATGCAGAGTAATAAAAC
TTTAACTTGGAGAAGCAAAACCATACTCCAAGAAAGCATCATCAACATCACCACCAGCAGCAACAGCTGCAGCC
GCCACCACCGCCAATACCTGCAAATGGGCAACAGGCCAGCAGCCAAAATGAAGGCTTTGACTATTTGGCCTGAAG
AATTTTAGAAAACCAGGAGAGAAGACCTTCACCCAACGAAGCCGTCTTTTTGTGGGAAATCTTCCTCCCGACATC
ACTGAGGAAGAAATGAGGAACTATTTGAGAAATATGGAAGGCAGGCCGAAGTCTTCATTACATAAGGATTAAGGA
TTTGGCTTTATCCGCTTGGAAACACGAACCCTAGCGGAGATTGCGAAAGTGGAGCTGGACAATATGCCACTCTGT
GGAAAGCAGCTGCGTGTGCGCTTTTCCTGCCATAGTGCATCCCTTACAGTTCGAAAACCTTCCTCAGTATGTGTCC
AACGAAGTGCTGGAAGAAGCCTTTTCTGTGTTTGGCCAGGTAGAGAGGGCTGTAGTCATTGTGGATGATCGAGGA
AGGCCCTCAGGAAAAGGCATTGTTGAGTTCCTCAGGGAAGCCAGCTGCTGGGAAAGCTCTGGACAGACGCAGTGAA
GGCTCCTTCCTGCTAACACATTTCTCGTCTGTGACTATGGAGCCCATGGACCAGTTAGATGATGAAGGGGA
CTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTTACAAGGAACGAGAGCAACCACCCAGATTTGCACAGCCT
GGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATGGAGAAGCAGCAGCAGGACCAAGTG
GACCGCAACATCAAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACCAGGTCATG
CTAATGAGACAGAATTTGATGAGGCGCCAAGAAGAACTTCGGAGGATGGAAGAGCTGCACAACCAAGAGGTGCAA
AAACGAAAGCAACTGGAGCTCAGGCAGGAGGAAGAGCGCAGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAA
GAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACCTTCCCTGATGTGAGAGAGCAGGAGATTTGGATGGGT
CAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGAGGTGCCTTGACCCCTGCTCCTGTGCCAGCTGGTACC
CCAGCTCCTCCAGGACCTGCCACTATGATGCCGATGGAACCTTTGGGATTGACCCCAACAACACTGAACGCTTT
GGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGAAACTCCTCCTGCATTCAACCATGCAGCTCCTGGA
GCTGAATTTGCTCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAACCCCTTAAAGAA
GGACCCTTTTTGGACCAGCCAGAATTCTACCCTGGAAAAGTGTTAGGGATTCTTCCAATAGTTAGATCTACCC
GCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGACAAGGGAGGGGTGGTATTAAACAAGTCAATTCTATGT
AGTATATTATTTAATCAGTTCGTGTGGTGCATTCTGAAAGTCTCAAATGTGATTGTTGAGGGCCTGGGGAAACC
ATGGCAAAGTAGATCCAGTTAGAGCCCATTAATCTTGATCATTCTGTTTTTTTTGGTTTGTGTTGTTTTTTTT
TTTTTTTTTTTTTGTCCATCTTGTTCATTTGCTTGCCCTGCCCCGAGATGGAGTCTTACTCTGTGCCCCAGGCT
GGAGTGTAGTGGCACGATCTCGGCTCACTGCAATCTCTGCCCTCTCGGGTTCAAGCTTGTCAGGCTGATCTTGAA
CTCCTGACCTCGTGATCCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCT
CACTTGCTTTCTTATCCTTACACTCCCCAGTCCCAGAGAACTGCCACATACACCACAAAAACCAACATCCCC
CAATGACCTTAGCCGATTGCTCCATTCACTCCCAGGTGAGAATTCAAGGTAAACGTCCACAAAGGTCACAGGCAA
CGTACATACGGTTCTATTATATCCCATATATTACCCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTT
CATTTTAGTATATCTTTAAAAAAAATCTTGTTAACTTGCCCTCATCTTTTCTTGGGTGAGGACACCCAGGA
ATGACCCTTTTGTGTCTATGATACTGCTGTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGT
TACTGTATACTGAAGGTCTGACAGTAGCTCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGCCTTTTTTTTCC
ATTGGTGTATTGTATTTGATTTGTCTCTGATATATTGGAGTTTTTCTGAGAACTGGAGCAGTAATGCAGCATCG
ACCTATTAAAATACATTTTAAGCCTTT

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FIGURE 4559

MPICGKQLRVRFSCHSASLTVRNLPQYVSNEVLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAAGKALD
RRSEGSFLLTTFFRPVTMEPMDQLDDEGGLPEKLVIKNQQFHKEREQPPRFAQPGSFYEYAMRWKALIEMEKQQ
QDQVDRNIKEAREKPEMEMEAARHKKHVMLMRQNLMRQEELRRMEELHNQEVQKRKQLELRQEEERRRPEEEMR
RQQEEMMQPQQEGFKGTFPDVREQEIWMGQMAMGGAMGINSRGALTPAPVPAGTPAPPGPATMMPDGTGLGLTPPT
TERFGQAATMEGIGAIGETPPAFNHAAPGAEFAPNKRRRY

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FIGURE 4560

GCAGTGAAGGCTCCTTCCTGCTAACCACATTTCTCGTCCTGTGACTATGGAGCCCATGGACCAGTTAGATGATG
AAGGGGGACTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTTCAACAAGGAACGAGAGCAACCACCCAGATTTG
CACAGCCTGGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATGGAGAAGCAGCAGCAGG
ACCAAGTGGACCGCAACATCAAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACC
AGGTCATGCTAATGAGACAGAATTTGATGAGGCGCCAAGAAGAAGCTTCGGAGGATGGAAGAGCTGCACAACCAAG
AGGTGCAAAAACGAAAGCAATCTCTGCCTCTCGGGTTCAAGCTTGTCCAGGCTGATCTTGAATCCTGACCTCGT
GATCCCCCTGCCTCAGCCTCCCAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTTCTT
ATCCTTACACTCCCCAGTCCCAGAGAACTGCCACATACACCACAAAAACCAAACATCCCCCAATGACCTTAGC
CGCATTGCTCCATTCACTCCCAGGTGAGAATTCAGGTAAACGTCCACAAAGGTCACAGGCAACGTACATACGGTT
CTATTATATCCCATATATTACCCCTTCATGTCCTA

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FIGURE 4561

CTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAAGAGCGC
AGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAAGAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACC
TTCCCTGATGTGAGAGAGCAGGAGATTTGGATGGGTCAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGA
GGTGCCCTTGACCCCTGCTCCTGTGCCAGCTGGTACCCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGA
ACTTTGGGATTGACCCACCAACAACCTGAACGCTTTGGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGT
GAAACTCCTCCTGCATTCAACCATGCAGCTCCTGGAGCTGAATTTGCTCCAAACAAACGTCGCCGATACTAATAA
GTTGCAGTGTCTAGTTTCTCAAAACCCCTTAAAGAAGGACCCTTTTTGGACCAGCCAGAATTCTACCCTGGAAAA
GTGTTAGGGATTCTTCCAATAGTTAGATCTACCCTGCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGAC
AAGGGAGGGGTGGTATTAAACAAGTCAATTCTATGTAGTA

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FIGURE 4562

AGTGGTGTCCGCAAAGCCCAAGGTGCATAATCGTCAACCTCGAATTAACCTCTACGTGGAGGTGGCGGTGGATGG
ACTCCCCAGTGAGACCAAGAAGACTGGGAAGCGCATTGGGAGCTCTGAGCTTCTCTGGAATGAGATCATCATTTT
GAATGTCACGGCACAGAGTCATTTAGATTTAAAGGTCTGGAGCTGCCATACCTTGAGAAATGAACTGCTAGGCAC
CGCATCTGTCAACCTCTCCAACGTCTTGAAGAACAATGGGGGCAAATGGAGAACATGCAGCTGACCTGAACCT
GCAGACGGAGAACAAGGCAGCGTTGTCTCAGGCGGAGAGCTGACAATTTTCTGGACGGGCCAACTGTTGATCT
GGGAAATGTGCCAATGGCAGTGCCCTGACAGATGGATCACAGCTGCCCTTCGAGAGACTCCAGTGGAACAGCAGT
AGCTCCAGAGAACCGGCACCAGCCCCCAGCACAACTGCTTTGGTGGGAAGATCCCGGACGCACAGACATTCGGG
TGCTTCAGCCAGAACACCCAGCAACCGGCGAGCAAAGCCCCGGTGTCTCGGAGCCGGCACCGCCAGCCCGTCAA
GAACTCAGGCCACAGTGGCTTGGCCAATGGCACAGTGAATGATGAACCCACAACAGCCACTGATCCCGAAGAACC
TTCCGTTGTTGGTGTGACGTCCCCACCTGCTGCACCTTGAGTGTGACCCGAATCCCAACACGACTTCTCTCCC
TGCCCCAGCCACACCGGCTGAAGGAGAGGAACCCAGCACTTCGGGTACACAGCAGCTCCCAGCGGCTGCCAGGC
CCCCGACGCTCTGCCTGCTGGATGGGAACAGCGAGAGCTGCCCAACGGACGTGTCTATTATGTTGACCACAATAC
CAAGACCACCACCTGGGAGCGGCCCTTCTCCAGGCTGGGAAAAACGCACAGATCCCGAGGCAGGTTTTACTA
TGTGGATCACAATACTCGGACCACCACCTGGCAGCGTCCGACCGCGGAGTACGTGCGCAACTATGAGCAGTGGCA
GTCGCAGCGGAATCAGCTCCAGGGGGCCATGCAGCACTTCAGCCAAAGATTCTCTACCAGTCTTCGAGTGTCTC
GACTGACCATGATCCCCTGGGCCCCCTCCCTCTGGCTGGGAGAAGAGACAGGACAATGGACGGGTGTATTACGT
GAACCATAACACTCGCACGACCCAGTGGGAGGATCCCGGACCCAGGGGATGATCCAGGAACCAGCTCTGCCCCC
AGGATGGGAGATGAAATACACCAGCGAGGGGGTGCATACTTTGTGGACCACAATACCCGCACCACCACCTTTAA
GGATCCTCGCCCGGGGTTTGTGTCGGGGACGAAGCAAGGTTCCCTGGTGTCTATGACCGCAGTTTTTCGGTGGAA
GTATCACCAGTTCGGTTTCTCTGCCATTCAAATGCCCTACCTAGCCACGTGAAGATCAGCGTTTTCCAGGCAGAC
GCTTTTTCGAAGATTCTTCCAACAGATCATGAACATGAAACCCTATGACCTGCGCCGCCGGCTCTACATCATCAT
GCGTGGCGAGGAGGGCCTGGACTATGGGGGCATCGCCAGAGAGTGGTTTTTCTCTGTCTCATGAGGTGCTCAA
CCCTATGTATTGTTTATTTGAATATGCCGGAAGAACAATTACTGCCTGCAGATCAACCCCGCTCCTCCATCAA
CCCGGACCACCTACCTACTTTTCGCTTTATAGGCAGATTTCATCGCCATGGCGCTGTACCATGGAAAGTTTCATCGA
CACGGGCTTACCCTCCCTTTCTACAAGCGGATGCTCAATAAGAGACCAACCCTGAAAGACCTGGAGTCCATTGA
CCCTGAGTTCTACAACCTCCATTGTCTGGATCAAAGAGAACAACCTGGAAGAATGTGGCCTGGAGCTGTACTTCAT
CCAGGACATGGAGATACTGGGCAAGGTGACGACCCACGAGCTGAAGGAGGGCGCGAGAGCATCCGGGTACAGA
GGAGAACAAGGAAGAGTACATCATGCTGCTGACTGACTGGCGTTTTACCCGAGGCGTGGAAGAGCAGACCAAAGC
CTTCTGGATGGCTTCAACGAGGTGGCCCCGCTGGAGTGGCTGCGCTACTTTGACGAGAAAGAGCTGGAGCTGAT
GCTGTGCGGCATGCAGGAGATAGACATGAGCGACTGGCAGAAGAGCACCATCTACCGGCACTACACCAAGAACAG
CAAGCAGATCCAGTGGTTCTGGCAGGTGGTGAAGGAGATGGACAACGAGAAGAGGATCCGGCTGCTGCAGTTTGT
CACCGGTACCTGCCGCCTGCCCGTCGGGGGATTTGCCGAACCTCATCGGTAGCAACGGACCACAGAAGTTTTGCAT
TGACAAAGTTGGCAAGGAAACCTGGCTGCCAGAAGCCACACCTGCTTCAACCGTCTGGATCTTCCACCCTACAA
GAGCTACGAACAGCTGAGAGAGAAGCTGCTGTATGCCATTGAGGAGACCGAGGGCTTTGGACAGGAGTAACCGAG
GCCGCCCTCCCACGCCCCCAGCGCACATGTAGTCTGAGTCTCCTGCCTGAGAGGCCACTGGCCCCGCAGC
CCTTGGGAGGCCCCCGTGGATGTGGCCCTGTGTGGGACCACACTGTCATCTCGCTGCTGGCAGAAAAGCCTGATC
CCAGGAGGCCCTGCAGTTCCCCCGACCCGCGGATGGCAGTCTGGAATAAAGCCCCCTAGTTGCCTTTGGCCCCAC
CTTTGCAAAGTTCCAGAGGGCTGACCCTCTCTGCAAACTCTCCCCTGTCTCTAGACCCCCACCTGGGTGTATG
TGAGTGTGCAAGGGAAGGTGTTGCATCCCCAGGGGCTGCCGCAGAGGCCGAGACCTCCTGGACTAGTTCGGCGA
GGAGACTGGCCACTGGGGGTGGCTGTTCCGGACTGAGAGCGCCAAGGGTCTTTGCCAGCAAAGGAGGTCTGCCT
GTAATTGAGCCTCTCTGATGATGGAGATGAAGTGAAGGTCTGAGGGAGCGGGCCCTGGGGCGAGGCCATCTCTGC
CTGCCCTCCCTAGCAGGCGCCAGCGGTGGAGGCTGAGTCGCAGGACACATGCCGGCCAGTTAATTCATTCTCAGCC
AATGAAGGTTTGTCTAAGCTGCCTGGGTATCCACGGGACAAAAACAGCAAACCTCCCTCAGACTTTGTCCATGTAT
AAACTTGAAGTGGTTGTGTTGTAGGGTTGCAGTTTTTTTTGTTACGCTGCTGTCACTTTCTGTCT

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FIGURE 4563

MASASSSRAGVALPFEKSQTLTKVVSAPKPKVHNROPRINSYVEVAVDGLPSETKKTKGRIGSSELLWNEIIILNV
TAQSHLDLKVWSCHTLRNELLGTASVNLNVLKNNGGKMENMQTLNLQTENKGSVVSGGELTIFLDGPTVDLGN
VPNGSALTDGSQLP SRDSSGTAVAPENRHQPPSTNCFGGRSRTHRHSGASARTTPATGEQSPGARSRRHRQPVKNS
GHSGLANGTVNDEPTTATDPEEPSVVGVTSPPAAPLSVTPNPNTTSLPAPATPAEGEEPSTSGTQQLPAAAQAPD
ALPAGWEQRELPNGRVYYVDHNTKTTTWERPLPPGWEKRTDPRGRFYVDHNTTRTTTQWRPTAEYVRNYEQWQSQ
RNQLQGAMQHFSQRFLYQSSASTDHDPLGLPPGWEKRQDNGRVYYVNHNTTRTTQWEDPRTQGMIOEPALPPGW
EMKYTSEGVRYFVDHNTTRTTTFKDP RP GFESGTKQSGPAYDRSFRWKYHQFRFLCHSNALPSHVKISVSRQTLF
EDSFQQIMNMKPYDLRRRLYIIMRGEEGLDYGGIAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASSINPD
HLTYFRFIGRFIAMALYHGKFIDTGFTLPFYKRMLNKRPTLKDLESIDPEFYNSIVWIKENNLEECGLELYFIQD
MEILGKVTTHELKEGGESIRVTEENKEEYIMLLTDWRFTRGVEEQTKAFLDGFNEVAPLEWLRYFDEKELELMLC
GMQEIDMSDWQKSTIYRHYTKNSKQIQWFQVVKEMDNEKRIRLLQFVTGTCRLPVGGFAELIGSNGPQKFCIDK
VGKETWLP RSHTCFNRDLPPYKSYEQLREKLLYAIEETEGFGQE

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FIGURE 4564

GGTACAGCTGCGCGTCTGCGGGAATAGGTGCAGCGGGCCCTTGCGGGGGACTCTGAGGGAGGAGCTGGGGACGG
CGACCCTAGGAGAGTTCTTTGGGGTGACTTTCAAGATGGACTCTACTCTAACAGCAAGTGAAATCCGGCAGCGAT
TTATAGATTTCTTCAAGAGGAACGAGCATACGTATGTTCACTCGTCTGCCACCATCCCATTTGGATGACCCCACTT
TGCTCTTTGCCAATGCAGGCATGAACCAGTTTAAACCCATTTTCCTGAACACAATTGACCCATCTCACCCCATGG
CAAAGCTGAGCAGAGCTGCCAATACCCAGAAGTGATCCGGGCTGGGGGCAAACAAAATGACCTGGACGATGTGG
GCAAGGATGTCTATCATCACACCTTCTTCGAGATGCTGGGCTCTTGGTCTTTTGGAGATTACTTTAAGGAATTGG
CATGTAAGATGGCTCTGGAACCTCTCACCCAAGAGTTTGGCATTCCCATTGAAAGACTTTATGTTACTTACTTTG
GCGGGGATGAAGCAGCTGGCTTAGAAGCAGATCTGGAATGCAAACAGATCTGGCAAATTTGGGGCTGGATGACA
CCAAAATCCTCCAGGCAACATGAAGGATAACTTCTGGGAGATGGGTGACACGGGCCCCCTGTGGTCTTGCAGTG
AGATCCACTACGACCGGATTGGTGGTCGGGACGCCGCACATCTTGTCACCAGGACGACCCTAATGTGCTGGAGA
TCTGGAACCTTGTGTTTCATCCAGTATAACAGGGAAGCTGATGGCATTCTGAAACCTCTTCCCAAGAAAAGCATTG
ACACAGGGATGGGCCTGGAACGACTGGTATCTGTGCTGCAGAATAAGATGTCCAACATATGACACTGACCTTTTTG
TCCCTTACTTTGAAGCCATTGAGAAGGGCACAGGTGCCCGACCATACTGCGAAAGTTGGTGCTGAGGATGCCG
ATGGGATTGACATGGCCTACCGGGTGCTGGCTGACCATGCTCGGACCATCACTGTGGCACTGGCTGATGGTGGCC
GGCCTGACAACACAGGGCGTGGATATGTGTTGAGACGGATTCTCCGCCGAGCTGTCCGATACGCCCATGAAAAGC
TCAATGCCAGCAGGGGCTTCTTTGCTACGTTAGTGGATGTTGTCTCCAGTCCCTGGGAGATGCATTTCTTGAGC
TGAAGAAGGACCCAGACATGGTGAAGGACATCATTAATGAAGAAGAGGTGCAGTTTCTCAAGACTCTCAGCAGAG
GGCGTCGCATCCTGGACAGGAAAATTCAGAGCCTGGGAGACAGCAAGACCATTCCCGGAGACACTGCTTGGCTCC
TCTATGACACCTATGGGTTTCCAGTGGATCTGACTGGACTGATTGCTGAAGAGAAGGGCCTGGTGGTAGACATGG
ATGGCTTTGAAGAGGAGAGGAAAATGCGCCAGCTGAAATCACAGGGCAAGGGAGCTGGTGGGGAAGACCTCATTA
TGCTGGACATTTACGCTATCGAAGAGCTCCGGGCACGGGGTCTGGAGGTACAGATGATTCCCCAAAGTACAATT
ACCATTTGGACTCCAGTGGTAGCTATGTATTTGAGAACACAGTGGCTACGGTGATGGCTCTGCGCAGGGAGAAGA
TGTTCTGTGGAAGAGGTGTCCACAGGCCAGGAGTGTGGAGTGGTGTGGACAAGACCTGTTTCTATGCTGAGCAAG
GAGGCCAGATCTATGACGAAGGCTACCTGGTGAAGGTGGATGACAGCAGTGAAGATAAAAACAGAGTTTACAGTGA
AGAATGCTCAGGTCCGAGGAGGGTATGTGCTACACATTGGAACCATCTACGGTGACCTGAAAGTGGGGGATCAGG
TCTGGCTGTTTTATTGATGAGCCCCGACGAAGACCCATCATGAGCAACCACACAGCTACGCACATTCTGAACTTCG
CCCTGCGCTCAGTGCTTGGGGAAGCTGACCAGAAAGGCTCATTGGTTGCTCCTGACCGCCTCAGATTTGACTTTA
CTGCCAAGGGAGCCATGTCCACCCAACAGATCAAGAAGGCTGAAGAGATTGCTAATGAGATGATTGAGGCAGCCA
AGGCCGTCTATACCCAGGATTGCCCCCTGGCAGCAGCGAAAGCCATCCAGGGCCTACGGGCTGTGTTTGATGAGA
CCTATCCTGACCTGTGCGAGTCGTCTCCATTGGGGTCCCGGTGTCCGAGTTGCTGGATGACCCCTCTGGGCCTG
CTGGCTCCCTGACTTCTGTTGAGTTCTGTGGGGGAACGCACCTGCGGAACCTCGAGTCATGCAGGAGCTTTTGTA
TCGTGACGGAAGAAGCCATTGCCAAGGGTATCCGGAGGATTGTGGCTGTACAGGTGCCGAGGCCCAGAAGGCC
TCAGGAAAGCAGAGAGCTTGAAGAAATGTCTCTGTCTATGGAAGCCAAAGTGAAGGCTCAGACTGCTCCAAACA
AGGATGTGCAGAGGGAGATCGCTGACCTTGGAGAGGCCCTGGCCACTGCAGTCATCCCCAGTGGCAGAAGGATG
AATTGCGGGAGACTCTCAAATCCCTAAAGAAGGTATGGATGACTTGGACCGAGCCAGCAAAGCCGATGTCCAGA
AACGAGTGTTAGAGAAGACGAAGCAGTTCATCGACAGCAACCCCAACCAGCCTCTTGTCATCCTGGAGATGGAGA
GCGGCGCCTCAGCCAAGGCCCTGAATGAAGCCTTGAAGCTCTTCAAGATGCACTCCCCCTCAGACTTCTGCCATGC
TCTTACGGTGGACAATGAGGCTGGCAAGATCACGTGCCTGTGTCAAGTCCCCCAGAATGCAGCCAATCGGGCT
TAAAAGCCAGCAGTGGGTGCAGCAGGTGTCAGGCTTGATGGACGGTAAAGGTGGTGGCAAGGATGTGTCTGCAC
AGGCCACAGGCAAGAACGTTGGCTGCCTGCAGGAGGCGCTGCAGCTGGCCACTTCCTTCGCCCAGCTGCGCCTCG
GGGATGTAAAGAACTGAGTGGGGAAAGGAGGAGGCTCCCACTGGATCCATCCGTCCAGCCAAGAGCTCTTCATCTG
CTACAAGAACATTTGAATCTTGGGACCTTTAAAGAGCCCCCTCCTAACCCAGCAGTAACCTGGAACACACTTGGGAG
CAGTCTATGTCTCAGTGCCCCCTTAAATTTCTGCCCTGAGCCCTCCACGTGAGTGCATCGGTCTAGAACCACTA
ACCCCGCATTGCTGTTGATCGTCACGCTCGCATCTATAGATAACGGCTCTCCAGACCTGAGCTTTCCGCGTCAGC
AAGTAGGAATCGTTTTTGTCTGCAGAGAATAAAAGGACCACGTGC

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FIGURE 4565

MDSTLTASEIRQRFIDFFKRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAANTQKC
IRAGGKQNDLDDVGKDVYHHTFFEMLGSWSF GDYFKELACKMALELLTQEFGIPIERLYVTYFGGDEAAGLEADL
ECKQIWQNLGLDDTKILPGNMKDNFWEMGDTGPCGPCSEIHYDRIGGRDAAHLVNQDDPNVLEIWNLVFIQYNRE
ADGILKPLPKKSIDTGMGLERLVSVLQNKMSNYDIDLFPYFEAIQKGTGARPYTGKVGAEADADGIDMAYRVLAD
HARTITVALADGGRPDNTGRGYVLRRLRRAVRYAHEKLNASRGFFATLVDVVVQSLGDAFPELKKDPMVKDII
NEEEVQFLKTL SRGRRILDRKIQSLGDSKTIPGDTAWLLYD TYGFPVDLTGLIAEEKGLVVDMDGFEEERKLAQL
KSQKGAGGEDLIMLDIYAIEELRARGLEVTD DSPKYNHLDSSGSYVFENTVATVMALRREKMFVEEVSTGQEC
GVVLDKTCFYAEQGGQIYDEGYLVKVDDSSSEDKTEFTVKNAQVRGGYVLHIGTIYGD LKVG DQVWLFIDEPRRRP
IMSNHTATHILNFALRSVLGEADQKGS LVAPDRLRFDTAKGAMSTQQIKKAE EIANEMIEAAKAVYTQDCPLAA
AKAIQGLRAVFDETYPD PVRVVSIGVPVSELLDDPSGPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIAKGIR
RIVAVTGAEAQKALRKAESLKKCLSVMEAKVKAQTAPNKDVQREIADLGEALATAVIPQWQKDELRETLKSLKKV
MDDLDRASKADVQKRVLEKTKQFIDSNPNQPLVILEMESGASAKALNEALKLFKMHSPQTSAMLFTVDNEAGKIT
CLCQVPQNAANRGLKASEWVQQVSG LMDGKGGGKDVSAQATGKNVGCLQEALQLATSFAQLRLGDVKN

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FIGURE 4566

GTAGTGGGGCTGGAGCAGAGCCTGCCGCGAACCCCGGAGCCCACGATCCCTCGTGCCATCCCTCGAATCCACCA
GCACGAGCGTCCCACCCGCGCCTGGGACCATGGCCACTGACTCATGGGCCCTGGCGGTGGACGAGCAGGAAGCTG
CGGCTGAGTCGTTGAGCAACTTGCATCTTAAGGAAGAGAAAATCAAACCAGATACCAATGGTGCTGTTGTCAAGA
CCAATGCCAATGCAGAGAAGACAGATGAAGAAGAGAAAGAGGACAGAGCTGCCCAGTCCTTACTCAACAAGCTGA
TCAGAAGCAACCTTGTTGATAACACAAACCAAGTGGAAGTCTGCAGCGGGATCCAACTCCCCTCTGTACTCGG
TGAAGTCTTTTGAAGAGCTTCGGCTGAAACCACAGCTTCTCCAAGGAGTCTATGCCATGGGTTTCAATCGTCCAT
CCAAGATACAAGAGAACGCATTGCCACTGATGCTTGCTGAGCCCCACAGAACTTAATTGCCCAATCTCAGTCTG
GTACTGGTAAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGTAGAACCTGCAAAACAAATACCCCCAGTGTC
TATGCTCTCCCCAACGTATGAGCTCGCCCTCCAAACAGGAAAAGTGATTGAACAAATGGGCAAATTTTACCCTG
AACTGAAGCTAGCTTATGCTGTTTCGAGGCAATAAATTGGAAAGAGGCCAGAAGATCAGTGAGCAGATTGTCATTG
GCACCCCTGGGACTGTGCTGGACTGGTGCTCCAAGCTCAAGTTCATTGATCCCAAGAAAATCAAGGTGTTTGTTT
TGGATGAGGCTGATGTCATGATAGCCACTCAGGGCCACCAAGATCAGAGCATCCGCATCCAGAGGATGCTGCCCA
GGAAGTGCCAGATGCTGCTTTTCTCCGCCACCTTTGAAGACTCTGTGTGGAAGTTTGCCAGAAAAGTGGTCCCAG
ACCCAAACGTTATCAAACCTGAAGCGTGAGGAAGAGACCCTGGACACCATCAAGCAGTACTATGTCTGTGCAGCA
GCAGAGACGAGAAGTTCCAGGCCTTGTTGTAACCTCTACGGGGCCATCACCATTGCTCAAGCCATGATCTTCTGCC
ATACTCGCAAAACAGCTAGTTGGCTGGCAGCAGAGCTCTCAAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGG
AGATGATGGTGGAACAGAGGGCTGCAGTGATTGAGCGCTTCCGAGAGGGCAAAGAGAAGGTTTTGGTGACCACCA
ACGTGTGTGCCCGCGGCATTGATGTTGAACAAGTGTCTGTGTCATCAACTTTGATCTTCCCGTGACAAGGACG
GGAATCCTGACAATGAGACCTACCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAGGGGCCTGGCAGTGA
ACATGGTGGACAGCAAGCACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTTAATAAGAAGATAGAAAGAT
TGGACACAGATGATTTGGACGAGATTGAGAAAATAGCCAACTGAGAAGCTCCACCAGCCACTGATGCCAGCCCTG
GCACTGCCCCCTGCACAGGAGACAAGTGCCTTCAGGGCACAGGCCCGACATCACCCCAAGGACAACGGCACAAGT
AGAGAGAACTACCTACCTCACTTCAAATTATGTTTGACTTGACAAAAATGTATGCAAATGATGGGGGATGGTA
GAAAAAAATTATTTACACAACCTTGGAAGATTAGGCATGAATACACAGAGATTTACCTTTTGGAAAAAAAAAAAAA
AAAAAA

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FIGURE 4567

MATDSWALAVDEQEAAAESLSNLHLKEEKIKPDTNGAVVKTNANAECTDEEEKEDRAAQSLNKLIRSNLVDNTN
QVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKIQENALPLMLAEPPQNLIQSQSGTGKTAAFVL
AMLSQVEPANKYPQCLCLSPITYELALQTGKVIEQMGKFYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWC
SKLKFIDPKKIKVFVLDEADVMIAATQGHQDQSIRIQRMLPRNCQMLLFSATFEDSVWKFAQKVVPDPNVIKMKRE
EETLDTIKQYYVLCSSRDEKFQALCNLYGAITIAQAMIFCHTRKTASWLAAELSKEGHQVALLSGEMMVEQRAAV
IERFREGKEKVLVTTNVCARGIDVEQVSVVINFDLPVDKDGNDNETYLHRIGRTGRFGKRGGLAVNMVDSKHSMN
ILNRIQEHFNKKIERLDTDDLDEIEKIAN

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FIGURE 4568

GTACTATCCTCCTTACTTTTGGGTCTGGGCCCTCCGGGAAG**ATG**GCGGCCGTGCAGGCGGCCGAGGTGAAAGTGGA
TGGCAGCGAGCCGAAACTGAGCAAGAATGAGCTGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGA
GGCCAAACAGAAAGAGCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAA
TGGTGIGGGTCTTGAGGAAGAGAGCGTGGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATCAGCT
GAAGGTCAATGGGGAAGACCCATACCCACACAAGTTCCATGTAGACATCTCACTCACTGACTTCATCCAAAAATA
TAGTCACCTGCAGCCTGGGGATCACCTGACTGACATCACCTTAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGC
TTCTGGGGGAAAGCTCATCTTCTATGATCTTCGAGGAGAGGGGGTGAAGTTGCAAGTCATGGCCAATTCCAGAAA
TTATAAATCAGAAGAAGAATTTATTCATATTAATAACAAACTGCGTCGGGGAGACATAATTGGAGTTTCAGGGGAA
TCCTGGTAAAACCAAGAAGGGTGAGCTGAGCATCATTCGCTATGAGATCACACTGCTGTCTCCCTGTTTGATAT
GTTACCTCATCTTCACTTTGGGCTCAAAGACAAGGAAACAAGGTATCGCCAGAGATACTTGGACTTGATCCTGAA
TGACTTTGTGAGGCAGAAATTTATCATCCGCTCTAAGATCATCACATATATAAGAAGTTTCTTAGATGAGCTGGG
ATTCTAGAGATTGAAACTCCCATGATGAACATCATCCAGGGGGAGCCGTGGCCAAGCCTTTCATCACTTATCA
CAACGAGCTGGACATGAACTTATATATGAGAATTGCTCCAGAACTCTATCATAAGATGCTTGTGGTTGGTGGCAT
CGACCGGGTTTATGAAATTGGACGCCAGTTCCGGAATGAGGGGATTGATTTGACGCACAATCCTGAGTTACCAC
CTGTGAGTTCTACATGGCCTATGCAGACTATCACGATCTCATGGAAATCACGGAGAAGATGGTTTCAGGGATGGT
GAAGCATATTACAGGCAGTTACAAGGTCACCTACCACCCAGATGGCCCAGAGGGCCAAGCCTACGATGTTGACTT
CACCCCACCCTTCCGGCGAATCAACATGGTAGAAGAGCTTGAGAAAGCCCTGGGGATGAAGCTGCCAGAAACGAA
CCTCTTTGAAACTGAAGAAACTCGCAAAATTCCTTGATGATATCTGTGTGGCAAAGCTGTTGAATGCCCTCCACC
TCGGACCACAGCCAGGCTCCTTGACAAGCTTGTTGGGGAGTTCTGGAAAGTGAAGTTCATCAATCCTACATTCAT
CTGTGATCACCCACAGATAATGAGCCCTTTGGCTAAATGGCACCGCTCTAAAGAGGGTCTGACTGAGCGCTTTGA
GCTGTTTGTGATGAAGAAAGAGATATGCAATGCGTATACTGAGCTGAATGATCCCATGCGGCAGCGGCAGCTTTT
TGAAGAACAGGCCAAGGCCAAGGCTGCAGGTGATGATGAGGCCATGTTTCATAGATGAAAACCTTCTGTACTGCCCT
GGAATATGGGCTGCCCCCACAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTACGGACTCCAA
CAACATCAAGGAAGTACTTCTGTTTCCCTGCCATGAAACCCGAAAGACAAGAAGGAGAATGTAGCAACCACTGATAC
ACTGGAAGCACAAACAGTTGGCATTCTGTCT**TAG**AAAAATAATAATTGCAAGTTGTATAACTCAGGCGTCTTTGCA
TTTCTGCGAAAGATCAAGGTCTGCAAGGGAATTCCTGTGTGCTGCTTTCCATTTGACACCGCAGTTCTGTTTCAGC
CATCAGAAGAGAGACAAGGAATTAAAAATTTCTTTTAAATCCTGTTA

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FIGURE 4569

MAAVQAAEVKVDGSEPKLKSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEESVDPNQ
YYKIRSQAIIHQKLVNGEDPYPHKFHVDISLTDFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGE
GVKLQVMANSRNYKSEEEFIHINNKLRRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGLKDKET
RYRQRYLDLILNDFVRQKFIIRSKIIITYIRSFLDELGFLEIETPMMNIIIPGGAVAKPFITYHNELDMNLYMRIAP
ELYHKMLVVGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMOVSGMVKHITGSYKVITYHP
DGPEGQAYDVDFTPPFRRINMVEELEKALGMKLPETNLFETEETRKILDDICVAKAVECPPPRTTARLLDKLVGE
FLEVTCINPTFICDHPQIMSPKAKWHRSEGLTERFELFVMKKEICNAYTELNDPMRQRQLFEEQAKAKAAGDDE
AMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDLESTTVGTSV

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FIGURE 4570

AAGATGGCGGACCTTGATTGCGCTCCGAAGCTGTCAGGGGTGCAGCAGCCGTCTGAGGGGGTGGGAGGTGGCCGC
TGCTCCGAAATCTCCGCTGAGCTCATTGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTC
TGCGGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAACAGCAAAACACCATTGAAAGTAAGATG
GTCACCTCTCCACCGAATGGGTCTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACC
TTTACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAAGTTCTGTCAGCTTGACCTGGCCAAGAACCGCCTCTATCAG
GCCATTGAGAGAGCTGATGACATCTTGGACCTGAAAGTTCTGTCATGGATGGAGTTTCTGAGCTGCTTTGAGGAGTGAA
GATTATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCTGGACAAGTGGGTCTTCTGAGCTCAGCCGACAG
GGCAAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTG
GCAGAGAAGTTTGGCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCCTG
CTGGGTTTTCATGAGGAGGGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAG
AATCTGCTCATGGTGTCTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGCAGATACACTTACTCTT
CTGTTTGAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTC
TATACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTTATCAAGCAA
AGGGACTACCACCAGCAGTTCCGGCATGTTTCAAGAACCTGATGAGAAATTCTACAACAGAAAAAATCGAACCA
AGAGAACTGGACCCCATCCTGACTGAGGTACCCCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCTCTCAAG
AAGAGGATTAGCTCTGATTTTGGAGTGGGAGACTCCATGGCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGT
CTGGACAAACTCCTCAATAACTGCCTTTTGGAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAG
GAGTACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGC
ATGGTGGATGATGTCTTCTACATTGTTAAGAAGTGATTGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTC
TGTGCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATG
GGCTTTCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTC
CAGCAAGGCAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCCTGGTGACTCTGAAC
AACGTGGAAGTCTGCAGTGAAAACATCTCCACTCTGAAGAAGACACTGGAGAGTGACTGCACCAAGCTCTTCAGC
CAGGGCATTGGAGGGGAGCAGGCCAGGCCAAGTTTGAAGCTGCCTTTCTGACTTGGCCGCCGTGTCCAACAAA
TTCCGAGACCTCTTGCAGGAAGGGCTGACGGAGCTCAACAGCACAGCCATCAAGCCACAGGTGCAGCCTTGGATC
AACAGCTTTTTCTCCGTCTCCCACAACATCGAGGAGGAAGAATTCAATGACTATGAGGCCAACGACCCTTGGGTA
CAACAGTTTATCCTTAACCTGGAGCAGCAAATGGCAGAGTTCAAGGCCAGCCTGTCCCCGGTCATCTACGACAGC
CTAACCGGCCTCATGACTAGCCTTGTGTCGCTGAGTTGGAGAAAGTGGTGCTGAAATCCACCTTTAACCGGCTG
GGTGGTCTGCAGTTTGACAAGGAGCTGAGGTGCTCATTGCCTACCTTACCACGGTGACCACCTGGACCATCCGA
GACAAGTTTGGCCGGCTCTCCCAGATGGCCACCATCCTCAATCTGGAGCGGGTGACCGAGATCCTCGATTACTGG
GGACCCAATTCCGGCCCATTTGACGTGGCGCCTCACCCCTGCTGAAGTGCGCCAGGTGCTGGCCCTGCGGATAGAC
TTCCGCAGTGAAGATATCAAGAGGCTGCGCCTGTAGCTGCCTGGATGAGCACACCTGGCTCATCACACTTGCAGG
CCTGTTCCCTAAGGGGGCCCCAGCCAAGGAGCTGAGCGAGGCTGTCTGGCTTGGGGGAGATCTGACAGCCCAGACC
TTTCTACGGCTGGCAGCAGAGAAACAAAGTCTGGACCCACTCCATGCTCTGCCCTCAGACCTGGCCAGGTGATGC
TCTGGGGGCGAGCATCTCCCCACCGAGAGAAGCGGGCTCCTAATGAGGTGGGAAAGCCACGGCAGGCAGCGAGCAG
CCCAGGCCAGCTTTCTGCATGGATGGTCAGTCTCTTGGCCCTCAAACACTACAGCAAAACAGCTACCCCTGCCAGT
CCTAGACAACCTTGGGTACATCTGGGGACCTAGCAGTTAGGCTTGACTTTGAGGAGAGGCTGTGATGTTTATGATC
CCTGAATAAAGCTACTCCTTGGAGAGATGCCAGTGTGCTGTTACCAGGGAGGGCCAGATGCTATGGGGC

[illegible]

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FIGURE 4572

MCEGPSRISGPIPPDPTLCPDNYRRPTSAQGRLEGNAKLDLLTSDRALDTTAPRGPCIGPGAGEILERGQRGVG
DVLLQLEGISLGPASLKRKDPKDHEKENLRRIREIQKRFRREQERSREQQPRPLKALWRSFKYDKVESRVKAQL
QEPGPASGTESAHFLRAHSRCGPGLPPIHVSSPQPTPPGPEAKEPGLGVDFIRHNARAARKRAPRRHSCSLQVLAQ
VLEQQRQAQEHYNATQKGHVPHYLLERRDLWRREAEARKQSQPDAMPFGHTRMPENQRLETTLTKLLQSQSQLLR
ELVLLPAGADSLRAQSHRAELDRKLVQVEEAIKIFSRPKVFVKMDD

FIGURE 4573

[illegible]

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FIGURE 4574

MKMLPGVDVFGTGSSARVLVPLLRAEGFTVEALWGKTEEEAKQLAEEMNIAFYTSRTDDILLHQDVLDVCISIPP
PLTRQISVKALGIGKNVVCEKAATSVD AFRMVTASRYYPQLMSLVGNVLRFLPAFVRMKQLISEHYVGAVMICDA
RIYSGSLLSPSYGWICDELMGGGGLHTMGTYIVDLLTHLTGRRRAEKVHGLLKT FVRQNAAIRGIRHVTSDDFCFF
QMLMGGGVCSTVTLNFNMPGAFVHEVMVVG SAGRLVARGADLYGQKNSATQEELLLRDSLAVGAGLPEQGPQDVP
LLYLKGMVYMVQALRQSFQGGQDRRTWDRTPVSMAASFEDGLYMQSVVDAIKRSSRSGEWEAVEVLTEEPDTNQN
LCEALQRNNL

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FIGURE 4575

GGAAGGGACAGTCGGCCGCAGACCGCGCTGGGTTGCCGCTGCCGCTGCCGCCATCGTGCCAGCCCCCTCGGGTCTC
CGTGAGGCCCGGGTGACGCTCCAGAATGGGGAGACAAGCCAATTTGGGAGCAGATTGGATCCAGCTTCATTCAACAT
TACTACCAGTTATTTGATAATGATAGAACCCAACTAGGCGCAATTTACATTGACGCGTCATGCCTTACGTGGGAA
GGACAACAGTTCAGGGGAAAGCTGCCATTGTGGAGAAGTTGTCTAGCCTTCCGTTCCAGAAAATTCAGCACAGC
ATCACCGCGCAGGACCATCAGCCCACTCCAGATAGCTGCATCATCAGCATGGTTGTGGGCCAGCTTAAGGCGGAT
GAAGACCCCATCATGGGGTTCCACCAGATGTTCTATTAAAGAACATCAACGATGCTTGGGTTTGCACCAATGAC
ATGTTTCAGGCTCGCCCTGCACAACCTTTGGCTGA~~CT~~CCTCTCAGCTAGGCACTCACGCTGTTTCTCTCCCTCC
TCTTCCCAATACTATTCCCACTCCTCCAGATGCTCCAAATATCATGCACAAATGAGCAGGGCCGCGGTGGGAGTG
GGCGCAGTGCCTGCTGCCACTGAGGTGTTGTGCATGATGTTTGGATGCTAGACTAGTTGCATCTGACGGGAGAA
GTTTGTGTTGTACCAGCGCATGCCTTGGAAGACTTAAGTAATGCAAAAGGTTGTCCTTTTTTTTTTTTTTTTTTT
TTTTAATCTACTGACAAGTTGCTCTAGTAACCCAAAGAGTGAAGGAGAAAGCAGCTGCCTCACCGCCCAGACAT
TGATTTGTTTCAGATGTTTCAATGCCTCATGATACAATAAAACCACAAAAATTTTCTTAACAAAAA

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FIGURE 4576

MGDKPIWEQIGSSFIQHYYQLFDNDRTQLGAIYIDASCLTWEGQQFQGKAAIVEKLSSLPFQKIQHSITAQDHQP
TPDSCIISMVVGQLKADEDPIMGFHMFLKNINDAWVCTNDMFRLALHNFG

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FIGURE 4577

ATTGCCCGGAGATGGCCGGCAGAGCCGCCGAGACGCCGAAGAGCCCGCCGCGCGAGGTGTAGACGGGGCAC
TGCCCTTCAGAGCAGGTCTCTGCCAGCCTCGCTGGAGAGGATGCCCTCGTGTCCGTG**ATG**GGCTGTGGGACAAGCAA
GGTCCTTCCCGAGCCACCCAAGGATGTCCAGCTGGATCTGGTCAAGAAGGTGGAGCCCTTCAGTGGCACTAAGAG
TGACGTGTACAAGCACTTCATCACAGAGGTGGACAGTGTGGCCCTGTCAAAGCCGGGTTCACAGCAGCAAGTCA
GTATGCACACCCCTGCCCCGGTCCCCGACTGCTGGCCACACGGAGCCTCCCTCAGAACCACCACGCAGGGCCAG
GGTAGCTAAGTACAGGGCCAAGTTTGACCCACGTGTTACAGCTAAGTATGACATCAAGGCCCTAATTGGCCGAGG
CAGCTTCAGCCGAGTGGTACGTGTAGAGCACCGGGCAACCCGGCAGCCGTATGCCATCAAGATGATTGAGACCAA
GTACCGGGAGGGGCGGGAGGTGTGTGAGTCGGAGCTGCGTGTGCTGCGTCGGGTGCGTCATGCCAACATCATCCA
GCTGGTGGAGGTGTTTCGAGACACAGGAGCGGGTGTACATGGTGTGAGCTGGCCACTGGTGGAGAGCTCTTTGA
CCGCATCATTGCCAAGGGCTCCTTCACCGAGCGTGACGCCACGCGGGTGTGTCAGATGGTGTGGATGGCGTCCG
GTATCTGCATGCACTGGGCATCACACACCGAGACCTCAAACCTGAGAATCTGCTCTACTACCATCCGGGCACCTGA
CTCCAAGATCATCATCACCGACTTCGGCCTGGCCAGTGTCTCGCAAGAAGGGTGTGACTGCTTGATGAAGACCAC
CTGTGGCACGCCTGAGTACATTGCCCCAGAAGTCTGGTCCGCAAGCCATACACCAACTCAGTGGACATGTGGGC
GCTGGGCGTCATTGCCTACATCCTACTCAGTGGCACCATGCCGTTTGAGGATGACAACCGTACCCGGCTGTACCG
GCAGATCCTCAGGGGCAAGTACAGTTACTCTGGGGAGCCCTGGCCTAGTGTGTCCAACCTGGCCAAGGACTTCAT
TGACCGCTGCTGACAGTGGACCCTGGAGCCCGTATGACTGCACTGCAGGCCCTGAGGCACCCGTGGGTGGTGAG
CATGGCTGCCTCTTTCATCCATGAAGAACCTGCACCGCTCCATATCCAGAACCTCCTTAAACGTGCCTCCTCGCG
CTGCCAGAGCACCAAATCTGCCAGTCCACGCGTTCCAGCCGCTCCACACGCTCCAATAAGTCACGCCGTGTGCG
GGAACGGGAGCTGCGGGAGCTCAACCTGCGCTACCAGCAGCAATACAATGGCT**TGAG**CCGCCTGGCTGTGCACACA
TGCAGCACGACCCAGCCTGGCCACACACTGTGGTGCCATCTGGGTCCGATGCCCTCTCTGGAGATAGGCCCTATGT
GGCCACAGTAGGTGAAGAATGTCTGGCTCCAGCCCTTCTCTGTGCCTTCAGCAGCCCTGTCTCTACCATGGG
CCTGGGCCAGGTGTGACAGAGTAGAGGTAGCACAGGGGGCTGTGACTCCCCCTGAACTGGGAGCCTGGCCTGGCA
CTGATACCCCTCTTGGTGGGCAGCTGCTCTGGTGGAGTTGGGAAGGGATAGGACCTGGCCTTCACTGTCTCCCTT
GCCCTTTGACTTTTTCCCAATCAAAGGGAAGTGCAGTGTGGGTGGAGTGTCTGTGGCCTCAGGACCCCTTTGGG
ACAGTTACTTCTGGGACCCCTTTCTCTCCACAGAGCCCTTCTCCCTGGTTTTACACATTCCCATGCATCCTGATC
CTTAAGATTATGCTCCAGTGGGAGACCCTGGTAGGCACAAAGCTTGTGCTTCACTGGAGCCCGTAGCCCTGGCT
AGGTGCAAAACAGCCCTCCACCTCCCAGCCAAGATCTGTCTTCCCTTCATGGTGCCTCCAGGGAGCCTTCTGGTCC
CAGGACCTCTGGTGGAGGGCCATGGCGTGGACCTTCAACCTTCTGGACTGTGTGGCCATGCTGGTCATCGGCTTG
CCCAGGCTCCAGCCTCTCCAGATTCTGAGGGGTCTCAGCCCACCGCCCTTGGTGCCTTCTTTGTAGAGCCACCG
CTACCTCCCTCTCCCCGTTGGATGTCCATTCCATTCCCAGGTGCCTCCTTCCCAACTGGGGGTGGTTAAAGGGA
GCCCCACTGCTGCTACCTGGGGAATGGGGCACCTGGGGGCCAAGGCAGAGGGAAGGGGGTCTCCCCGATAGGGTC
GAGTGTACAGCTGGGTTCATCTTTGGTGCAGCCCCATTGCCTTTTCCCTTCAGGCTCTGTTGCTCCCTCCTCT
GCAGCTGCACGAAGGCGCCATCTGGTGTCTGCATGGGTGTTGGCAGCCTGGGAGTGATCACTGCACGCCCCATCGT
GCACACCTGCCCATCGTGCACACCCACCCATGGTGCACACCTGTAGTCTCCATGAGGACATGGGAAGGTAGGAG
TTGCCGCCCTGGGGGAGGGTCCCGGGCTGCTCACCTCTCCCCTTCTGCTGAGCTTCTGCGCACCCCTCCCTGGAA
CTTAGCCATACTGTGTGACCTGCCTCTGAAACCAGGGTGCCAGGGGCACTGCCTTCTCACAGCTGGCCCTTGCCCC
GTCCACCCCTGTGCTGCTTCCCTTCACAGCATTAACCTTCCAGTCTGGGTCCCCTGAGCCTCAAGCTGGAAGGAG
CCCCTGCGGGAGGTGGGTGGGGTTGGGTGGCTGCTTTCCAGAGGCCTGAGCCAGAACCATCCCCATTTCTTTTG
TGGTATCTCCCCCTACCACAAACCAGGCTGGAACCCAAGCCCTTCTCCACAGCTGCCTTCAGTGGGTAGAATG
GGGCCAGGGCCCAGCTTTGGCCTTAGCTTGACGGCAGGGGCCCTGCCATTGCAGGAGGGTTTGGTTCCCACTCAG
CTTCTGCCGGTTCGGCAGCCTGGGCCAGGCCCTTTTCTGTCATGTCCACCTCCAGTGGGAACAAAATAAGAG
ACCACTCTGTGCCAAGTCGACTATGCCTTAGACACATCCTCCTACCGTCCCAATGCCCCCTGGGCAGGAGGCAG
TGGAGAACCAAGCCCCATGGCCTCAGAATTTCCCCCAGTTCCCCAAGTGTCTCTGGGGACCTGAAGCCCTGGGG
CTTACGTTCTCTTTGCCAGGGTGGGCCTGGTCTGAGGGCAGGACAGGGGGTTTGGAGATGTGGGCCTTTGAT
AGACCCACTTGGGCCTTCATGCCATGGCCTGTGGATGGAGAATGTGCAGTTATTTATTATGCGTATTCAGTTTGT
AAACGTATCCTCTGTATTAGTAAACAGGCTGCCTCTCCAGGGAGGGCTGCCATTTCATTCC

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FIGURE 4578

MCGGTSKVLPEPPKDVQLDLVKKVEPFSGTKSDVYKHFITEVDSVGPVKAGFPAASQYAHPCPGPPTAGHTEPPS
EPPRRARVAKYRAKFDPRVTAKYDIKALIGRGSFSRVVRVEHRATRQPYAIKMIETKYREGREVCESLRVLRRV
RHANIIQLVEVFETQERVYMMELATGGELFDRIIAKGSFTERDATRVLQMVLDGVRYLHALGITHRDLKPENLL
YYHPGTDSKI IITDFGLASARKKGDDCLMKTTCTGTP EYIAPEVLVRKPYTNSVDMWALGVIAYILLSGTMPFEDD
NRTRLRQILRGKYSYSGEPWPSVSNLAKDFIDRLLTVDPGARMTALQALRHPWVVSMAASSSMKNLHRISQNL
LKRASSRCQSTKSAQSTRSSRSTRSNKSRRVRERELRELNRLRYQQQYNG

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FIGURE 4579

ATCTGCCACG**ATG**TTGCTGCTCAGCCTGACCCTAAGCCTGGTTCTCCTCGGCTCCTCCTGGGGCTGCGGCATTCC
TGCCATCAAACCGGCACTGAGCTTCAGCCAGAGGATTGTCAACGGGGAGAATGCAGTGTTGGGCTCCTGGCCCTG
GCAGGTGTCCCTGCAGGACAGCAGCGGCTTCCACTTCTGCGGTGGTTCTCTCATCAGCCAGTCTTGGGTGGTCAC
TGCTGCCCCACTGCAATGTCAGCCCTGGCCGCCATTTTGTGTCTCGGCGAGTATGACCGATCATCAAACGCAGA
GCCCCTTGCAGGTTCTGTCCGICTCTCTCGGGCCATTACACACCCTAGCTGGAACCTTACCACCATGAACAATGACGT
GACGCTGCTGAAGCTCGCCTCGCCAGCCCAGTACACAACACGCATCTCGCCAGTTTGCCTGGCATCCTCAAACGA
GGCTCTGACTGAAGGCCCTCACGTGTGTACCACCGGCTGGGGTCGCCTCAGTGGCGTGGGCAATGTGACACCAGC
ACATCTGCAGCAGGTGGCTTTGCCCCTGGTCACTGTGAATCAGTGCCGGCAGTACTGGGGCTCAAGTATCACTGA
CTCCATGATCTGTGCAGGTGGCGCAGGTGCCTCCTCGTGCCAGGGTGACTCCGGAGGCCCTCTTGTCTGCCAGAA
GGGAAACACATGGGTGCTTATTGGTATTGTCTCCTGGGGCACCAAAACTGCAATGTGCGCGCACCTGCTGTGTA
TACTCGAGTTAGCAAGTTCAGCACCTGGATCAACCAGGTCATAGCCTACAAC**TGAG**CTCACCACAGGCCCTCCCC
AGCTCAACCCATTAAAGACCCAGGCCCTGTCCCATCATGCATTCAATGTCTGTCTTCTTGGCTCAGGAGAAAGAAG
AGGCTGTTGAGGGTCCGACTCCCTACTTGGACTTCTGGCACAGAAGGGGCTGAGTGAATCCTTGAGTAGCAGTGG
CTCTTCTAGAGTAGCCATGCCGAGGCCGGGGCCCCCACCCTCCTCCAGGGCAACCCCTTGGTCTTACAGCAAG
AAGCCAGAACTGTTGGAATGAATGGCAGCCCTCCCTGGAGAGGCAGCCTGTTTACTGAATACAGAGGATACGTTT
ACAAACTGAATACGCATAATAATAAATACTGCACATTCTCCATCCAAAAAAAAAAAAAAAAA

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FIGURE 4580

MLLLSLTSLVLLGSSWGCIPAIKPALSFSQRIVNGENAVLGSWPWQVSLQDSSGFHFCGGSLISQSWVVTAAH
CNVSPGRHFVVLGEYDRSSNAEPLQVLSVSRAITHPSWNSTTMNNDVTLLKLASPAQYTTTRISPVCLASSNEALT
EGLTCVTTGWGRLSGVGNVTPAHLQQVALPLVTVNQCRQYWGSSITDSMICAGGAGASSCQGD SGGPLVCQKGNT
WVLIGIVSWGTKNCNVRAPAVYTRVSKFSTWINQVIAYN

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FIGURE 4581A

GGCACGAGGGGCGGGGACAGCGGCGGGGACAGCGGCGGGCGGGCTGGGACGCGGGGTGCGGCGGGGCGGAGCCCCG
ACGATGCCTCACTTCACCGTGGTGCCAGTGGACGGGCGGAGGCGGCGGCGACTATGACAACCTCGAGGGGCTCAGT
TGGGTGGACTACGGGGAGCGCGCCGAGCTGGATGACTCGGACGGACATGGCAACCACAGAGAGAGCAGCCCTTTT
CTTTCCCCCTTGAGGGCTTCCAGAGGAATTGACTACTATGACAGGAACCTGGCACTGTTTGAGGAAGAGCTGGAC
ATCCGCCCCAAAGGTATCGTCTCTTCTGGGAAAGCTCGTCAGCTACACCAACCTCACCCAGGGCGCCAAAGAGCAT
GAGGAGGCGGAGAGTGGGGAGGGCACCCGCCGAGGGCAGCCGAGGCACCCAGCATGGGCACCCCTCATGGGGGTG
TACCTGCCCTGCCTGCAGAATATCTTTGGGGTTATCCTCTTCTGCGGCTGACCTGGATGGTGGGCACAGCAGGT
GTGCTACAGGCCCTCCTCATCGTGCTTATCTGCTGCTGTTGTACCCTGCTGACGGCCATCTCCATGAGTGCCATC
GCCACCAACGGTGTGGTTCCAGCTGGGGGCTCCTATTTTCATGATCTCTCGTTCACTGGGGCCAGAATTTGGAGGT
GCTGTGGGCCTGTGCTTCTACCTGGGAACAACATTTCGCAGCAGCCATGTACATCCTGGGGGCCATCGAGATCTTG
CTGACCTACATTGCCCCACCAGCTGCCATTTTTTACCCATCGGGTGCTCATGACACGTGGAATGCCACTTTGAAC
AATATGCGTGTGTATGGGACCATTTTCTGACCTTCATGACCCTGGTGGTGTGTTGTGGGGGTCAAGTATGTGAAC
AAATTTGCCCTCGCTCTTCTGGCCTGTGTGATCATCTCCATCCTCTCCATCTATGCTGGGGGCATAAAGTCTATA
TTTGACCCCTCCCGTGTTTCCGGTATGCATGCTGGGCAACAGGACCCTGTCCCGGGACCAGTTTGACATCTGTGCC
AAGACAGCTGTAGTGGACAATGAGACAGTGGCCACCCAGCTATGGAGTTTCTTCTGCCACAGCCCCAACCTTACG
ACCGACTCCTGTGACCCCTACTTCATGCTCAACAATGTGACCGAGATCCCTGGCATCCCCGGGGCAGCTGCTGGT
GTGCTCCAGGAAAACCTGTGGAGCGCCTACCTGGAGAAGGGTGACATCGTGGAGAAGCATGGGCTGCCCTCCGCA
GATGCCCCGAGCCTGAAGGAGAGCCTGCCTCTGTACGTGGTTCGCTGACATCGCCACATCCTTCACCGTGCTGGTC
GGCATCTTCTTCCCTTCTGTAACAGGCATCATGGCTGGCTCAAACCGCTCTGGGGACCTTCGTGACGCCCAGAAG
TCTATCCCTGTGGGGACCATTTCTGGCCATCATTACAACCTCCCTCGTGTACTTCAGCAGTGTGGTTCTCTTTGGT
GCCTGCATTGAGGGTGTGGTTCTCCGGGACAAGTATGGCGATGGTGTGACGAGGAACCTTGGTGGTGGGCACACTG
GCCTGGCCTTCACCTGGGTTCATCGTCATCGGCTCCTTCTTTTCAACGTGTGGCGCTGGCCTCCAGAGCCTCACA
GGGGCACCACGCCTATTGCAGGCCATTGCCAAGGACAACATCATCCCTTCCCTCCGGGTGTTTGGCCACGGGAAG
GTGAATGGTGAACCCACATGGGCACTCCTCCTGACGGCACTCATCGCCGAGCTGGGCATCCTCATCGCCTCCCTC
GACATGGTGGCCCCCATCTTATCCATGTTCTTCTGATGTGCTACCTGTTCTGTAACCTCGCCTGTGCGGTGCAG
ACACTCCTGAGGACCCCCAACTGGCGGCCCCGGTTCAAGTACTATCACTGGGCGCTGTCTTCTGCGGCATGAGT
CTCTGCCTGGCCCTTATGTTTGTCTCCTCCTGGTACTATGCCCTGGTGGCCATGCTCATCGCCGGCATGATCTAC
AAATACATCGAGTACCAAGGGGCTGAGAAGGAGTGGGGTGACGGGATCCGAGGCCTGTCCCTGAGCGCTGCCCGC
TACGCGCTGTTGCGGCTGGAGGAGGGGCTCCTCACACCAAGAACTGGCGGCCGAGCTGCTGGTGTGCTGAAG
CTGGACGAGGACCTCCACGTGAAGTACCCGCGGCTCCTCACCTTCGCCTCCCAGCTCAAGGCTGGCAAGGGCCTG
ACCATGTTGGTTCTGTCTATCCAGGGGAGCTTCTTGAGAGCTATGGCGAGGCTCAGGCCGCCGAGCAGACCATC
AAGAACATGATGGAAATTGAGAAGGTGAAGGGCTTCTGCCAGGTGGTGGTGGCCAGCAAGGTGCGGGAGGGGCTG
GCCACCTCATCCAGTCCCTGTGGCCTGGGAGGCATGCGGCATAACTCCGTGGTGTGCTGGGCTGGCCCTACGGCTGG
CGACAGAGCGAGGACCCCCGTGCCTGGAAGACCTTCATTGACACCGTGCGCTGCACTACGGCTGCCACCTGGCC
CTGCTCGTGCCCAAGAACATCGCCTTCTACCCCAGCAACCACGAGCGCTACCTGGAGGGCCACATAGACGTGTGG
TGGATCGTGACGATGGTGGCATGCTCATGCTTCTGCCCTTCTGCTGCGCCAGCATAAAGGTCTGGAGGAAGTGC
CGGATGCGCATCTTCACAGTGGGCCAGATGGATGACAACAGCATCCAGATGAAGAAGGACCTGGCTGTCTTTCTG
TACCATCTGCGCCTTGAGGCCGAGGTGGAGGTGGTGGAGATGCATAACAGTGACATCTCTGCATACACCTACGAG
CGGACGCTGATGATGGAGCAGCGGTGCGAGATGCTGCGGCAGATGAGACTGACCAAGACTGAGCGGGAGCGAGAA
GCCCAGCTGGTCAAGGATCGGCACCTCGGCCCTGAGGCTGGAGAGCCTGTACTCGGACGAGGAAGATGAGTCTGCA
GTGGGGGCTGACAAGATCCAGATGACGTGGACCAGGGACAAGTACATGACTGAGACCTGGGACCCCAGCCATGCC
CCTGACAATTTCCGGGAGCTGGTGCACATTAAGCCGGACCAATCCAATGTGCGGCGCATGCACACTGCTGTGAAG
CTCAATGAAGTCATTGTACGCGCTCCACGACGCCCCGCTGGTTCTCCTAAACATGCCTGGCCACCCAGGAAC
AGTGAGGGCGACGAGAACTACATGGAGTTCTCGAGGTGCTGACCGAGGGCCTTGAGCGGGTGTGTTGGTGC
GGTGGTGGCCGTGAAGTCATCACCATCTACTCCTTGAGCCCCAGTGTATCTTGTGGCCTGGAGTCGAGGTCTTGGC
CAGGACATAACAAGCTGTGGTCTGGGGTAACAGCCTCTTCCCAGCACCCACCTGCCAGCCCTGCTTGCCTGGCCC
TGTCTTGACCCAGCTTTGCTAGGTCTCCTTGGAACCAGGCCTGGGCCTCAAATGGAGATGGATCCAGGTCT
TGTGGGACCTGGGATGTTTGGGGACTTTACTATCTAGCACCCAGTAGGCCTGTCTTGGCCAGAGAAGACTGGT

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FIGURE 4581B

AGGGGCCGAGTGGGGTTTGAAGGCAGCCGGCCCCGCCCCAGCCCAGGAGCGCTATTTATTGCATATTTATTGTTTG
GATGTCACCATCAGAGACGAAGGGAAGGGTAGCCAGGGAGGGAGTCCAGCCCAGCTGCCTGCAGGAAGATCTGGC
TCAGTCTACTATGGGCAGGGCCCCCACCAGCTGAGCCGAATGGAGACAGCTGAGCTGAGGCCTGACTTTTTCA
ATAAAACATTGTGTAGTTCTGGGCAA

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FIGURE 4582

MPHFTVVPVDGPRRGDYDNLEGLSWVDYGERAELEDDSDGHNHRESSPFLSPLEASRGIDYYDRNLALFEEELDI
RPKVSSLLGKLVSYTNLTQGAKHEEEAESGEGTRRRRAAEAPSMGTLMGVYLPCLQNIFGVILFLRLTWMVGTAGV
LQALLIVLICCCCTLLTAISMSAIATNGVVPAGGSYFMISRSLGPEFGGAVGLCFYLGTTFAAAMYILGAIEILL
TYIAPPAAIFYPGSAHDTSNATLNNMRVYGTIFLTFMTLVVFVGKYNKFASLFLACVIISILSIYAGGIKSIF
DPPVFPVCMLGNRTLSDQFDICAKTAVVDNETVATQLWSFFCHSPNLTTDSCDPYFMLNNVTEIPGIPGAAAGV
LQENLWSAYLEKGDIVEKHGLPSADAPSLKESLPLYVVADIATSFTVLVGIFFPSTVGIMAGSNRSGDLRDAQKS
IPVGTILAIITTSLVYFSSVVLFGACIEGVVLRDKYGDGVSRLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTG
APRLLQAIKDNIIIPFLRVFGHGKVNGEPTWALLLTALIAELGILIASLDMVAPILSMFFLMCYLFVNLACAVQT
LLRTPNWRPRFKYYHWALSFLGMSLCLALMFVSSWYALVAMLIAGMIYKYIEYQGAKEWGDGIRGLSLSAARY
ALLRLEEGPPHTKNWRPQLLVLLKLDEDLHVKYPRLLTFASQLKAGKGLTIVGSVIQGSFLESYGEAQAAEQTIK
NMMEIEKVKGFCQVVVASKVREGLAHLIQSCGLGGMHRNSVVLGWPGWRQSEDPAWKTFIDTVRCTTAAHLAL
LVPKNIAFYPSNHERYLEGHIDVWWIVHDGGMMLLPFLLRQHKVWRKCRMRIFTVAQMDDNSIQMKDLAVFLY
HLRLEAEVEVEMHNSDISAYTYERTLMMEQRSQMLRQMRLTKTEREREAQLVKDRHSALRLESLSYDEEDESAV
GADKIQMTWTRDKYMTETWDPSHAPDNFRELVIKPDQSNVRRMHTAVKLNEVIVTRSHDARLVLLNMPGPPRNS
EGDENYMEFLEVLTEGLERVLLVRGGGREVITTIYS

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FIGURE 4583

ATCGCCAGCCTCCAGTCCTGCCTCCACGACGCGCCCTTCCCCAAGGCTGGCCGGGTCTGGATGTCGCCATCCCCCT
ATTCCGAGCTACAGACCTCGCAGCTGAACCTTTAAAAAGAACCTCGCTTCTTCCACGGTGCTCCAGCTCCACA
CACCGTACTGAGCCTCGCCAGCCACCGTACGCGAGGTGCGGGCGCGTCCGTGACGTCACTGATGTGCGCTTCTCC
CGCACTAAGGGAACATGGCTCTAACGCGGCCGGTGC GGCTCTTTTCCCTCGTGA CTGGTTGCTCCTGGCGCCG
CGACGGGGCCTCAGGTCGCGAGTCCCGACGAACCCCTGCCGGTGGTGCGCATCCAGTGGCTCTACAGCGGCAG
TTGGAACAGCGGCAGAGCAGGCGGCGGAACCTCCCGAGGCCGGTGTGTTTCGACCCGGACCGCTGCTGTTTCG
GCGCGGCGGCCGGAGTTGAACCAGCCGGCGCGCCTCACACTGGGCCGTTGGGAGCGCGCGCCGCTAGCCTCTCAA
GGCTGGAAGAGTCGACGCGCGCGTCCGGGACCACTTCTCCATCGAGCGCGCGCAACAGGAGGCGCCAGCGGTGCGA
AAGCTCTCGTCTAAGGGCAGCTTTGCTGACCTGGGCCCTGGAGCCCCGTGTGCTGCACGCACTACAGGAGGCTGCG
CCTGAAGTCGTTTACGCCACAACCGTGCAGTCTAGCACCATCCCCCTCACTACTTCGCGGCCGCCATGTCGTTTGC
GCCGCGAAACCGGCAGTGGCAAGACTCTCAGCTACCTCCTGCCGCTGCTTCAACGGCTCTTGGGCCAGCCAAGC
CTGGACTCCCTTTCCTATCCCCGCGCCCCGAGGCCTGGTCCTTGTTTCCTTCCCGAGAATTGGCCCCAACAGGTGCGG
GCTGTGGCCCAACCTTGGGCCGCTCCTTGGGCCGTGCTGGTGCGGGACCTGGAGGGAGGCCACGGCATGCGTAGG
ATCAGGCTGCAGCTGTCCAGACAGCCTTACAGCAGATGTGCTTGTGGCCACTCCAGGGGCTCTGTGGAAGGCCCTG
AAAAGTCGACTGATCAGTCTGGAGCAACTCTCCTTCTTGGTGTGGATGAGGCAGACACACTGCTGGATGAAAGC
TTCTTGGAACCTGGTGGACTACATCTTAGAGAAGAGCCACATAGCAGAAGGCCAGCTGACTTGGAAGACCCCTTC
AATCCCAAAGCTCAGTTAGTGCTGGTAGGAGCCACATTTCCCGAAGGTGTAGGCCAGTTGCTGAATAAAGTCGCC
AGCCCAGATGCTGTACCAACCATCACAGCTCCAAGCTCCACTGTATCATGCCTCATGTGAAACAGACATTTCTG
AGACTGAAGGGAGCAGATAAGGTGGCCGAGCTGGTGCACATCCTCAAGCATCGTGACAGAGCAGAAAGGACTGGT
CCCTCAGGAACCTGTTCTGGTGTCTGTAAATAGCTCCAGCACTGTGAACCTGGCTGGGATATATTCTGGATGACCAC
AAAATCCAACACCTAAGGTTGCAGGGGCAAATGCCAGCCTTGATGAGGGTAGGAATCTTCCAGTCCCTCCAGAAG
AGCTCCCGAGACATACTTCTCTGCACAGACATAGCCTCTCGGGGCTGGACAGCACTGGTGTGGAGCTGGTTGTC
AATTATGATTTCCCCCAACGCTGCAAGATTACATCCACAGAGCAGGGAGAGTGGGCCGTGTGGGAGCGAGGTG
CCAGGCACCGTCATCAGTTTTGTGACCCATCCCTGGGATGTGAGCCTGGTTCAGAAGATTGAGCTGGCGGCTCGC
CGAAGGAGAAGTCTTCCAGGACTAGCATCCTCGGTGAAAGAGCCTTTGCCCCAAGCAACCTGATTTTGACAAATC
TGATTAAAAATGTGATGCTAGAACAGGGATCTTTCCAGTATCTTGAGTGGGTGACCACACTTGTGAGTGGGAGGC
TCTGGGCTGCCCTGTGCGCTCCTTGAGGGCGGGATGAACTGCTTTGTGACTTGGAAGGTACGCTGCTGGCCAGC
ATTGGAGAAGAAGCTGCTGAGCATGGCTTTCTGTAGTCTTTAGCAAGACACAAGTGGATTTTGACTTTGTATCAT
GTCATGATTTCTAACAATAAATGATGTTTTTATGTGC

FIGURE 4584

[illegible]

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FIGURE 4585

MILNSLSLCYHNKLILAPMVRVGTLEPMRLALDYGADIVYCEELIDLKMIQCKRVVNEVLSTVDFVAPDDRVRVFR
TCEREQNRVVFQMGTSDAERALAVARLVENDVAGIDVNMGCPKQYSTKGGMGAALLSDPDKIEKILSTLVKGTRR
PVTCKIRILPSLEDTLVLVKRIERTGIAAIAVHGRKREERPQHPVSCEVIKAIADTLVIPVIANGGSHDHIQQYS
DIEDFRQATAASSVMVARAAMWNPSIFLKEGLRPLEEVMQKYIRYAVQYDNHYTNTKYCLCQMLREQLESPQGRL
LHAAQSSREICEAFGLGAFYEETTQELDAQQARLSAKTSEQTGEPAEDTSGVIKMAVKFDRRAYPAQITPKMCLL
EWCRRKLAQPVYETVQRPLDRLFSSIVTVAEQKYQSTLWDKSKKLAEQAAAIVCLRSQGLPEGRIDGEESPSLHK
RKREAPDQDPGGPRAQELAQPGDLCKKPFVALGSGEESPLEGW

FIGURE 4586A

CGGCTGCGGTTCTCTGGTGCTGCTCGGCGCGCGGCCAGGCTTTTGGAAACGGAACGCTCGGCGCTCGCGGGGCCCGGCC
GGAAAGTTTGGCGTGGAGTCGCGACCTCTTGGCCCCGCGCGGCCCGGCATGAAGCGGCGTTGAGGAGCTGCTGCCG
CCGCTTGCCGCTGCCGCCGCCGCCGCTGAGGAGGAGCTGCAGCACCCCTGGGCCACGCCGATGACTACTGCAAAC
TGTGGCGCCACGACGAGCTCGACTTCAAACCTGCTCTTTGGCGAGGACGGGGCGCCGCGCCGCCCGCCCCGGGGC
TCGCGGCCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTTTAATGTAGATCCACCTCCATCTACT
TTAACCACACCACCTTTGCTTACCACATCATGGATTACCGTCTCACTCTTCTGTTTTGTACCATCGTTTCAGCTC
CAAAGTCACAAAAACTATGAAGGAACCTGTGAGATTCTGAATCTAAATATAGCCCATTAGGTGGTCCCAAACCC
TTTGAGTGCCCCAAGTATTCAAATTACATCTATCTCTCCTAACTGTCAATCAAGAATTAGATGCACATGAAGATGAC
CTACAGATAAAATGACCCAGAACGGGAATTTTTGGAAAGGCCCTTCTAGAGATCATCTCTATCTTCCTCTTGAGCCA
TCCTACCGGGAGTCTTCTCTTAGTCCTAGTCCTGCCAGCAGCATCTCTTCTAGGAGTTGGTTCTCTGATGCATCT
TCTTGTGAATCGCTTTCACATATTTATGATGATGTGGACTCAGAGTTGAATGAAGCTGCAGCCCGATTTACCCTT
GGATCCCCCTCTGACTTCTCCTGGTGGCTCTCCAGGGGGCTGCCCTGGAGAAGAACTTGGCATCAACAGTATGGA
CTTGGACACTCATTATCACCCAGGCAATCTCCTTGCCACTCTCCTAGATCCAGTGTCACTGATGAGAATTGGCTG
AGCCCCAGGCCAGCCTCAGGACCCTCATCAAGGCCACATCCCCCTGTGGGAAACGGAGGCACCTCAGTGTGAA
GTTTGTATGCTGGGTCCCTTTCACCCCATCACTCACCTGTTCCCTTACCTGGTCACTCCCCCAGGGGAAGTGTG
ACAGAAGATACGTGGCTCAATGCTTCTGTCCATGGTGGGTGAGGCCTTGCCCTGCAGTTTTTCCATTTCACTAC
TGTGTAGAGACTGACATCCCTCTCAAAACAAGGAAAACCTTCTGAAGATCAAGCTGCCATACTACCAGGAAAATTA
GAGCTGTGTTTCAAGATGACCAAGGGAGTTTATCACCCAGCCCGGAGACTTCAATAGATGATGGCCTTGGATCTCAG
TATCCTTTAAAGAAAGATTATGTGGTGATCAGTTTCTTTCAGTTCTTTCACCCCTTTACCTGGAGCAAACCAAAG
CCTGGCCACACCCCTATATTTTCGCACATCTTCATTACCTCCACTAGACTGGCCTTTACCAGCTCATTTTGGACAA
TGTGAACCTGAAAATAGAAGTGCAACCTAAAACCTCATCATCGAGCCCATATGAAAACCTGAAGGTAGCCGAGGGGCA
GTAAAAGCATCTACTGGGGGACATCCTGTTGTGAAGCTCCTGGGCTATAACGAAAAGCCAATAAATCTACAAATG
TTTATTGGGACAGCAGATGATCGATATTTACGACCTCATGCATTTTACCAGGTGCATCGAATCACTGGGAAGACA
GTCGCTACTGCAAGCCAAGAGATAATAATTGCCAGTACAAAAGTTCTGGAAATTCCACTTCTTCCTGAAAATAAT
ATGTCAGCCAGTATTGATTGTGTCAGGTATTTTGAAACTCCGCAATTCAGATATAGAACTTCGAAAAGGAGAACT
GATATTGGCAGAAAGAATACTAGAGTACGACTTGTGTTTTCTGTGTACACATCCCACAGCCCAGTGGAAAAGTCCTT
TCTCTGCAGATAGCCTCTATACCCGTTGAGTGCTCCCAGCGGTCTGCTCAAGAACTTCTTCATATTGAGAAGTAC
AGTATCAACAGTTGTTTCTGTAAATGGAGGTTCATGAAATGGTTGTGACTGGATCTAATTTTCTTCCAGAATCCAAA
ATCATTTTTTCTTGAAAAGGACAAGATGGACGACCTCAGTGGGAGGTAGAAGGGAAGATAATCAGGGAAAAATGT
CAAGGGGGCTCACATTGTCTTGAAGTTCTCCATATCATAACCCAGCAGTTACAGCTGCAGTGCAGGTGCACCTTT
TATCTTTGCAATGGCAAGAGGAAAAAAAGCCAGTCTCAACGTTTTACTTATACACCAGTTTTGATGAAGCAAGAA
CACAGAGAAGAGATTGATTTGTCTTCAGTTCCATCTTTGCCTGTGCCCTCATCTGTCTCAGACCCAGAGGCCTTCC
TCTGATTACAGGTGTTTACATGACAGTGTACTGTGAGGACAGAGAAGTTGATTTGCTCCATCCCACAAACATAT
GCATCCATGGTGACCTCATCCCATCTGCCACAGTTGCAGTGTAGAGATGAGAGTGTTAGTAAAGAACAGCATATG
ATTCTTCTCCAATTGTACACCAGCCTTTTCAAGTCACACCAACACCTCCTGTGGGGTCTTCTCTATCAGCCTATG
CAAATAATGTTGTGTACAATGGACCAACTTGTCTTCTCTATTAATGCTGCCTCTAGTCAAGAATTTGATTCAAGT
TTGTTTTCAGCAGGATGCAACTCTTTCTGGTTTAGTGAATCTTGGCTGTCAACCACTGTCATCCATACCATTTCAT
TCTTCAAATTCAGGCTCAACAGGACATCTCTTAGCCCATACACCTCATTCTGTGCATACCCTGCCTCATCTGCAA
TCAATGGGATATCATTGTTCAAATACAGGACAAAGATCTCTTCTCTCCTCAGTGGCTGACCAGATTACAGGTCAG
CCTTCGTCTCAGTTACAACCTATTACATATGGTCCTTCACATTACAGGGTCTGCTACAACAGCTTCCCCAGCAGCT
TCTCATCCCTTGGCTAGTTACCGCTTTTCTGGGCCACCATCTCCTCAGCTTCAGCCTATGCCTTACCAATCTCCT
AGCTCAGGAACCTGCCTCATCACCGTCTCCAGCCACCAGAATGCATTCTGGACAGCACTCAACTCAAGCACAAAGT
ACGGGCCAGGGGGGTCTTTCTGCACCTTCATCCTTAATATGTACAGTTTGTGTGATCCAGCGTCATTTCCACCT
GATGGGGCAACTGTGAGCATTAAACCTGAACCAGAAGATCGAGAGCCTAACTTTGCAACCATTGGTCTGCAGGAC
ATCACTTTAGATGATGACCAATTTATATCTGACTTGGAAACACCAGCCATCAGGTTTCAGCAGAGAAATGGCCTAAC
CACAGTGTGCTCTCATGTCCAGCTCCTTTCTGGAGAATCTAGAGGTGAACGAGATAATTGGGAGAGACATGTCCC
AGATTTCTGTTTTCCAAAGGAGCAGGGGTGAGCAGGCAGGCTCCCCCTCCCGAGTCTGAGTCCCTGGATTTAGGAA
GATCTGATGGGCTCTAACAGTGCTTACTGCAGCCTTGTGTCCACCACCAACTTCTCAGCATGTTTTCTCTCCTTGG

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FIGURE 4586B

ACCTTGGGTTTCCAACCTCTGCAGCCTTCAGGTCTGGGGCCAGGAGTGGGACCCACCATTTGTGGGGAAAGTAGCA
TTCTTCCACCTCAGGCCTTGGGTAGATTTGGCAAAAGAACAGGAGCAGCATAGGCTGTTTGAGCTTTGGGGAAAT
GAACTTTGCTTTTTATATTTAACTAGGATACTTTTATATGATGGGTGCTTTGAGTGTGAATGCAGCAGGCTCTCT
TGTTTCCGAGGTGCTGCTTTTGCAGGTGACCTGGTTACTTAGCTAGGATTGGTGATTTGTACTGCTTTATGGTCA
TTTGAAGGGCCCTTTAGTTTTTATGATAATTTTAAAATAGGAACCTTTGATAAGACCTTCTAGAAGCC

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FIGURE 4587

MTTANCGAHDELDFKLVFGEDGAPAPPPPGSRPADLEPDDCASIYIFNVDPPTLTTPLCLPHHGLPSHSSVLS
PSFQLQSHKNYEGTCEIPESKYSPLGGPKPFECPSIQITSISPNCHQELDAHEDDLQINDPEREFLEPSPRDHLY
LPLEPSYRESSLSPSPASSISSRSWFS DASSCESLSHIYDDVDSELNEAAARFTLGSPLTSPGGSPGGCPGEETW
HQQYGLGHSLSRQSPCHSPRSSVTIDENWLSRPASGPSSRPTSPCGKRRHSSAEVCYAGSLSPHHSPVPSPGHS
PRGSVTEDTWLNASVHGGSGGLGPAVFFPQYCVETDIPLKTRKTSQDQAAILPGKLELCSDDQGSLSPARETSIDD
GLGSQYPLKKDSCGDQFLSVSPFTWSKPKPGHTPIFRTSSLPLDWPLPAHFGQCELKIEVQPKTHHRAHYETE
GSRGAVKASTGGHPVVKLLGYNEKPINLQMFIGTADDRLRPHAFYQVHRITGKTIVATASQEI IASTKVLEIPL
LPENNMASASIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHIPQPSGKVLSQLIASIPVECSQRSQAQELP
HIEKYSINSCSVNGGHEMVVTGSNFLPESKII FLEKGQDGRPQWEVEGKIIREKCQGAHIVLEVPPYHNPVATAA
VQVHFYLCNGKRKKSQSQRFTYTPVLMKQEHREEIDLSSVPSLPVPHPAQTQRPSSDSGCSHDSVLSGQRS LICS
IPQTYASMVTSSHLPQLQCRDESVSKEQHMIPIVHQPFQVTPTPPVGSSYQPMQTNVVYNGPTCLPINAASSQ
EFDSVLFQQDATLSGLVNLGCQPLSSIPFHSSNSGSTGHLLAHTPHSVHTLPHLQSMGYHCSNTGQRSLS SPVAD
QITGQPSSQLQPITYGPSHSGSATTASPAASHPLASSPLSGPPSPQLQPMQPYQSPSSGTASSPSPATRMHSGQHS
TQAQSTGQGGLSAPSSSLICHSLCDPASFPDPGATVSIKPEPEDREP NFATIGLQDITLDDDQFISDLEHQPSGSA
EKWPNH SVLSCPAPFWRI

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FIGURE 4588A

GGCACGAGGGCACCATTGGATGCTTACTTTTCAGGTGAGCAGGACCCAGCCTGACTTGCCAGCTACCACCTTATGAT
TCAGAGACTAGGAATCCTGTATCTGAAGAGTTGCAGGTGTCTAGTAGTTCTGATTCTGACAGTGACAGCTCTGCA
GAGTATGGAGGGGTTGTTGACCAGGCAGAGGAATCTGGAGCTGTCAATTTTAGAAGAGCAACTAGCAGGTGTCTCA
GCAGAGCAAGAAGTTACATGTATCGATGGAGGCAAGACCCTCCCCAAACAGCCATCTCCCCAGAAGTCTGAGCCT
CTGCTACCTTCTGCTTCTATGGATGAGGAAGAAGGGGACACTTGTACAATATGTCTGGAACAGTGGACCAATGCT
GGGGACCACCGGCTCTCAGCATTACGCTGTGGGCATCTCTTTGGGTATAGGTGCATTTCCACGTGGCTTAAAGGA
CAAGTACGAAAATGTCCCCAGTGCAACAAGAAAGCCAGGCACAGTGACATTGTCTGCTCTTTATGCCCGAACCCCTG
AGAGCTTTGGACACTAGTGAACAGGAGCGC**ATG**AAAAGTTCCCTACTGAAGGAACAGATGCTAAGGAAACAGGCC
GAGTTAGAATCAGCACAGTGCCGACTCCAACCTGCAGGTCTCTACTGATAAGTGCACTAGGCTTCAAAGGCGTGTT
CAGGACTTGCAAAAACCTTACGTACATCAAAGTCAGAATTTACAGCAACCCAGGGGCTCCCAAGCATGGGTCTCTG
AGCTGCTCACCCTCCAGCCAGGGCCAGCACAAAGCACAAGTACCACCTTCCAAAAGACCTTACAGTATCTCAGGCA
GGAAACTGCCGGATCATGGCATACTGTGATGCTCTGAGCTGCCTGGTGATATCACAGCCTTCTCCTCAGGCCTCT
TTTCTTCCAGGCTTTGGTGTTAAGATGTTGAGTACTGCCAACATGAAGAGCAGTCAGTACATTCCGATGCATGGC
AAACAGATCCGTGGACTGGCGTTTAGCAGTTACCTCAGAGGCTTGCTACTCTCTGCTTCCCTAGACAACACTATT
AAACTGACCAGCCTGGAGACAAATACCGTGGTCCAGACTTATAATGCTGGACGTCTGTCTGGAGCTGTTGCTGG
TGTCTTGATGAGGCTAACTACATCTATGCTGGACTGGCCAATGGTTCAATTCTGGTATATGACGTGCGAAACACG
AGCAGTCATGTGCAGGAGTTAGTAGCTCAGAAAAGCCAGATGCCCACTGGTCTCCCTGTCTACATATGCCAGAGCT
GCCTCAGCTGCATTTCCATATGGTGGGGTGCTGGCTGGAACCTTGGAGGATGCTTCATTCTGGGAACAGAAAATG
GACTTTTCTCATTGGCCTCATGTGCTGCCCTTGGAGCCAGGGGGCTGCATAGACTTTTACAGACAGAGAACAGCTCC
CGGCACTGTCTTGTGACCTACAGGCCTGATAAAAATCACACCACCATAACGAAGTGTGCTGATGGAAATGTCCTAC
CGACTGGATGACACTGGAAATCCAATCTGCTCCTGCCAGCCTGTACATACATTTTTTGGAGGACCTACTTGCAAA
CTATTGACCAAAAATGCCATTTTCCAAAGCCCAGAGAATGATGGCAACATCCTGGTGTGTACTGGGGATGAAGCA
GCAAATCTGCCCTGCTGTGGGATGCTGCCAGTGGCTCGTTGCTCCAGGACCTACAGACCGATCAGCCTGTGTTG
GACATCTGCCCATTTGAGGTGAACCGTAACAGCTACTTGGCTACCTAACAGAGAAGATGGTCCACATCTATAAG
TGGGAG**TGA**CTGTGGTCTCGAAACCTTGAAGGCATGCTGCTGGTTAGATGTTGTTTGCTAGCGCCTAGCAGCCCC
AAGCAAGATCCCTGTTTATTGTCTGCAGTCTAGAACATTGGGAATCATGGTTTGTGTTGCTAGTATGATTCTAG
GACCCTAGGTCACTGAGACACTACAGATTGTGTATCTGTTATGTCCACTAAAAGAGTAATTGATGGGTACTTTAT
CTACATTATCCATTTCTTGGGTTTAAAGCCTTCATTAACCATTATTGTATGTTGGAAATCTTATTTTCTTTATT
TTCTGTGTGACTTTCTGGACCTTAGAGAGTGTCTCTCATCTAGGATGTGAGTGGGCATCAAGCATTTTCTG
GGGAATATGACATCCCATCTGAGTTGTCTCTCACTTAAGTATCCTTGAAGGGACTAACCATCGTCTTGGTACTG
ATTTGATGCAACGTAGATGTAAAAGAGTATTATTCAGTTGAACACAAGAGGGCACTGTAGAACCTTGTGTCCGGT
TTATTTCTGACCTTGAAGGCTGACAATCTTTTAGTAACCTTGTCTCATCTCCACACAAGTGTGTGATAGCACCT
GGGTGTGCTTTGTGGCAATAACACTTGTGTTCCAGGTGTGAAGTGCTGGGACATTGGCAGGCCCCAGTGATGGAAG
CAGCTAGTGAACGATTCCCTTTGCTAATGCCTAGTGCATTAAGTTTATTGCTTTGCGAAAGGTAAGGAAAGAGGC
CAGTTGTTTGAGCGGTGGGGAAGATTTTGTTTTTTCTAGCCAGCTTAGGATCTCAGGATTGGTTTTATCCAAGCT
AGTGCTTTGAAGAACACTATCTCTTGCCAGGAAAAGATGAGTGATAGGTCAAAGCTTTTACTTGAGTCTCCCTA
GTGTCAGAGATCAGGAGAAAAGACATAAGAGAATTTACAAAAGCTATTTCAGACTGCTATTGAAAACATGAGAAGA
ACTTGTCTCCCATTTTGGAGAGTTCCTATCTAAATAAAGCCAATTCCTCAGACTGAGGGGCTGTTCTTAAAGTGTTT
TTTATACATTCCAGTTATCCAGTTAAAGCCTTCCCCATGTGAAGCTGATGTTTGATTCCAGTTTCCCTTGATTG
CCTCCCTAACCTTTTCTAGGGCTCAGTTTGTATTTCTTTGCCTTGCCTCAGACTACTTTGCCAACCCACTTCCAC
AACAGAATATGCTTCAAGATGTGGGCAGGTGAGTGTCTGTTTATGGGAGAAAATGGCTTAACAGTCTGATTTTC
TCAAATGATTATTGAAGAGTTGTTATCGTTTTTATTATAAAACACTTCTGACCTGTCAATTCAAGAGCTGTTTCT
AGGATCTTTCTCTCCGGCAAGGGGTTGTTGCACTAGATTTCCCAGAGTTCCAAGTTCTAGTTGTGCCTTTTAAAT
GACCCTTTAATATTTTAGGACATAATTTTTTCTTTTTTAAATTTTTTGTAGAAATAGATGTTTCACTACGTTG
TCCAGGCTGGTCTTGGACTCCTGGCCTCAAGCAATCCTCCACCTCAGCCTCCTAAAGTGCCAAAATTATAGGCG
TGAGCCACTGCACCCGGCCCCCTATTTGAAGACGTCTTTTGTAAAAGCTAGCTTCTAGAACCTGAGAAAAGCTCTT
TTCTCAGAGGAGATACTCTTTTGATATGTTAATGATTAAAGAGTGGTTGCCAGGCCTAGTTTTCAGTGGCAGAAT
AGGATTGGAATTAAAAAGCAGAACTCATCTGGCTTCAGCAGATTGCCACCAAGAGGATACAGGTGGTCAGGTCTCT

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FIGURE 4588B

GGCTGGCTTTGTCTTTGGGCCTGGGCAGGCTTAGGATTTGACTTTCTTTGAAGTACCTGATGCTGATTGATTCCA
CTAATAGTAGGAAGCAAGAGACTTAACTATGAGGGACGTTATGTGAATCTTAAGTCTTACCAGTCCTTGCATTAG
TACATTAAATTTGGATGTTTTGGAAGCAAATTCATACGATCGTGAGTGATTTCTCCAAAGAAAAAAGCCTTGTC
CAGCCTGACCAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATTAAGTGGGTGCAGTGGTGCATGCC
TGTAAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCTGGGAGGCAGAGGTTGCAGTGAGTCG
AGATCGCGCCACTGCACTCCAGCCTCGGTGACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4589

MKSSLLKEQMLRKQAELESAQCRLQLQVLTDKCTRLQRRVQDLQKLTSHQSQNLQQPRGSQAWVLSCSPSSQGQH
KHKYHFQKTFTVSQAGNCRIMAYCDALSCLVISQPSPOASFLPGFGVKMLSTANMKSSQYIPMHGKQIRGLAFSS
YLRGLLLSASLDNTIKLTSLETNTVVQTYNAGRPVWSCWCLDEANYIYAGLANGSILVYDVRNTSSHVQELVAQ
KARCPLVSLSYMPRAASAAFPYGGVLAGTLEDASFWEQKMDFSHWPHVLPLEPGGCIDFQTENSSRHCLVTYRPD
KNHTTIRSVLMEMSYRLDDTGNPICSCQPVHTFFGGPTCKLLTKNAIFQSPENDGNILVCTGDEAANSALLWDAA
SGSLLQDLQTDQPVLDICPFEVNRNSYLATLTEKMHVIYKWE

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FIGURE 4590

ATGAACTTCACCACTCGCTCCACCTTCTCCACCAACTACCGGTCCCTGGGCTTTGTCCAGGCGCCAGCTACAGT
GCCCCGGCCAGTCAGCAGCATGGCCAGCGTCTATGCAGGCACCAGGGGCTCTGGTTCCCTGGATCTCCATGTCCCAC
TCCGCCAGCTTCTGGGGCGGCATGGGGTCTGGGGGCCTGTCCGCGGGGATGGCTGGGGGTCTTGCAAGAATGGGA
GGCATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAAGTACTGCCTGACCTCCTACCTGAACACAGTGAGGAAC
CTGGAGATGGAGAAGCTGGAAGCTAGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGACCCCAGTTCAGAGAC
TGGAGCCGTTACTTCCAGACCATCAAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATC
GTTCTGCAGATTGACAGTGCCCGTCTTGCAGCTGATGATTTTAGATCTGTGGAGAATGACATCCATGGGCTCTGC
AAGGTCATTGATGACACCAAGTGTCACTTGGCTGCAGCTGGAGACAGAGATCAAGGCTCGCAAGGAAGAGCTGCTC
TTCATGAAGAAGAACCACGGAGAGGAAGTAAAGGCCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCTTGGAG
GACCTCGCCAAGATCATGGCAGACATCTGGGCCCAATATGACAAGCTGGCTCGGAAGAACAGAGAGGAGCTGGAC
AAGTACTGGTCTCAGCAGATTGAGGAGAGCACCAACGGTGGTCACCACGCAGTCCGTCAAGGTTGGAGCTGCTGAG
ACGACACTCACGGAGCTGAGATATACAGTCCAGTCCCTTGGAGACTGACCTGGACTCAATGAGAAAATCTGAAGGCC
AGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCGCTACACCCTGCAGATGGAGCAGCTCAACGGGGATCCTGCTT
TACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGGTCTTCTTACTGATGTGTTGCTCTTCTTCATGGCTC
GTGAAAACATATTAGAGTCATCCAAGATTCTAAGTTCCTGACTCAGAATCTTACTGTTGTGAACCTTTACACCCAG
GTTTGGAGACAGAAAGGAGCACCGCCAAGTGAGGCAGAGCAGTCTCAGAAACATAGGAAAATGGTGGGAAGAGAG
ATCAGCAACGTTAACTGGGTGTCAAGAAAACATACCGAGATTGAAGCCATCCACTTCTGCAGGAACACCGAAAAG
AAAGGTACAACGCTTGGGGAAAGACTGGATTTTCATTAGGGACAGTGACAATACCTGTTTGACATAG

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FIGURE 4591

MNFTTRSTFSTNYRSLGFVQAPSYSARPVSSMASVYAGTRGSGSWISMSHSASFWGGMGSGGLSAGMAGGLARMG
GIONKKETMQSLKYCLTSYLNNTVRNLEMENWKLESKIREHLEKKGPQFRDWSRYFQTIKDLRAQIFANTVDNACI
VLQIDSARLAADDFRSVENDIHGLCKVIDDTSVTWLQLETEIKARKEELLFMKKNHGEEVKGLQAQIASSGLTLE
DLAKIMADIWAQYDKLARKNREELDKYWSQQIEESTTVVTTQSVKVGAAETTLTELRYTVQSLETDLDSMRNLKA
SLENSLREVEARYTLQMEQLNGILLYLESELAQTRAEGSFLLMCCSSSWLVKTIRVIQDSKFLTQNLTVVNLYTQ
VWRQKGAPPSEAEQSQKHKRMVGREISNVNWVSRKHTEIEAIHFCRNTEKKGTTLGERLDFIRSDNTCLT

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FIGURE 4592A

ATAATGGCCGCTTTCAAGGTGTGGATTTTGGCTCCTTGAGCCTGTCTGAGCGAGGGGTGGCAGCGCCGGCGCCCC
AGAATCCGGGACAGAAGGGTCCCAAGAGTCGCGCTTGGTGAGAGAAATCCAGATCCTGTG**ATC**GGGGACACCAG
TGAGGATGCCCTCGATCCATCGATTGGAAGGCACTGATCTGGACTGTCAGGTTGGTGGTCTTATTTGCAAGTCCAA
AAGTGCGGCCAGCGAGCAGCATGTCTTCAAGGCTCCTGTCTCCCGCCCTTCATTACTGGGACTGGACTTGCTGGC
TTCCCTGAAACGGAGAGAGCGAGAGGAGAAGGACGATGGGGAGGACAAGAAGAAGTCCAAAGTCTCCTCTACAA
GGACTGGGAAGAGAGCAAGGATGACCAGAAGGATGCTGAGGAAGAGGGCGGTGACCAGGCTGGCCAAAATATCCG
GAAAGACAGACATTATCGGTCTGCTCGGGTAGAGACTCCATCCCATCCGGGTGGTGTGAGCGAAGAGTTTTGGGA
ACGCAGTCGGCAGAGAGAGCGGGAGCGGAGGGAACATGGTGTCTATGCCTCGTCCAAAGAAGAAAAGGATTGGAA
GAAGGAGAAATCGCGGGATCGAGACTATGACCGCAAGAGGGACAGAGATGAGCGGGATAGAAGTAGGCACAGCAG
CAGATCAGAGCGAGATGGAGGGTCAGAGCGTAGCAGCAGAAGAAATGAACCCGAGAGCCCACGACATCGACCTAA
AGATGCAGCCACCCCTTCAAGGTCTACCTGGGAGGAAGAGGACAGTGGCTATGGCTCCTCAAGGCGCTCACAGTG
GGAATCGCCCTCCCCGACGCTTCTATCGGGATTCTGAGCGGAGCCATCGGCTGTCCACTCGAGATCGAGACAG
GTCTGTGAGGGGCAAGTACTCGGATGACACGCTCTGCCAACTCCCTCTACAAATATAACGAGTGGGCCGATGA
CAGAAGACACTTGGGGTCCACCCGCGTCTGTCCAGGGGGCCGAGGAAGACGTGAGGAGGGCGAAGAAGGAATTTT
ATTTGACACGGAGGAGGAGCGGCAGCAGTGGGAAGATGACCAGAGGCAAGCCGATCGGGATTGGTACATGATGGA
CGAGGGCTATGACGAGTTCCACAACCCGCTGGCCTACTCCTCCGAGGACTACGTGAGGAGGCGGGAGCAGCACCT
GCATAAACAGAAGCAGAAGCGCATTTTCAAGCTCAGCGGAGACAGATCAATGAGGATAACGAGCGCTGGGAGACAAA
CCGCATGCTCACCAGTGGGGTGGTCCATCGGCTGGAGGTGGATGAGGACTTTGAAGAGGACAACCGGCCAAGGT
GCATCTGATGGTGCACAATCTGGTGCTTCCCTTTCTGGATGGGCGCATTGTCTTACCAAGCAGCCGAGCCGGT
GATTCCAGTGAAGGATGCCACTTCTGACCTGGCCATCATTTGCTCGGAAAGGCAGCCAGACAGTGCAGGAAGCACAG
GGAGCAGAAGGAGCGCAAGAAGGCTCAGCACAAACACTGGGAAGTGGCGGGGACCAAACTGGGAGATATAATGGG
CGTCAAGAAGGAGGAAGAGCCAGATAAAGCTGTGACGGAGGATGGGAAGGTGGACTACAGGACAGAGCAGAAGTT
TGCAGATCACATGAAGAGAAAGAGCGAAGCCAGCAGTGAATTTGCAAAGAAGAAGTCCATCCTGGAGCAGAGGCA
GTACCTGCCCATCTTTGCAAGTGCAGCAGGAGCTGCTCACTATTATCAGAGACAACAGCATCGTGATCGTGGTTGG
GGAGACGGGGAGTGGTAAGACCACTCAGCTGACGCAGTACCTGCATGAAGATGGTTACACGGACTATGGGATGAT
TGGGTGTACCCAGCCCCGGCGTGTAGCTGCCATGTCTAGTGGCCAAGAGAGTCAAGTGAAGAGATGGGGGGAAACCT
TGGCGAGGAGGTGGGCTATGCCATCCGCTTTGAAGACTGCACTTCAAGAGAACACCTTGATCAAATACATGACTGA
CGGGATCCTGCTCCGAGAGTCCCTCCGGGAAGCCGACCTGGATCACTACAGTGCCATCATCATGGACGAGGCCCA
CGAGCGCTCCCTCAACACTGACGTGCTCTTTGGGCTGCTCCGGGAGGTAGTGGCTCGGCGCTCAGACCTGAAGCT
CATCGTACATCAGCCACGATGGATGCGGAGAAGTTTGTCTGCTTTTTTGGGAATGTCCCCATCTTCCACATCCC
TGGCCGTACCTTCCCTGTTGACATCCTCTTCAAGCAAGACCCACAGGAGGATTACGTGGAGGCTGCAGTGAAGCA
GTCCTTGCAGGTGCACCTGTCTGGGGGCCCTGGAGACATCCTTATCTTATGCCTGGCCAAGAGGACATTGAGGT
GACCTCAGACCAGATTGTGGAGCATCTGGAGGAAGTGGAGAACGCGCTGCCCTGGCTGTGCTGCCCATCTACTC
TCAGCTGCCTTCTGACCTCCAGGCCAAAATCTTCCAGAAGGCTCCAGATGGCGTTCCGAAGTGCATCGTTGCCAC
CAATATTGCCGAGACGTCTCTCACTGTTGACGGCATCATGTTTGTATCGATTCTGGTTATTGCAAATTAAGGT
CTTCAACCCCAGGATTGGCATGGATGCTCTGCAGATCTATCCCATTAGCCAGGCCAATGCCAACCAGCGGTCAGG
GCGAGCCGGCAGGACGGGGCCAGGTGAGTGTTCAGGCTCTACACCCAGAGCGCCTACAAGAATGAGCTCCTGAC
CACCACAGTGCCCGAGATCCAGAGGACTAACCTGGCCAACGTGGTGCTGCTGCTCAAGTCCCTCGGGGTGCAGGA
CCTGCTGCAGTTCCACTTCATGGACCCGCCCCCGGAGGACAACATGCTCAACTCTATGTATCAGCTCTGGATCCT
CGGGGCCCTGGACAACACAGGTGGTCTGACCTCTACCGGGCGGCTGATGGTGGAGTTCCCGCTGGACCCCTGCCCT
GTCCAAGATGCTCATCGTGTCTGTGACATGGGCTGCAGCTCCGAGATCCTGCTCATCGTTTTCCATGCTCTCGGT
CCCAGCCATCTTCTACAGGCCCAAGGGTCGAGAGGAGGAGAGTGATCAAATCCGGGAGAAGTTTCGTGTTCTCTGA
GAGCGATCATTTGACCTACCTGAATGTTTACCTGCAGTGGAAGAACAATAATTACTCCACCATCTGGTGTAAACGA
TCATTTTCATCCATGCTAAGGCCATGCGGAAGGTCCGGGAGGTGCGAGCTCAACTCAAGGACATCATGGTGCAGCA
GCGGATGAGCCTGGCCTCGTGTGGCACTGACTGGGACATCGTCAGGAAGTGCATCTGTGCTGCCTATTTCCACCA
AGCAGCCAAGCTCAAGGGAATCGGGGAGTACGTGAACATCCGCACAGGGATGCCCTGCCACTTGACCCCCACCAG
CTCCCTTTTTTGGAAATGGGCTACACCCAGATTACATAGTGTATCACGAGTTGGTCATGACCACCAAGGAGTATAT
GCAGTGTGTGACCGCTGTGGACGGGGAGTGGCTGGCGGAGCTGGGCCCCATGTTCTATAGCGTGAAACAGGCGGG

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FIGURE 4592B

CAAGTCACGGCAGGAGAACCGTCGTCGGGCCAAAGAGGAAGCCTCTGCCATGGAGGAGGAGATGGCGCTGGCCGA
GGAGCAGCTGCGAGCCCGGCGGCAGGAGCAGGAGAAGCGCAGCCCCCTGGGCAGTGTCTAGGTCTACGAAGATCTA
CACTCCAGGCCGGAAGAGCAAGGGGAGCCCATGACCCCTCGCCGCACGCCAGCCCGCTTTGGTCTGTGA~~G~~CTGA
GGCTGTCCCCAGAGAGGATGGCAGCAGGTATTGGGTCTCAGCCTTCTGGCGGGAGCCCTGAGGCTGCGGACAAA
GCCCTTTCATCTGAGGACTTTCATCTGTGCATATCACGGCCCCCAGGGCAGTTCCTGCTGGACCAGACTCTCTG
GCAGAGGAGGTGGAGTTCCTTCATGCAGGAGCACGGCATGGCGGGAGCGGGGCTGCAGAGTATCCGAGGTGCTGC
CGGGGCAGCGGGAGGTGGCTGGACCCATCGCATCTAAACTGGCCCAGGACACTTGGTGTATGCGTGACTTGGCT
GTGGCTGTCTTTTAAATCCTTGTGTAAAGCAGCAAAAAAGACCTAAAGGGAATTGTAATTTGGTTATAATTCAG
GATTTGAAATAAATTTATTATTTGTAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4593

MGDTSEDASIHRLGTDLDCQVGGLICKSKSAASEQHVFKAAPRPSLLGLDLLASLKRREEREKDDGEDKKKSK
VSSYKDWEESKDDQKDAEEEGGDQAGQNIRKDRHYRSARVETPSHPGGVSEEFWERSRQREERERREHGVYASSKE
EKDWKKEKSRRDRDYDRKRDRDERDRSRHSSRSERDGGSERSSRRNEPESPRHRPKDAATPSRSTWEEEDSGYGSS
RRSQWESPSPTPSYRDSERSHRLSTRDRDRSVRGKYSDDTPLPTPSYKYNEWADDRRLGSTPRLSRGRGRREEG
EEGISFDTEERQQWEDDQRQADRDWYMMDEGYDEFHNPLAYSSDYVRRREQHLHKQKQKRISAQRRQINEDNE
RWETNRMLTSGVVHRLEVEDDFEEDNAAKVHLMVHNLVPPFLDGRIVFTKQPEPVI PVKDATSDLAI IARKGSQT
VRKHREQKERKKAQHKKHWELAGTKLGDIMGVKKEEEPDKAVTEDGKVDYRTEQKFADHMKRKSEASSEFAKKKSI
LEQRQYLP IFAVQQELLTIIRDNSIVIVVGETGSGKTTQLTQYLHEDGYTDYGMIGCTQPRRVAAMSVAKRVSEE
MGGNLGEEVGYAIRFEDCTSENTLIKYM TDGILLRESLREADLDHYS AIIMDEAHERSLNTDVLFGLLREVVAR
SDLKLIVTSATMDAEKFAAFFGNVPIFHIPGRTPFPVDILFSKTPQEDYVEAAVKQSLQVHLSGAPGDILIFMPGQ
EDIEVTSDQIVEHLEEL ENAPALAVLP IYSQLPSDLQAKIFQKAPDGVRKCIVATNIAETSLTVDGIMFVIDSGY
CKLKVFNPRI GMDALQIYPI SQANANQRS GRAGRTGPGQC FRLYTQSAYKNELLTTTVPEIQRTNLANVLLLS
LGVQDLLQFHFMDPPPEDNMLNSMYQLWILGALDNTGGLTSTGRLMVEFPLDPALSKMLIVSCDMGCSSEILLIV
SMLSVP AIFYPKGREESDQIREKFAVPESDHLTYLNVYLQWKNNYSTIWCNDHFIHAKAMRKVREVVRAQLKD
IMVQQRMSLASC GTDWDIVRK CICAAYFHQA AKLKGIGEYVNIRTGMPCHLHPTSSLFMGYTPDYIVYHELVMT
TKEYMQCVTAVDGEWLAELGPMFY SVKQAGKSRQENRRRAKEEASAMEEEMALAEELRARRQEQEKRSPLGSVR
STKIYTPGRKEQGEPMTPRRTPARFGL

FIGURE 4594

[illegible]

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FIGURE 4595

MSFLLPKLTSKKEVDQAIKSTA EKVLVLRFG RDEDPVCLQLDDILSKTSSDLSKMAAIYLV DVDQTAVYTQYFDI
SYIPSTVFFFNQHMKV DYGSPDHTKFVGSF KTKQDFIDLIEVIYRGAMRGKLIVQSPIDPKNIPKYD LLYQDI

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FIGURE 4596

CTCTTCCAGAGGCAAGACCAACCAAGATGAGTGCCCTGGGAGCTGTCATTGCCCTCCTGCTCTGGGGACAGCTTT
TTGCAGTGGACTCAGGCAATGATGTCACGGATATCGCAGATGACGGCTGCCCCGAAGCCCCCGAGATTGCACATG
GCTATGTGGAGCACTCGGTTTCGCTACCAGTGTAAGAACTACTACAAACTGCGCACAGAAGGAGATGGAGTATACA
CCTTAAATGATAAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAACTTCCTGAATGTGAAGCAGATGACGGCT
GCCCCGAAGCCCCCGAGATTGCACATGGCTATGTGGAGCACTCGGTTTCGCTACCAGTGTAAGAACTACTACAAAC
TGCGCACAGAAGGAGATGGAGTGTACACCTTAAACAATGAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAAC
TTCCTGAATGTGAAGCAGTATGTGGGAAGCCCAAGAATCCGGCAAACCCAGTGCAGCGGATCCTGGGTGGACACC
TGGATGCCAAAGGCAGCTTTCCCTGGCAGGCTAAGATGGTTTCCACCATAATCTCACCACAGGTGCCACGCTGA
TCAATGAACAATGGCTGCTGACCACGGCTAAAAATCTCTTCCTGAACCATTGAGAAAATGCAACAGCGAAAGACA
TTGCCCCCTACTTTAACACTCTATGTGGGGAAAAAGCAGCTTGTAGAGATTGAGAAGGTTGTTCTACACCCTAACT
ACTCCCAGGTAGATATTGGGCTCATCAAACCTCAAACAGAAGGTGTCTGTTAATGAGAGAGTGAATGCCCATCTGCC
TACCTTCAAAGGATTATGCAGAAGTAGGGCGTGTGGGTTATGTTTCTGGCTGGGGGCGAAATGCCAATTTTAAAT
TTACTGACCATCTGAAGTATGTCATGCTGCCTGTGGCTGACCAAGACCAATGCATAAGGCATTATGAAGGCAGCA
CAGTCCCCGAAAAGAAGACACCGAAGAGCCCTGTAGGGGTGCAGCCCATACTGAATGAACACACCTTCTGTGCTG
GCATGTCTAAGTACCAAGAAGACACCTGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTTACGACCTGGAGGAGG
ACACCTGGTATGCGACTGGGATCTTAAGCTTTGATAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTATGTGAAGG
TGACTTCCATCCAGGACTGGGTTTGAAGACCATAGCTGAGAACTAATGCAAGGCTGGCCGGAAGCCCTTGCCCTG
AAAGCAAGATTTGAGCCTGGAAGAGGGCAAAGTGGACGGGAGTGGACAGGAGTGGATGCGATAAGATGTGGTTTG
AAGCTGATGGGTGCCAGCCCTGCATTGCTGAGTCAATCAATAAAGAGCTTTCTTTTGACCCA

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FIGURE 4597

ATGCTGTCTGTGTGTGTCTCCGCGGCCGTAGCCCGTGACCTCACTCGTAAGGAAGGAGGTATAGTGAAGAGGACA
GGAACCATTGTGGACGTTCCAGTCGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGTAATGCTATTGAT
GGAAAGGGTCCAATGGGTTCCAAGACCCATAAAATCATTCCCGAACTTCAGTGTGGGAACCAATGCCGACTGGC
ATTAAGGCTGTGGATAGCTTGGTGCCAATTGGTCGTGGTCAGCATGAGCTCATTATTGGTGACCGAAGGACTGGG
AAAACCTCAATTGCTATTGACACAATCATTAACCAGAAACATTTCAATGATAGATCTGAAGAAAAGAAGAAGCTG
TACTGTATCTATGTTGCTATTGGTCGAAAGAGATCCACTGTTGCTCAGTTGGTGAAGAGACTTACAGATGCAGAT
GCCGTGAAGTACACCACTGTGGTGTGAGCTATGGCCTCAGATGCTGCCCTACTTCAGTACCTGGCTCCTTACTCT
GACTGTTCCATGGGAGAGTATTTTAGAGACGATGGCAAATATACTTTGATCATCTATGACGACTTATCCAAACAG
GCTGTGCGTTACTGTCAGATGTCTCTGTTGCTCCACCGACCCCCCTGGTCGACTATGAAGCAGGCGGCAGGTACC
ATGAAGCTGGAATTGGCTCAGGATCGTGAGGTTGCTGCTTTTGCCAGTTTGGTTCTGACCTCAATGCTCCCACT
CAACAACCTATTGAGTCGCGGTGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATCCTCCCATGGTTACTGAA
CAACAAGTGGCTGTTATCTGTGCGGGTGGAGAGAATATAGAGGACATTCCAAAGGAAGTGCTGACAGACTGCGCC
CACCTTGTGAAGGCCAATAGCACTCAAGGCTGCAAGAACAACGTTAATGTGGTAAATACTCCACGGTCTAACCTG
AAGAAAACAGCTGACGTGGATGTGAGGCAGATAGGCTTTCACAGGCAGAAGGATGTAAAAATTGTGACAATGGAG
AAGAAAAGAGGATTCCTAGCTCATATTTGGAACAAGGAAGTTCAAGATCTCATCCGGGACTATCTGGAAGAAGGA
AAGAAGTGGTGGATTGGGCAAAATGTAATGCCATTGAAAAAGCATCAAGACAACAAATACCCAGCAGACGTTGCA
GCCAACGGGCCCCCAAAGCCCCCTCAGCTGCACCTACCTGTCCAGAACTTCATTTCGGATCTCATCCAAAGGGGAC
AAGTGCTTACTGAAATACTATTTCAATTTGCCAGACTGGTGACTTTTGGACGGAGATGCCATTATGAAAGAAAT
GGAAATAATTCCCATTTGTACCAGAGACACAAGAAGACAAAAAGAGGAGTTGCAATAGCAAGAGACAAATGCCC
CCAGACTTTCAGGATCATGTGATTCTGGCCAAGAAATAAAAGCAAAATCATTTTATTCCCAGTGGATTTCGGAT
GAAACCGGTGATAAAATCAGGTACAACCTCCAAGAGGAGACACTGGAGAACAGGCATGCTGGGTCTGTAA

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FIGURE 4598

MLSVCVSAAVARDLTRKEGGIVKRTGTIVDVPVGEELLGRVVDALGNAIDGKGPMGSKTHKIIPRTSVWEPMTG
IKAVDSLVPIGRGQHELIIGDRRTGKTSIAIDTIIINQKHFNDRSEEKKLYCIYVAIGRRSTVAQLVKRLTDAD
AVKYTTVVSAMASDAALLQYLAPYSDCSMGEYFRDDGKYTLIIYDDLKQAVAYCQMSLLLHRPPWSTMKQAAGT
MKLELAQDREVAFAQFGSDLNAPTQQLLSRGVRLTELLKQGQYPPMVTEQQVAVICAGGENIEDIPKEVLTDCA
HLVKANSTQGCKNNVNVNTPRSNLKKTADVDRQIGFHRQKDVKIVTMEKKRGFLAHIWNKEVQDLIRDYLEEG
KKWWIGQNV MPLKKHQDNKYPADVAANGPPKPLSCTYLSRNFIRISSKGDKCLLKYYFICQTGDFLDGDAHYERN
GNNSHLYQRHKKTKRGVAIARDKMPPDFQDHVIPGQEIKAKSFYSPVDSDETGDKIRYNSKRRHWRTGMLGL

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FIGURE 4599

CTGTGGCTGGCCTCCCCGCGCCAGAGCGAAATTAAGGGCATGCCCCAGCAGCTGACTCAGTCGGCGTGGCGCT
TCCCCAACGTCTGCCGTGCCCCCGCGCGGGAAGTAGTCCCCGGCCGCGCCGACTCCAAAGGAAACCGAGGGAG
GGTGGCCCCGAGTCAGCGCGTGGGTCCCGGCAGCGGCGATCGCGCAGCCAATCCCTGGAAAGGAGGGCGTGGCTAT
ATCGGCCCCGTGGATCCCTCCGCCCCGCGCTTGTTGTGCTGAGGCCGAGGGAGTCGCCATTTTGGATGGTGAACCC
TGAAGTCGGTGTCTGCTGCGTTCACGGCAGGATTTCGGTTAGGAGGAACAGCACAGCATGCTGGGCTCTGGATTTA
AAGCTGAGCGCTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTAAACTATTGGAGAAAAAGAAAACGGAAC
TGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGATGAACGAGCTCGGATCCGTGTGG
AGCACATTATCCGGAAGACTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGACCTGCTGCTGGCTC
GGTTTGGCCTTATCCAGTCTATGAAGGAAGTAGATTCTGGTCTGGCTGAATCTGTGTCTACATTGATCTGGGCTG
CTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAGCTCTGTGCCAAGTATAGCAAGGAAT
ATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGTGAATGACAGGCTAATGCACAAGCTGAGTGTGGAAGCCC
CACCCAAAATCCTGGTGGAGAGATACTTGATTGAAATTGCAAAGAATTACAACGTACCCTATGAACCTGACTCTG
TGGTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGATCTTATTGATGTTGGATTACAGATGATGTGAAGAAAG
GAGGCCCTGGAAGAGGAGGGAGTGGTGGCTTCACAGCACCAGTTGGTGGACCTGATGGAACGGTGCCAATGCCCA
TGCCCATGCCCATGCCTATGCCATCTGCAAATACGCCTTTCTCATATCCACTGCCAAAGGGACCAGTAGATGACA
TTAATGCTGATAAGAATATCTCTTCTGCACAGATTGTTGGTCTCGACCCAAGCCAGAAGCCTCTGCAAAGCTTC
CTTCCAGACCTGCAGATAACTATGACAACTTTGTCTTACCAGAGTTGCCATCTGTGCCAGACACACTACCAACTG
CATCTGCTGGTGGCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTTCCCGGAGGTTTGAAGAGCTGA
AAAAGAAAACATAGGTCTCTTAAACCAGGCAACTTTACGTTTTGGGAGTTGAGACTGAGCAATTTCTCCTTGTA
ACAAAGAATCTCCATGAAATTCTGTTTCATCTGTTAACCGTCACTCAGCACAAACTCCCTCTGGGCTCTCTTCC
TGCTCCTCCAGATTCTGCTGCTTTCCAGTTCTCTGTTGATCCTGAGACTAACAATTGGAGACTGAGGCCAGAGCA
ACTGGCTCCTGGCAGCTGTGCTTGTCCGTTTTCTGTGAGAGTGATCCAGGTTTTCTCCTGGCCCGTCCCATGGT
CCCTCCACAGGAGTGTGAGAGGATGGGGGAAGCACTGTGGGAAGACCACCAAAGATGGCTGGACAGTGGGAGAGA
GCACGTTGTGAAGCATCCCAGCCTCGTGTTGAGGTTCCAGACTTAGAAACAGACCCCTCTGTACAGGGGGATTGT
GGTGAGTGAGAATCAAGGCCACCTTGTGTGTTTTCTCACTCTCGAATGCAAGTGGGAGAGGGAAAATGACTCGGG
ACGCCATTGTAACGGTTCCCTGGAAGCTGGGCCCTCTCATTGGCATATACAGTACTCCTCGCTGCAGGGCACTGTC
CCACCGGGATCCAGTTGCAAAGTTTGTCTTGACAGTTGAAGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGCC
CTCTGTGGCCTTTTGTCTTTCGTGCTGTTTCCCTTGTACCAGAGGGCGGCACCGTGGAATTTCTGTTTTCCCTGT
AGCATATTGTGTTGGATTGCATTACTGGCAGAGAAAGGACAAGGTGCCATTCAAGTCTAGGGTGGGCTTCCAGC
TGCCTTAATAGAAGTACTCAAGTCTTTTGGGTAGTGAGCTGGAAGCCTACAGGAAAAGAGGGGTACCTGTTTTT
ATTTGAAAACCTTTGATTGATGGAACCTTTAAACTAATCTCAGAAAAATTTTGGTGCCCATGCAGCTGTAGTTG
TTCACTGCTTTTCTGGATGGATGGGACTCTTATGTCATAACTTCTGTTACTCCTTTGGCCCATAGCTAAGGTCAT
CCTTCCCCACAGGGGTGGCTTTGGGATTGGATGATACAGCTTTTGTCTGTGTAGTATACCTGTACATACTTGT
TTCAGGCAGCCTTTCTTTAATGTTTTCAGTTGGTTGTATTCTGTAGCTCAGTAGCTGCTAATAAAGTTAAAGAT
CCTGTG

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FIGURE 4600A

CGGCGCTGAGTGACCCGAGTCGGGACGCGGGCTGCGCGCGGGACCCCGAGCCCAAACCCGGGGCAGGCGGGC
AGCTGTGCCCGGGCGGCACGGCCAGCTTCTTGATTCTCCCGATTCTTCTCTCTCCCTGGAGCGGCCGACAAATG

TCCACCACGGTCAATGTAGATTCCCTTGCGGAATATGAGAAGAGCCAGATCAAGAGAGCCCTGGAGCTGGGGACG
GTGATGACTGTGTTTCAGCTTCCGCAAGTCCACCCCGAGCGGAGAACCGTCCAGGTGATCATGGAGACGCGGCAG
GTGGCCTGGAGCAAGACCGCTGACAAGATCGAGGGCTTCTTGATATCATGGAAATAAAAGAAATCCGCCCAGGG
AAGAACTCCAAAGATTTTCGAGCGAGCAAAAGCAGTTCGCCAGAAAGAAGACTGCTGCTTCACCATCTATATGGC
ACTCAGTTTCGTCTCAGCACGCTCAGCTTGGCAGCTGACTCTAAAGAGGATGCAGTTAACTGGCTCTCTGGCTTG
AAAATCTTACACCAGGAAGCGATGAATGCGTCCACGCCACCATTATCGAGAGTTGGCTGAGAAAGCAGATATAT
TCTGTGGATCAAACCAGAAGAAACAGCATCAGTCTCCGAGAGTTGAAGACCATCTTGCCCTGATCAACTTTAAA
GTGAGCAGTGCCAAGTTTCCTTAAAGATAAGTTTGTGAAAATAGGAGCACACAAAGATGAGCTCAGCTTTGAACAG
TTCCATCTCTTCTATAAAAACTTATGTTTGAACAGCAAAAATCGATTCTCGATGAATTCAAAAAGGATTCTGTC
GTGTTTATCTTGGGGAACACTGACAGGCCGGATGCCTCTGCTGTTTACCTGCATGACTTCCAGAGGTTTCTCATA
CATGAACAGCAGGAGCATTGGGCTCAGGATCTGAACAAAGTCCGTGAGCGGATGACAAAGTTTATTGATGACACC
ATGCGTGAAACTGCTGAGCCTTTCTTGTTTGTGGATGAGTTTCTCACGTACCTGTTTTTACGAGAAAACAGCATC
TGGGATGAGAAGTATGACGCGGTGGACATGCAGGACATGAACAACCCCTGTCTCATTACTGGATCTCTCTGTC
CATAACACGTACCTTACAGGTGACCAGCTGCGGAGCGAGTCGTCCCGAGAAGCTTACATCCGTGCTGCGCATG
GGCTGTGCTGCATTGAACTGGACTGCTGGGACGGGCCCGATGGGAAGCCGGTCATCTACCATGGCTGGACGCGG
ACTACCAAGATCAAGTTTGAACGAGTCGTGCAGGCCATCAAAGACCACGCCTTTGTTACCTCGAGCTTCCAGTG
ATCCTGTCCATCGAGGAGCACTGCAGCGTGGAGCAACAGCGTCACATGGCCAAGGCCTTCAAGGAAGTATTTGGC
GACCTGTGTTGACGAAGCCACGGAGGCCAGTGCTGACCAGCTGCCCTCGCCAGCCAGCTGCGGGAGAAGATC
ATCATCAAGCATAAGAAGCTGGGCCCCCGAGGCGATGTGGATGTCAACATGGAGGACAAGAAGGACGAACACAAG
CAACAGGGGGGAGCTGTACATGTGGGATTCCATTGACCAGAAATGGACTCGGCACTACTGCGCCATTGCCGATGCC
AAGCTGTCTTTCAGTGATGACATTGAACAGACTATGGAGGAGGAAGTGCCCCAGGATATACCCCTACAGAACTA
CATTTTGGGGAGAAATGGTTCCACAAGAAGGTGGAGAAGAGGACGAGTGCCGAGAAGTTGCTGCGAGGAATACTGC
ATGGAGACGGGGGGCAAGGATGGCACCTTCTGTTTGGGAGAGCGAGACCTTCCCCAATGACTACACCTGTCC
TTCTGGCGGTGAGGCCGGGTCCAGCACTGCCGGATCCGCTCCACCATGGAGGGCGGGACCTGAAATACTACTTG
ACTGACAACCTCACCTTACGACGATCTATGCCCTCATCCAGCACTACCGCGAGACGCACCTGCGCTGCGCCGAG
TTCGAGCTGCGGCTCACGGACCCTGTGCCCAACCCCAACCCCAACGAGTCCAAGCCGTGGTACTATGACAGCCTG
AGCCGCGGAGAGGCAGAGGACATGCTGATGAGGATTCCCGGGACGGGGCTTCTGATCCGGAAGCGAGAGGGG
AGCGACTCTTATGCCATCACCTTACGGGCTAGGGGCAAGGTAAAGCATTGTGCGATCAACCGGGACGGCCGGCAC
TTTGTGCTGGGGACCTCCGCCTATTTTGAAGTCTGGTGGAGCTCGTCAGTTACTACGAGAAGCATTCACTCTAC
CGAAAGATGAGACTGCGCTACCCCGTGACCCCGAGCTCCTGGAGCGCTACAATATGGAAAGAGATATAAACTCC
CTCTACGACGTGACGAGAATGTATGTGGATCCAGTGAAATCAATCCGTCCATGCCTCAGAGAACCGTGAAAGCT
CTGTATGACTACAAAGCCAAGCGAAGCGATGAGCTGAGCTTCTGCCGTGGTGCCCTCATCCACAATGTCTCCAAG
GAGCCCGGGGGCTGGTGGAAAGGAGACTATGGAACCAGGATCCAGCAGTACTTCCCATCCAACCTACGTCGAGGAC
ATCTCAACTGCAGACTTCGAGGAGCTAGAAAAGCAGATTATTGAAGACAATCCCTTAGGGTCTCTTTGCAGAGGA
ATATTGGACCTCAATACCTATAACGTGCTGAAAGCCCTCAGGGAAAAAACCAGAAGTCCTTTGTCTTCATCCTG
GAGCCCAAGCAGCAGGGCGATCCTCCGGTGGAGTTTGCCACAGACAGGGTGGAGGAGCTCTTTGAGTGTTTCAG
AGCATCCGAGAGATCACCTGGAAGATTGACACCAAGGAGAACAACATGAAGTACTGGGAGAAGAACCAGTCCATC
GCCATCGAGCTCTCTGACCTGGTTGTCTACTGCAAAACCAACCAGCAAAACCAAGGACAACCTTAGAAAAATCCTGAC
TTCCGAGAAATCCGCTCCTTTGTGGAGACGAAGGCTGACAGCATCATCAGACAGAAGCCCGTCGACCTCCTGAAG
TACAATCAAAAGGGCCTGACCCGCGTCTACCCAAAGGGACAAAGAGTTGACTCTTCAAACTACGACCCCTTCCGC
CTCTGGCTGTGCGGTTCTCAGATGGTGGCACTCAATTTCCAGACGGCAGATAAGTACATGCAGATGAATCACGCA
TTGTTTCTCTCAATGGGCGCACGGGCTACGTTCTGCAGCCTGAGAGCATGAGGACAGAGAAATATGACCCGATG
CCACCCGAGTCCAGAGGAAGATCCTGATGACGCTGACAGTCAAGGTTCTCGGTGCTCGCCATCTCCCCAACTT
GGACGAAGTATTGCCTGTCCCTTTGTAGAAGTGGAGATCTGTGGAGCCGAGTATGACAACAACAAGTTCAAGACG
ACGGTTGTGAATGATAATGGCCTCAGCCCTATCTGGGCTCCAACACAGGAGAAGGTGACATTTGAAATTTATGAC
CCAAACCTGGCATTTCTGCGCTTTGTGGTTTATGAAGAAGATATGTTTCAGCGATCCCAACTTCTTGCTCATGCC

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FIGURE 4600B

ACTTACCCCATTTAAAGCAGTCAAATCAGGATTCAGGTCCGTTCTCTGAAGAATGGGTACAGCGAGGACATAGAG
CTGGCTTCCCTCCTGGTTTTCTGTGAGATGCGGCCAGTCCTGGAGAGCGAAGAGGAACTTTACTCCTCCTGTGCGC
CAGCTGAGGAGGCGGCAAGAAGAACTGAACAACCAGCTCTTTCTGTATGACACACACCAGAACTTGCGCAATGCC
AACCGGGATGCCCTGGTTAAAGAGTTCAGTGTTAATGAGAACCAGCTCCAGCTGTACCAGGAGAAATGCAACAAG
AGGTTAAGAGAGAAGAGAGTTCAGCAACAGCAAGTTTTACTCATATAGAAGCTGGGGTATGTGTGTAAGGGTATTGTG
TGTGTGCGCATGTGTGTTTGCATGTAGGAGAACGTGCCCTATTACACTCTGGGAAGACGCTAATCTGTGACATC
TTTTCTTCAAGCCTGCCATCAAGGACATTTCTTAAGACCCAACTGGCATGAGTTGGGGTAATTTCCCTATTATTTT
CATCTTGGACAACCTTTCTTAACCTTATATTCTTTATAGAGGATTCCTCCAAAATGTGCTCCTCATTTTTTGGCCTCTC
ATGTTCCAAACCTCATTGAATAAAAGCAATGAAAACCTTG

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FIGURE 4601

MSTTVNVDSLAEYEKSQIKRALELGTVMTVFSFRKSTPERRTVQVIMETRQVAWSKTADKIEGFLDIMEIKEIRP
GKNSKDFERAKAVRQKEDCCFTILYGTQFVLSTLSLAADSKEDAVNWLSGLKILHQEAMNASTPTIIESWLRKQI
YSVDQTRRNSISLRELKTIPLINFKVSSAKFLKDKFVEIGAHKDELSFEQFHLFYKKLMFEQQKSILDEFKKDS
SVFILGNTDRPDASAVYLHDFQRFLIHEQQEHWAQDLNKVRERMTKFIDDTMRETAEPFLFVDEFLTYLFSRENS
IWDEKYDAVDMQDMNPLSHYWISSSHNTYLTGDQLRSESSPEAYIRCLRMGCRCIELDCWDGPDGKPVIIYHGWT
RTTKIKFDDVVQAIKDHAFTVSSFPVILSIEEHCSVEQQRHMAKAFKEVFGDLLLTKPTEASADQLPSPSQLREK
IIIKHKKLGPRGDVDVNMEDKKDEHKQQGELYMWDSIDQKWTRHYCAIADAKLSFSDDIEQTMEEVPQDIPPE
LHFGEKWFHKKVEKRTSAEKLLQEYCMETGGKDGTFVLVRESETFPNDYTLFWRSGRVQHCRIRSTMEGGTLKYY
LTDNLTFSSIIYALIQHYRETHLRCAEFELRLTDPVPNPNPHEKWPYYDSLRSRGEAEDMLMRIPRDGAFLIRKRE
GSDSYAITFRARGKVKHCRINRDGRHFVLGTSAYFESLVELVSYYEKHSLYRKMRLRYPVTPELLERYNMERDIN
SLYDVSRMYVDPSEINPSMPQRTVKALYDYKAKRSELSFCRGALIHNVSKFPGGWWKGDYGTRIQQYFPSNYVE
DISTADFEELEKQIIEDNPLGSLCRGILDNLNTYNVVKAPQGKNQKSFFVFILEPKQQGDPPVEFATDRVEELFEWF
QSIREITWKIDTKENNMKYWEKNQSIATIELSDLVYCKPTSKTKDNLENPDFREIRSFVETKADSIIRQKPVDLL
KYNQKGLTRVYPKGQRVDSSNYDPFRLWLCGSQMVALNFQTADKYMOMNHALFSLNGRTGYVLQPESMRTEKYDP
MPPEQRKILMTLTVKVLGARHLPKLGRSIACPFVEVEICGAEYDNNKFKTTVVNDNGLSPIWAPTQEKVTFEIIY
DPNLAFLRFVVEEDMFSDPNFLAHATYPIKAVKSGFRSVPLKNGYSEDIELASLLVFCEMRPVLESEEEELYSSC
RQLRRRQEELNNQLFLYDTHQNLNRNANRDALVKEFSVNNENQLQLYQEKCNKRLREKRVSNNSKFYS

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FIGURE 4602

GGGCGGGCCCGCACCCCTGCGAAC**ATG**GCGCTGCGAGTGGTGCGGAGCGTGCGGGCCCTGCTCTGCACCCTGCGC
GCGGTCCCGTTACCCGCCGCGCCCTGCCCGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGC
ACTGGACCCGCTCTGCTCTCGGTGCGTAAATTACAGAGAAACACGAATGGGTAACAACAGAAAATGGCATTGGA
ACAGTGGGAATCAGCAATTTTGCACAGGAAGCGTTGGGAGATGTTGTTTATTGTAGTCTCCCTGAAGTTGGGACA
AAATTGAACAAACAAGATGAGTTTGGTGCTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCA
GGAGAAGTAACTGAAATTAATGAAGCTCTTGCAGAAAATCCAGGACTTGTAACAAATCTTGTTATGAAGATGGT
TGGCTGATCAAGATGACACTGAGTAACCCCTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATAC
ATAAAATCTATTGAGGAG**TGAA**AAATGGAACCTCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTC
TTAAATTAGTGGTGGATAGAAGACTTAGAATAGAACTTTTAGTATTACCGATGGGGAAAAAAAAAACTACTGTTA
ACACTGCTAATGAAAGAAAATGCCCTTTAACTTTCTAATGATTATAGATAAAATATAATATGCGTCTTTTTTCACAA
TATCCTATGATTTTTTAGACTAGGCTCTAGTGTTCAGAATTCATGAAATTATCCATGGTAAAAACTAGTTATAAAA
ATTACATAATTCAAAGATAACATTGTTATTCTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGG
ATTTGGGATGAAATACTTAATGATCTTTCCATTGGAAATAACTGGAAGTGAAGAGGTTTTGTGCTTGTACAGTG
TCAGATGAGGAACACCACTATCTTAATTTTGCGATACACTGCATTTGCTGGTGCTATTTTTTATACAGTGAAGCAA
CAGCTTTGCAGCAAAAATAATAAAATACTTCTTCGTT

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FIGURE 4603

MALRVVRSVRALLCTLRAVPLPAAPCPFRPWQLGVGAVRTLRTGPALLSVRKFTKHEWVTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCYEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 4604

ACGGTGGAGCGGTGGAGGGCGTCACTGGGTTTCGGCGTCTGGCAAGCGGTTTCAGCTGTCTGCTCCCTAGCAGCCG
GCCTTCGGGTCGGGCGTCTCCGCGGCTACTGCCGCTTCAGTTCTCCCGGTGTGGCCACGAGTCGGGTGCACTGC
TGTGATCCATCCTCATCTCCTAAAGATGCATCCTGACTTATCTCCACACTTGCACACTGAAGAATGCAACGTCTT
GATTAAGTTGCTTAAGGAATGTCACAAAAATCACAACATTCTGAAATTTTTTGGTTATTGTAATGATGTTGATCG
GGAGTTGAGAAAATGCCTGAAGAATGAGTACGTAGAAAACAGGACCAAGAGCAGGGAGCATGGCATTGCAATGCG
AAAGAACTTTTTAATCCTCCAGAGGAATCCGAAAAATAAATTGTATTTTCACTCGATGCCTTGGCTGAGAGAAG
ACCTAAAGACTCTGGGTTGATACCTGAAAGAATCCTGTCTTATTTGGTCTCCATAATCCTTTGAATGGAAAGTGA
CCTGTGAGAGATTGAACCATGGAGAAATATGAAAACCTGGATTCTGAGTATTTGTTGGGCAGGGCGTTTAGTAC
TGTCTCCCCTTTACCAGCAAACCTGACTTCACCATGTTTATTCCCTTGCCTACAACCAGTTAATATCTGAGTAA
CTTATCTCCTTCAATAAAATAATTTAAATAAAAAAAAAAAAA

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FIGURE 4605

MHPDLSPHLHTEECNVLINLLKECHKNHNILKFFGYCNDVDRELKCLKNEYVENRTKSREHGIAMRKKLFNPPE
ESEK

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FIGURE 4606

GCGCAGGCGCGGCGGCCGATGCGAGTGTGTATGTGCGGGCGAGAAGATGGCGGCGGCGGGGAAGCAGCGTGAGC
AGCCGGAGGATCGCGGAGTCCCAATGAAACGGGCAGCC**ATG**GCCCTCCACAGCCCCGAGTATATTTTTGGAGATT
TTAGCCCTGATGAATTCAATCAATTCTTTGTGACTCCTCGATCTTCAGTTGAGCTTCCTCCATACAGTGGAACAG
TTCTGTGTGGCACACAGGCTGTGGATAAACTACCTGATGGACAAGAATATCAGAGAATTGAGTTTGGTGTCGATG
AAGTCATTGAACCCAGTGACACTTTGCCGAGAACCCCCAGCTACAGTATTTCAAGCACACTGAACCCCTCAGGCCC
CTGAATTTATTCTCGGTTGTACAGCTTCCAAAATAACCCCTGATGGTATCACTAAAGAAGCAAGCTATGGCTCCA
TCGACTGCCAGTACCCAGGCTCTGCCCTCGCTTTGGATGGAAGTTCTAATGTGGAGGCGGAAGTTTTGGAAAATG
ATGGTGTCTCAGGTGGTCTTTGGACAAAGGGAGCGTAAAAAGAAGAAAAAGCGGCCACCTGGATATTACAGCTATT
TGAAAGATGGTGGCGATGATAGTATCTCCACAGAAGCCCTGGTCAATGGCCATGCCAATTCAGCAGTCCCGAACA
GTGTCTAGTGCAGAGGATGCAGAATTTATGGGTGACATGCCCCCGTCAGTTACGCCCAGGACTTGTAACAGCCCCC
AGAACTCCACAGACTCTGTCTAGTGACATTGTGCCTGACAGTCCTTTCCCCGGAGCACTCGGCAGTGACACCAGGA
CTGCAGGGCAGCCAGAGGGGGGGCCCCGGGGCTGATTTTGGTCAGTCCTGCTTCCCTGCAGAGGCTGGCAGAGACA
CCCTGTCAAGGACAGCTGGGGCTCAGCCCTGCGTTGGTACCGATACTACTGAAAACCTTGAGTTGCTAATGGAC
AAATACTTGAATCCTCGGGTGAGGGCACAGCTACCAACGGGGTGAGTTGCACACCACGGAAAGCATAGACTTGG
ACCCAACCAAACCCGAGAGTGCATCACCTCCTGCTGACGGCACGGGCTCTGCATCAGGCACCCCTTCTGTCTAGCC
AGCCCAAGTCTGGGCCAGCCTCTTTCATGATTCTAAGCCCTCTTCTCCTCGCCGGTGGCCTATGTGGAAACTA
AGTATTTCCCTCCCGCCATATCTCCCCTGGTTTCTGAAAAGCAGGTTGAAGTCAAAGAAGGGCTTGTTCGGTTT
CAGAGGATCCTGTAGCCATAAAGATTGCAGAGTTGCTGGAGAATGTAACCCTAATCCATAAACCAGTGTCTGTGC
AACCCCGTGGGCTGATCAATAAAGGGAAGTGGTGCTACATTAATGCTACACTGCAGGCATTGGTTGCTTGCCCGC
CGATGTACCACCTGATGAAGTTCATTCTCTGTATTCCAAAGTGCAAAGGCCTTGTAAGTCAACACCCATGATAG
ACAGCTTTGTTTCGGCTAATGAATGAGTTCACTAATATGCCAGTACCTCCAAAACCCCGACAAGCTCTTGGAGATA
AAATCGTGAGGGATATTGCCCTGGAGCTGCCCTTGGAGCCACATATATTTACAGACTCCTGACAGTTAACAAGT
CAAGCCTGTCTGAAAAGGGTCGACAAGAAGATGCTGAGGAATACTTAGGCTTCATTCTAAATGGACTTCATGAGG
AAATGTTGAACCTAAAGAAGCTTCTCTCACCAAGTAATGAAAACCTTACGATTTCCAACGGCCCCAAAAACCACT
CGGTCAATGAAGAAGAGCAGGAAGAACAAGGTGAAGGAAGCGAGGATGAATGGGAACAAGTGGGCCCCCGGAACA
AGACTTCCGTACCCGCCAGGCGGATTTTGTTCAGACTCCAATCACCGGCATTTTTTGGTGGACACATCAGGTCTG
TGTTTTACCAGCAGAGTTCAAAGAATCTGCCACTTTGCAGCCATTTTTTACGTTGCAGTTGGATATCCAGTCAG
ACAAGATACGCACAGTCCAGGATGCACTGGAGAGCTTGGTGGCAAGAGAATCTGTCCAAGGTTATACCACAAAAA
CCAAACAAGAGGTTGAGATAAGTGAAGAGTGACTCTGGAAAACTCCCTCCTGTCTCGTGTGCACCTGAAAC
GATTCGTTTTATGAGAAGACTGGTGGGTGCCAGAAGCTTATCAAAAATATTGAATATCCTGTGGACTTGGAATTA
GTAAAGAACTGCTTTCTCCAGGGGTTAAAAATAAGAATTTTAAATGCCACCGAACCTATCGGCTGTTTGCAGTGG
TCTACCATCACGGCAACAGTGCAGCGGGCGGCCATTACACTACAGACGTCCTCCAGATCGGTCTGAATGGCTGGC
TGCGCATCGATGACCAGACAGTCAAGGTGATCAACCAGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCT
ACCTCCTGTATTACCGCCGAGTGGACCTGCTG**TAA**ACCCTGTGTGCGCTGTGTGTGCGCCAGTGCCCGCTTCGT
AGGACACCACCTCACACTCACTTCCCGCCTCTCTTTAGTGGCTCTTTAGAGAGAACTCTTCTCCCTTTGCAAA
AATGGGCTAGAATGAAAAGGAGATGCCTTGGGGTTCGTGCACAACACAGCTTCTGTTGACTCTAACTTCCAAATC
AAAATCATTGGTTGAAACAGACTGTTGCTTGATTTTAGAAAATACACAAAAACCCATATTTCTGAAATAATGCT
GATTCCTGAGATAAGAAAGTGGATTTGATCCCCAGTCTCATTGCTTAGTAGAATAAATCCTGCACCAGCAACAAC
ACTTGTAATTTGTGAAAATGAATTTTATCTTTCTTAAAAAAGAAATTTTTTAATCCATCACACTTTTCTTCCC
TACCTTTAGTTTTTGTATAAATGATAAAATGAGCCAGTTATCAAAGAAGAACTAGTTCTTACTTCAAAAAGAAAA
ATAAACATAAAAAATAAGTTGCTGGTTCCCTAACAGGAAAAATTTTAATAATTGTACTGAGAGAACTGCTTACGT
ACACATTGCAGATCAAATATTTGGAGTTAAAAATGTTAGTCTACATAGATGGGTGATTGTAACTTTATTGCCATTA
AAAGATTTCAAATTGCATTTCATGCTTCTGTGTACACATAATGAAAATGGGCAAATAATGAAGATCTCTCCTTCA
GTCTGCTCTGTTTAAATTCTGCTGTCTGCTCTTCTCTAATGCTGCGTCCCTAATTGTACACAGTTTGTAGTATCT
AGGAGTATAAAGTTGTGCGCCATCAATAAAAAATCACAAAGTTGGTTT

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FIGURE 4607

MALHSPQYIFGDFSPDEFNQFFVTPRSSVELPPYSGTVLCGTQAVDKLPDGOEYQRIEFGVDEVIEPSDTLPRT
SYSISSTLNPQAEFILGCTASKITPDGITKEASYGSIDCQYPGSALALDGSSNVEAEVLENDGVSGGLGQRRK
KKKKRPPGYYSYLDGGDDSSISTEALVNGHANSAPNSVSAEDAEFMGDMPPSVTPRTCNSPQNSTDVSDIVPD
SPFPGALGSDTRTAGQPEGPGADFGQSCFPAEAGRDTLSRTAGAQPCVGTDTTENLGVANGQILESSGEGTATN
GVELHTTESIDLDPKPEASAPPADGTGSASGTLPVSQPKSWASLFHDSKPSSSSPVAYVETKYSPPAISPLVSE
KQVEVKEGLVPVSEDPVAIKIAELLENVTLIHKPVSLQPRGLINKGNWCYINATLQALVACPPMYHLMKFIPLYS
KVQRPCTSTPMIDSFVRLMNEFTNMVPPKPRQALGDKIVRDIRPGAAFEPTYIYRLLTVNKSSLSEKGRQEDAE
EYLGFI LNGLHEEMLNLKLLSPSNEKLTISNGPKNHSVNEEEQEEQGESEDEWEQVGPRNKTSVTRQADFVQT
PITGIFGGHIRSVVYQQSSKESATLQPFFTLQLDIQSDKIRTVQDALESLVARESVQGYTTKTKQEVEISRRVTL
EKLPPVLVLHLKRFVYEKTGGCQKLIKNIYPVDLEISKELLSPGVKNKNFKCHRTYRLFVAVYHHGNSATGGHY
TTDVFQIGLNGWLRIDDQTVKVINQYQVVKPTAERTAYLLYYRRVDLL

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FIGURE 4608

GGAAGCCGACGCCGCGCTCGCATGCTCGCAGGCGCCGCGTAGCCGTGCGCACCGCCGCCAGCCCCTGCGCCCTCG
GCGCGTACCCGCCGCGCTCCCATCCCCGCCGCCGGCCAGGGGCGCGCTCGGCCGCCCGGACAGTGTCCCGCTGC
GGTCCGCGGCGATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGCGACGACGGC
TCGGCCGTCTATCTGGGTGACTTTTAAATATGACGGCTCCACCATCGTCCCCGGCGAGCAGGGAGCGGAGTACCAG
CACTTCAITCCAGCAGTGCACAGATGACGTCCGGTTGTTTGCCTTCGTGCGCTTCACCACCGGGGATGCCATGAGC
AAGAGGTCCAAGTTTGCCCTCATCACGTGGATCGGTGAGAACGTGAGCGGGCTGCAGCGCGCCAAAACCGGGACG
GACAAGACCCTGGTGAAGGAGGTTCGTACAGAATTTTCGCTAAGGAGTTTGTGATCAGTGATCGGAAGGAGCTGGAG
GAAGATTTTCATCAAGAGCGAGCTGAAGAAGCGGGGGGAGCCAATTACGACGCCCAGACGGAGTAACCCAGCCC
CCGCCACACCACCCCTTGCCAAAGTCATCTGCCTGCTCCCCGGGGGAGAGGACCGCCGGCCTCAGCTACTAGCCC
ACCAGCCCACCAGGGAGAAAAGAAGCCATGAGAGGCAGCGCCCGCCACCCTGTGTCCACAGCCCCACCTTCCCG
CTTCCCTTAGAACCCCTGCCGTGTCCTATCTCATGACGCTCATGGAACCTCTTTCTTTGATCTTCTTTTTCTTTTC
TCCCCCTCTTTTTTGTTCATAAGAAAAGTCATTTTGATGCAAGGTCTGCTGCCATCAGATCCGAGGTGCCTCC
TGCAGTGACCCCTTTTCTGTCATTTCTCTTCCACGCGACGAGGTCTGCCTAGTGAGATCTGCATGACCTCACGT
TGCTTTCCAGAGCCCGGGCCTATTTTGCCATCTCAGTTTTCTGGACCCTGCTTCCTGTGTACCACTGAGGGGCA
GCTGGGCCAGGAGCTGTGCCCGGTGCCTGCAGCCTTCATAAGCACACACGTCCATTCCCTACTAAGGCCCAGACC
TCCTGGTATCTGCCCCGGGCTCCCTCATCCCACCTCCATCCGGAGTTGCCTAAGATGCATGTCCAGCATAGGCAG
GATTGCTCGGTGGTGAGAAGGTTAGGTCCGGCTCAGACTGAATAAGAAGAGATAAAATTTGCCTTAAACTTACC
TGGCAGTGGCTTTGCTGCACGGTCTGAAACCACCTGTTCACCCCTCTTGACCGAAATTTCTTGTGACACAGAG
AAGGGCAAAGGTCTGAGCCCAGAGTTGACGGAGGGAGTATTTACAGGGTTCACTTCAGGGGCTCCCAAAGCGACAA
GATCGTTAGGGAGAGAGGCCAGGGTGGGGACTGGGAATTTAAGGAGAGCTGGGAACGGATCCCTTAGGTTACAGG
AAGCTTCTGTGTAAGCTGCGAGGATGGCTTGGGCCGAAGGGTTGCTCTGCCCGCCGCGCTAGCTGTGAGCTGAGC
AAAGCCCTGGGCTCACAGCACCCCAAAAGCCTGTGGCTTCAGTCCTGCGTCTGCACCACACATTCAAAAGGATCG
TTTTGTTTTGTTTTTAAAGAAAGGTGAGATTGGCTTGGTTCTTCATGAGCACATTTGATATAGCTCTTTTTCTGT
TTTTCTTGCTCATTTTCGTTTTTGGGGAAGAAATCTGTACTGTATTGGGATTGTAAAGAACATCTCTGCACTCAGA
CAGTTTACAGAAATAAATGTTTTTTTTGTTTTTCAG

4994/6881
FIGURE 4609

MATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGSTIVPGEQGA EYQHFIQQCTDDVRLFAFVRF TTGDAMSKRSK
FALITWIGENVSG LQRAKTGTDKTLVKEVVQNF AKEFVISDRKELEEDFIKSELKKAGGANYDAQTE

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FIGURE 4610

GCGGCCGGCGGCGTCTCCTCCCGGGACGCTGAGGGGCCCCGAGGAGACCGTGAGGCTCTGGCCTGCAGCTCGCGCC
GCC**ATG**GACGCTGCCGAGGTGGAATTCCTCGCCGAGAAGGAGCTGGTTACCATATCCCCAACTTCAGTCTGGAC
AAGATCTACCTCATCGGGGGGACCTGGGGCCTTTTAACCCTGGTTTACCCGTGGAAGTGCCCTGTGGCTGGCG
ATTAACTGAAACAAAGACAGAAATGTCGCCTGCTCCCTCCAGAGTGGATGGATGTAGAAAAGTTGGAGAAGATG
AGGGATCATGAACGAAAGGAAGAACTTTTACCCCAATGCCCAGCCCTTACTACATGGAACCTTACGAAGCTCCTG
TTAAATCATGCTTCAGACAACATCCCGAAGGCAGACGAAATCCGGACCCTGGTCAAGGATATGTGGGACACTCGT
ATAGCCAAACTCCGAGTGTCTGCTGACAGCTTTGTGAGACAGCAGGAGGCACATGCCAAGCTGGATAACTTGACC
TTGATGGAGATCAACACCAGCGGGACTTTCCTCACACAAGCGCTCAACCACATGTACAACTCCGCACGAACCTC
CAGCCTCTGGAGAGTACTCAGTCTCAGGACTTCT**TAG**AGAAAGGCCTGGTGCAGGCGGCTTGCTGGGGGATGTGAG
CGCTCAGGATGTGATGAGGTACTCGTGGTTCTGGAGCTCTAGAAACACTTCTGATGCATGAAAAATGTGTGATGG
TGCAAGGAATGGATTGAGGATGTTGTTGGAGAAACAAGTTTGTGATTAGTCCTTAAACCTTAGCTCCCTGGGACA
TTCTTCAATTCCACATCTGTTTCTAGAAACCAGCCCTTTTTCCCCCACTTTTGAGAAATAAAAAAGCCTTAGGT
AAATAAGTCATTCTCCCTAGCAGAGCCACTTGGGTCTCCTGCATGGAAGCCGTCACACTTGGGCAGGTGTTTCACT
GACTGGTAGGTGTAGATACAGCAGGAGTGGCCATGTGGTCCACGGCTTTTTACCCCTTCTTGATCCTGATTTCTT
GGGCTGAATTTAGACTCTCTCACAGAGGTGGCTCACAGAGAAGGATGGCAGATGGTGCAGCCAACAATGCTGACC
GGTGCTTATCCTCTAAGCCCTGATCCACAATAAAAATGGACCCAACCTCAAAAAAAAAA

4996/6881
FIGURE 4611

MDAAEVEFLAEKELVTIIPNFSLDKIYLIIGGDLGPFNPGLPVEVPLWLAINLKQRQKCRLLPPEWMDVEKLEKMR
DHERKEETFTPMPSPYYMELTKLLLNHASDNIPKADEIRTLVKDMWDTRIAKLRVSADSFVRQQEAHAKLDNLTL
MEINTSGTFLTQALNHMYKLRTNLQPLESTQSQDF

4997/6881
FIGURE 4612

GGCACGAGGCTTCCCAGAGGCGCGAGTCGCTTTTCCAGGAGCCGAGGCCCAAACGGGGCCGGGCCTGAAGGGTCC
CCCGCCAGCCCGCGGCCGCGCCATCAATCGCCGCGGCCTCGTCCCGCTTCTCGGCTGAGGCGCCGCGCGGCCAGG
CAGC`GGGTCCAGGCCTCAGCCGCGCGCCAGGGGCCCTCCGGGGCCCTCCCGGGTCAGCATGCCCGGGGTGAAACT
GACCACCCAGGCCTACTGCAAGATGGTGCTGCACGGCGCCAAGTACCCGCACTGCGCCGTCAACGGGCTCCTGGT
GGCCGAGAAGCAGAAGCCGCGTAAGGAGCACCTCCCCCTGGGCGGGCCCCGGCGCCACCACACCCTCTTCGTGGA
CTGCATCCCCCTCTTCCACGGCACCCCTGGCCCTCGCCCCATGCTGGAGGTGGCTCTCACCCCTGATTGATTCATG
GTGCAAAGATCATAGCTACGTGATTGCTGGTTATTATCAAGCTAATGAGCGAGTAAAGGATGCCAGTCCAAACCA
GGTTGCAGAGAAGGTGGCCTCCAGAATCGCCGAGGGCTTCAGCGACACTGCGCTCATCATGGTAGACAACACCAA
GTTTACGATGGACTGCGTAGCGCTACGATCCACGTGTACGAGCACCATGAGAACAGATGGCGGTGCAGAGACCC
ACACCATGACTACTGTGAAGACTGGCCAGAGGCACAGAGGATCTCAGCCTCGCTCCTGGACAGCCGGTCTCTACGA
GACGCTCGTGGATTTTCGATAACCACCTGGATGACATTTCGGAATGACTGGACAAACCCAGAGATCAATAAAGCTGT
CCTACACTTGTGCTAGGCAGGCACCGCTGTGACTGGGCTCCGGGCCTTTCCACTACGTTGAAGAAGAAAACCTAT
TTTTAAATGTAAATAAAATATCTGGTAGCCTGTGTGGAAAGCTGACCGTTTTAAGAAGTGGCATGTGCCTTGAAA
GGGGGCAGAATGTTTCAGTCGGTCGTGTTTTTAACACAGAGTCTCTAGAAGAGGTGCAGACATCCCGTCTGACTGT
CCCTGTGGACTCTCTCAGTTGTATGTTGCTATAATCCTCCAAATCAAAGCTCTTTCTGCTTGTGCAAGATTGTTT
CTATTAAACAGTTTTTAACCTTTTATAATCTGGAGAGAATACTTTTTAAGGCTTTTGAACCTATCTTTTTTTA
AAAAAAAAAAAAAGCCACATCTTATACTCCAATGAGTGTGTTTGTGAGTTTTTATCCTGTTTGAATTTTGATGT
CGTCCAGGCGTCCTGGGATCAGGGTAGACACGTGGAGTGCTGGTGCTGAGCTGTTTGAGAAGCTCTGTGTGGGTG
TTTCTGTGGTCAGGTAGGCTGGGCTGTGAACAGCACTGCTCCACATGGTGTCGGCTCACAGAGCCACCGCAACTC
TGCCAGCGGGAGTGACACCACTGATGCCACAGAAGCCTTTATCGTTAGGGGCAAAAGCAGACATCTCTGGTAGC
AGGAGCTCAGTGTGGTGCTCTTCAGCCACGCAGAAAGCTCACGTGCCTGCAGGGCCAGGAAAGGGAAATGATCGT
TTCTTTTGTATTAGGAAAAACAAGACTTAGACTTCCCGAGTTGTGCAGAGTGACGTCTGTACTTTTTATACTTAG
AACATTTGGTCAAGTTTTGTAAACAAACCTTAGGGAATTGAGAGGGAAACTTTATGGTACGTTTACCTTTTTTCC
TTTTTATATGAATTATTTGTACAAAGTTTCAGAGAGCGGTACCTTTTCTACTGTCTTTTCTTTGACTCCATGGAG
GAATTTGTAACGATCGGTGTGACCTGAAAAGGTTTGTGATACAGCGGTCACTATTTTCTCTTAACACATAGGAAA
AAAGTTCAGACATCGCTACAATAAATGTGCTTTATTTGATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4998/6881
FIGURE 4613

MPGVKLTTQAYCKMVLHGAKYPHCAVNGLLVAEKQKPRKEHLPLGGPGAHTLFFVDCIPLFHGTLALAPMLEVAL
TLIDSWCKDHSYVIAGYYQANERVKDASPNQVAEKVASRIAEGFSDTALIMVDNTKFTMDCVAPTIHVYEHENR
WRCRDPHHDYCEDWPEAQRISASLLDSRSYETLVDFDNHLDDIRNDWTNPEINKAVLHLC

4999/6881
FIGURE 4614

CGACGTTTCGCAGCGCTACCCCTTTTCCGCTCCACGGTGACCTCCGTGCGGCCGGGTGCGGGCGGAGTCTTCCTCGA
TCCCGTGGTGCTCCGCGGGCGCGGCCTTGCTCTCTTCCGGTCGCGGGACACCGGGTGTAGAGGGCGGTTCGCGGCGG
GCAGTGGCGGCAGAAATGTTGGCTACCAGGGTATTTAGCCTAGTTGGCAAGCGAGCAATTTCCACCTCTGTGTGTG
TACGAGCTCATGAAAGTGTGTGAAGAGCGAAGACTTTTCGCTCCCAGCTTATATGGATCGGCGTGACCACCCCT
TGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCACTGAAGGAGAAGGAGAAGGCCTCCTGGA
GCAGCCTCTCCATGGATGAGAAAAGTCGAGTTGTATCGCATTAAAGTTCAAGGAGAGCTTTGCTGAGATGAACAGGG
GCTCGAACGAGTGGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTCACCGCGCTCGTTATCATGTGGC
AGAAGCACTATGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGC
TGGACATGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGGAAGAAGTGAG
AGATGCTGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTACCGCCATGCAACTCCATGCCTATTTACTGGAAACC
TGTTATGCCAAACAGTTGTACCACTGCTAATAAATGACCAGTTTACCTGAAA

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FIGURE 4615

MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLSASQKALKEKEKASWSSL
DEKVELYRIKFKEFSAEMNRGSNEWKTVVGGAMFFIGFTALVIMWQKHVYVGPLPQSFDKEWVAKQTKRMLDMKV
NPIQGLASKWDYEKNEWKK

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FIGURE 4616A

GTTCTAGAACATTCTCATCACCCATATTTACATTTATTTTTAATAACTCTCATGTGTAAGCTGAGTGTTTTAAAC
TTTAGAGACTTCTGGGGGGTGCTGAACCTTGATAAAAAATATTCAGTATACAAGTGTTCTTTATAGTTCACTCATCA
TTTTTCATAGAATTAGGGTTTTTAAAATTAGAAAGTAATTTAGGCCATTTCCATCTCCTGTCCCTCAAATCCCAGCT
CAGTTTTTGGGATGAGGTGTCAAGTATAAGTTTGTAAGTATGCCAGTCATTTGCACGGCTAAGAGAAACATCTAGA
GAAGTCTATATACGACTTGCTTAAAGCTGAATGTTGATTACTGTTACATGATTTGGGTGATTTTAGTCACTGG
GACTGAGCTAATGGAGTTGAAGCATTGTTGCGGGCATTGTACCTCCAGACCAGTGTGTAATACAAAGAGTCTTG
CAGACATAGGACAGAATTGGAGAAACAGCTTCTAACAGTGGAAGACTCTCAGTACAACCAAGCTATTCCCTTACC
TTTCTGATTTCTGAACTTTTTCCATGTGATACCTGCTGCTTTGAAGGCACTAAAATAACAGAAGCAGATAGAGC
AGAAATCCTCACTCAGATCTTCTCCTTCCCTACCTGTATAACAGTTTGTGGCTTGCCTTGTCTGTTTTGTGCGTT
TCGTTACGCGTATGTGAGTATGTGCACGTGATTTCCAGAAAAGGAGAAGCGCACGATACTGCCCCGTGCTCTGTGAC
TCCTGAGTGCACGCTTCCCTCTGCATTTGGGCTCCTAGGTCGGCCTCGTCTGTGGACGTTGCCCTTGTTCGTG
CCATCCACACATTCCTGATGCCCCGCTGCTCTACTCTTCTCCAGAGTACTTTTTCCAAACATGTGATTTGCACA
TTTGTTATGTTTATGTTTGTGTTTTTCCACTTCTAGAAGTGTGCCACTAGGCAGGAATGTTTGATTTGTTCACTGAT
GATCCCAGATCTCTAGAACCCTGCCTTGCCTGTAGAGGGTGCTTGGTAAATGTGCTCTGAATGAATGGCTCCATG
ATCCTCGTTTTCTAAGAGCTAGCACGATTTCTCACTCAGTCCGTGGTTGGACACAGGTTCCCTGGAACAGTGCTGTT
GTGGTTATCTTCTCACGTGTCTTTGTTTCTGAACCTGAAACGCTTTGAGTTTTTTATTGTTTTTGTCTCTCCTCA
TTAGTTTGAGTCCCTTGAGATAGGCTTTTCATTTTGTCCAGTCACCTGTTTCAGGGAGCCCTGAGGGCCTTGGCCC
ACGTCTGCAGGTAACCTGGTTTTTTTTATTTTTATTTTTTATTTTGAGACGAAGTCTCGCTCTGTCAACCAGGCTGG
AGTGCAGCGGTGCGATCTCAGCTCACTGCAACCTCCGCTCCTGCGTTCAAGCGATTCTCCTGCCTCAGCCTTCC
GAGTAGCTGGGACTATAGGCACGTGCCGCCACGCCCGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTTAC
CATGTTAGCCAGGATGGTCTCGATCTCCTGACATCGTGATCCGCCTGCCTGGGCCTCCCAAAGTGCTGGGATTAC
AGGTGTGAGCCACCGCGCCAGCCCTGCAGGTAACCTGTTAATGTAGGAAGTGCTGCCTCTGGGCACCTTGGCCCC
AGGGTTCAATTAGCAGTTGCCCTGGTGGGTTTTTGTGTTGGCTGTGATGAGAAGTGCTTCTGTTCCCCCTCCACCAC
ACTCCTGCAACTGTTTAAACAGTGGCTGTGACCCCTGAGATGATCCAGGGTTTTCAAGGCGTGACATGTCTGTG
TTTCGGTTTTTCAGAAGTATCACCTTGGGGTGACTCTCAACTTACATGGATTTTCAAAGATTTATTCAATATGTTT
TTCAGAAAGTGTGTGAAGAGCGAAGACTTTTCGCTCCCAGCTTATATGGATCGGCGTGACCACCCCTTGCCGGA
GGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCATTGAAGGAGAAGGAGAAGGCCTCCTGGAGCAGCCT
CTCCATGGATGAGAAAGTCGAGTGTGGGTATTGAAGGGACCCACAGGCGCGCCAGCAGCTCTCGGAAGCGTGTG
TGTGACAGAGCCTCTGCTCACTTCTGGGCCTACTGTCTAGAGGCAGTCTTGACAGGAGGGTTGCTCTGCTGGGT
TTCGGGGTCACTGTGCCAGGGCCCCAGTTTATGTGCTCACCAGTCACTTAGCTCTGCCAGCTGACAGGATCTTTT
GCTAGGCCCCCTTCTCTGTGCTGAGTGGAGGTAGCCTCTCAGCATATCTGCTGGGTAAGACATAGTTAACTGTAA
ATTATTGAAAGAACTCAGCAAAATGCATAGTGTGTTGGTATGAAAGGGGCAGAAAAATAACAAGATTAAATAGAC
CCTAATACTGTAATTCAGTAAGAAATAATTTTGCAGTTTTAATTTGCACCTGAAGCGAACTGTATGCATTTTCT
TCTTTCCTTGCCCTGTACATGCCTGCGTGGGCACGTGTGTGCACGTACGTGCGTGAACATGATGTGGCCTGGGT
TGGTGTATCCTTCAGCTCTGTGTTTTCTCCTTCAAGTGTGGTTTTTGGGGAGAAGTGGTTGAATGTTGCAGAGG
AGGGAGCTGCTGACCTTTGTGCCTGTAAATGGCTGTCTCTGCCCCAGTGTATCGCATTAAAGTTCAAGGAGA
GCTTTGCTGAGATGAACAGGGGCTCGAACGAGTGGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTTCA
CCGCGCTCGTTATCATGTGGCAGAAGCACTATGGTGAGTAGAGAGGGAGGAAGGCATGGGCGCCTGGACTGGGGC
TCCAGCCTGCAGTGCCCATTTGGTGGGCTGTGCGGGACCTCCATACCTTGAGGCTATGAGATAGGGACTGCATTCC
AGAGTTCATCTCAGGATTGTTTTCCAGGCCTTGGTGACCTGGAGAAGTGAAGTCGTGGGAGGTTAGTTTATAAGCC
AGCATCTGATTATTCATAGCCATGCTTGTGTTGGGTGGTGAATACCTTAACTACTTTGTACAGCACACCACGTTTT
CAGTAGCAATTTATGTGCTCACCAGTCACTTAGCGAAAGATGACTTCGTGAAGGTTTCGAGCAAGGATAAGGGGAC
TCATTCAATTGAATGACTGTCTGGACTGTTGTGAGGACTGCATCTCAACAGCCAGCATCTGGGGGTCCCGACCTGA
TAGTTTGTGTGTGGGCATTGCCGGGTGCTCGCTCGTGGTAATGACTCTTCCCCGAGGTTCTTTCTGTCCAGGCA
GAACAGGCATTTTTGCATTCTGAATAGGTATATTCTCGTACTTTTGGTTTGAATGTGGATGTGGGTTAATAACAG
ACCCGAATCTATTTGATCTTCCAGGTCACCTTGGGCTCTGTTTGTGATCCTGTTATCCATAGCCTTTAGAGAG
GACCTTCTGCTTTTAGCTTATTTTGTGCTAACTTTTTACAAACAAAGGGCTAATTTTTAAATGTCAGTGTGTGTC
AGTGGTCAGAAACCGTGTGTTTGTGAGCGGGTGTGAGTGGCAGGTGGCTCTGCTGACCTGGTGGCTGGTGTGTCGG

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FIGURE 4616B

GAGGATTTAACCTGTGTGAGGGATTGGCCTAGAAACAACCTGTTGAGATAGTCTTGCCCCATAACCTGTCTCACA
CCGTAGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGCTGGACA
TGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGAAGAAGTGAGAGATGC
TGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTACCGCCATGCAACTCCATGCCTATTTACTGGAAACCTGTTAT
GCCAAACAGTTGTACCAC TGCTAATAAATGACCAGTTTACCTG

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FIGURE 4617

GCCGTTTTCTTTCCTGGTGTCCCGTCGCGGCTTGGGACCCGGCAAGATGGGCAAGAAGGGCAAGAAGGAGAAGAA
GGGCCGCGGCGCGGAGAAGACGGCCGCCAAGATGGAGAAGAAGGTGTCTAAGCGCTCGCGGAAGGAGGAGGAAGA
CCTGGAAGCGCTCATAGCCCATTTCCAGACACTCGATGCCAAGAGGACTCAGACTGTGGAACCTCCGTGCCCCC
ACCCTCACCAAGGTTAAATGCCTCCCTCTCGGTTTCATCCTGAGAAAGATGAGTTAATCCTTTTTGGAGGTGAATA
TTTCAACGGCCAAAAAACTTTTTGTATAACGAGCTCTATGTCTACAATACCAGAAAGGACACCTGGACCAAAGT
TGACATCCCCAGTCCACCTCCGAGGCGCTGTGCTCACCAGGCGGTGGTAGTGCCTCAAGGTGGCGGACAGCTGTG
GGTCTTTGGAGGGGAGTTTGCCTCTCCCAACGGAGAGCAGTTCTACCACTACAAGGATCTCTGGGTCTGCATTT
GGCCACCAAGACCTGGGAACAAGTCAAATCAACAGGCGGTCCCTTCGGGTTCGGAGTGGACATCGGATGGTGGCCTG
GAAGAGACAATTGATCCTGTTTGGTGGCTTCCATGAAAGTACACGGGATTACATCTACTACAACGACGTGTATGC
CTTTAATCTGGACACCTTCACATGGAGCAAGCTGTCCCCGTCAGGGACGGGGCCACACCCAGATCAGGCTGCCA
GATGTCCGTCACTCCCCAGGGCGGCATCGTCGTCTATGGGGGCTACTCGAAACAGAGAGTTAAGAAAGACGTGGA
CAAGGGCACACGGCACTCAGACATGTTCTGCTGAAGCCAGAGGACGGAAGAGAAGACAAGTGGGTTTGGACTCG
GATGAACCCCTTCGGGGGTCAAGCCCACCCACGGTCTGGCTTTTCCGTGGCCATGGCCCCGAATCACCAGACACT
GTTCTTCGGGGGTGTCTGTGACGAGGAAGAGGAGGAGAGCCTGTGCGGCGAGTTCTTCAACGATCTGTACTTCTA
CGACGCCACCAGGAACCGTTGGTTTTGAGGGACAGCTGAAGGGACCCCAAGTCTGAAAAGAAGAAACGCAGGCGGGG
CAGAAAAGAGGAGCCCGAAGGTGGTAGCAGGCCGGCGTGTGGGGGAGCTGGCACCCAGGGGCCTGTGCAGCTGGT
CAAGGAGGTGGTGGCCGAGGATGGCACCGTGGTCAACCATTAAAGCAGGTGCTCACCGCGCCAGGCTCGGCGGGGCA
GCCCCGGTCTGAGGACGAAGACAGCCTTGAGGAGGCCGGCAGCCCCGCACCTGGGCCGTGTCCACGCTCCAACGC
CATGCTGGCTGTGAAGCATGGGGTGCTCTACGTCTATGGGGGCATGTTTGAGGCCGGCGACCGCCAGGTCAACCCT
CAGCGACCTGCACTGCCTGGACCTGCACAGGATGGAGGCGTGGAAGGCCTTGGTGGAGATGGACCCAGAACTCA
GGAGTGGCTGGAGGAGACGGACTCGGAAGAGGACAGTGAGGAGGTTGAGGGCGCCGAGGGTGGGGTCGACGACGA
AGACAGCGGAGAGGAGAGCGGTGCGGAGGACTGAGAAGAGCCCCTGCCAGGGGCGCCTGGCAAGTGCTGTGCCCA
CGTCCGCCCAGGACCCAGCCGTGTTGAGTGAAGCTCTTGGGGCCAGCGTGCCTGACGCACAGGAGAGAGCTG
AAGGTGGGTGGCCAGGCCAGGGTGTGAACCTTCTCCCATGGTTTAGTCTCTGACGCGGCACTGGGCCGGAAGTT
CAACTGAGTGCAGTGCAGGTGGATTCCCTCAGCAGCCTGTGTGTTGTGTGAAATAAATTGGACTTGAAACAAGAA
AAAAAAAAAAAAA

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FIGURE 4618

MGKKGKKEKKGRGAEKTAAMEKKVSKRSRKEEEDLEALIAHFQTLDAKRTQTVELPCPPPSPRLNASLSVHPEK
DELILFGGEYFNGQKTFLYNELYVYNTRKDTWTKVDIPSPPPRRCAHQAVVVPQGGGQLWVFGGEFASPNGEQFY
HYKDLWLHLATKTWEQVKSTGGPSGRSGHRMVAWKRQLILFGGFHESTRDYIYYNDVYAFNLDTFTWSKLSPSG
TGFTPRSGCQMSVTPQGGIVVYGGYSKQRVKKDVKGTRHSDMFLLKPEDGREDKWVWTRMNP SGVKPTPRSGFS
VAMAPNHQTLFFGGVCDEEEEEESLSGFEFFNDLYFYDATRNRWFEGQLKGPKSEKKKRRRGRKEEPEGGSRPACGG
AGTQGPVQLVKEVVAEDGTVVTIKQVLTAPGSAGQPRSEDEDSLEEAGSPAPGPCPRSNAMLAVKHGVLYVYGGM
FEAGDRQVTLSDLHCLDLHRMEAWKALVEMDPETQEWLEETDSEEDSEEVEGAEGGVDDDEDSGEESGAED

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FIGURE 4619

GGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGCGGGCGGCGCGGGCCTGGCCCCGGGATGGCTAT
GTTCCGCAGCCTGGTGGCCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCGGCGGGCGGCGACAGCGGCCTGGA
GGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACC GGCCCGTGGCCATCGGCAGCTGCGGCCACACGTT
CTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCATGCCCTTCGACCC
CAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCTACAAAGCGCCCTGTGAGGCTGCAACAA
AAAGGTGACCCTGGCAAAGATGAGAGTGCACATTTCTGCTCCTGCTGAAGGTCCAGGAGCAGATGGCCAACTGCCC
CAAGTTCGTCCCCGTGGTGGCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCGCCTGCCC
GTACTGTGGTGGCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAAGCCACCGCAGCGACCCCAA
CCGCGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCCACTACAAGAGCGCCAACCTTCCTGCAGCA
CCTGCTTCACCGACACAAGTTCTCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCTTCAGGC
TGCTCTGGCCCTGTCTCTCTCTGAGAACTGAAAGGGAAGCGCAGCCACCCGCTGCGTCTGGGGTCAGGGATGTCC
CCGCTCCTGTGTGCGACCTGGCACCTGCTCGGGAGTGCACCTACCGGACTGAGCTCACAGGAGGAGCCTGCACC
CGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAGCAGGGCC
GCCTGGTCCCACCGGCGTCTGCTGGGTTCTTCGGTGCTTCTGGCCGAGCAGGCGGCCTACTTGGGCAGGGCTGGAC
GCTGAGACCTGGAGCTGCCACCGTCTCTTCAAGCCATGATACCCCTCGTGGGAAGAAGGGACCGACGCGCGAGT
CGCGGCTGCGCAGTCGAGCCCGGGAGGAACCCAGGCTGCTGCCCTGGCCAGCCCGACCTGCCCCGGCCCCACTT
CCACCTTGCGCATTTGGTACTGGCTTTTGTGATACTTAGGAACCCTGGCATCTTTTCTATATTATCCAGTGTGAT
AATCTTTTACGTTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACTAGGAAT
AATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTTAAGAAAACAATCAAACAAGCATTTGGGGGATTGGG
GCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCTGCCCTG
GCCACCCACTGTGTGTCTGGGTCCTTGAGGTTTGTACGTTTCTCTTTGATGACCAGGAAGAAATCCCAGCACCCC
AGCCACAGGCTGTGGCTGCTCCCAGCAGAGGCGGGGCCGGCAGAGAAGGGGCCTCCTCCACCCAGAGTCCTGGCC
TTGGCCCGCTGTCACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCCACTGGTGGCAGAGCTT
GGGGGCCTGGGCAGGGGCCCGCTTGCGGGGCCGGGCAACACGTCAACATTCTTTTCTGTTCTTGGCATTAAATTAT
TGCTGTCTTTTTTTTTAAAAAAAAGTTTAAATAAAATGTCTCAGAGC

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FIGURE 4620

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQPCLQVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVVPVTSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLEN

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FIGURE 4621

CTCCGACGTCATCGGGGCGCGCCCTCGCGCTGTGCGCCGCCACAGTCTGCGACGGGACCCGGCGTGCCCATGTGTC
AGGTGGGCGAGGACTACGGGGAGCCGGCGCCTGAGGAGCCGCCCCGGCGCCGCGGGCCAGGGACTGTTTCAAGG
CCTTCTACGTCCACAAGTTTCAGAGCCATGCTGGGCAAGAACCGGCTCATCTTTCCAGGCGAGAAGGTGCTCTTGG
CGTGGTCTGGGGGGCCTTCGTCCAGCTCCATGGTCTGGCAGGTTCTTGAGGGCCTGAGCCAAGATTCTGCCAAAA
GACTGCGCTTTGTGGCAGGAGTCATCTTTGTTGACGAGGGAGCAGCCTGTGGCCAGAGCCTAGAGGAGAGATCAA
AGACCTTGGCCGAAGTGAAGCCCATTCTGCAAGCAACTGGGTTCCTCATGGCATGTGGTGGCCTTAGAGGAGGTGT
TCAGCCTGCCACCGTCGGTGCTTTGGTGCTCTGCCCAGGAGCTAGTGGGATCCGAGGGGGCCTACAAGGCGGCCG
TGGACAGCTTCTCCAGCAGCAGCATGTGCTGGGGGCGGGGGTGGTCCTGGCCCGACTCAAGGGGAGGAACAGC
CACCCAGCCCCGCTGGACCCCCAGAACCTGGCAAGACCGCCTGCCCTGCCAGACTGAGGCTCTTTCCCAAC
TGTTCTGCTCAGTGAGGACACTGACTGCCAAGGAGGAGCTTCTGCAGACCCTGCGGACCCACCTGATCCTCCACA
TGGCCCGAGCCACGGCTACTCCAAGGTCATGACTGGGGACAGCTGCACACGCTTGGCTATCAAGCTCATGACCA
ACCTGGCGCTGGGTGAGGGGCCTTCCTGGCCTGGGATACGGGCTTCTCGGATGAGCGGCACGGGGACGTGGTGG
TGGTGGGGCCCATGCGGGACCACACCCTGAAGGAGGTCGCTTTCTACAACCGCCTGTTCTCTGTTTCTTCTGTCT
TCACACCAGCCGTCGACACCAAGGCCCTGAAAAGGCCAGCATCCACCGGCTGATGGAGGCCTTCATCCTCAGGC
TGCAGACCCAGTTCCCCCTCCACTGTCAGCACTGTGTACAGGACAAGTGAGAAGCTGGTGAAGGGCCCCGGGATG
GCCCTGCTGCTGGCGACTCCGGCCCCCGCTGCCTCCTCTGCATGTGTGCCCTGGACGTCGACGCCGCTGACAGTG
CCACGGCTTTTGGGGCTCAGACCTCCTCGCGTCTCTCCCAGATGCAGTCACCCATCCCCCTGACTGAGACCCGGA
CACCCCGGGGCCCTGCTGTTCTCCAGGGGTGGGCTGGGGCCAGCGCTGCGGCCAGGGGGCCTGTAGGAGGGAGG
ACCCCCAAGCCTGCATTGAGGAGCAGCTGTGCTACAGCTGCCGCGTGAACATGAAGGACTTGCCCTCACTGGACC
CCCTGCCGCCGTACATCCTGGCTGAGGCCAGCTCCGCACACAGAGGGCCTGGGGCTTGACAGGAGATCCGGGACT
GTCTGATTGAGGACAGTGACGACGAGGCGGGCCAGAGCTGAGCGTGAGGACGTGCTTGCCGGGACAGCAGGCAGT
GGCCACCTGGTACACCACACTGGAGCCGGAAGGCAAGGACGGGGGACTGGCCTCTGATTGTCCATTTGTATAAAT
AAAACATTTTTTAATT

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FIGURE 4622

CGCGCACTCCGCCGCCATGGAGCAGCGCCGCGTCACCGACTTCTTCGCGCGCCGCCGCCCGGGCCCCCCCCGCAT
CGCGGGCGCCCAAGCTGGCCTGCCGCACCCCCAGCCCCGCCAGGCCCGCACTCCGCGCCCCGGCCTCCGCTACCAG
TGGCAGCCGCAAGCGCGCCCGCCCGCCCGCCCGCCCGGACGCGACCAGGCCAGGACACCGGCCCGCAGGAGACT
GCGGCTGTGCGTGGACGAGGTTTCCAGCCCCAGTACCCCCGAGGCCCGCAGACATCCAGCCTGCCCTTCTCCGGG
CCAGAAGATAAAGAAATCCACCCGGCAGCAGGTCAGCCGCCCCACCTGACATCCGCGCAGGACCAGGACACCAT
CTCTGAGCTTGCGTCATGCCTGCAACGGGCCCCGGGAGCTGGGGGCAAGAGTCCGGGCGCTGAAGGCCAGTGCCCA
GGATGCTGGGGAGTCCCTGCACCCAGAGGCCGAGGGCCGCCCTGAGGAGCCATGTGGCGAGAAGGCGCCCGCCTA
CCAGCGCTTCCATGCCCTGGCCCAGCCCGGCCTGCCGGGACTCGTGCTGCCCTACAAGTACCAGGTGCTGGCGGA
GATGTTCCGCAGCATGGACACCATCGTGGGCATGCTCCACAACCGCTCCGAGACGCCACCTTTGCCAAGGTCCA
GCGGGGCGTCCAGGACATGATGCGTAGGCGTTTTGAGGAGTGCAATGTTGGCCAGATCAAAACCGTGTACCCGGC
CTCTTACCGCTTCCGCCAGGAGCGCAGTGTCCCCACCTTCAAGGATGGCACCAGGAGGTGAGATTACCAGCTCAC
CATCGAGCCACTGCTGGAGCAGGAGGCTGACGGAGCAGCCCCCAGCTCACGGCCTCGCGCCTCCTGCAGCGACG
GCAGATCTTCAGCCAGAAGCTGGTGGAGCATGTCAAGGAGCACCACAAGGCCTTCTGGCCTCCCTGAGCCCCGC
CATGGTGGTGCCGGAGGACCAGCTGACCCGCTGGCACCCGCGCTTCAACGTGGATGAAGTACCCGACATCGAGCC
GGCCGCGCTGCCCCAGCCACCCGCCACGGAGAAGCTCACCCTGCTCAGGAGGTGCTGGCCCCGGGCCCGCAACCT
GATTTACCCAGGATGGAGAAGGCCTTGAGTCAATTGGCCCTGCGCTCTGCTGCGCCCAGCAGCCCCGGGTCTCC
CAGGCCAGCACTGCCGGCTACCCACAGCCACCCCGCCTGCAGCCTCTCCAGTGCTCTGAAGGGGGTGTCCCA
GGATCTGCTGGAGCGGATCCGAGCCAAGGAGGCACAGAAGCAGCTGGCACAGATGACGCGGTGCCCGGAGCAGGA
GCAGCGGCTGCAGCGCTTAGAACGGCTGCCTGAGCTGGCCCGCGTGCTGCGGAGCGTCTTTGTGTCCGAACGCAA
GCCTGCGCTCAGCATGGAGGTGGCCTGTGCCAGGATGGTGGGCAGCTGTTGTACTATCATGAGCCCTGGGGAAAT
GGAGAAGCACCTGCTGCTCCTCTCCGAGCTGCTGCCGGACTGGCTCAGCCTCCACCGCATCCGCACCGACACCTA
CGTCAAGCTGGACAAGGCCGCGGACCTCGCCACATCACTGCACGCCTGGCCCACCAGACACGTGCTGAGGAGGG
GCTGTGAGCCTGGGGGCCACTGTGGACAGACGTGGGCTTCAAGAAGCTCGCTGGCCTGGGCCCACCAGCATTTTCT
TTTATGAACATGATACATTTTGGCCTTCCTTTCCCCAGCGCCCTGAGGGCCAGAGGCAGATGTGGGCTGCAGGC
TGCACAGCCCCAGGGTCTCTGGCTGCGGGCGGTGGGCCCTTCATGGGGCTCACCTGGTGGATTACATTAAACC
GGTTTCTGTGGGC

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FIGURE 4623

MFRSMDTIVGMLHNRSETPTFAKVQRGVQDMMRRRFEECNVGQIKTVYPASYRFRQERSVPTFKDGTRRSYQLT
IEPLLEQEADGAAPQLTASRLLQRRQIFSQKLVEHVKEHHKAFLASLSPAMVVPEDQLTRWHPRFNVDEVPDIEP
AALPQPPATEKLTTAQEVLARARNLISPRMEKALSQALALRSAAPSSPGSPRPALPATPPATPPAASPSALKGVSQ
DLLERIRAKEAQKQLAQMTRCPEQEORLQRLERLPELARVLRVSVFVSEKPKALSMEVACARMVGSCCTIMSPGEM
EKHLLLLSELLPDWLSLHRIRTDITYVKLDKAADLAHITARLAHQTRAEEGL

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FIGURE 4624

AGCCCGGGGCAGCCAGCAGTACCGGGCCCTGACCGTGCCCGAGCTCACCCAGCAGATGTTTCGATGCCAAGAACAT
GATGGCGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTACTTCG
TGGAGTGGATCCCCAACAACGTGAAGGTGGCCGTGTGTGACATCCCGCCCCGCGGCCTCAAGATGTCCTCCACCT
TCATCGGGAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCA
AGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACG
ACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAAGAGGGCGAGATGTACGAAGACGACGAGG
AGGAGTCGGAGGCCCAGGGCCCCAAGTGAAGCTGCTCGCAGCTGGAGTGAGAGGCAGGTGGCGGCCGGGGCCGAA
GCCAGCAGTGTCATAAACCCCCGAGCCATCTTGCTGCCGACACCCTGCTTTCCCCTCGCCCTAGGGCTCCCTTGC
CGCCCTCCTGCAGTATTTATGGCC

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FIGURE 4625

MAVQGSQRRLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFLSLGLVSLVENALVVATIAKNRNLHSPMYC
FICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAIADVDRYISIFYAL
RYHSIVTLPRARRAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVLMVAVLYVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFLLHLTLIVLCPEHPTCGCIFKNFNLFLALIICNAIIDPLIYAF
HSQELRRTLKEVLTCSQDRALVSWDVKSLGGSVCQELLPPQPPQEKGLCDQKASSTALQRLQKEFWVISDEH
GIDPSGNYVGDSDLQLERISVYYNEASSHKYVPRAILVDLEPGTMDSVRSGAFGHLFRPDNFIFGQSGAGNNWAK
GHYTEGAELVDSVLDVVRKECENCDCLOGFQLTHSLGGGTGSGMGTLISKVREEYPDRIMNTFSVVPSPKVSDF
VVEPYNATLSIHQLVENTDETYCIDNEALYDIFRTLKLATPTYGDLNHLVSATMSGVTTSLRFPQQLNADLRKL
AVNMVFPFRLHFFMPGFAPLTARGSQQYRALTVPELTQQMFDAKNMMAACDPRHGRLTVATVFRGRMSMKEVDE
QMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRGLKMSSTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEEM
DEMEFTEAESNMNDLVSEYQQYQDATAEEEGEMYEDDEEESEAQGPK

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FIGURE 4626

GGAGAGGGTGTGAGGGCAGATCTGGGGGTGCCCAGATGGAAGGAGGCAGGCATGGGGGACACCCAAGGCCCCCTG
GCAGCACCATGAACTAAGCAGGACACCTGGAGGGGAAGAACTGTGGGGACCTGGAGGCCTCCAACGACTCCTTCC
TGCTTCCTGGACAGGACT**ATG**GCTGTGCAGGGATCCCAGAGAAGACTTCTGGGCTCCCTCAACTCCACCCCCACA
GCCATCCCCCAGCTGGGGCTGGCTGCCAACCAGACAGGAGCCCCGGTGCCTGGAGGTGTCCATCTCTGACGGGCTC
TTCCTCAGCCTGGGGCTGGTGAGCTTGGTGGAGAACGCGCTGGTGGTGGCCACCATCGCCAAGAACCGGAACCTG
CACTCACCCATGTACTGCTTCATCTGCTGCCTGGCCTTGTGCGACCTGCTGGTGAGCGGGAGCAACGTGCTGGAG
ACGGCCGTCATCCTCCTGCTGGAGGCCGGTGCCTGGTGGCCCCGGCTGCGGTGCTGCAGCAGCTGGACAATGTC
ATTGACGTGATCACCTGCAGCTCCATGCTGTCCAGCCTCTGCTTCCTGGGCGCCATCGCCGTGGACCGCTACATC
TCCATCTTCTACGCACTGCGCTACCACAGCATCGTGACCCTGCCGCGGGCGCGGCAAGCCGTTGCGGCCATCTGG
GTGGCCAGTGTGCTCTTCAGCACGCTCTTCATCGCCTACTACGACCACGTGGCCGTCTGCTGTGCCTCGTGGTC
TTCTTCCTGGCTATGCTGGTGCTCATGGCCGTGCTGTACGTCCACATGCTGGCCCCGGGCTGCCAGCACGCCCAG
GGCATCGCCCCGGCTCCACAAGAGGCAGCGCCCGGTCCACCAGGGCTTTGGCCTTAAAGGCGCTGTCAACCTCACC
ATCCTGCTGGGCATTTTCTCCTCTGCTGGGGCCCCCTTCTTCCTGCATCTCACACTCATCGTCTCTGCCCCGAG
CACCCACGTGCGGCTGCATCTTCAAGAACTTCAACCTCTTTCTCGCCCTCATCATCTGCAATGCCATCATCGAC
CCCCTCATCTACGCCTTCCACAGCCAGGAGCTCCGCAGGACGCTCAAGGAGGTGCTGACATGCTCCTGG**TG**AGCG
CGGTGCACGCGCTTTAAGTGTGCTGGGCAGAGGGAGGTGGTGATATTGTGTGGTCTGGTTCCTGTGTGACCCTGG
GCAGTTCCTTACCTCCCTGGTCCCCGTTTGTCAAAGAGGATGGACTAAATGATCTCTGAAAGTGTGAAG

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FIGURE 4627

MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSI SDGLFLSLGLVSLVENALVVATI AKNRNLHSPMYC
FICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAI AVDRYISIFYAL
RYHSIVTLPRARQAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVLM AVL YVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFFLHLLIVLCPEHPTCGC I FKNFNLFLALI ICNAIIDPLIYAF
HSQELRRTLKEVLTCSW

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FIGURE 4628

GCATAGGCTAGGTAGCGAGGCCGCGTGTGAATCGGCCGAGGCCGAGTTTCTGCGCTTCCTTCTCCCTCTCTCCAG
ACGTCGTGGTTCGTTCCGGTCCT**ATG**TCGCGCCGGGCCCTCCGGAGGCTGAGGGGGGAACAGCGCGGCCAGGAGCCC
CTCGGGCCCGGCGCCTTGCAATTCGATCTCCGTGATGACGATGACGCGGAAGAAGAAGGGCCCAAGCGGGAGCTT
GGTGTCCGGCGTCCCGGGGGCGCAGGGAAGGAGGGCGTCCGAGTCAACAACCGCTTCGAGCTGATAAACATTGAC
GATCTTGAGGATGACCCTGTGGTGAACGGGGAGAGGTCTGGCTGTGCGCTCACAGACGCTGTGGCACCAGGGAAC
AAAGGAAGGGGTGAGCGTGGAAACACAGAGAGCAAGACGGATGGAGATGACACCGAGACAGTGCCCTCAGAGCAG
TCTCATGCAAGTGGCAAACCTCCGGAAGAAGAAAAAACAAGAAAAAGCAGCACGGGAGAAGCATCG
GAAAACGGACTAGAAGATATCGATCGCATCCTAGAGAGGATTGAGGACAGCACTGGGTTGAACCGTCCCGGCCCA
GCTCCCTGAGCTCCAGGAAGCACGTTCTCTACGTGGAGCACAGACACTTGAATCCAGACACAGAAGTGAAGG
TATTTTGGTGGCCGGGCAATCCTGGGGGAGCAAAGGCCACGGCAGAGACAACGTGTGTACCCCAAGTGCACATGG
CTGACCACCCCTAAAAGCACCTGGCCCCGCTACAGCAAACAGGTCTGTCCATGCGGCTGCTGGAATCAAAAAA
GGCCTCTCCTTCTTTGCGTTTGAGCACAGTGAGGAGTACCAGCAGGCTCAGCACAAGTTCTGGTGGCCGTGGAG
TCTATGGAGCCGAACAACATCGTGGTTCGTCTCCAGACGAGCCCTTACCACGTGACTCACTCTGCAGCTCAGC
GATGCCTGCCGCTTTCAAGAGGATCAGGAGATGGCTCGAGACCTCGTAGAGAGAGCGCTGTACAGCATGGAATGT
GCGTTCCACCCCTGTTCAGTCTCACCAGTGGGGCCTGCCGCTGGATTACCGCAGACCCGAGAACAGGAGCTTC
TACCTGGCCCTCTACAAGCAGATGAGCTTCCTGGAGAAGCGAGGCTGCCCGCGCACGGCGCTGGAGTACTGCAAG
CTCATCCTGAGTCTCGAGCCGGATGAGGACCCCTCTGCATGCTGCTGCTCATCGACCACCTGGCCTTGCGGGCC
CGGAAGTACGAGTACCTGATCCGCCCTCTTCCAGGAGTGGGAGGCTCATCGGAACCTGTCCAGCTCCCTAATTTT
GCCTTCTCTGTTCCACTGGCGTATTTCTCTGCTGAGCCAGCAGACAGACCTCCCTGAGTGTGAGCAGAGCTCTGCC
AGGCAGAAGGCCTCTCTCCTGATACAGCAGGCGCTCACCATGTTCCCTGGAGTCTCTCTGCCCTGCTCGAGTCT
TGCAGTGTGCGGCCCGACGCCAGCGTTTCCAGTCAACGCTTCTTTGGACCCAATGCTGAAATAAGCCAGCCCCCT
GCCCTGAGCCAGCTGGTGAACCTGTACCTTGGGAGGTACACTTTCTCTGGAAAGAGCCCGCCACCATGAGCTGG
CTGGAGGAGAACGTCCACGAGGTTCTGCAAGCAGTGACGCCGGGGACCCAGCCGTGGAAGCCTGTGAGAACCGG
CGGAAGGTGCTCTACCAGCGTGACCCAGGAATATCCACCGCCATGTGATCCTCTCTGAGATCAAGGAAGCCGTC
GCTGCCCTGCCCCCGGACGTGACCACGCAGTCTGTGATGGGGTTTGATCCTCTGCCCTCCTTCGGACACAATCTAC
TCCTACGTCAGGCCAGAGAGGCTAAGTCCTATCAGCCATGGAAACACCATTGCTCTCTTCTTCCGGTCACTGTTG
CCAAACTATACCATGGAGGGGGAGAGGCCCGAGGAAGGAGTGGCTGGGGGTCTGAACCGCAACCAGGGCCTGAAC
AGGCTGATGCTGGCTGTGCGCGACATGATGGCCAACTTCCACCTCAACGACCTGGAGGCGCCGCACGAGGACGAC
GCTGAGGGGGAGGGGGAGTGGGAC**TGAG**CGTCCGCAGAGGTGACCGAAAAGCCGTATGATGATGTTCCCGATTTC
TCTGTTGGTCCGAGTCGGCCAGTTGCCTGAAGTAGGGAAGCTGAGTGTGCTCGCTCCCTGGTCCACTGTTTCTCCT
ATAAATGTAAATGGGTC

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FIGURE 4629

MSRRALRRRLRGEQRGQEPLGPGALHFDLRDDDDAEEEGPKRELGVRRPGGAGKEGVRVNNRFELINIDDLDDPV
VNGERSGCALTDVAVPGNKGRGQRGNTESKTDGDDTETVPSEQSHASGKLRKKKKKQKNKKSSTGEASENGLEDI
DRILERIEDSTGLNRPGPAPLSSRKHVLYVEHRHLNPDTELKRYFGARAILGEQRPRQRQRVYPKCTWLTPKST
WPRYSKPGLSMRLLLESKKGLSFFAFEHSEYQQAQHKFLVAVESMEPNNIVVLLQTSPYHVDSSLQLSDACRFQE
DQEMARDLVERALYSMECAFHPLFSLTSGACRLDYRRPENRSFYLA LYKQMSFLEKRGCPRTALEYCKLILSLEP
DEDPLCMLLLIDHLALRARNYEYLIRLFQEWEAHRNLSQLPNFAFSVPLAYFLLSQQTDLPECEQSSARQKASLL
IQQALTMFPGVLLPLLESCSVRPDASVSSHRRFFGPNAEISQPPALSQLVNLVYLGRSHFLWKEPATMSWLEENVHE
VLQAVDAGDPAVEACENRRKVLYQRAPRNIHRHVILSEIKEAVAALPPDVTTQSVMGFDPLPPSDTIYSYVRPER
LSPISHGNTIALFFRSLLPNYTMGERPEEGVAGGLNRNQGLNRLMLAVRDMANFHLNDLEAPHEDDAEAGEGEW
D

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FIGURE 4630

ATGGTGACGCACGCCGCTGGCGCGAGGACCTTTTGTGAGGAGCAAAAGAAGGGATCCACCTATTTCAGTTCCAAAA
TCTAAGGAGAAGTTGATGGAGAAGCATTCCCAGGAAGCCAGGCAGGCAGACAGGGAGTCGGAGAAGCCTGTGGAC
AGCCTCCACCCGGGGGCGGGACAGCCAAGCACCCGCCGCCGGCAGCTTCGCTGGAAGAGAAACCTGATGTAAAG
CAAAAGTCCAGCAGGAAGAAAGTGGTTCGTTCCACAGATCATCATCACGCGAGCGTCGAATGAGACGCTAGTCAGT
TGCAGTTCCAGCGGGAGTGACCAGCAGAGAACCATTTCGGGAGCCGGAGGACTGGGGCCCCCTACCGGCGGCACAGG
AACCCCACTACAGCAGACGCCTATAATTACATCTCAAAGAA**TAA**ACAAGCACCTTTGTCATGGCACTCGCTACTC
CCTGCGATAGGCGTCTCGGGAACAGCCGCCCTCACCTGTGAGAAGCCGAGGCCCCCTTCTCCAGTGCTCTCGGGGA
GGTTGCACCAGGCCCACCCACCCCTGTGAGAACTGCAGCCCCCTTCTCCAGTGCTTTTCGGGGAGGGTGCACCAG
GCCCCCCCCACCTTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTCTCAGGGAGGGTGCACCAGGCCTGCCCCCG
CCGTGAGAACTGCAGTCCCCCTTCTCCAGTGCTCTCGGGGAGGGTGCACCAGGCCCCACCCACCCCTGTGAGAACC
TGCAGCCCCCTTCTCCAATGCTCTCGGGGAGGGTACACCAGGGTTGCCCCACCCCTGTGAGAAGCCACCGCCCCCT
TCTCCAGTGCTCTCGGGGAGGGTGCACCAGGGCTGCCCCACGCTGTAAGAAGCCGCCGCCCTTCTCCAGTGCT
CTCCAGCCCGCCCCACCCCTGTGAGAAGCCATGGCCCCCTTCTCCAGTGCTTTTGGGGAGGGTGCACCAGGGCCACC
CCACCCCTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTTTTCGGGGAGGGTACACCAGGCCCCCCCCACCCCTGTGA
GAAGCCGTGGCCCCCTTCTCCCGTGCTCTCAGGGAGGGTGCACCAGGCCTGCCCCCGCCTTGAGAACTGCAGCC
CCCTTCTCCAGTGCTCTGGGGGAGGGTGCACCAGGCCTGCCACCCCTGTGAGAACTGCACCCCTTCTCCAGTG
CTCTCGGGGAGGGTGCACCAGGCCCCCCCCACCCCTGTGAGAAGCCGCAGCCCGTTCTCCATTGCCATTTGGTCCT
GCCTTCCCCAGAGCTGCTAGCAGCTCGGTTCGAGGCAAGAGTGAAGTGGCTCAGAGAGCGAGCTTTGTGGTATTGAT
AAATGAATAAATTAGTATGTTTCATGTTGGAAGTGGCTGGCTCTGCAGAGTGATGGACAGCAGGTGGCATCTTACA
TTGTGATTTGTGGTGCACAGTTAAACACTTCCCTTCGTTTTCAGAAGGAGACAATGTGAATACTTGAAATTATA
GTGAATAAGATGCCTCCCAAACCTTGAGGAAAAGGTGAGATTCTAAGAGCTAAACGTTAAGATGTAATGTTCCAGA
ACAAAGAGGCCCAGAGTCACTGAACGGGGCCCCAGGGCTCCTAGCTTGAGTGTAATCTGAGTCAGCTTATGAAAA
GGCCCCAAAGAAGAAAGTGAATGTGTGCTGGGCACATGGGACAGCCATGGCACTGAGACTTTGGAAGTGGCCTT
GCCAGCGCTGTCCTGTCTTTCTGGCCCCACAGATGAGGGCTCCTGATTGTGGAAGGCCACGGAAGGGACCTGAACA
CGATGGCACGAGACAAGTTATCTCCTGTGACTGCTCCTCTCCAGCAACCCTCAGCTCAGGCTAGACTTTCCCCCT
GTGTTGAGAATGCCCTGCCCTGTGTGGAAGCCTGATGCATTTAGTGACAGTGTTAGCTTTGTTAGTTTCTAGT
CTGGCCAGCAGGCTTTCCATGTGATCTGCCATTGGCTTGCTTCAGTGGCCAGTGAGCCAGGGGTGTCCACCAGA
GTCTTGACACAGACTTCTGAGGTGGCAGCGGGAGGGAGCCTGCTCCCTGCCACACACGTACAATTTCTAATCCA
TACAGGCCTATGTAGTATATACACACATACGCAGAGCCTTAGGAATTGTGAAAGGCCAATCAAACTTGGGGCCC
TAATTTCACTCTGCC

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FIGURE 4631

MVTHAAGARTFCEEQKKGSTYSVPKSKEKLMEKHSQEARQADRESEKPVDSLHPGAGTAKHPPPAASLEEKPDVK
QKSSRKKVVPQIIITRASNETLVSCSSSGSDQQRTIREPEDWGPYRRHRNPSTADAYNSHLKE

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FIGURE 4632

AGCGACTCACAAAAGGTCTCTCGCGCCAGCGGCGTGCGTCACCATGGCGACCGCGCGCCGCGCAGCCGCGCCCCGC
CCCTCTGGCGGGACCGGCCACCATCCTCTCGCGAGAGCATCCCGTGCGACCGGAAGTGGGGCGGCGACCCCGGAA
GTCCCCGCGGGTGCAGCTTGGTCGGTTCGATCGCCGCCGGGACCTGACACCGCCCCGGAGTTGGCGTCCCTTCTC
CCTCTCCGAGTGCTGCTCCTGTCAATTGTGGCCATGGACGTTACGGCGAAGCAGCTGGAGAAGCTGGCCAAGAAG
GCGGAGAAGGACTCCAAGGCGGAGCAGGCCAAAAGTGAAGAAGGCCCTTCTGCAGAAAAATGTAGAGTGTGCCCGT
GTGTATGCCGAGAACGCCATCCGCAAGAAGAACGAAGGTGTGAAGTGGCTTCGGATGGCGTCCCGCGTAGACGCA
GTGGCCTCCAAGGTGCAGACAGCTGTGACTATGAAGGGGGTGACCAAGAATATGGCCCAGGTGACCAAAGCCCTG
GACAAGGCCCTGAGCACCATGGACCTGCAGAAGGTCTCCTCAGTGATGGACAGGTTTCGAGCAGCAGGTGCAGAAC
CTGGACGTCCATACATCGGTGATGGAGGACTCCATGAGCTCGGCCACCACCCTGACCACGCCCGCAGGAGCAGGTG
GACAGCCTCATCATGCAGATCGCCGAGGAGAATGGCCTGGAGGTGCTGGACCAGCTCAGCCAGCTGCCCGAGGGC
GCCTCTGCCGTGGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCTGTCACGGAGGTTGGCCGCCCTTGAGGAAC
TAGCCGTGCCCCGCCGGTGTGCACCGCCTCTGCCCCGTGATGTGCTGGAAGGCTCCTGTCTCTCCCCACCGCGT
CTTGCCTTTGTGCTGACCCCGCGGGGTGCGGCCGGCAGCCACTCTGCGTCTCTCACCTGCCAGGCCTGCGTGGC
CTTAGGGTTGTTCTCTTTTAGGTTGGGCGGTGGGTCTGTGTCCTGGTGTGAGTTTCTGCAAATTTCTGGG
GGTGATTTCTGTGACTCTGGGCCCCACAGCGGGGAGGCCAAGAGGGGCCCTGTGGACTTTACCCAGCACTGTGGG
GGCCTTCAGACTCTGGGGCAGCAGACATGCTGCTTCCCATCAGCCAGAGGGGGTTCAGGGCTGCCCTGTTGCCAAA
CAACTCCCTGAGGCCTCTCCGCACCACCTCAGCGGGCAGGAGGTCCCACCATGTGGACAGACATAGCCCAAGGAG
GCACCACAGGTCTATGTGTGCTGGGGGATGTGAGGTGCCACCCAACGCTGTCTGGTGGTATTTACAATGACATC
CTCCTCCTCCATCACTCCAGGGGTGGTGTCTCGGCCGCCCTACCAGCTGGCTGAGCCCCCTGGCCTCCTGCGCT
CCCTCACTTCCCTCAGTTCCCAAAGCTGCCCAGTCCATGGGGACAGAACCCTCACTCAGATCCACATTCAAGTGT
GCCCACCCTGCAGTCTTCATCCTCACTCAGCTGCTGCCTCTGGAGGTGCCTTTGGCCACATGTGCTGTGCTGTTT
GTCTCCTCGACAGGGAGCCTGTCCACCAGCAGGCTGCGGTCCCAGCGGGTGCCTCTGCAGCTCCTCCCCTTGGGC
AGCCTGGTTCTCCCGAGGACCTTTCTTGGGGCCCTGCTTCATGACGATGCTGCCTGTGTACCCCTCTACCATC
TGTAACAACCTGGGTGCCTTCCCCGACCACACCCCAATGCCTTCCAGCTTGGAAGCCAAGGCAGCTGATGAAGG
GAGCTCAGGAGAGCCGTCTTCAGCTGGGCTGGGGTTGGGGCTGCTGTGAGGAAAACCTGCCATTGTGGCCCTGGA
GAGTACCAGCAGCTCTTGGGAAGGACTTGCTGGGAGGCTGAGAGAGGCTTTGGGCACAGCCTGCTGTCTTTTCC
ATTTCTAAAGTTTACTTCATTGTCTTGAGGCTTCCAGGTTTTGTTTTTGTGTTTGGCAAAGTAGAAAAGGCAGG
TGGTGGGCGGCTGGCAGGGAGTGCGGGTCCCCGCCCTCTTCAGTCCTGCCCTCCCCTCCTCAGTCTTGCCACC
CCGTGCAGCCCATGCTGAGGCTGCAGTGGTGTGCTGGGTGTTACGTGCAGGAACGTGGAGACCCTGACGTGGGCT
CACTGCGTTTTGTTTTCTTTTTCAGAACTTGGGAGCCCCCAGGGAGGGGCTAGTGTGGTAGGTCCTAGACGTGGA
TCCCTCCAGCCTCCCCAAAATCAACCCTGGTGTGAGAGAACGTCCTTCTGTCCATCGTGGGTAAACAGCCTTGGG
GAGGGTGCAGAGCTCTGCAGAGCCATGGGCCAGGTGGGGCTGCCTCAGTCCTGTCCCCTTGGGCACTGAGGAGAG
GGGCCATTACCTTTCTCCTAGAATGCTGTTGTAAATAAACAATGGATCCCTGG

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FIGURE 4633

CTTTCCGCTCGGCTGTTTTCTGCGCAGGAGCCGCGAGGGCCGTAGGCAGCC**ATG**GCGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCCGTAAGATC
CGCAGACGTAAGGCCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTTCGGGTCCCATCCGGCCCCATC
GTGCGCTGCCCCACGGTTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTG
GCCGGCATTCAACAAGAAGGTGGCCCCGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGCTCCAACTCATCCTCTTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAACTGGCCACCCAGCTGACCGGACCGGTCATGCCCGTCCGG
AACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCGTGCCAACGCCCCGGCTCTTCGGCATAACGGGCAAAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAA
AAGAAAAAA**TAA**AGCCCTCCTGGGGACTTGGAATCAGTCGGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGT
GGGAACAACCTGGGCCTGGGATGGGGCTTCACTGCTGTGACTTCCTCCTGCCAGGGGATTTGGGGCTTTCTTGAAA
GACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTTGAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTA
AAACGGTTTTCTTGTGGGGAGGTTACAGAGGCTGACTTCAGAGTGGACTTGTGTTTTTTCTTTTAAAGAGGCAA
GGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTGAGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACA
TGTCAGAACTACTAAAAATAAAGAAATCAGCCATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4634

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKARQAKARRIAPRPASGP I R P I V R C P T V R Y H T K V R A G R G
F S L E E L R V A G I H K K V A R T I G I S V D P R R R N K S T E S L Q A N V Q R L K E Y R S K L I L F P R K P S A P K K G D S S A E E L K L A T Q L
T G P V M P V R N V Y K K E K A R V I T E E E K N F K A F A S L R M A R A N A R L F G I R A K R A K E A A E Q D V E K K K

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FIGURE 4635

CTGGGTCCTGGCCTTTGGGCATCATCCAGCGCCATCGGCCTGGCGCTTCAGCCAACGCGGGAGTGGATGGGCCCC
TTCTTCTTCGCAGACAGCGTTCGGCCGCTGCCCCGGGCTCTAGGCGCGGCCGGACGGCCAGTCTGGAGGGTTTCGG
GGCGGAGGCCCCGGGGGGGTGCGCGCGCCCCGGGGTCCGGCCTCTCACTCGCTCCCCCTCTCGTCCGCAGCCGCAGGG
CCGTAGGCAGCC**ATG**GGCGCCAGCCGGAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGC
GTGGCCACGTGGTTCAACCAGCCGGCCCCGTAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATC
GCCCCGCGCCCCGCGTCTGGGTCCCATCCGGCCCCATCGTGCGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGC
GCCGGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTGGCCGGCATTACACAAGAAGGTGGCCCGGACCATCGGCATT
TCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAGTCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGC
TCCAAACTCATCTCTTCCCCAGGAAGCCCTCGGCCCCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAAACTG
GCCACCCAGCTGACCGGACCGGTCTATGCCCCGTCCGGAACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAG
GAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCGGCTCTTCGGCATAACGGGCA
AAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAAAAGAAAAAA**TAA**AGCCCTCCTGGGGACTTGGAATCAGTC
GGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCTGTTGGGAACAACCTGGGCCTGGGATGGGGCTTCACTGCTGTGA
CTTCCTCCTGCCAGGGGATTTGGGGCTTTCTTGAAAGACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTT
GAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTAAAACGGTTTTCTTGTGGGGAGGTTACAGAGGCTGACTTC
AGAGTGGACTTGTGTTTTTTCTTTTTTAAAGAGGCAAGGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTG
AGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACATGTCAGAACTACTAAAAATAAGAAATCAGCCATGAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 4636

MAPSRNGMVLKPHFHKDWQRRVATWFNQFARKIRRRKARQAKARRIAPRPASGPIRPIVRCPTVRYHTKVRAGRG
FSLEELRVAGIHKKVARTIGISVDPFRRRNKSTESLQANVQRLKEYRSKLILFPRKPSAPKKGDSSAEELKLATQL
TGPVMPVRNVYKKEKARVITEEEKNFKAFASLRMARANARLFGIRAKRAKEAAEQDVEKKK

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FIGURE 4637

TAGTTTTATCTCTATACCCAAAATGGAGGTTAAAAGTTACACTAAAAATAACACGATTGCACCAAAGAAAGCGTC
CCATCGTATCCTGTCAGACACGTCCGACGAGGAGGACGCGAGTGTACCGTGGGGACAGGAGAGAAGCTGAGACT
CTCGGCACATACGATATTGCCTGGTAGTAAGACACGAGAGCCTTCTAATGCCAAGCAGCAGAAGGAAAAAATAA
AGTGAAAAAGAAGCGAAAGAAAGAAACAAAAGGCAGAGAGGTTTCGCTTCGGAAAGCGGAGCGACAAGTTCTGCTC
CTCGGAGTCGGAGAGCGAGTCCTCAGAGAGTGGGGAGGATGACAGGGACTCTCTGGGGAGCTCTGGCTGCCTCAA
GGGGTCCCCGCTGGTGCTGAAGGACCCCTCCCTGTTTCAGCTCCCTCTCTGCCTCCTCCACCTCGTCTCACGGGAG
CTCTGCCGCCCAGAAGCAGAACCCACAGCCACACAGACCAGCACACCAAGCACTGGCGGACAGACAATTGGAAAAC
CATTTCTTCCCCGGCTTGGTCAGAGGTCAGTTCTTTATCAGACTCCACAAGGACGAGACTGACAAGCGAGTCTGA
CTACTCCTCTGAGGGCTCCAGTGTGGAATCGCTGAAGCCAGTGAGGAAGAGGCAGGAGCACAGGAAGCGAGCCTC
CCTGTCCGAGAAGAAGAGCCCCCTTCCCTGTCCAGCGCGGAGGGCGCTGTCCCCAACTGGACAAGGAGGGGAAAGT
TGTCAAAAACATAAAACAAAACACAAACACAAAAACAAGGAGAAGGGACAGTGTTCATCAGCCAAGAGCTGAA
GTTGAAAAGTTTTACTTACGAATATGAGGACTCCAAGCAGAAGTCAGATAAGGCTATACTGTTAGAGAATGATCT
TTCCACTGAAAACAAGCTAAAAGTGTTAAAGCACGATCGCGACCCTTTAAAAAAGAAGAGAAACTTAGCAAAAT
GAAATTAGAAGAAAAAGAATGGCTCTTTAAAGATGAAAAATCACTGAAGAGAATCAAAGACACAAAACAAGACAT
CAGCAGGTCTTTCCGAGAAGAGAAAGACCGTTTGAATAAAGCAGAAAAGGAGAGATCGCTGAAGGAAAAGTCTCC
GAAAGAAGAAAACTGAGACTGTACAAAGAGGAGAGAAAAGAAGAAATCAAAGACCGGCCCTCAAAATTAGAGAA
GAAGAATGATTTAAAAGAGGACAAAATTTCAAAAGAGAAGGAGAAGATTTTTAAAGAAGATAAAAGAAAACTCAA
AAAAGAAAAGGTTTATAGGGAAGATTCTGCTTTTGACGAATATTGTAACAAAATCAGTTTCTGGAGAATGAAGA
CACCAAATTTAGCCTTTCTGACGATCAGCGAGATCGGTGGTTTTCTGACTTGTCCGATTTCATCTTTGATTTCAA
AGGGGAGGACAGCTGGGACTCGCCAGTGACAGACTACAGGGACATGAAGAGCGACTCTGTGGCCAAGCTCATCTT
GGAGACGGTGAAGGAGGACAGCAAGGAGAGGAGGCGGGACAGCCGGGCCCGGGAGAAGCGAGACTACAGAGAGCC
CTTCTTCCGAAAAGAAGGACAGGGACTATTTGGATAAAAACTCTGAGAAGAGGAAAGAGCAGACTGAAAAGCATAA
AAGTGTCCCTGGCTACCTTTTCGAAAAGGACAAGAAGAGGAGAGAGTCCGCAGAGGCCGGGCGGGACAGAAAGGA
CGCCCTGGAGAGCTGCAAGGAGCGCAGGGACGGCAGGGCCAAGCCCCAGGAGGCGCACCGGGAGGAGCTGAAGGA
GTGTGGCTGCGAGAGTGGCTTCAAGGACAAGTCCGACGGCGACTTTGGGAAGGGCCTGGAGCCGTGGGAACGGCA
CCACCCAGCACGAGAGAAGGAGAAGAAGGATGGCCCCGATAAGGAAAGGAAGGAGAAGACAAAACCAGAAAGATA
CAAAGAGAAAATCCAGTGACAAGGACAAAAGTGAGAAATCAATCCTGGAAAAATGTCAGAAGGACAAAAGAAATTGA
TAAATGTTTTAAAGAGAAAAAAGATACCAAGGAAAAACATAAAGACACACATGGCAAAGACAAAAGAAAGGAAAGC
GTCTCTCGACCAAGGGAAAGAGAAGAAGGAGAAGGCTTTCCCTGGGATCATCTCAGAAGACTTCTCTGAAAAAAA
AGATGACAAGAAAAGGCAAAGAGAAAAGCTGGTACATCGCAGACATCTTCACAGATGAGAGTGAGGACGACAGAGA
CAGCTGCATGGGGAGCGGGTTCAAGATGGGAGAGGCCAGCGACTTGCCGAGGACGGACGGCCTCCAGGAGAAGGA
GGAAGGACGGGAGGCCATATGCTCCGACAGACACAGGAAGTCTTCTGACAAGCAGCACCTTGAGAGGCAGAAGGA
CAAGGAGCCCAGAGACAGGAGAAAAGGACCGAGGGGCTGCCGACGCGGGGAGAGACAAAAAGAGAAAGTCTTTGA
AAAGCACAAGGAGAAGAAGGATAAAGAGTCCACAGAAAAGTACAAGGACAGGAAGGACAGAGCCTCAGTGGA
CACGCAAGATAAGAAAAATAAACAGAAGCTCCCCGAGAAGGCTGAAAAGAACGCTGCCGAAGACAAGGCTAA
AAGCCTGCTTGAAAAGTTGGAAGAAGAGGCTCTCCATGAGTACAGAGAAGACTCCAACGATAAAATCAGCGAGGT
CTCCTCTGACAGCTTACGGACCGAGGGCAGGAGCCGGGGCTGACTGCCTTCTGGAGGTCTCTTTACGGAGCC
ACCTGGAGACGACAAGCCGAGGGAGAGCGCTGCCTCCCTGAGAAGCTGAAAAGAGAAGGAGAGGCACAGACACTC
CTCATCTTCATCCAAGAAGAGCCACGACCGAGAGCGAGCCAAGAAAGAGAAGGCCGAGAAGAAAGAGAAGGGCGA
AGATTACAAGGAGGGCGGTAGCAGGAAGGACTCCGGCCAGTACGAAAAGGACTTCTGGAGGCGGATGCTTACGG
AGTTTCTTACAACATGAAAGCTGACATAGAAGATGAGCTAGATAAAACCATTGAATTGTTTTCTACCGAAAAGAA
AGATAAAATGATTCCGAGAGAGAACCTTCCAAG

5024/6881
FIGURE 4638

ACTTGCCTGTCACTCAGCCTGGACGCGCTTCTTCGGGTGCGGGTGCCTCCGGCCCCGGCTCCCGCCTCGGCCC
CGATGGACGCGCGGTTCTCTCTCGTCTCGGGCTGTTGGCCCAGAGCCTCTGCCTGTCTTTGGGGGTTCTTGAT
GGAGGAGGCCCACCACCCTGTACCCCTGGCGCCGGGCGCCTGCCCTGAGCCGCTGCGGAGGGCCTGGGTTCATCC
CCCCGATCAGCGTATCCGAGAACCACAAGCGTCTCCCTACCCCTGGTTTTCAGATCAAGTCGGACAAGCAGCAGC
TGGGCAGCGTCATCTACAGCATCCAGGGACCCGGCGTGGATGAGGAGCCCCGGGGCGTCTTCTCTATCGACAAGT
TCACAGGGAAGGTCTTCTCAATGCCATGCTGGACCGCGAGAAGACTGATCGCTTCAGGCTAAGAGCGTTTGCCC
TGGACCTGGGAGGATCCACCCTGGAGGACCCACGGACCTGGAGATTGTAGTTGTGGATCAGAATGACAACCGGC
CAGCCTTCTGCGAGGAGCGTTCCTGAGGCGCTGCTGGAGGGTGCAGTCCCAGGCACCTATGTGACCAGGGCAG
AGGCCACAGATGCCGACGACCCCGAGACGGACAACGCAGCGCTGCGGTTCTCCATCCTGCAGCAGGGCAGCCCCG
AGCTCTTCAGCATCGACGAGCTCACAGGAGAGATCCGCACAGTGCAAGTGGGGCTGGACCGCGAGGTGGTTCGCGG
TGTACAATCTGACCCTGCAGGTGGCGGACATGTCTGGAGACGGCCTCACAGCCACTGCCTCAGCCATCATCACCC
TTGATGACATCAATGACAATGCCCCGAGTTTACCAGGGATGAGTTCTTCATGGAGGCCATAGAGGCCGTCAGCG
GAGTGGATGTGGGACGCCTGGAAGTGGAGGACAGGGACCTGCCAGGCTCCCCAACTGGGTGGCCAGGTTCACCA
TCCTGGAAGGCGACCCCGATGGGCAGTTTACCATCCGCACGGACCCCAAGACCAACGAGGGTGTCTGTCCATTG
TGAAGGCCCTGGACTATGAGAGCTGTGAACACTACGAATCAAAGTGTGCGGTGCAGAATGAGGCCCCGCTGCAGG
CGGCTGCCCTTAGGGCTGAGCGGGGCCAGGCCAAGGTCCGCGTGCATGTGCAGGACACCAACGAGCCCCCGTGT
TCCAGGAGAACCCTTTCGGACCAGCCTAGCAGAGGGGGCACCCCGAGGCACTCTGGTGGCCACCTTCTCTGCC
GGGACCCTGACACAGAGCAGCTGCAGAGGCTCAGCTACTCCAAGGACTACGACCCGGAAGACTGGCTGCAAGTGG
ACGCAGCCACTGGCCGGATCCAGACCCAGCACGTGCTCAGCCCGGCGTCCCCCTTCTCAAGGGCGGCTGGTACA
GAGCCATCGTCTGGCCCAGGATGACGCTTCCAGCCCCGACCGCCACCGGCACCCTGTCCATCGAGATCCTGG
AGGTGAACGACCATGCACCTGTGCTGGCCCCGCCGCCCGGGCAGCCTGTGCAGCGAGCCACACCAAGGCCAG
GCCTCTCTGGGCGCCACGGATGAGGACCTGCCCCCCCCACGGGGCCCCCTTCCACTTCCAGCTGAGCCCCAGGC
TCCCAGAGCTCGGCCGAACTGGAGCCTCAGCCAGGTCAACGTGAGCCACGCGCGCCTGCGGCCGCGACACCAGG
TCCCCGAAGGCCTGCACCGCCTCAGCCTGCTGCTCCGGGACTCGGGGCAGCCGCCCGAGCAGCGGAGCAGCCTC
TGAACGTGACCGTGTGCCGCTGCGGCAAGGACGGCGTCTGCCTGCCGGGGGCGCGAGCGCTGCTGGCGGGGGCA
CAGGCCTCAGCCTGGGCGCACTGGTTCATCGTCTGGCCAGCGCCCTCCTGCTGCTGGTGTGGTCTCTGCTCGTGG
CACTCCGGGCGCGGTTCTGGAAGCAGTCTCGGGGCAAGGGGCTGCTGCACGGCCCCAGGACGACCTTCGAGACA
ATGTCTCAACTACGATGAGCAAGGAGGCGGGGAGGAGGACCAGGACGCCTACGACATCAGCCAGCTGCGTCACC
CGACAGCGCTGAGCCTGCCTCTGGGACCGCGCCACTTCGCAGAGATGCCCCGCAGGGCCGCTGCACCCCGAGC
CACCCCGAGTGTGCCCCACCAGCCCCCTGGACATCGCCGACTTCATCAATGATGGCTTGGAGGCTGCAGATAGTG
ACCCAGTGTGCGCCTTACGACACAGCCCTCATCTATGACTACGAGGGTGACGGCTCGGTGGCGGGGACGCTGA
GCTCCATCCTGTCCAGCCAGGGCGATGAGGACCAGGACTACGACTACCTCAGAGACTGGGGGCCCCGCTTCGCCC
GGCTGGCAGACATGTATGGGCACCCGTGCGGGTTGGAGTACGGGGCCAGATGGGACCACCAGGCCAGGGAGGGTC
TTTCTCTGGGGCACTGCTACCCAGACACAGAGGCCGGACAGCCTGACCCCTGGGGCGCAACTGGACATGCCACTC
CCCGGCCTCGTGGCAGTGATGGCCCCCTGCAGAGGCAGCCTGAGGTACCGGGCCCCGACCCCTGGGCCTGGGGC
AGCCTCCTTCTGTAGGCGAGGGCCCAAGTCTGGGGGCAGAACCTGAGTGTGGATGGGGCGGCCAGGAAGAGGCC
CCTTCTGCGGGGTGGGAAGAGTTTCTCTCCATCGGCCCCATGCGGGTCACCTCCCTAGTCCCACCTTTGCCTC
CTACCAGTGAACCTCATCTTTGTATGAAAGACAGCAACCTCCTGGGTAAATCTGAATGAAAAACGTGCTAGTCTC
TTTCATGCAAAAAAAAAAAAAAA

5025/6881
FIGURE 4639

MDAAFLLVLGLLAQSLCLSLGVPGWRRPTTLYPWRRAPALSRVRRRAWVIPPISVSENHKRLPYPLVQIKSDKQQL
GSIYYSIQGPVDEEPRGVFSIDKFTGKVFLNAMLDREKTDRLRAFALDLGGSTLEDPTDLEIVVVDQNDNRP
AFLQEAFRTGRVLEGAVPGTYVTRAEATDADDPETDNAALRFSILQQGSPELFSIDELTGEIRTVQVGLDREVVAV
YNLTQVADMSGDGLTATASAIITLDDINDNAPEFTRDEFFMEAIEAVSGVDVGRLEVEDRDLPGSPNWVARFTI
LEGDPDGQFTTIRTPKTNEGVLSIVKALDYESCEHYELKVSQNEAPLQAAALRAERGQAKVRVHVQDTNEPPVF
QENPLRTSLAEGAPPGTLVATFSARDPDTEQLQRLSYSKYDPEDWLQVDAATGRIQTQHVLSPASPFLLKGGWYR
AIVLAQDDASQPRATATGTLSEIEILEVNDHAPVLAPPPPGSLCSEPHQGPGLLLGATDEDLPFHGAPFHFQLSPRL
PELGRNWSLSQVNVSHARLRPRHQVPEGLHRLSILLRDSGQPPQREQLNVTVCRCCKDGVCLPGAAALLAGGT
GLSLGALVIVLASALLLVLLVLLVALRARFWKQSRGKGLLHGPQDDLRLDNVNLNYDEQGGGEEDQDAYDISQLRHP
TALSPLPGPPPLRRDAPQGRLLHPQPPRVLPSTPLDIADFINDEGLAADSPPVPPYDTALIYDYEGDGSVAGTSL
SILSSQGEDQDYDYLRDWGPRFARLADMYGHPCGLEYGARWDHQAREGLSPGALLPRHRGRTA

5026/6881
FIGURE 4640

AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCCTTTCTTCTTCTGC
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGACAACGGACGAC
ACAGAAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAAACTCAAACGCTGAGCGCTGAGACCTCT
TCTAGGGCCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCCTGCAAGA
GAGACCAGGAGTTTACAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTTCAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT
GACACCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC
TCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTCCGACGGCCCCCATCCAGTCATCACCCCGTCA
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCATGGTCCCCGGGATCTGATGTCACTCTCCTCGCTGAA
GCCCTGGTGACTGTGCACAAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACAACCTTCCAGCATC
CCTGGGGCCTCAGACATAGATCTCATCCCCACGGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTG
CCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTCACAGCCTCTGCCGAGACCCTGTCTCAGCCCTCTCT
GTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAA
ACAACTTCCTTTGCTGGGAGCTCTGCTTCCCTCTACAGCCCCCTCGGAAGCCGCCCTCAAGAACTTCACCCCTTCA
GAGACACCGACCATGGACATCGCAACCAAGGGGGCCCTTCCCCACCAGCAGGGACCCTCTTCTTCTGTCCCTCCG
ACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAG
CCCCAACAGCCACGCCCACGACTGCCCGGATCGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTT
CCTCCTCTGCGGCTGAGTGTGGCTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCA
GCTCCACCGGGAACCTCCACGCCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTGAGGAGAGGCTAACGGAC
ATCAGCTGCAGCCAGGCATGTCCCGTATGCCAAAAGAGGGTGCTGCCCTAGCCTGGGCCCCCACCAGACAGACTG
CAGCTGCGTTACTGTGCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCAGA
TGTGGCAACAGGACCTCGCTCACATCCACGGAGTGTATGTATGGGGAGGGGCTTCACCTGTTCCAGAGGTGT
CCTTGGAATCACCTTGGCACATGTTCTGTGTTTTAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCC
TGCATTAAAATTCATCTCAGTGTGGCCAG

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FIGURE 4641

CAGAGGCTGGGAGGCGGCAGAAATGCAGCCAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAG
CTGCAACAGTACTTCTCGGCTCCGAGATGACCTCAACGTCACCCGCTGTCCCACTTTGAGTACGTCAAGAAT
GAGGACCTGGAGAAGATCGGCATGGGTGCGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCC
TTGTGCAAACGCAAGTCGTGGATGAGTAAGXXX
XXX
XXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGTGAGTGTGGCTGTGAAGTGCCGAAGCCCGATGTCCTGAGCCAGCCA
GAAGCCATGGACGACTTCATCCGGGAGGTCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCTCTAC
GGGGTGGTGTCTACGCCGCCCATGAAGATGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGT
AAGCACCAGGGCCACTTCCTCCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTG
GAGTCCAAGCGCTTTATTCACCGTGACCTGGCTGCCCGCAATCTGCTGTGGCTACCCGCGACCTGGTCAAGATC
GGGGACTTTGGGCTGATGCGAGCACTACCTCAGAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCCC
TTCGCTGGTGTGCCCCGAGAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGACACCTGGATGTTGCGGGTG
ACACTGTGGGAAATGTTACCTACGGCCAGGAGCCCTGGATCGGCCTCAACGGCAGTCAGATCCTGCATAAGATC
GACAAGGAGGGGGAGCGGCTGCCCGGCCCGAGGACTGTCCCCAGGACATCTACAACGTCATGGTCCAGTGCTGG
GCTCACAAGCCAGAGGACAGACCCACGTTTGTGGCCCTGCGGGACTTCCTGCTGGAGGGCCAGCCACAGACATG
CGGGCCCTTCAGGACTTTGAGGAACCGGACAAGCTGCACATCCAGATGAATGATGTCATACCGTTCATCGAGGGA
AGGGCCGAGAACTACTGGTGGCGTGGCCAGAACACACGGACGCTGTGTGTGGGGCCCTTCCTCGCAACGTGGTG
ACCTCCGTGGCCGGCTGTGCGCCAGGACATCAGCCAGCCCTGCAGAACAGCTTCATCCACACAGGGCATGGC
GACAGTGACCCCCGCCACTGCTGGGGCTTCCCGGACAGGATTGACGAACTGTATCTGGGAAACCCCATGGACCCC
CCCGACCTCCTGAGCGTGGAAGTGAACCTCCCGCCCCCCCCAGCATCTAGGAGGGGTGAAAAACCAACCTAT
GACCCTGTGAGCGAGGACCAAGACCCCTTGTCCAGCGACTTCAAGAGGCTGGGCCTGCGGAAGCCAGGCCTGCCC
CGAGGGCTGTGGCTGGCGAAGCCCTCGGCGCGGGTGCCGGGCACCAAGGCCAGCCGAGGCAGCGGGGCTGAGGTC
ACGCTCATCGACTTCGGTGAGGAGCCCGTGGTCCCGGCCCTACGGCCCTGCGCGCCCTCCCTGGCGCAGCTGGCC
ATGGACGCCTGCTCCCTGCTGGACGAGACCCGCTCAGAGCCCCACGCGGGCACTGCCCCGGCCCCCTGCACCCC
ACGCCTGTGGTGGACTGGGACGCACGCCGCTGCCCCCCCCCGCCGCTATGACGACGTGGCCCAGGATGAGGAT
GACTTTGAGATCTGCTCCATCAACAGCACCCCTCGTGGGCGCGGGGTCCCTGCCGGGCCAGCCAGGGCCAGACC
AACTACGCCTTTGTGCTGAGCAGGCGCGGCCGCCCTCCCTGGAGGACAACCTGTTCTCCCGCCCCAGGGT
GGGGCAAGCCGCCAGCTCCGCACAGACCGCAGAGATCTTCCAGGCGCTACAGCAGGAGTGATGAGGCAACTG
CAGGCTCCGGCCGGCTCCCGGCCCTCTCCAGCCCGGGGGTGACGACAAGCCCCAGGTGCCTCCTCGGGTA
CCCATCCCCCTCGGCCACGCGCCACACGTCCAGCTGTCTCCAGCCCCCGGGCGAGGAGGAGACCAGCCAG
TGGCCTGGACCTGCTTCCCCTCCCGGGTGCTCCGCGGGAGCCCTGTCCCCTCAAGGCTCGAGGACACCCAGC
CCCCTGGTACCACCTGGCAGCTCCCGCTGCCACCCCGGCTCTCAAGCTCACCTGGGAAGACCATGCCACCACC
CAGAGCTTTGCCTCAGACCCCAAGTACGCCACCCCCAGGTGATCCAGGCCCTGGCCCGGGGCTGGTCCCTGC
ATCCTTGCCCATCTGTCTGGGATTGTGCAAGAAGGTGAGCAGCACCCACTATTACTTGCTTGCCCCGAGCGACCA
TCCTACCTGGAGCTGCTACCAGCGCTTCCTGCGTGAGTGCCAGAGCCCCGATGAGCCTACC

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FIGURE 4642

GCGGAGCGAGAGGCTGAGAGAGTCGGAGACACTATCCGCTTCCATCCGTCGCGCAGACCCTGCCGGAGCCGCTGC
CGCTATGGGATGATCGAGAGGATCTGGTGTAACAGGCCGAAGCTGGCCGAGCAGGCTGAGCGATACGACGAAATGGT
GGAGTCAATGAAGAAAGTAGCAGGGATGGATGTGGAGCTGACAGTTGAAGAAAGAAACCTCCTATCTGTTGCATA
TAAGAAATGTGATTGGAGCTAGAAGAGCCTCCTGGAGAATAATCAGCAGCATTGAACAGAAAGAAGAAAACAAGGG
AGGAGAAGACAAGCTAAAAATGATTTCGGGAATATCGGCCAAATGGTTGAGACTGAGCTAAAGTTAATCTGTTGTGA
CATTCTGGATGTACTGGACAAACACCTCATTCCAGCAGCTAACACTGGCGAGTCCAAGGTTTTCTATTATAAAAT
GAAAGGGGACTACCACAGGTATCTGGCAGAATTTGCCACAGGAAACGACAGGAAGGAGGCTGCGGAGAACAGCCT
AGTGGCTTATAAAGCTGCTAGTGATATTGCAATGACAGAACTTCCACCAACGCATCCTATTTCGCTTAGGTCTTGC
TCTCAATTTTTTCCGTATTCTACTACGAAATTCTTAATTCCTGACCGTGCCTGCAGGTTGGCAAAAGCAGCTTT
TGATGATGCAATTGCAGAACTGGATACGCTGAGTGAAGAAAGCTATAAGGACTCTACA¹CTTATCATGCAGTTGTT
ACGTGATAATCTGACACTATGGACTTCAGACATGCAGGGTGACGGTGAAGAGCAGAATAAAGAAGCGCTGCAGGA
CGTGGAAGACGAAAATCAGTGAGACATAAGCCAACAAGAGAAACCATCTCTGACCACCCCTCCTCCCCATCCCA
CCCTTTGGAAACTCCCCATTGTCAGTGAAGAACCAAAATCTGACTTTTACATTTGGTCTCAGAATTTAGGTTCC
TGCCCTGTTGGTTTTTTTTTTTTTTTTTTTTTAAACAGTTTTCAAAGTTCTTAAAGGCAAGAGTGAATTTCTGTG
GATTTTACTGGTCCCAGCTTTTAGGTTCTTTAAGACACTAACAGGACTACATAGAGGCTTTTTCAGCATTACTGT
GTCGTCTCCGTGCCAGATGTGGCAAGATCACCATTAGCAAATGGAAATTACATTTGAAAGCCATTAGACTTATAG
GTGATGCAAGCATCTAAGAGAGAGGTTAATCACACTATAGAGGCATAAGTGGTATCAGTTTTCATTTTTCTAATT
GTTTAAACTGTGTTTTATACCAGTGTTTGCAAGTAATTGGGTGTTAGCTTGAGATGGTTAAAGGTGGTTTGGGGA
GGGACTTCGTTGTAATGGTTTTGCTGTAAAAAATGTTTCCAACCTCCGCTGAAATGTTGCTGAAAAGCATGGTGCT
GGTAACAGTTCAACAATCCGTGGCTGCTCATTCTTGCTTACTTTACTCTCCCACTGAAGCAGGTTAGCGTTGAAG
GTGGTATGGAAAAGCCTGCATGCCTGTTCAATTCTTTTGTTTCTTCTCCTTCCCCCTCCCCCTACCTCCTTCCCC
TCACTCCTCCCCCTCCTTCGCTCGCTCAACCTCTTTTGTTTCACTATGTGTAACCTGAAGCTAATTTGTACTACTGG
ATATCTGACTGGAGCCACAGATACAGAATCTGTATTGTTCTTACTGAAACACAGCATGGAATTAACATTAACTT
AAATAAAACAAACCTAAATTAAAAA

5029/6881
FIGURE 4643

MDDREDLVYQAKLAEQAERYDEMVESMKKVAGMDVELTVEERNLLSVAYKNVIGARRASWRIISSIEQKEENKGG
EDKCLKMIREYRQMVETELKLICCDILDVLDKHLIPAANTGESKVFFYYKMGDYHRYLAEFATGNDRKEAAENSLV
AYKAASDIAMTELPPTHPIRLGLALNFSVFYYEILNSPDRACRLAKAAFDDAIAELDTLSEESYKDSTLIMQLLR
DNLTTLWTSDMQGDGEEQNKEALQDVEDENQ

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FIGURE 4644A

CTCGCCCCCTCCGCGCTCGCAACTTCGGCCTCCCCCGGCTCCCGCCCCGCTCTCCCTCCTTTGTTGCGCGATGAGGG
TCGGGTTTCGGATCTGACCGAGCCGCCGCCGCGGGATGGAGCCGCTCAGCCACCGGGGGCCTGCCGCGCCTGTCCT
GGATCGACACCCTCTACAGCAACTTCAGCTACGGGACGGACGAGTACGACGGAGAGGGGAATGAGGAGCAGAAGG
GGCCCCCGGAGGGGCTCAGAGACCATGCCGTACATCGATGAGTCGCCCCACCATGTCCCCGCAGCTCAGCGCCCGCA
GCCAGGGCGGGGGGGATGGCGTCTCCCCGACTCCACCTGAGGGACTGGCTCCTGGGGTGAAGCAGGGAAAGGCC
TGGAGATGAGGAAGCTGGTTCTCTCGGGGTTCTTGGCCAGCGAAGAGATCTACATTAACCAGCTGGAAGCCCTGT
TGCTGCCCCATGAAACCCCTGAAGGCCACCGCCACCACCTCCCAGCCCGTGCTCACCATCCAGCAGATCGAGACCA
TCTTCTACAAGATCCAGGACATCTATGAGATCCACAAGGAGTTCTATGACAACCTGTGCCCCAAGGTGCAACAGT
GGGACAGCCAGGTCACCATGGGCCACCTCTTCCAGAAGCTGGCCAGCCAGCTCGGTGTGTACAAAGCGTTTGTCTG
ATAACTATAAAGTCGCTCTGGAGACAGCTGAGAAGTGCAGCCAGTCCAACAACCAGTTCCAGAAGATCTCAGAGG
AACTCAAAGTGAAGGTCCCAAGGACTCCAAGGACAGCCACACGTCTGTCAACCATGGAAGCTCTGCTCTACAAGC
CCATTGACCGGGTCACTCGGAGCACCTAGTCTTACACGACCTGCTGAAGCACACACCTGTGGACCACCCCGACT
ACCCGCTGCTGCAGGATGCCCTCCGCATCTCCCAGAACTTCCTGTCCAGCATCAACGAGGACATCGACCCCGGCC
GGACTGCAGTGACAACGCCCAAGGGGGAGACGCGACAGCTGGTGAAGGACGGCTTCCTGGTGAAGTGTGAGAGG
CCTCCCGGAAGCTGCGGCACGTCTTCTCTTTACAGATGTCTACTGTGTGCCAAGCTGAAGAAGACCTCTGCAG
GGAAGCACCAGCAGTATGACTGTAAGTGGTACATCCCCCTGGCCGACCTGGTGTTCATCCCCGAGGAATCTG
AGGCCAGCCCCCAGGTGCACCCCTTCCCAGACCATGAGCTGGAGGACATGAAGATGAAGATCTCTGCCCTCAAGA
GTGAAATCCAGAAGGAGAAAGCCAACAAAGGCCAGAGCCGGGCCATCGAGCGCCTGAAGAAGAAGATGTTTGAGA
ATGAGTTCTCTGCTGCTCAACTCCCCCACAATCCCGTTTCAGGATCCACAATCGGAATGGAAAGAGTTACCTGT
TCCTACTGTCTCGGACTACGAGAGGTGAGAGTGGAGAGAAGCAATTCAGAACTACAGAAGAAGGATCTCCAGG
CCTTTGTCTGAGCTCAGTGGAGCTCCAGGTGCTCACAGGATCCTGTTTCAAGCTTAGGACTGTACACAACATTC
CTGTCAACAGCAATAAAGACGACGATGAGTCTCCAGGACTCTATGGCTTCCTTCATGTCTATCGTCCACTCTGCCA
AGGGATTTAAGCAATCAGCCAACCTGTACTGTACCCTGGAGGTGGATTCTTCGCTATTTTGTGAGCAAAAGCCA
AAACCAGGGTGTTCGGGGACACAGCGGAGCCCAAGTGGGATGAGGAGTTTGAGATCGAGCTGGAGGGCTCCCAGT
CCCTGAGGATCCTGTGCTATGAGAAGTGCTATGACAAGACCAAGGTCAACAAGGACAACAATGAGATCGTGGACA
AGATCATGGGCAAAGGACAGATCCAGCTGGACCCACAAACCGTGGAGACCAAGAAGTGGCACACGGACGTGATTG
AGATGAACGGGATCAAAGTGAATTTTTCATGAAATTCACCAGCCGAGATATGAGCCTGAAGAGGACCCCGTCCA
AAAAGCAGACCGGCGTCTTCGGTGTGAAGATCAGCGTGGTGACGAAGCGGGAGCGCTCCAAGGTGCCCTACATCG
TCCGGCAGTGTGTGGAGGAGGTGGAGAAGAGGGGTATCGAGGAGGTTGGCATCTACAGGATATCGGGCGTGGCCA
CGGACATCCAGGCGCTCAAGGCCGTCTTCGATGCCAATAACAAGGACATCCTGCTGATGCTGAGTGACATGGACA
TCAACGCCATCGCCGGGACGCTCAAGCTGTACTTCCGGGAACTGCCCGAGCCGCTCCTCACGGACCGACTCTACC
CAGCCTTCATGGAGGGCATCGCCCTGTGAGACCTGCTGCCAAGGAAAAGTGCATGATGCACCTGCTCCGCTCCC
TGCCCGACCCCAACCTCATCACCTTCCTCTTCTGCTGGAACACTTGAAAAGGGTTGCCGAGAAGGAGCCCATCA
ACAAAATGTCACTTCACAACCTGGCTACCGTGTTTGGACCCACGTTACTGAGACCCCTCAGAAGTGGAGAGCAAAG
CACACCTCACCTCGGCTGCGGACATCTGGTCCCATGACGTATGGCGCAGGTCCAGGTCCCTCCTCTACTACCTGC
AGCACCCCCCATTTCTTCGAGAACTCAAGCGGAACACACTGTACTTCTCCACCGACGTGTAGCCCGAGGCAG
GGTGGCTGCGGGCGGGTGGTGAACCAGCCCCCTCAGCCTGGGGTCCAACCTCAGACTTGAAAGACTGCAATAGAA
AACTCCCAAACCCAGCACTCCAGACTCGAGGGAAGCCAGCTTCCAAGAACTGGAATGCGTACGTCTTTTGIGCCA
CCTTGTAACAAGCCGGCTGCCAGCCCCAGCCTCACCACCGCATCCCACCTCCTGCCCTCCATACCTCTAGTTGT
GTCTGATGCTCCGTGCTGTTTCGGGAATTGTTTTATGTACACTTGTGAGGCAGAAAAGGTAGTGACCGGCCCGGCG
TGGGCACACAGACAGCCCGCTTTGTTCTTTTCAATTCCTCCAGCACTTTCTTTCCGCTGAGTCCAGCCCAAGGCC
TTTTATTTTGCCTGTGTAACTGCTGCCAGCTTCTCTTGGCCCTGCTCCCAGATGGCGGTCTCCTGGCAGCCTCC
CCTCAGTCTTCTCCACCCGCTCTTCTTCCCAGCCTGCCTGCATGCATGTGCACCCCTTGGTCTTCGCTCCATCG
CCTTGAAAGCTCTGAAGAGGCCCTGGGTTGCCGCGGACAGAGTGGTCTGTTTGATGCTGCCGTTTGGCGCTGCCG
GCCCCCTCTCAGACTCCGCTTTGGGAGCACACCTGCTTTGCCTTGCTGCCTGTGCAATGTTGGACAAGCAGAC
ACACTCACACTCGTCCCCAGCTTAGCACAGAGCTGGAGCGCCCATTTCTGGAATTTTCCGTTTGGGAATCTCCAC
TTCTGGGGTTTACCTGTTTCGGCCTCCTGCCTATCAGTGAGGCATCTCTGACTGTTTCTTCTACTGCTTTTCAGTT
CCCTTCCCTGCTGTTCTATTTCTTTGAGTGTAAGACTCACAGGTGACCTGCTATCGAGATAGCCAGAGGGTCA

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FIGURE 4644B

GGAGAGAATGGGGGAGGAGGCGGTGAGGCTGCTGAGGAAACACCACAGGCTGAACGGGGGAGGAATGCACATGCC
ACGCTGGGTGTCCCGGGTCGCGGGGAGGCAGCTCAGCTCTTAGGAGCAAGTTGTGGGGGCTTTTCAAGAGGGGCC
AGGCTTCCTGGAGGGTGAATGATGTGGCCGAAGCAGGTGTCCAGGCAGGTAGGCTGCAGCCAGGAGCTCCCTGGC
ACCGCAGGACCTCGTGGTACTCTTGCCCTAGATTTTACACACACTCCACAGCCAAGCACTGCCACGGTCCCTCCAG
GACCTGGGAAGCAAAGGCACAGGCCCACGGTGGCCAGCCATTGTGGTGCTGCCCCAGCTTCTGGATACAGCCTTT
TGGGTAAACACTGGGAAGTCCAGAAAGTTGTGGGGAGAGTGGGGAATCAGACAGCCGCCTCTAGGGGCTGGGTCT
GCTGGGGCCTCCTTGTTGGTGCTGTAGGCACCCGCCAGGGAGCAGGGACCCGACTTGCAGACGCATTGCCCGGTA
CTAGGAAGGAGTGAGGTGTGTTCCACCGTACACTTCCACACAGAGCTGCGGCTGCCAGCCTCGGGCCATCAGCC
TAGGAGAGCAGATGCAGCTCCAGGGGCTCGACTTATAGCCAGTTACAGCTCCCCGGCTCTTCTGTGTGGCAGAGC
GTCGTTTCCGGGCCCTCAGGGCTGGGGAGCTCAGTTCCCATTTGCTTGTGCTCAGGGCTGAGTCTTAAAGAAGGGT
TTGCCGGCCCTAACGCTGCAGCGCGTGCAGGAGAGAGGGCCCTTTTGTAGCCTGTTTACTCCTGTGGCCTTGGGC
AGAACAGTAAATACTCTGTGCACGGAGGAAAGACATGCCCAAGAGGAAGGAAGTACTGACCATCGGCTGCCTGTG
AGCAGCTTAGCAAGGAGCCCTTGCTCCCTGGGAAAGGCGGTGAAGTTGAGTCTAAAGATGCAGTGCCTGGCCCTT
CCTAAGGTCCCTGCCTGGCATCCGAGTGTGCGGTGTGTGGCACAGAAGGCTCCTGCTTGCTTCCAAAGTGATGGAC
AGGAAGGGGCAGAGTGAGTCACGGCCCAGACTGGGCACCTTCGCGTCTCAGCCTCAGGGAGCCCCACAGCCCCAA
GCTCGCTGAGGCAACGTGAGAACAGGCTATGGGAAGGCTGCAAAGGCTGAGAAATGCAAAGGCTCATATTTATAA
ATCCCACCCCCAGAGTGGGGAGGGTCAGGTGCCAGACCTGGACTAAACTGCACCAAGGAAACACCCAGCAGGGTC
TCCTGTGAGCCGGGACCATGCAGCCCCGAAACCTCCAGTCACTGCGCCCGGCAGGAGTCAGGAGCCAGGGACTGT
GCAGCCTGGAACCTCCAGTCACTGTGCCCAGCAGGGTGGGCTGTGCCCAGCAGGAGTCAGGCTAAGAAACGCCAG
GTCTGCCTGTTCTTGCTGGGCAATGGCTGATGGCTGCCAGTTTCTGCTGATACACAGGTAGGATGGGACCCCTTCA
TGAATATCTGACTTTAATAAGTTGGTAAGGATATATTTTTTTTGTCTATGTTCTGTTTCAACTTATGTAGATTATT
ATAAATTGATGTAAACCACGTGAGAGGAAAAATGTTAATAAAAAATGCAAAGCCCCATCATTTGCACAAAACCTC

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FIGURE 4645

GGGACCGAAACCCTTCAGGGAAGTCATTGCAGGGGCCCTTGCTTAGAAACAATGGGCAGTCTCTGGAGAGCAGCAG
CCTGGAGGGGTCTCACGTGGGCGTCTATTTCTCCGCACATTGGTGTCCGCCCTGCCGAAGCCTCACCCGGGTCTCT
GGTGGAAATCCTACCGGAAGATCAAGGAGGCAGGCCAGAACTTCGAGATCATCTTCGTTAGTGCAGACAGGTTCGGA
GGAGTCCTTCAAACAGTACTTCAGTGAGATGCCCTGGCTCGCCGTCCCCTACACGGATGAGGCCCGGCGGTTCGCG
CCTCAACCGGTGTACGGAATCCAAGGCATCCCCACGCTCATCATGCTGGACCCGCAGGGCGAGGTGATCACGCG
GCAGGGGCGGGTGGAGGTGCTGAACGACGAGGACTGCCGGGAGTTCCCCTGGCACCCCAAGCCCGTGTGGAGCT
CTCCGACTCCAACGCCGCGCAGCTTAACGAGGGCCCCCTGCCTCGTCCTTTTTGTAGATTCTGAGGATGACGGAGA
GTCCGAGGCGGCCAAGCAGCTGATTCAGCCGATAGCTGAGAAAATCATTGCCAAGTACAAAGCCAAAGAGGAGGA
GGCACCCCTTCTGTTCTTCGTAGCCGGGAGGATGACATGACTGACTCCCTGCGAGATTACACCAACCTGCCTGA
GGCTGCCCCCTTTGCTCACCATCTTGACATGTCAGCCCCGGGCCAAGTACGTGATGGACGTGGAGGAGATCACCCC
CGCCATCGTGGAGGCCTTTGTGAATGACTTCCTAGCAGAGAAGCTCAAACCGGAGCCCATCTAGCGTGGCTCCGG
CCTCCTGAGACGTTATTTAACTCAGCCTTCTCCTCCTCCCCCTCCTTCCTTCGCCCTTGGACTTACCCAGCG
TGCCCCGAATCCCACCAACCAAGTGTCCAGCCTCTCTGTGGTGCCTTGTTCCTGCGAGTAACTCCTCAGCCAGCA
CCCTGGGGTGTGGAATCAGCAGCGGCAGAGTCCACCGTGTTCGGAGACTCTGTTTGGGAGCACGGGATGGCCGGG
GGCCCGGCCAGAGCGGGGCTGCATGGCTTTCGCAAAGTCACTAGCTTTTGGTGAAGGATCTGCCAGGGTGTCTTG
GGCAGAGTGAGCGTGGAGGGCCGGTGGGTCCCCTCGGGCTCTGACTCTGACGTCCGCACACACGGCCCCGGACG
GCCAGAGGGGAACCGCCGGGTGACACCTGCGTGGAGGCTGAGCTGAGAAAGGGCCTCCGCTTAGAGCTGCGGGTG
AGGACGTCCTTTTCTAAGCAACACAGTCTTCCTCGGTCTGAGAGAAAAGCAGCCCACTCTTGTGTTCTCAGGCAG
GGGATCTCCAAATGCAAAAGGAAGCTTGTAGAGGTTTTTTGGGTGAGAAGAAAAATGTAGCTAAGGTAATGGTTC
ATATCATACAAACAGCTCCACGATCCTGAAATTCTGTTAACGAATCCTTCTCTTTGGACATCTTCCCAAGAAAC
TTAGCCCTGAGTCCTAGGAGGAGCACCTCTGCACCAGCACGGACCTCTCGCTCCACCCAGCTCTGTGCCCAAGGC
CCCTGATCTCTGCTGAGGTGCCCACACCCACGTTTCGATCACCCCTGCCATTCCCTTTTATTTTCTTTTTTTTGGAG
ATGGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCACCATCTTGGCTCACTTCAACCTCCGCCCCCAAGG
TTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACCCGCCACCGTACCTGGCTAATTTT
TGTATTTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACC
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCGCCGTGCCCGGCCCCCTTTCTTTTCAAAGCAGA
ACTACAAAGATGAGAAATTACCAGAAGCCTCGCCTTTTCTAAGCACCAGCGGAAGGAGCTGTGCCCGGGATGG
AGTGAGGGTGGAGGGCGCGTCAGCCACGGGTGGGCCTTGTGTGCGCTTGTATCGGCCAGGTAGGTTGTTGGCCT
CTTACTTGGGCTGACCTGACCCCCGAAAGAGAAACAGACAACTCTGTTCTCAGGATTGGGGATGGACGGCTTCGG
CCAAGCGTTTTAGCCTCATTCATCAGGCCCCACTCAGCACTCTGCCAGCCAAGACCATGATTGGAAAATCCG
GTCCCCACCCGCTAATGAGCTGTTGACACTGTTGTTCTTGCTGAATTGGATTGTTGACTTGTAGTTCAGAGGCG
TACAACTAGTTGGCGATTAGACTTGTTATGTGATGTTACCAGCCTGAAATGCGATCACCCCGTAGGAAATAAAGC
AGGCATCTCTGGACCTC

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FIGURE 4646A

TGGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGACTGCTGCTGTGCCCATTACCCTGTGGCCGTG
TGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCT
CTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCCA
TTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGT
GGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGT
GATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCTGTGTGATTGCTCT
GTGCCCATTATCCTGTAGCCGTGTGATTGCTTCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTGCTGTGCCCCA
TTATCCTGTGGCTGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTCTGTGCCCATTACCCTG
TGGCTGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTGCTGTGCCTGTTACCCTGTGGCTGTG
TGATTGCTCTGTGCCCATTACCCTGTGGCTATGCTCCCTTCATCTGTCATGAGAAGCTCAGCTGTCATGTCCTGT
GGTACATGCTCAGTGGCCCCCTGTAGTTTGTACTGTCCCTCTATTTCTAAACCCCTCTCCCCACATCCTCTGCTGG
CCCAGCCTTTGCTGGAGGGTCTCGCCTCAGCAGCCCAGCTTTTTCTTTTACACACTTTTCTGAAGGATCTCAT
TCACCGTCTTGTTCCGGTGATCCCCCTCTGGGCAGATACCTCTCAGAATCACATTTCCAGCTTACTTCCCTCCT
GAACTTCCACCTGGCATTTCGGTTGCTGGAGGACATCTGTACCTTGATGGCCAAAGCTGAACTCATCTTTCCTCA
CACCTGCTCTGATTCTCCTCCATTCCCTGTATGTGATGTACCTGGTGGCCTCCCAGTTCCCAGGCTGGAGAGCT
CGGAAGCCATTCTGGATTCTCGGCCAAGTCCTTCTGACTCCAGCTGTGCAGTGGCTCTTGTTAGTCATCCCTTCT
CCCCGTCCGCTGATGTCCTTTAAACCCCTTGTCATCTCAAACCATGACAGCCTACTAACAGCAGTGGCCATCTGG
AAACATTTTCACTATACTGTCTTATTTGGCTTGCTGTGTGCAGGACCCTTGAACATCTGTGAAGAAATGACTAT
TCTGCATGGAGGCTTCTTGCTGGCCGAGCAGCTGTTCCACCCTAAGGCACTGGCAGAATTAACAAAAGTCTGACTG
GGAACGTGTTGGACGGCCCATCGTGGAGGCCCTTAAGGGAGATCTCCTCGGCTGCAGCACACTCCCAGCCCTTTCG
CTGGAAGAAGAAAGCCCTGATCATCATCTGGGCCAAGGTTCTGCAGCCGCACCCCGTGACCCCGTCCGACACAGA
GACACGGTGGCAGGAAGACCTGTTCTTCTCGGTGGGCAACATGATCCCCACCATCAACCACACCATCCTCTTCGA
GCTGCTCAAATCCCTGGAAGCTTCTGGACTCTTTATCCAGCTCCTGATGGCCCTGCCACCACTCTGCCATGC
AGAACTAGAGCGCTTTCTGGAACATGTGACCGTTGACACTTCTGCCGAAGACGTGGCCTTCTTCTTGACGTCTG
GTGGGAGGTGATGAAGCACAAAGGGTCACCCGACAGACCCCTGCTCTCCAGTTTAGTGCAATGGCCCATAAGTA
CCTGCTGCTTTAGATGAGTTCCCCCATCCTCCAAAGAGGCTTAGGTGACACCCAGACGCGTGCCCCACCATGCC
CCTGTTGGCCATGCTGCTCCGCGGGCTGACACAGATCCAGAGTCGGATCCTGGGCCCCGGGAGGAAGTGTGTGC
GCTGGCCAACCTGGCTGACATGCTGACTGTGTTTGCCTGTGACAGAGGACGACCCCAAGGAGGTGTCTGCAACCGT
GTATCTGGACAACTGGCCACGGTGATCTCTGTGTGGAACCTCGGACACCCAGAATCCCTACCACCAGCAGGCGCT
GGCAGAGAAGGTGAAGGAGGCAGAACGGGATGTCAGCCTGACCTCGCTGGCCAAACTXCCCCAGTGAGACCATT
TCGTGGGCTGCGAGTTCTTGACACCTGCTGCGGGAGTGGGGGGAGGAGTTGCAGGCGGTGCTCCGCAGCAGCC
AGGGGACAAGTTACGACAGCTACCGGCTGTGCGACAGTCTGACTTCCTTCAGCCAGAACGCGACGCTCTACCTGA
ACCGCACAGCCTGTCCAAGGAGGACAGGCAGGTGGTCTCTGAGCTGGCGGAGTGTGTGAGGGACTTCCTGAGGA
AAACGAGCACGGTGTGAAGAACAGGGCCTTGGAGGATATCACAGCTTCCATTGCCATGGCCGTCTACCCAGCAGA
AGATGGACCGCCATATGGAAGTGTGCTACATTTTTGCCTCTGAGAAGAAGTGGGCCTTCTCGGACGAGTGGGTAG
CCTGCCTGGGGAGTAACAGGGCCCTCTTCCGACAGCCAGACTTGGTGTGAGGCTGCTGGAAACAGTGATAGACG
TCAGCACAGCTGACAGAGCCATCCCTGAGTCTCAGATCCGGCAGGTGATCCACCTGATCCTGGAATGTTACGCGAG
ACCTCTCCCTGCCAGGTAAAAATAAAGTCCTTGACAGGTATCCTGCGTTCTTGGGGGCGAAAGGGCCTCTCTGAAA
AGTTGCTGGCTTATGTGGAGGGTTTTTCAGGAAGACCTCAATACAACTTTTAACCAGCTCACTCAGAGTGCCTCCG
AACAGGGCTTGGCAAAGCTGTGGCCTCCGTGGCCCGCCTGGTTCATAGTGCACCCGGAAGTCACGGTGAAGAAAA
TGTGCAGCCTGGCTGTGGTCAATCTCGGCACCCACXAAAGTTCCTGGCCCAGATTCTCACTGCCTTCCCTGCCCT
TAGGTTTGTGGAAGAGCAGGGTCCCAATTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
GAAGTTCTCTACACCCAAGGAAGAAAAGCAATTTTTAGAGCTCCTGAACTGCCTGATGAGTCCCGTGAAACCCCA
AGGGATTCCAGTGGCTGCTCTTCTTGAGCCAGACGAGGTGCTGAAGGAATTTGCTCCTGCCTTTCTTGAGGTTAGA
TGTTGAAGAGGTAGACCTCAGTCTGAGGATCTTCATCCAGACTCTAGAGGCAAACGCGTGCCGAGAGGAATACTG
GCTCCAGACCTGCTCCCCGTTTCCACTCCTCTTCAGCTTGTGCCAGCTCTTGGACCGCTTCAGCAAATACTGGCA
GCTTCCCAAGGAGAAGCGGTGCCTCTCTTTGGATAGGAAGGATCTAGCGATCCATATCCTGGAGCTCCTGTGTGA
GATTGTATCAGCCAATGCTGAGACCTTCTCCCCGATGTCTGGATCAAGTCCCTGTCTGGCTCCACCGCAAGTT

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FIGURE 4646B

AGAACAGCTAGACTGGACTGTGGGCCTGAGGCTGAAGAGCTTCTTCGAGGGGCACTTCAAGTGTGAAGTGCCAGC
CXACAXCTTTTTGAGATCTGTAAGCTTTCAGAAGACGAGTGGACCTCCCAGGCCCCACCCAGGGTACGGGGCTGGC
ACGGGGCTCCTGGCCTGGATGGAGTGCTGCTGCGTCTCCAGCGGCATCTCGGAGAGGATGCTGTCTCTCTTGGTG
GTGGACGTGGGCAATCCTGAGGAGGTCAGACTGTTTCAGCAAAGGCTTTCTGGTGGCCCTGGTGCAAGTCATGCCT
TGGTGCAGCCCTCAGGAGTGGCAGCGCCTTCACCAGCTGACCAGGAGACTGCTGGAGAAGCAGCTCCTCCATGTC
CCTTATAGCCTGGAATATATTCACTTTGTTCCCTGCTCAACCTGAAGCCCTTTGCCCAGGAGTTGCAACTCTCC
GTCCTCTTCTGAGGACTTTCCAGTTTCTCTGCAGCCATAGCTGTCTGATTGGCTTCCTCTGGAAGGCTGGAAC
CACGTGGTCAAACCTCCTCTGTGGCAGTCTGACCCGCCTCCTGGACTCAGTCAGGGCGATACAGGCAGCTGGCCCT
TGGGTTCAAGGACCAGAGCAGGACCTGACCCAGGAAGCCCTGTTTGTTTACACCCAGGTGTTCTGCCATGCTCTG
CACATCATGGCCATGCTCCACCCGGAGGTCTGTGAGCCACTCTACGTTTTAGCCTTGGAACCCCTCACCTGCTAT
GAGACTTTGAGCAAGACCAACCCTTCTGTCTGCTCCTTGCTCCAGAGGGCACACGAGCAGCGCTTCTTAAAGTCC
ATTGCTGAGGGCATCGGCCCTGAAGAACGGCGCCAAACCCTGTTGCAGAAGATGAGCAGCTTCTGACTTGGCGTG
GGGAGCTGGGCCCCAACATGGCGGGTCTGCAGAAGATCAGCAGCTTCTTACCTGTGCGGGAGCGAAAAAGCTGGG
CTTCAACATGGCAGGTCTGTAGGGGTCAGACCCGAGCAGCCTGGACTTTACAGTTATGTGAAACTGTCCACAAAA
AGTCATGGCAATAATGGTGTAAGAAAATAGTTTCTTGGGTATTTGTAACGTACAAACTATCATAAAAAATTCTCC
TCTTTCGC

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FIGURE 4647

CCAACTTCGGCTATGACCTGTACCGGGTGCGATCCAGCATGAGCCCCACGACCAACGTGCTCCTGTCTCCTCTCA
GTGTGGCCACGGCCCTCTCGGCCCTCTCGCTGGGAGCGGAGCAGCGAACAGAATCCATCATTACCGGGCTCTCT
ACTATGACTTGATCAGCAGCCCAGACATCCATGGTACCTATAAGGAGCTCCTTGACACGGTCACTGCCCCCAGA
AGAACCTCAAGAGTGCTCCCGGATCGTCTTTGAGAAAGAAGCTGCGCATAAAATCCAGCTTTGTGGCACCTCTGG
AAAAGTCATATGGGACCAGGCCCAGAGTCCTGACGGGCAACCCTCGCTTGACCTGCAAGAGATCAACAACCTGGG
TGCAGGCGCAGATGAAAGGGAAGCTCGCCAGGTCCACAAAGGAAATTCCCGATGAGATCAGCATTCTCCTTCTCG
GTGTGGCGCACTTCAAGGGGCAGTGGGTAACAAAGTTTGACTCCAGAAAGACTTCCCTCGAGGATTTCTACTTGG
ATGAAGAGAGGACCGTGAGGGTCCCCATGATGTCTGGACCCTAAGGCTGTTTTACGCTATGGCTTGGATTGAGATC
TCAGCTGCAAGATTGCCCAACTGCCCTTGACCGGAAGCATGAGTATCATCTTCTTCCTGCCCCCTGAAAGTGACCC
AGAATTTGACCTTGATAGAGGAGAGCCTCACCTCCGAGTTCATTCATGACATAGACCGAGAAGTGAAGACCGTGC
AGGCGGTCCTCACTGTCCCCAAGCTGAAGCTGAGTTACGAAGGCGAAGTCACCAAGTCCCTGCAGGAGATGAAGC
TGCAATCCTTGTTTGATTACACAGACTTTAGCAAGATCACAGGCAAACCCATCAAGCTGACTCAGGTGGAACACC
GGGCTGGCTTTGAGTGGAACGAGGATGGGGCGGGAACCACCCCCAGCCCAGGGCTGCAGCCTGCCACCTCACCT
TCCCGCTGGACTATCACCTTAACCAGCCTTTCATCTTCGTACTGAGGGACACAGACACAGGGGCCCTTCTCTTCA
TTGGCAAGATTCTGGACCCAGGGGCCCCCTAATATCCCAGTTTAATATTCCAATACCCTAGAAGAAAACCCGAGG
GACAGCAGATTCCACAGGACACGAAGGCTGCCCTGTAAGGTTTCAATGCATACAATAAAAGAGCTTTATCCCT

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FIGURE 4648

ATGGAAGAAGGCTCGGGGCCGACGCCACCCCGGACCGCCGGCCCCAGCCCCGGTACCTCCTCACC GCAATGGCCC
CCTCGCTCAGCTGGCCGACCATGGCTCCACCGCCAAGACTTCCCCGCGGACCCCGCAACAGCTCCAGCTTCCCCA
CCCGGACCTGAGG**ATG**AGCTGTTTCTAAAAAGACTTTCTAAAGGTTACTTGGTGGGAAAGGACTCGGACGCTCCT
CTTTTCTACAGAGAAGAAGGAAACAAAAAATTTACAGGAGAAAGATTACACAGGAGCTGCAGTGTCTACTCTAAG
GGAGTGTACATTCAAGGCCTAACACTGAGGACATGTCACTGTGTTCATGCTAACCGCTCGGCAGCCCTCTTCCAC
CTGGGTCAGTATGAGACGTGTCTTAAAGACATTAAACAGAGCACAGACACATGGGTATCCAGAAAGGTTGCAACCC
AAGATTATGTTACGTAAAGCAGAATGTCTGGTGGCCCTGGGGAGACTGCAGGAGGCAAGCCAGACCATCAGTGAT
CTTGAAAGGAAC TTCACAGCCACACCAGCCCTAGCAGATGTCTCCCTCAGACTCTGCAGAGAAACCTCCATCGT
CTGAAAATGAAGATGCAAGAAAAGGACAGTCTCACAGAAAGCTTCCAGCAGCTCTGGCCAAAACCTTGAGGAT
GCAGCGCTGAGGGAGGAGAATGAACAAC TTTCCAATGCCTCATCATCCATCGGCTTATGCGTAGATCCTTTAAAA
GGTCGCTGTCTCGTTGCCACAAAAGATATTCTCCAGGAGAGCTCCTGGTGCAGGAGGATGCTTTTGTGAGTGT
CTCAACCCAGGAGAACTGCCACCACCGCATCACGGCCTAGACAGCAAATGGGACACCAGAGTCACCAATGGGGAC
CTCTATTGTCACCGATGTTTGAAGCACACTTTGGCCACAGTTCCTGTGTGACGGATGCAGTTATGCCAAGTATTGC
AGCCAGGAGTGTTCGAGCAGGCCTGGGAGCTCTACCACAGGACAGAATGTCCTCTGGGAGGGCTGCTTCTCACA
CTGGGTGTCTTTTGCCACATTGCCCTGAGGTTGACTCTTTTGGTGGGATTTGAGGATGTTTCGAAAAATCATAACG
AAGCTTTGTGATAAGATTAGTAACAAGGACATCTGTTTACCTGAAAGCAACAATCAGGTCAAGACACTTAATTAT
GGCCTAGGGGAGAGTGAGAAAAATGGCAACATCGTTGAGACCCCAATTCCTGGATGCGATATTAATGGGAAGTAT
GAAAATAATTATAATGCTGTCTTCAACCTTTTGCCCCACACTGAAAACCATAGCCCAGAGCACAAATTCCTCTGT
GCTCTCTGTGTTTCTGCACTGTGCAGACAGCTAGAAGCAGCCAGTTTACAGGCCATCCCAACTGAGAGGATTGTG
AACTCCTCTCAGCTTAAAGCAGCAGTGACACCTGAATTGTGTCTGACGTGACTATTTGGGGAGTGGCGATGCTG
AGACACATGTTACAGCTTCAGTGTAACGCTCAGGCGATGACCACCATAACAACACACAGAGCGAGCTGTTTCAGCGG
CTGTCTGGGGTGCCAGCGTGACGCCGAGAGCTTCCTGTGGGCAGAGCACGCCGTGGTGGGAGAGATCGCGGATGGC
CTGGCCCGGGCCTGTGCTGCCTTAGGAGACTGGCAAAAGTCAGCCACCCATCTACAGAGGAGTCTCTACGTGGTG
GAGGTTTCGCCACGGGCCGTCCAGTGTTGAAATGGGCCATGAGCTCTTCAAATTGGCCCAGATCTTTTTCACGGG
TTTGCAGTACCCGAAGCCCTGAGCACAAATACAGAAAGCTGAGGAGGTTCTGTCTGCTGCACTGTGGCCCATGGGAC
GATGAAATCCAGGAGCTCCAGAAGATGAAATCCTGTTTGTGACTTACCACCCACCCCTGTAGGGCCTGCATTG
TAG

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FIGURE 4649

MSLCHANRSAALFHLGQYETCLKDINRAQTHGYPERLOPKIMLRKAECCLVALGRLQEASQTISDLERNFTATPAL
ADVLPQTLQRNLHRLKMKMQEKDSLTESFPAALAKTLEDAALREENEQLSNASSSIGLCVDPLKGRCLVATKDIL
PGELLVQEDAFVSVLNPGEPPPHGLDSKWDTRVTNGDLYCHRCLKHTLATVPCDGCSYAKYCSQECLQQAWEL
YHRTECPGGGLLLTLGVFCHIALRLTLVGFEVVRKIITKLCDKISNKDICLRESNNQVKTLNYGLGEMLKWAMS
SSNWPRSFSTGLQYPKP

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FIGURE 4650

AGAGTAGTTATCTTGATGGAAXTTAGAAGTTTTGAAGTCAGCTGAAGCAGTTGGAGTGAAGATTGGCAATCCAGT
GCCCTATAATGAAGGACTCGGGCAGCCGCAAGTAGCTCCTCCAGCGCCAGCAGXCCAGCCCAGCAGCAAGCAGCA
GGCCCCAGXCCGCXAXGAATGGAAGCTCGGGAATGGGTCTACTGTTTTCTAAGGCTTATGGTGCTTCAAAGACAT
TTGGAAAAGCTGCAXGGTCCCAGCCTGTCACACACTTCTGGGGGAACAXCAGTCCAAAGTGGTGCCCATTTGCCAG
CCTCACTCCTTACCAGTCCAAGTGGACCATTGTGTGCTCGTGTTACCAACAAAAGTCAGATCCGTACCTGGAGCAA
CTCCCGAGGGGAAGGGAAGCTTTTTCTCCCTAGAACTGGTTGACGAAAGTGGTGAAATCCGAGCTACAGCTTTCAA
TGAGCAAGTGGACAAGTTCTTTCTCTTATTGAAGTGAACAAGGTGTATTATTTCTCGAAAGGCACCCTGAAGAT
TGCTAACAAGCAGTTCACAGCTGTTAAAAATGACTACGAGATGACCTTCAATAACGAGACTTCCGTATGCCCTG
TGAGGACGACCATCATTTACCTACGGTTCAGTTTGATTTACGGGGATTGATGACCTCGAGAACAAGTCGAAAGA
CTCACTTGTAGACATCATCGGGATCTGCAAGAGCTATGAAGACGCCACTAAAAATCACAGTGAGGTCTAACAACAG
AGAAGTTGCCAAGAGGAATATCTACTTGATGGACACATCCGGGAAGGTGGTGACTGCTACACTGTGGGGGGAAGA
TGCTGATAAATTTGATGGTTCTAGACAGCCCGTGTGGCTATCAAAGGAGCCCCGAGTCTCXTGATTTCCGTGGAC
GGAGCCTCTCCGTGCTGTCTTCAAGCAXCTATCATTGCGAATCCTGACATCCCAGAGGCCCTATAAGCTTCGTGGA
TGGTTTGACGCAGAAGGACAAGCCTTAGATGGTGTTCATCTCTGATCTAAAGAGCGGCGGAGTCGGAGGGAGT
AACACCAACTGGAAAACCTTGTATGAGGTCAAATCCGAGAACCTGGGCCAAGGCGACAAGCCGGACTACTTTAGT
TCTGTGGCCACAGTGGTGTATCTTCGCAAAGAGAACTGCATGTACCAAGCCTGCCCGACTCAGGACTGCAATAAG
AAAGTGATTGATCAACAGAAATGGATTGTACCGCTGTGAGAAGTGCACACCGAATTTCCCAATTTCAAGTACCGC
ATGATCCTGTGAGTAAATATTGCAGATTTTCAAGAGAATCAGTGGGTGACTTGTTTCCAGGAGTCTGCTGAAGCT
ATCCTTGACAAAATGCTGCTTATCTTGGGGAATTAAGACAAGAATGAACAGGCATTTGAAGAAGTTTTCCAG
AATGCCAACTTCCGATCTTTCATATTAGAGTCAGGGTCAAAGTGGAGACCTACAACGACGAGTCTCGAATTAAG
GCCACTGTGATGGACGTGAAGCCCGTGGACTACAGAGAGTATGGCCGAAGGCTGGTCATGAGCATCAGGAGAAGT
GCATTGATGTGAGAGGAGCAGTGCCAATCGGGCAGAAGTTTGCAAATAGGCAGAATGGAATCGATTTCTCTCCAC
CTCCGTGTGACGATCCCATGTTAGCTACACAGTGCAGAGGCTCTTGATGGTGGACTAAGCAATTTCTCTCCCTCGT
GCGCATCTCAGAACCCATCGGTAGGCAAAGGAAAATACGCTCAGGTGGTTGTGGTGTAGACTGTGTAGGCCTAC
GGAGTCAGCCAGTGGCTAGCGCAAGACCAGTCACTCCCTCTGCCTTCAGGCTTCTGTCAATTTTATTATCATCAA
GCAGGAATTATGTCGTAAGTCACTGACCCTAACTGCAGACCATGAAGTAAATTATGTAAGTAGGTTTTTGCTTCT
CCAGTGGTGACACCCCCCCCCATCCCCGCTCACAACCTGGGTTCTTCTCAGCGGGCGAGCTGAGAAGCGGTCA
TGAGCACCTGGGGATTTTAGTAAGTGTGTCTTCCTA

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FIGURE 4651

GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGGGGTCTCTCT
TTTTGGCATGTTGGCCGTGTTACTCCCTGGGAACTTTGAGTCTTATTTGGAACCTTGTGAAGTCCCTGTGTCTGGG
GCCAGCACTGATCCACACAGCTAAGTTTGCACTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCGACA
CTTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCTCCAGCTATACCAGTCTGGAGTGGTTGTCTGTTCTTAC
TGTGTTGTCCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCAGCATCATCTTCTTACACATTATTAC
ATTACCCCATCTTTCTGTTTGTTCATTCTTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTTAGATCCTTTTG
TATTTTCAGATCTCCTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAAAGGGTCTAGTTTTCCCCTTG
TTTCTAAAGATGAGGTGGCTGXCAAAAACCCCCTTTTTTGCCCACAGCTTGCCTACTCTCGGCCTAGAAGCAGT
TATTCTCTCTCCATATTGGGCTTTGATTTGTGCTGAGGGTCAGCTTTTGGCTCCTTCTTCTGAGACAGTGGAAA
CAATGCCAGCTCTXGTGGCTTCTXGCCCTGGGGACGGGCCGGGTGGGGGTGGGTGGTGAGGCTTTGGGTGCCA
CTACCTGTGGGTGCTGGCTTAAAGGACAATTCTCTTCATTGGTGTGAGAGCCAGGCCATTAACACCTACACAGT
GTTATTGAAAGAAGAGAGGTGGGGGTGGAGGGGAATTAGTCTGTCCAGCTAGAGGGAGATAAAGAGGGCTAGTT
AGTTCTTGXGAGCAGCTGCTTTTGAGGAGAAAATATATAGCTTTGGACACGAGGAAGATCCAGAAAATTATCATT
GAACATATTAATGGTTATTTCTTTTCTTGGATTTCXAGAAAAGCCTCTTAATTTTATGCTTTCTCATCGAAGT
AATGTACCCTTTTTTCTGAAACTGAATTAAATACTCATTTT

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FIGURE 4652

MAALLLRHVGRHCLRAHFSPQLCIRNAVPLGTTAKEEMERFWNKNIGSNRPLSPHITTIYSWSLPMAMSICHRGTG
IALSAGVSLFGMSALLLPGNFESYLELVKSLCLGPALIHAKFALVFPLMYHTWNGIRHLMWDLGKGLKIPQLYQ
SGVVVLVLTVLSSMGLAAM

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FIGURE 4653

GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACCTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGATGTGGGACC
TAGGAAAAGGCCTGAAGATTCCCCAGCTATAACCAGTCTGGAGTGGTTGTCCTGGTTCTTACTGTGTTGTCCTCTA
TGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCCAGCATCATCTTCCTACACATTATTACATTCACCCATCTTT
CTGTTTGTCAATTCTTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTTAGATCCTTTTGTATTTTCAGATCTC
CTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAGGGTCTAGTTTTCCCCCTTGTCTTCTAAAGATGAG
GTGGCTGXCAAAAACCTCCCTTTTTTGTCCACAGCTTGCCTACTCTCGGCCTAGAAGCAGTTAT

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FIGURE 4654

ATGGCCGCGCAGCGACCCCTGCGGGTCCTGTGCCTGGCGGGCTTCCGGCAGAGCGAGCGGGGCTTCCGTGAGAAG
ACCGGGGCGCTGAGGAAGGCGCTGCGGGGTCGCGCCGAGCTCGTGTGCCTCAGCGGGCCCGCACC CGGTCCCGAC
CCCCGGGCCCCGAGGGCGCCAGATCAGACTTCGGGTCTGCCCCTCCGGAGGAGCAGCCTCGAGGCTGGTGGTTT
TCAGAGCAGGAGGCCGACGTTTTCTCCGCATTGGAAGAGCCCGCCGTCTGCAGGGGCTGGAGGAATCACTGGGG
ATGGTGGCACAGGCACTGAACAGGCTGGGGCCTTTTGACGGCCTTCTTGGTTTCAGCCAAGGGGCTGCGCTAGCA
GCCCTTGTGTGTGCCCTGGGCCAGGCAGGCGATCCCCGCTTCCCCTTGCCACGGTTTATCCTCTTGGTGTCTGGT
TTCTGTCCCCGGGGCATTGGGTTCAAGGAATCCATCCTGCAAAGGCCCTTGTCATTGCCTTCGCTCCATGTTTTT
GGGGACACTGACAAAGTCATCCCCTCTCAGGAGAGTGTGCAACTGGCCAGCCAATTTCCCGGAGCCATCACCCTC
ACCCACTCTGGTGGCCACTTCATTCCAGCAGCTGCACCCCAGCGTCAGGCCTACCTCAAGTTCTTGACCAGTTT
GCAGAGTGAAGATCAAGAAATGTCTCTGCTCCTACATCCAGCTCCTCTAGGGGCAGCCTCCGTCATCCATGCCC
TCCCAGGACCCTCCACTCACTGCTGTGAGTGCGCCTCACCAGAACCAGTTAAGAGACA ACTATCAATTCTTGAGA
CCCAAATTATAAGGGCCCTGCCCTGTACTGAAGAAAAGGGGAGCACAAAGGCCTTAATGGACATTGACTTGTGAAA
ACGCAAACATGAATATGGTTGGAGAGCCCTGGATTAGGAGGGTGACATGGGGAAGGCAGAGGCTGGCACGATGGT
GACTGCCACATAATAAAGTGGTGATTTGGATTTTG

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FIGURE 4655

MAAQRPLRVLCCLAGFRQSERGFREKTGALRKALRGRAELVCLSGPHFVPDPPGPEGARSDFGSCPPEEQPRGWWF
SEQEADVFSALEEPAVCRGLEESLGMVAQALNRLGPF DGLLGFSQGAALAALVCALGQAGDPRFPLPRFILLVSG
FCPRGIGFKESILQRPLSLPSLHVFGDTDKVIPSQESVQLASQFPGAITLTHSGGHFIPAAAPQRQAYLKFLDQF
AE

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FIGURE 4656A

GCGGCGAGGGCGCGGGGGCTCTGAGGACCGCTCGGCGCCGCCTCCTGCCACACCATGGGCAGCGCAGAGGACGCA
GTCAAAGAGAACTGCTGTGGAACGTGAAGAAGGAGGTGAAGCAAATCATGGAGGAGGCTGTACCAGGAAGTTT
GTGCATGAAGACAGCAGCCACATCATTGCTTTATGTGGTGCAGTGGAGGCTTGCCTCTTGATCAGCTGAGACGC
CGTGCCGCTGGCTTTCCTGCGCAGTGACAAGATGGCAGCCCTGTTACCAAGGTGGGGAAGACGTGCCCAGTGGCG
GGGGAGATTTGCCACAAGGTACAGGAGCTGCAGCAACAAGCAGAGGGCAGGAAACCTCAGGGGTGAGCCAGGAG
GCCCTGCGGAGACAGGGCTCAGCCAGCGGGAAGGCCCGGCCCTCAGCCCTCAGGCCTTGAAACACGTATGGGTA
CGCACGGCGCTCATCGAGAAAGTTCTGGACAAGGTCTGTGCAATACCTGGCGGAAAACCTGCAGCAAGTACTACGAG
AAGGAGGCACTGCTGGCAGACCCTGTGTTTCGGCCCCGATCCTGGCCTCTCTTCTAGTGGGACCCCTGTGCCTTGGA
TACACTAAGCTCAAGACAGCCGATCACTACTGGACTGACCCCTCTGCTGATGAGCTGGTCCAGCGGCACCGCATC
CGGGGTCCACCTACTCGCCAGGACTCCCTTGCAAAGCGCCAGCCCTGGGGATCCGGAAACGGCACTCAAGCGGC
AGCGCGTCGGAGGACAGGCTGGCTGCCTGTGCCCCGAGTGTGTGGAGTCCCTGCACCAGAAGTCAAGGACGCGG
CTGCTCTATGGCAAGAACCACGTGCTGGTGCAGCCGAAGGAGGATATGGAGGCGGTCCCTGGCTACCTCTCCCTG
CACCAGTCTGCAGAGAGCCTGACTCTGAAGTGGACCCCAACCAGCTCATGAATGGGACTCTGGGGGACTCCGAG
CTGGAAAAGAGCGTTTACTGGGACTATGCCCTCGTGGTGCCTTCAGCCAGGTCTGTGTGCATCCACTGCCACCAG
CAAAAGAGCGGTGGCAGCCTTGTGCTGGTGGAGCAGGATGGCATCCAGAGGCCGCGCTGCATTTCCACAGGGA
GGACACCTGCTGTCTTTCTGTCTGTCTGGAGAATGGGCTGCTGCCTCGGGGACAGCTAGAGCCCCCGCTGTGG
ACCCAGCAAGGGAAGGGGAAAGTGTTCCTCAAGCTACGGAACGAAGCAGCATTGCTCCGTGGATATGGAGGAG
ATGGGCACGGGGCGGGCCACCGACTATGTGTTCCGGATCATCTACCCCGGCCACAGGCACGAGCACAACGCTGGT
GACATGATCGAGATGCAGGGCTTTGGGCCCAGCCTGCCAGCCTGGCACCTGGAGCCCTGTGCAGTCAGGGCTCC
TCCTGCCTCTCCTGCTCCTCCAGCAGCTCCCCACATGCAACCCCAAGCCACTGTAGCTGCATCCCCGACCGTTG
CCGCTCAGGCTACTGTGTGAGAGTATGAAGAGGCAGATCGTGTCCCGGGCCTTCTACGGCTGGCTGGCACACTGC
CGCCACCTGTCCACGGTGCAGGACCCACCTGTGCGCGCTGGTGCACCATAGCGTTATCCACCTGACCGGCCCCCG
GGGGCCTCCGCGGGCCTCACCAAGGACGTGTGGAGCAAGTATCAGAAGGACAAAAAGAACTACAAAGAGCTGGAG
CTGCTGCGGCAAGTTTACTACGGAGGCATAGAGCAGAGATCCGCAAGGACGTCTGGCCCTTTCTGCTTGCCAC
TACAAGTTCGGCATGAGCAAGAAGGAGATGGAGCAGGTGGACGCAGTGGTGGCAGCAAGGTACCAGCAGGTGTTG
GCAGAGTGAAGGCCTGCGAGGTGGTGGTGGAGCAGCGGGAGCGGGAGGCCACCCAGCCACACGCACCAAGTTC
TCCTCAGGCAGCAGCATCGACAGCCACGTGCAGCGCCTCATCCACCGAGACTCCACCATCAGCAACGATGTGTTT
ATCTCAGTGGATGATCTGGAACCCCCGAGCCCCAGGACCCTGAAGATTCCAGACCAAAACCTGAGCAGGAAGCA
GGACCCGGGACTCCGGGCACCGCCGTGGTGGAGCAGCAGCATTCCTGAGATTGCACTCTCCAGACTCAGGACTG
CCCTCCTCTCGCAATTACTCGGTGGCCTCGGGCATCCAGTCAAGCCTAGATGAGGGGCAGAGCGTGGGCTTCGAA
GAGGAGGACGGCGGTGGGGAGGAAGGCTCCAGTGGGCCCCGCCCTGCAGCTCACACTTTGAGGGAGCCCCAGGAT
CCCAGCCAGGAGAAGCCTCAGGCCGAGAACTGGAGGCCGAGAGGAGCTTGCGGCTGTGTGTGCGGCTGCCTAC
ACTATAGAATTACTGGACACTGTGGCCTTAAACCTGCACCGCATAGACAAGGATGTGCAGAGGTGTGACCGCAAC
TACTGGTACTTCACGCCCCCAACCTCGAGAGGCTCAGAGACGTATGTGCAGCTACGTGTGGGAGCACCTGGAC
GTGGGCTATGTGCAGGGCATGTGCGATCTGCTGGCGCCTCTCCTGGTCACCCTCGACAATGATCAGCTGGCCTAC
AGCTGCTTCAGCCACCTCATGAAGAGGATGAGCCAGAACTTCCCCAACGGGGGTGCCATGGACACCCACTTTGCC
AACATGCGCTCCCTCATCCAGATCCTGGACTCAGAGCTGTTTGAGCTGATGCATCAGAATGGAGACTACACCCAC
TTCTACTTCTGTTATCGCTGGTTCCTGCTGGATTTTAAAGAGAGAACTGCTGTATGAGGATGTGTTTGCTGTGTGG
GAGGTGATCTGGGCAGCCAGGCACATCTCATCGGAGCACTTTGTCTGTTTCATCGCCCTCGCCCTGGTGGAGGCC
TACCGAGAGATCATCCGTGACAACAACATGGACTTCACTGACATCATCAAGTTTTTCAATGAACGTGCTGAGCAT
CACGATGCCCAGGAGATCCTGCGGATTGCCCGGGACCTCGTCCACAAGGTGCAGATGCTCATAGAGAACAAGTGA
GCTGGGGCCAGGAGGCAGCAGCCGTGCAGAGCCTGGGCTCCGGCAGGGAGAGGTGCAGGGGAGTCACCGCCCAGA
CCTCCCCAGCCACCAACCGACCCACCTCTGTTCTTAACAAAGCGGTTGTGAGCCTGGATCCGACTCCCGGCAGT
GCTGACCCTGCAGGGCAAGTCAGGGGCCAGGATGCCCTCGGATCAGGGCCGGGATGGGAGGGGTGAGCCTCAGGG
AGCAGCTGCCTTGCGGGGACACACCTACTCTGCTCCCTCTCACACATCTGGGAGTAGCCCCACTGCCACCTGCAG
CCGACGCTGGACTGCTGCCCCAGAGTGAACCTGGGGCCCCACAGGATTAACAGGGGGCTATAGCGGCCTGGGCCC
TACTCAGCTGGGGTGGCAGAGGGCGAGAGGCTCTGTGCTGTGTCCCTTCTGAGGGTCCCTTTGCACTCCAGTAT
ATTGTGCGTGCACCAGCCCCAGCTGGAGCAACCAAACTGCTTCTGGTTTAGGCACACGTACAGGGTGCAGGAGA

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FIGURE 4656B

CCCGGGCACGGGAGACCCGGGCCGCTTCAGGCCGCTCCCCCGAGATTCTGGGGCAGTCGGAAGATGTGGGGCCCT
GGGTGGGAGCAGCCCACTTCAGCAGCACTGCCACTGCCTTTGGCCACCTGAGGTGACCCCCAGGCCTCCCCGGCC
TTGTACAGTGTACCTCTGTGTATCTGTACAGCCTCGCTCCTGCCACCCACCCTTGCGTTCTGCATTAGGTA
CCCTGAAAACCACGTGTAAGAAGTGATGCTTTTGCCAGTGGATGATCTGGAATGCGACCGGAGCACTTGCTCTGA
GGAATCCCAGGGTGACTCTGTCTGGGGAAGAATCCGGTCACAGCCTCCCCTCAGAGACAGGCCTCAGTTCGAGGGC
AGCCCATATCTGTCTGCAGACATCTGCCATGTCCCTGAGACTGCGGGAGGCAGGGGATGCATGGGTGTCCCATC
TGTCCCTGGTGAGAAGCAAGGCTAGCTCTGCCTTCCACATGCTTCTCAGGATGCCAAGAGGCCTAGGAACCCAGA
AACCCCTTGGAGGAGCTGTGTATGCGGGGGTGCCAGGAAGGGCATAGCTCCTGCCCCAGGCCTAGGCATGCTG
CTTGCTCGGCCATCCCCACTTCCTCCTCTACCCCAACACATGCAGGCTAGGCCTTGCCCTGGAACATGGAGGCC
TGCCCGGGGCTGGGGCCTAGTCCAGCAGCCACCAAAGTCTGGCAGACTTTCTGCATTTGAGAAACATGACAAAGG
GCCCCGAGCCCTTCTGCACCCAGCACAGCCTGCCAGCCAGCCCTGCCCCGGGCACTGCACAGCCTGTCTGG
GGGCCAGACCACCCATTGTCCATCCTTGTTGTCCGTGAGTCCTTGGCCTCCACCAAGCACGTGTGGCCATTGTG
TGCCTGCCTTAGTGACTCCGTGGTTTTGTGAGGAGCAGAGTGTGTATGATTTTTGCCTCAGAACTATACTCTTC
TGTGTAACAGACCAATAACAACATTTGTCAAC

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FIGURE 4657

MGSAEDAVKEKLLWNVKEVKQIMEEAVTRKFVHEDSSHI IALCGAVEACLLHQLRRRAAGFLRSDKMAALFTKV
GKTCPVAGEICHKVQELQQQAEGRKPSGVSQEALRRQGSASGKAPALSPQALKHVWVRTALIEKVLDKVVOYLAE
NCSKYYEKEALLADPVFGPILASLLVGPCALEYTKLKTADHYWTDPSADELVQRHRIRGPPTRQDSPAKRPALGI
RKRHSSGSASEDRLAACARECVESLHQNSRTRLLYGKNHVLVQPKEDMEAVPGYLSLHQSAESLTLKWTPNQLMN
GTLGDSELEKSVYWDYALVVPFSQVVCIHCHQQKSGGTLVLVSQDGIQRPPLHFPQGGHLLSFLSCLENGLLPRG
QLEPPLWTQQGKGKVF PKLRKRSSIRSVDMEEMGTGRATDYVFRIIYPGHRHEHNAGDMIEMQGFGPSLPAAWHE
PLCSQGSSCLSCSSSSSPHATPSHCSCIPDRPLRLLCESMKRQIVSRAFYGWLACRHLSTVRTHLSALVHHSV
IPDRPPGASAGLTKDVWSKYQDKKNYKELELLRQVYGGIEHEIRKDVWPFLLGHYKFGMSKKEME QVDAVVA
ARYQQVLAEWKACEVVVRQREREAHPATRTKFSSGSSIDSHVQRLIHRDSTISNDVFI SVDDLEPPEPQDPEDSR
PKPEQEAGPGTPGTAVVEQQHSVEFDSPDSGLPSSRNYSVASGIQSSSLDEGQSVGFEEEDGGGEEGSSGPGPAAH
TLREPQDPSQEK PQAGELEAGEELA AVCAAA YTIELLD TVALNLHRIDKDVQRCDRNYWYFTPPNLERLRDVMCS
YVWEHLDVGYVQGMCDLLAPLLVTLDNDQLAYSCF SHLMKRMSQNF PNGGAMDT HFANMRSLIQILDSELFELMH
QNGDYTHFYFCYRWFLDFKRELLYEDVFAVWEVIWAARHISSEHFVLFIALALVEAYREIIRDNNMDFTDI IKF
FNERAEHHD AQEILRIARDLVHKVQMLIENK

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FIGURE 4658

CGCCGCCCAGCTCCCAGCCGAGGCTTTCTCAACCGCGTCAATAAAAGGCCGCCCCGACCCGCCCCCGCGCCCCGC
AGCCCTGCCGGACACCCCGGGCTGCAGCTGAGCGGGCGCAGACGGGCCGAGGCGGGCGCCGGGCGCGCAGGGACC
GAGGGACCGAGTGCTCCCATGAGCGCACGTGGGCCGGGCGGTCCGCAAGCCCGGTGAGAGCGCGCCATGGGGC
AGGCGGGCTGCAAGGGGCTCTGCCTGTGCTGTTCGACTACAAGACCGAGAAGTATGTCATCGCCAAGAACAAGA
AGGTGGGCTGCTGTACCGGCTGCTGCAGGCCTCCATCCTGGCGTACCTGGTTCGTATGGGTGTTCTTGATAAAGA
AGGGTTACCAAGACGTGCACACCTCCCTGCAGAGTGCTGTCATCACCAAAGTCAAGGGCGTGGCCCTTACCAACA
CCTCGGATCTTGGGCAGCGGATCTGGGATGTCGCCGACTACGTCAATTCAGCCCAGAATGAAGGCATTCCTGATG
GCGCGTGCTCCAAGGACAGCGACTGCCACGCTGGGGGAAGCGGTTACAGCTGGAACGGAGTGAAGACCGGCCGCT
GCCTGCGGAGAGAGAACTTGGCCAGGGGCACCTGTGAGATCTTTGCCTGGTGGCCGTTGGAGACAAGCTCCAGGC
CGGAGGAGCCATTCCTGAAGGAGGCCGAAGACTTCACCATTTTTCATAAAGAACCACATCCGTTTCCCCAAATTCA
ACTTCTCCAAAAGCAATGTGATGGACGTCAAGGACAGATCTTTCCTGAAATCATGCCACTTTGGCCCCAAGAACC
ACTACTGCCCCATCTTCCGACTGGGCTCCGTGATCCGCTGGGCCGGGAGCGACTTCAGGATATAGCCCTGGAGG
GTGGCGTGATAGGAATTAATATTGAATGGAAGTGTGATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATT
CTTTTAGCCGTCTGGACAATAAACTTTCAAAGTCTGTCTCCTCCGGGTACAACTTCAGATTTGCCAGATATTACC
GAGACGCAGCCGGGGTGGAGTTCCGCACCCTGATGAAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCA
AGGGTGCTTTCTTCTGCGACCTGGTACTCATCTACCTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTACG
AGGAAGTGAGGGGCCTAGAAGACAGTTCCAGGAGGCCGAGGACGAGGCATCGGGGCTGGGGCTATCTGAGCAGC
TCACATCTGGGCCAGGGCTGCTGGGGATGCCGGAGCAGCAGGAGCTGCAGGAGCCACCCGAGGCGAAGCGTGGA
GCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCACAGCTCCTGGAGCCCCACAGGAGCACGTGAATTGCCTCTG
CTTACGTTTACGGCCCTGTCTTAAACCCAGCCGTCTAGCACCCAGTGATCCCATGCCTTTGGGAATCCCAGGATGC
TGCCCAACGGGAAATTTGTACATTGGGTGCTATCAATGCCACATCACAGGGACCAGCCATCACAGAGCAAAAGTGA
CCTCCACGTCTGATGCTGGGGTCATCAGGACGGACCCATCATGGCTGTCTTTTGGCCCCACCCCTGCCGTCACT
TCTTCCTTTCTCCGTGGCTGGCTTCCCGCACTAGGGAACGGGTTGTAAATGGGGAACATGACTTCCTTCCGGAGT
CCTTGAGCACCTCAGCTAAGGACCGCAGTGCCCTGTAGAGTTCCCTAGATTACCTCACTGGGAATAGCATTGTGCG
TGTCCGGAAGGGGCTCCATTTGGTTCCAGCCCACTCCCTCTGCAAGTGCCACAGCTTCCCTCAGAGCATACTC
TCCAGTGATCCAAGTACTCTCTCTCTAAAGACACCACCTTCCTGCCAGCTGTTTGCCCTTAGGCCAGTACACA
GAATTAAAGTGGGGGAGATGGCAGACGCTTTCTGGGACCTGCCCAAGATATGTATTCTCTGACACTCTTATTTGG
TCATAAAACAATAAATGGTGTCAATTC

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FIGURE 4659

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCGGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGATGTTCCTTTGGCCACATATATGTGAATCTATAAGAAAGGTGATACTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGGGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATAAAGCACTCTAAGAGCCGAGATAGCTTCCTGGAACGCGTGAAGGAAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCACCAGCCTGCTCCACCCAGGGAAGCACACTTTG
TGAGAACCAACGGGAAGGCGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATTAATAGGTGTTAAACA
AAAAAAAAATAAAGGATCTCTGGGCTAC

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FIGURE 4660

MRTQREERGEAPDICS LG LLENMEMFLWPHICEIYKKGDTVDIKGMGT VQKGMPHKGYHGKTGRVYNVPQHAVGIV
V NKQVKGKILAKRINVR IEHIKHSKSRDSFLERVKENDQKKKEAKEKGTWVQLKHQPAPPREAHFVRTNGKAPEL
LEPIPYEFMA

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FIGURE 4661

GAAAGATGGCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGCCAGCACCGGCTTGGGGGCCGGAGGCGTTCACTC
CAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTGCAGTTTGACGGGGGCGTGGTTCTGG
GGGCGGACTCCAGAACAACCACTGGGTCTTACATCGCCAATCGAGTGACTGACAAGCTGACACCTATTCACGACC
GCATTTTCTGCTGTCGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCTGATGCTGTCACCTACCAGCTCGGTT
TCCACAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCCTCTTTAAGGAGATGTGTTACCGAT
ACCGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAAGAAGGAGGGCAGGTGTACTCAGTGC
CTATGGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTGGAGGCTCCGGGAGCTCCTACATCTATGGCTATGTTG
ATGCTACCTACCGGGAAGGCATGACCAAGGAAGAGTGTCTGCAATTCAGTGCCAATGCTCTCGCTTTGGCCATGG
AGCGGGATGGCTCCAGTGGAGGAGTGATCCGCCTGGCAGCCATTGCAGAGTCAGGGGTAGAGCGGCAAGTACTTT
TGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGCCTGAATCCTGGGATTCTAGTATGCAATAA
GAGATGCCCTGTACTGATGCAAAATTTAATAAAGTTTGTACAGAG

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FIGURE 4662

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRTTGTSGSYIANRVTDKLTPIHDRI
FCCRSRSAADTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEMCYRYREDLMAGIIIAGWDPQEGGQVYSVPM
GGMMVRQSFAIGGSGSSYIYGYVDATYREGMTKEECLQFTANALALAMERDGSSGGVIRLAAIAESGVERQVLLG
DQIPKFAVATLPPA

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FIGURE 4663

GGGGGAAGATGGCGGCAGCCGTTCTGAGTGGGCCCTCTGCGGGCTCCGCGGCTGGGGTTCTGGCGGGACCGGGG
GTCTCTCGGCAGTGAGCTCGGGCCCCGCGGCTCCGCCTGCTGCTGCTGGAGAGTGTTTCTGGTTTGCTGCAACCTC
GAACGGGGTCTGCCGTTGCTCCGGTGCATCCCCCAAACCGCTCGGCCCCACATTTGCCCGGGCTCATGTGCCTAT
TGCGGCTGCATGGGTGCGTGGGCGGGGCCCCAGAACCTTTCAGCTCTTGGGGCATTGGTGAGTCTCAGTAATGCAC
GTCXTXXCAGTTCCATCAAAACTCGGTTTGAGGGCCTGTGTCTGCTGTCCCTGCTGGTAGGGGAGAGCCCCACAG
AGCTATTCCAGCAGCACTGTGTGTCTTGGCTTCGGAGCATTACAGAGGTGTTACAGACCCAGGACCCGCCCTGCCA
CAATGGAGCTGGCCGTGGCTGTCTGAGGGACCTCCTCCGATATGCAGCCCAGCTGCCTGCACTGTTCCGGGACA
TCTCCATGAACCACCTCCCTGGCCTTCTCACCTCCCTGCTGGGCCTCAGGCCAGAGTGTGAGCAGTCAGCATTGG
AAGGAATGAAGGCTTGTATGACCTATTTCCCTCGGGCTTGTGGTTCTCTCAAAGGCAAGCTGGCCTCATTTTTTC
TGTCTAGGGTGGATGCCCTTGAGCCCTCAGCTCCAACAGTTGGCCTGTGAGTGTATTCCCGGCTGCCCTCTTTAG
GGGCTGGCTTTTCCCAAGGCCTGAAGCACACCGAGAGCTGGGAGCAGGAGCTACACAGTCTGCTGGCCTCACTGC
ACACCTGCTGGGGGCCCTGTACGAGGGAGCAGAGACTGCTCCTGTGCAGAATGAAGGCCCTGGGGTGGAGATGC
TGCTGTCTCAGAAAGATGGTGATGCCCATGTCTTCTCCAGCTTCGGCAGAGGTTTTCGGGACTGGCCCGCTGCC
TAGGGCTCATGCTCAGCTCTGAGTTTGAGCTCCCGTGTCCGTCCCTGTGCAGGAAATCCTGGATTTCATCTGCC
GGACCTCAGCGTCAGTAGCAAGAATATTAGCTTGATGGAGATGGTCCCCTGCGGCTGCTGCTGCTGCCCTCTA
TCCACCTTGAGGCCTTGACCTGCTGTCTGCACTCATCTCGCGTGTGGAAGCCGGCTCTTGCGCTTTGGGATCC
TGATCGGCCGCTGCTTCCCCAGGTCTCAATTCCTGGAGCATCGGTAGAGATTCCCTCTCTCCAGGCCAGGAGA
GGCCTTACAGCACGGTTCGGACCAAGGTGTATGCGATATTAGAGCTGTGGGTGCAGGTTTTGTGGGGCTCGGCGG
GAATGCTTCAGGGAGGAGCCTCTGGAGAGGCCCTGCTCACCCACCTGCTCAGCGACATCTCCCCGCCAGCTGATG
CCCTTAAGCTGCGTAGCCCGCGGGGAGCCCTGATGGGAGTTTGCAGACTGGGAAGCCTAGCGCCCCCAAGAAGC
TAAAGCTGGATGTGGGGGAAGCTATGGCCCCGCCAAGCCACCGGAAAGGGGATAGCAATGCCAACAGCGACGTGT
GTGCGGCTGCACTCAGAGGCCTCAGCCGGACCATCCTCATGTGTGGGCCTCTCATCAAGGAGGAGACTCACAGGA
GACTGCATGACCTGGTCTTCCCCCTGGTCATGGGTGTACAGCAGGGTGAGGTCTAGGCAGCTCCCCGTACACGA
GCTCCCCGTGCCGCCGTGAACCTCTACTGCCTGCTGCTGGCGCTGCTGCTGGCCCCGTCTCCTCGCTGCCACCTC
CTCTTGCTGTGCCCTGCAAGCCTTCTCCCTCGGCCAGCGAGAAGATAGCCTTGAGGTCTCCTCTTTCTGCTCAG
AAGCACTGGTGACCTGTGTGCTCTGACCCACCCCCGGGTTCTCCCCCTGCAGCCCATGGGCCCCACCTGCCCA
CACCTGCTCCAGTTCCCCCTCCTGAGGCCCATCGCCCTTCAGGGCCCCACCGTTCCATCCTCCGGGCCCCATGC
CCTCAGTGGGCTCCATGCCCTCAGCAGGCCCATGCCTTCAGCAGGCCCATGCCCTCAGCAGGCCCTGTGCCCT
CGGCACGCCCTGGACCTCCACACAGCCAACCACTAGGCCCTTCTGTCCAGGCCTAGTGTCTGTCCCTCCCC
GGCTTCTTCTGGCCCTGAGAACCACCGGGCAGGCTCAAATGAGGACCCCATCCTTGCCCCTAGTGGGACTCCCC
CACCTACTATACCCCCAGATGAAACTTTTGGGGGAGAGTGCCAGACCAGCCTTTGTCCACTATGACAAGGAGG
AGGCATCTGATGTGGAGATCTCCTTGGAAGTGACTCTGATGACAGCGTGGTGATCGTGCCGAXGGGGCTTCCC
CCCCCTGCCACCCCCACCACCTCAGGTGCCACACCACCCCTATAGCCCCACTGGGCCACCAACAGCCTCCCC
TCCTGTGCCAGCGAAGGAGGAGCCTGAAGAACTTCTGACCCCCAGGGCCTCTCCCGCCACCCCCACCTCCGCC
GCCGCTGTTCTGTCCTGTGACGCTCCCTCCACCCAGTTGGTCCCTGAAGGGACTCCTGGTGGGGGAGGACC
CCCAGCCCTGGAAGAGGATTTGACAGTTATTAATATCAACAGCAGTGATGAAGAGGAGGGAAGAGGAAGAAGA
GGAAGAAGAAGAAGAGGAAGAAGAGGAAGAGGAGGAAGACTTTGAGGAAGAGGAAGAGGATGAAGAGGAATATT
TGAAGAGGAAGAAGAGGAGGAAGAAGAGTTTGAGGAAGAATTTGAGGAAGAAGAAGGTGAGTTAGAGGAAGAAGA
AGAAGAGGAGGATGAGGAGGAGGAAGAAGAACTGGAAGAGGTGGAAGACCTGGAGTTTGGCACAGCAGGAGGGGA
GGTAGAAGAAGGTGCACCTCCACCCCCAACCTGCCTCCAGCTCTGCCTCCCCCTGAGTCTCCCCCAAAGGTGCA
GCCAGAACCCGAACCTGAACCCGGGCTGCTTTTGGAAGTGGAGGAGCCAGGGACGGAGGAGGAGCGTGGGGCTGA
CACAGCTCCCACCTGGCCCCCTGAAGCGCTCCCTCCAGGGAGAGGTGGAGAGGGAAGGGGAAAGCCCTGCGGC
AGGGCCCCCXTXCXXXCAGGAGCTTGTGAAGAAGAGCCCTCTGCTCCCCCAACCCTGTTGGAAGAGGAGACT
GAGGATGGGAGTGACAAGGTGCAGCCCCCACCAGAGACACCTGCAGAAGAAGAGATGGAGACAGAGACAGAGGCC
GAAGCTCTCCAGGAAAAGGAGCAGGATGACACAGCTGCCATGCTGGCCGACTTCATCGATTGTCCCCCTGATGAT
GAGAAGCCACCACCTCCCACAGAGCCTGACTCCTAGCCATCTTCTGCACCCCACTCTTTGTTTCCAATAAAGTTA
TGTCTTAGATAGCG

FIGURE 4664

MAAAVLSGPGSAGSAAGVPVGGTGGLSAVSSGPRRLRLLLLESVSGLLQPRTGSAVAPVHPPNRSAPHLPLGLMCLLRL
HGSVGGGAQNLSALGALVLSNARLSSIKTRFEGLCLLSLLVGESPTLFFQQHCVSWLRSIQQVLQTDPPATMEL
AVAVLRDLLRYAAQLPALFRDISMNHLPGLLTSLLGLRPECEQSALEGMKACMTYFPRACGSLKGKLASFFLSRV
DALSPQLQQLACECYSRLPSLGAGFSQGLKHTEWEQELHSLLASLHTLLGALYEGAETAPVQNEGPGVEMLLSS
EDGDAHVLLQLRQRFSGLARCLGLMLSSSEFGAPVSVPVQEIILDFICRTLSVSSKNISLHGDGPLRLLLLLPSIHLE
ALDLSALILACGSRLRLRFGILIGRLLPQVLNSWSIGRDSLSPGQERPYSTVTRTKVYAILELWVQVCGASAGMLQ
GGASGEALLTHLLSDISPPADALKLRSPRGSFGSLQTKGPSAPKKLKLVDGEAMAPPSHRKGDSNANSDVCAAA
LRGLSRTILMCGPLIKEETHRRLHDLVLPVLMGVQQGEVLGSSPYTSSRCRRELYCLLLALLLAPSPRCPPLAC
ALQAFSLGQREDSLEVSSFCSEALVTCAALHTPRVPLPQPMGPTCPTAPVPPPEAPSPFRAPPFFHPPGPMPSVG
SMPSAGPMPSAGPMPSAGPVPSARPGPPTTANHLGLSVPLVSVPPRLLPGENHRAGSNEDPILAPSGTPPTPTI
PPDETFFGGRVPRPAFVHYDKEEASDVEISLESDDSDSVVIVPEGLPPLPPPPPSGATPPPIAPTGPPTASPPVPA
KEEPEELPAAPGPLPPPPPPPPPPVPGPVTLPPLQVPEGTGGGGPPALEEDLTVININSSDEEEEEEEEEEEEEEE
EEEEEEEEEDFEEEEDEEEYEEEEEEEEEEFEFFEEEEELEEEEEEEDEEEEEEELEVEDLEFGTAGGEVEEG
APPPPTLPPALPPPESPPKVQPEPEPEPGLLLEVEEPGTEEERGADTAPTLAPEALPSQGEVEREGESPAAGPPP
QELVEEPPSAPPTLLEETEDGSDKVQPPPETPAEEEMETETEAELQEKEQDDTAAMLADFIDCPDDEKPPPP
TEPDS

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FIGURE 4665

ACAGCGAGCGGAGCCGCGGTCCGGACGGCAGCGCGTGCCCCGAGCTCTCCGCCTCCCCCGCCCGCCAGCCGAGG
CAGCTCGAGCCCAGTCCGCGGCCCCAGCAGCAGCGCCGAGAGCAGCCCCAGTAGCAGCGCC**ATG**GCCGGGTGGAA
CGCCTACATCGACAACCTCATGGCGGACGGGACCTGTCAGGACGCGGCCATCGTGGGCTACAAGGACTCGCCCTC
CGTCTGGGCGCGCGTCCCCGGGAAAACGTTTCGTCAACATCACGCCAGCTGAGGTGGGTGTCCTGGTTGGCAAAGA
CCGGTCAAGTTTTTACGTGAATGGGCTGACACTTGGGGGCCAGAAATGTTTCGGTGATCCGGGACTCACTGCTGCA
GGATGGGGAATTTAGCATGGATCTTCGTACCAAGAGCACCGGTGGGGCCCCCACCTTCAATGTCACCTGTCACCAA
GACTGACAAGACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGA
AATGGCCTCCCACCTTCGGCGTTCCCAGTAC**TGA**CCTCGTCTGTCCCTTCCCCTTCACCGCTCCCCACAGCTTTG
CACCCCTTTCCTCCCCATACACACACAAACCATTTTATTTTTTTGGGCCATTACCCCATACCCCTTATTGCTGCCA
AAACCACATGGGCTGGGGGCCAGGGCTGGATGGACAGACACCTCCCCCTACCCATATCCCTCCCGTGTGTGGTTG
GAAAACTTTTGTTTTTTGGGGTTTTTTTTTTCTGAATAAAAAAGATTCTACTAACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4666

MAGWNAYIDNLMADGTCQDAAIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDRSSFYVNGLTILGGQKCSVIR
DSL LQDGEFSMDLRTKSTGGAPT FNVTVTKTDKTLVLLMGKEGVHGGLINKKCYEMASHLRRSQY

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FIGURE 4667A

GGGGGGTCGGTGTGGGGTAGAATGGCCGCTGCCGCCGTCACCCGCGGGACCCCGGGAGCACAGACTCCCCCTCCC
CCCGGCCCCCTCAGGCCGGGGGTGACCTTGCCCCCTGGAGCCCTCACC**ATGA**ATACCAAGGACACCACCGAGGTTG
CTGAAAACAGCCACCACCTGAAGATCTTTCTCCCCAAGAAGCTGCTGGAGTGTCTTCTCGCTGCCCGCTGCTGC
CTCCAGAGAGGCTACGGTGAATACAAATGAGGAGATTGCATCCTACCTGATCACCTTTGAGAAGCATGATGAGT
GGCTGTCTTGTGCCCAAAGACAAGGCCTCAGAATGGCTCCATCATCCTCTACAATCGCAAGAAGGTGAAATATC
GGAAGGATGGTTACCTCTGGAAGAAGCGGAAGGATGGGAAGACCACCCGAGAGGACCACATGAAGCTGAAGGTCC
AGGGCATGGAGTGTCTCTATGGCTGCTACGTTCACTCTTCCATCGTCCCCACATTCCATCGGCGCTGCTACTGGC
TGCTCCAGAACCCTGACATCGTCCTTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGGAAAGGGCTGCA
GCCCCATCTTTTGTTCATCAGCAGCGACCGTCGAGAGTGGCTGAAGTGGTCCCGGGAGGAGTTGTGGGACAGC
TGAAGCCCATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAAGAGTTCTCTGTAGAACACCTGGTGC
AGCAGATTTTGGACACCCACCCAACCAAGCCTGCTCCCCGAACCCACGCCTGTCTCTGCAGTGGGGGGCTTGGTT
CTGGGAGCCTTACCCACAAATGCAGCAGCACGAAACACCGCATCATCTCTCCAAAGTGGAGCCCCGAGCTTTAA
CCCTGACCTCTATCCCCACGCTCACCCCCCAGAGCCTCCTCCACTGATAGCCCCACTTCCCCCAGAGCTCCCCA
AGGCACACACCTCCCCATCTTCTTCTCTTCTTCTCCTCATCAGGTTTTGCAGAGCCCCCTAGAAATCAGACCTA
GCCCTCCCACTTCTCGAGGGGGTTCTTCAAGAGGAGGCACTGCTATCCTCCTCCTGACAGGACTGGAGCAGCGGG
CTGGAGGCTTGACGCCCACCAGGCACCTGGCTCCACAGGCTGATCCTAGGCCTTCCATGAGTTTGGCAGTGGTTG
TAGGCACTGAGCCTTCTGCCCCACCAGCTCCTCCCAGTCTGCTTTGACCCTGATCGTTTTCTCAACAGCCCCC
AGAGGGGCCAGACATATGGAGGGGGGAGGGAGTAAGCCCAGACTTCCCCGAGGCAGAGGCCGCTCATACCCCCCT
GTTCTGCCCTAGAGCCTGCTGCTGCCCTGGAGCCCCAGGCAGCTGCTCGGGGTCCCCACCACAGTCAGTAGCAG
GTGGGAGAAGAGGAAACTGCTTCTTCATCCAAGATGATGACAGTGGGAGGAGCTCAAGGGTCACGGGGCTGCC
CACCCATACCTTACCCCCCTCCTCACCCCCACCTCACCTGCCCCCTTGGAGCCGTCAAGCAGGGTAGGAAGAG
GAGAGGCCCTTGTGGAGGACCTGTTGGGGCCAGTGAACCTGGAGCCCTTCACTCTTTCATCATTCCCAGACCTTA
TGGGAGAACTCATCAGTGACGAAGCTCCAAGCATCCCTGCTCCGACCCCCAGCTGTCTCCTGCTCTTAGACCA
TCACAGACTTCTCCCCAGAGTGGTCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCCCTGGACCGAAG
CCGCCGAGCATTACTCTGTGTCTTTGATCACATCGCAGTGCCAGCCTCACTTGTCCAGCCTGGTGTCTTACGCT
GCTACTGTCCCGCCCATGAGGTAGGGCTGGTGTCTTTCAGGTGGCAGGGCGGGAGGGGCCCCCTTTCTGCTTCTG
TGCTCTTTGAGTATCGAGCCCCGCGATTCTGTCTCTGCCTAGTACTCAACTTGACTGGCTGTCACTGGACGACA
ACCAGTTCCGGATGTCCATACTAGAGCGACTGGAGCAGATGGAGAAGCGGATGGCAGAGATCGCAGCAGCTGGGC
AGGTGCCCTTGCCAGGGTCTGATGCTCCTCCAGTTTCAAGGATGAAGGCCAGGGGCTGGGTTTGAAGCACGGGTAG
TGGTCTTGGTAGAAAGCATGATCCCACGCTCCACCTGGAAGGGTCTGAACGTCTGGCCCATGGAAGCCCCCTTCC
GGGGCATGAGCCTTCTGCACCTGGCTGCTGCCAGGGCTATGCCCGCTCATCGAGACCTGAGCCAGTGGCGGA
GTGTGGAGACTGGAAGCTTGGACTTAGAGCAGGAGTTGACCCGCTCAACGTGGATCATTTCTCTTGACCCCTC
TGATGTGGGCTTGTGCCCTGGGACACCTGGAAGCTGCTGTGCTCCTTTCCGTTGGAACCGACAGGCACTGAGCA
TTCCCGACTCTCTGGGCGCTCTGCCATTGTCTGTGGCTCATTTCCGGGGTCATGTGCGCCTTGCCCGCTGCCTTG
AGGAATAACAGAGACAGGAGCCTTCGGTGGAGCCCCCATTTGCCCTATCGCCACCCTCCTCCAGCCCAGACACTG
GTCTGAGCAGCGTCTCCTCGCCCTCGGAGCTGTCGGATGGCACCTTTTCCGTACGTACGCCTATTCTAGTGCCC
CAGATGGCAGTCCCCCCCCCTGCACCTCTGCCAGCCTCTGAGATGACTATGGAGGACATGGCCCCAGGCCAGCTTT
CCTCTGGTGTCCCAGAAGCCCCCTACTCCTCATGGACTATGAGGCTACCAACTCCAAGGGGCCCCCTCTCCTCCC
TTCTTGCCCTCCCACCAGCTTCAGATGATGGGGCTGCTCCAGAGGACGCTGACAGCCCACAGGCTGTGGATGTGA
TCCCGGTGGACATGATCTCACTAGCCAAGCAGATCATCGAAGCCACACCGAGCGGATTAAACGAGAGGACTTCG
TGGGGCTGCCCGAGGCTGGAGCCTCAATGCGGGAGCGGACAGGGGCTGTGGGGCTCAGTGAGACCATGTCTGGC
TGGCCAGCTACCTGGAGAATGTGGACCATTTCCCCAGCTCAACCCCTCCCAGCGAACTGCCCTTTGAGCGAGGTC
GCCTGGCTGTCCCTTCAGCACCTCCTGGGCAGAGTTTCTCTCTGCATCCACCAGTGGCAAGATGGAAAGTGATT
TTGCCCTGCTGACACTATCAGATCACGAGCAGCGGGAACGTGTATGAGGCTGCCCGAGTCATCCAGACGGCCTTCC
GAAAGTACAAGGGCCGGCGGCTGAAGGAGCAGCAGGAGGTAGCAGCAGCTGTAATCCAGCGCTGTTACCGGAAGT
ACAAGCAGCTGACCTGGATTGCACCTTAAGTTTGCACTCTATAAGAAGATGACCCAGGCGGCCATCCTGATCCAGA
GCAAGTTCCGAAGCTACTATGAACAGAAGCGATTTACAGCAGAGCCGCCGAGCGGCTGTGCTCATCCAGCAGCACT
ACCGCTCCTACCGCCGAGGCCCGGCCCTCCCCACCGGACTTCGGCCACCCTGCCTGCCCGCAACAAAGGCTCCT

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FIGURE 4667B

TTCTCACCAAGAAGCAGGACCAGGCAGCCCGGAAGATCATGAGATTCTGCGGCGCTGCCGACACAGGATGAGGG
AACTGAAGCAGAACCAGGAGCTGGAAGGGCTTCCCCAGCCGGGACTGGCCACA**TGA**CCCTGGCCACCGCCTTTCTC
ACCACCCCTGGGGGCGCCTCGTGCAGTCTTAACAGGGAGAGGGCTTTCTGGGGCAGGGGGAGCCCCTGTCGGCAGC
TTTCTGTTCACCTTTGTTGGAGCCCTCTGTAGGCCTCCTCCCTCCTCCCCACGCCTTGCTCCCACACCCCTCTC
CTCGTCCCTCCTGGTCGTGCCCCGTCTCTTTTGGTTCCTGGCTCCAGAAAACCCGCGCCCCACATACCTGCATCTT
CCGCTGTGACCTCCGGAGCCCTGCCTGCCCCCTGCTCCCCAGCTCCTCCTGCCTGCACCCGACTCGGCCCCCTCCT
GACTTGCCTTATTTATTTGTTTCGACGCGTCTCTGAATGTATCCGCCTCGGTTCCCACCACTGCCTTCGCTGCGCA
CGCCCCCTCGTGTTCAGGGCTGACCGTGTCCCCACCCGACTCCGCATGTTTGCGTCTGTTTCTCCCTCTCTGGC
CCTGTCTTACCCCATCACCCGACTCTGGCCACTGACCTCAGGGCCGAAGGGGAGGTGGTGTACATAGGAACGCGT
TGCGGAGTCCGCCCCGTCCCCGAGGGGAGGGGTCTTGTACATACTGTAACATACAGAGTATAGTGAAGAATCTA
TTTAAGGCGCCGCGGGGAGGGCTGCACGGCCGGGCTTGTGGTTCTCTAGCGCGGGGGGCTCCTGCCGGCTCC
ACGGGCACTTTCTACTTGTGCATGGGCTTGTTTATACGAATTGCCATTAAACATCGCTGCACC

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FIGURE 4668

MNTKDTTEVAENSHHLKIFLPKKLLECLPRCP LLPERLRWNTNEEIASYLITFEKHDEWLSCAPKTRPQNGSII
LYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLVQGMCELYGCVHSSIVPTFHRRCYWLLQNPDI VLVHYLNVP
ALED CGKGCSPIFC SISSDRREWLKWSREELLGQLKPMFHGIKWSCNGTEEF SVEHLVQQI LDTHPTKPAPRTH
ACLCSGGLGSGSLTHKCSSTKHRIISP KVEPRALT LTSIPHAHPPEPPPLIAPLPPELPKAHTSPSSSSSSSSSG
FAEPL EIRPSPPTS RGGSSRGGTAILLLTGLEQRAGGLTPTRHLAPQADPRPSMSLAVVVGTEPSAPPAPPSPAF
DPDRFLNSPQRGQTYGGGQGVSPDFPEAEAAHTPCSAL E PAAALEPQAAARGPPPQSVAGGRRGNCFFIQDDDSG
EELKGHGAAPP IPSPPPSPPPSPAPLEPSSRVGRGEALFGGPVGASELEPFSLS SFPDLMGELISDEAPSIPAPT
PQLSPALSTITDF SPEWSYPEGGVKVLITGPWTEAAEHYSCVFDHIAVPASLVQPGVLR CYCPAHEVGLVSLQVA
GREGPLSASVLF EYRARRFLSLPSTQLDWLSLDDNQFRMSILERLEQMEKRMAEIAAAGQVPCQGPDAPPVQDEG
QGPGF EARVVVLVESMIPRSTWKGPERLAHGS PF RGMSLLHLAAQGYARLIETLSQWRSVETGSLDLEQEVDP
NVDHF SCTPLMWACALGHLEAAVLLFRWNRQALSIPDSLGRPLSV AHSRGHVRLARCLEELQRQEPSVEPPFAL
SPPSSSPDTGLSSVSSPSELSDGTFSVT SAYSSAPDGSPPPAPLPASEMTMEDMAPGQLSSGVPEAPLLMDYEA
TNSKGPLSSLPALPPASDDGAAPEDADSPQAVDVIPVDMISLAKQII EATPERIKREDFVGLPEAGASMRERTGA
VGLSETMSWLASYLENVDHFPSS TPPSEL PF ERGLAVPSAPSWAEFLSASTSGKMESDFALLT LSDHEQRELYE
AARVIQTAFRKYKGRRLKEQQEVAAAVIQRCYRKYKQLTWIALKFALYKKMTQAAILIQSKFRSYYEQKR FQQSR
RAAVLIQQHYRSYRRRP GPPHRTSATLPARNKGSFLTKKQDQAARKIMRFLRRCRHRMRELKQNQELEGLPQPGL
AT

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FIGURE 4669

AGGACGTGGGCGTGCAGGACGCGGGCGTGCAGGACGCCAGAGCTGGGTCTAGAGCTCGAGCCAGCGGCGCCCGGAG
AGATTTCGGAGATGCAGGCGGCTCGGATGGCCGCGAGCTTGGGGCGGCAGCTGCTGAGGCTCGGGGGCGGAAGCTC
GCGGCTCACGGCGCTCCTGGGGCAGCCCCGGCCCGGCCCTGCCCGGCGGCCCTATGCCGGGGGTGCCGCTCAGCT
GGCTCTGGACAAGTCAGATTCCCACCCCTCTGACGCTCTGACCAGGAAAAAACCGGCCAAGGCGGAATCTAAGTC
CTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCCGTCCGTGCTCAACGAAGA
GCAGACACAGTTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGAAGTGAACGATCCCGCCAAGAA
TGACGCTCTGGAGATGGTGGAGGAGACCACTTGGCAGGGCCTCAAGGAGCTGGGGGCCCTTTGGTCTGCAAGTGCC
CAGTGAGCTGGGTGGTGTGGGCCTTTGCAACACCCAGTACGCCCGTTTGGTGGAGATCGTGGGCATGCATGACCT
TGGCGTGGGCATTACCCTGGGGGCCCATCAGAGCATCGGTTTTCAAAGGCATCCTGCTCTTTGGCACAAAGGCCCA
GAAAGAAAAATACCTCCCCAAGCTGGCATCTGGGGAGACTGTGGCCGCTTTCTGTCTAACCGAGCCCTCAAGCGG
GTCAGATGCAGCCTCCATCCGAACCTCTGCTGTGCCAGCCCTGTGGAAAATACTATAACCTCAATGGAAGCAA
GCTTTGGATCAGTAATGGGGGCTTAGCAGACATCTTCACGGTCTTTGCCAAGACACCAGTTACAGATCCAGCCAC
AGGAGCCGTGAAGGAGAAGATCACAGCTTTTGTGGTGGAGAGGGCTTCGGGGGCATTACCCATGGGCCCCCTGA
GAAGAAGATGGGCATCAAGGCTTCAAACACAGCAGAGGTGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGT
GCTGGGTGAGGTTGGGAGTGGCTTCAAGGTTGCCATGCACATCCTCAACAATGGAAGGTTTGGCATGGCTGCGGC
CCTGGCAGGTACCATGAGAGGCATCATTGCTAAGGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAA
AATTCAACAATTTGGGCTGATCCAGGAGAAGCTGGCACGGATGGTTATGCTGCAGTATGTAAGTGAAGTCCATGGC
TTACATGGTGAGTGCTAACATGGACCAGGGAGCCACGGACTTCCAGATAGAGGCCGCCATCAGCAAAATCTTTGG
CTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCCAAATCATGGGGGGTATGGGCTTCATGAAGGAACCTGG
AGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATCTTTGAGGGGACAAATGACATTCTTCGGCTGTTTGT
GGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAGTGCTCTAAAGAATCCCTTTGGGAA
TGCTGGCCTCCTGCTAGGAGAGGCAGGCAACAGCTGAGGCGGCGGGCAGGGCTGGGCAGCGGCCTGAGTCTCAG
CGGACTTGTCCACCCGGAGTTGAGTCGGAGTGGCGAGCTGGCAGTACGGGCTCTGGAGCAGTTTGCCACTGTGGT
GGAGGCCAAGCTGATAAAACACAAGAAGGGGATTGTCAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGC
CATCGACCTCTATGCCATGGTGGTGGTTCTCTCGAGGGCTCAAGATCCCTGAGTGAGGGCCACCCACGGCCCA
GCATGAGAAAATGCTCTGTGACACCTGGTGTATCGAGGCTGCAGCTCGGATCCGAGAGGGCATGGCCGCCCTGCA
GTCTGACCCCTGGCAGCAAGAGCTCTACCGCAACTTCAAAGCATCTCCAAGGCCTTGGTGGAGCGGGGTGGTGT
GGTCACCAGCAACCCACTTGGCTTCTGAATACTCCCGGCCAGGGCCTGTCCAGTTATGTGCCTTCCCTCAAGCC
AAAGCCGAAGCCCTTTCTTAAGGCCCTGGTTGTCCCGAAGGGGCCTAGTGTTCCAGCACTGTGCCTGCTCT
CAAGAGCACTTACTGCCTCGCAAATAATAAAAAATTTCTAGCCAG

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FIGURE 4670

MQAARMAASLGRQLLRLLGGSSRLTALLGQPRPGPARRPYAGGAAQLALDKSDSHPSDALTRKKPKAESKSFV
GMFKGQLTTDQVFPYPSVLNNEEQTFLELKEPVSRRFFEEVNDPAKNDALEMVEETTWQGLKELGAFGLQVPSEL
GGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFGKILLFGTKAQKEKYLPKLASGETVAAFCLTEPSSGSDA
ASIRTSAVPSPCGKYITLNGSKLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERGFGGITHGPPEKKM
GIKASNTAEVFFDGVVRVPSENVLGEVSGGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIH
FGLIQEKLARMVMLQYVTESMAYMVSANMDQGATDFQIEAAISKIFGSEAANKVTDECIQIMGGMGFMKEPGVER
VLRDLRIFRIFEGTNDILRLFVALQGCMDKGKELSGLSALKNPFNGAGLLLGEGKQLRRRAGLGSGLSLGLV
HPELSRSGELAVRALEQFATVVEAKLIKHKKGIVNEQFLLQRLADGAIDLAMVVVLSRASRSLSEGHPTAQHEK
MLCDTWCIEAAARIREGMAALQSDPWQQELYRNFKSIKALVERGGVVTSNPLGF

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FIGURE 4671

GAGACCATGGCGGGTAGCAGCACTGGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCCCTCGGCGATTTCAAGAGCGTCTGCAG
CGGCCCCGCGGGCGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTGCGGGTGGTGAAGGAAGAAATTTTCAGAT
GACAACGCCCCGCTCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAGATAATCCCCAACCCGAG
ATGGCCCCCTCAGTCCATGAGCCTCGGGCAGAACTGGCGCCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGCCACAGGACTGGTGGCCCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTTCAGCAGCTCC
ACGGAGCAGAGCAGTGCCTCCCGCCTCCTTAAGCGCCACCGGCGGCGAAGGAAGCAGAGGCCACCCCGCCTGGAG
AGGACGTCATCCTTCAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACCTCCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGTGGGGCTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGCAAGTGAATGACATG
AACTTTGAGAACATGAGCAACGATGACGCTGTGCGGGTGTGAGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAGTGCTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCA
ATTGACCTGCTGCCTGGGTGTCCCATTCCGCGGCTCTGACTGGCACCTTCCCAGCCTATCCAGGTTCTCTCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCTCTGAGCGGCGG
GAGGCCCCGAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCCTGGCTCCTCTGCCTGGGGCCACCCCCCTGGCCCCCTGCTG
CCCCTTTCTCCTACCAGTACCCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCTACCATGAGCTTTTCATCT
TACACCTATGGTGGGGGCAGTGCCAGCAGCCAGCATAGTGAGGGCAGCCGGAGCAGTGGGTGACACGGAGTGAT
GGGGGGGCAGGGCGCACGGGGAGGCCCGAGGAGCGGGCCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCTAATCTCCGAGCCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAACTGACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGGCGGGCGCTCC
TGGTGTGTGACTGGGTGTCCTGGCCGTCATGTGCTTGCTCTTACAGTGCCTGGGCTCAGCCTACCAGCTGCTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCTGGTTCTTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTTAGCTTTGTTTTTTTTATAAGCCTTTTTGGGGGTAAAATAGAGTTTCTTACATTTTTG
GGACTTTTTTAATAGGCATTTCTCTTTT

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FIGURE 4672

AAAAAAAAAAAAAGAGGGAGGTGGCGGCAGCGGCTAGCGGACTCGAGTCTCAACCGGGCTGAGGCGGACACTTCTG
TGGAGCGAAGCAGTGGGAGCATCGAGCACTAGAGGCGGCACCGGGATCCCCGGCTCCGGGGAGGGGGCGCCGGA
CCGGGAGGAGGGGAGGGGGCG**ATG**CTGGAAGCCATGGCGGAGCCCAGTCCCGAAGATCCACCTCCGACCCCTAAG
CCAGAGACTCAGCCACCAGAGAAACGGCGGAGAACAATTGAGGATTTCAACAAATTCTGCAGTTTTGTTTTGGCA
TATGCTGGTTACATTTCCCCCTAGCAAAGAGGAAAGTGACTGGCCAGCCTCTGGCTCCAGCTCTCCATTGCGAGGA
GAGAGTGC GGCCGACAGTGATGGCTGGGACTCGGCCCCCTCAGATCTTCGAACCATCCAGACTTTTGTTAAGAAA
GCAAAGTCATCCAAGAGAAGGGCAGCTCAAGCAGTCCCACCCAGCCAGGACCCCCAAGGTCCACTTTCTCTCGT
CTGCAGGCCCCCGACAGTGCTACCTTGCTTGAGAAGATGAAGCTCAAGGACTCTCTCTTTGATCTGGATGGGCCC
AAAGTGGCATCTCCTTTGTCCCCACATCCCTGACACATACCTCCCGGCCCCCTGTGCTCTTACCCCGTGCCC
CTTTCCCAGGGGGACCTCTCCCATCCTCCTCGAAAGAAGGACCGAAAGAACCAGAAAGTTGGGGCCAGGAGCTGGG
GCTGGCTTTGGGGTGCTTCGGAGGCCTCGGCCAACTCCTGGGGATGGGGAAAAGAGATCTCGAATCAAGAAGAGC
AAGAAGCGGAAGTTAAAAAAGGCAGAACGGGGGGGATAGACTCCCACCTCCTGGGCCTCCCCAGGCACCCCCAGTG
ATACAGACTCTGAAGAGGAGGAGGAAGAGGAGGAAGAGGAAGAAGAAGAGATGGCAACAGTGG**TAG**GGGGTG
AAGCCCCAGTCCCTGTGCTGCCAACACCCCTGAGGCTCCTAGGCCCCCTGCCACAGTGACCCCTGAAGGAGTCC
CTCCTGCTGACAGTGAAAGCAAGGAGGTGGGCAGCACTGAAACAAGCCAAGATGGAGATGCCAGCTCCAGTGAAG
GCGAGATGCGGGTCATGGACGAGGACATCATGGTAGAATCAGGTGATGACTCATGGGATCTGATCACATGTTACT
GTCGAAAGCCCTTTGCAGGGCGGCCCATGATTGAGTGCAGCCTGTGTGGGACGTGGATCCACCTCTCCTGTGCTA
AGATTAAGAAGACCAACGTCCCCGACTTCTTTTATTGCCAGAAATGCAAGGAAGTGAAGCCAGATGCCCGGCGGT
TAGGGGGGCCCCCAAATCTGGAGAGCCCTGATGGCACCAACTTTAGCCTGGAACCTTCCAAATGACAACATGATT
TGGGAACTGAGCCTCAGGGTCCTCAGCCTATCCCCTGGAGCTTGATACTGTCTGCACTTCAAGGCAGGAATTCT
CAAGGGAGACTTGTGTTGAAAATGAGTGTCTCACTTTCCACCCCTATCCTTCCTCCCCACTCTGTGGACTTGAAAT
TGAATCCATTACGGTTGGGGATGGGAGGCTGTCTGTGTCCCGACACATAATCTCTGTCTCTTGACCTGCCACCA
TCACTTTCTGGGTGAGGATTGGAATTGGGATGGAATGGGACAGTTGTCTATAAACTCTAGTGTAATATTAGCA
CTCCCCCTCCCTCACTTTTTCTTCTATTTCACTCCCCATTTATTTTCTTCTACACCGGTTGTATTTTAATTTTG
ACTTCCCCCTATTGGGCATGGCAGCTCAAAGGTGGAGTACTAGAGCCTGGCCAAGTGAGGAAGGAAAGCAGAAAGG
TGACGATTCTCACTCACCTCTTTTGTGTTTAAATAATATCGGCCGCTGTTTGTACAGACAGCCTGCGTGTTGTAAA
TAAAGCAGGGTGGGCTCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4673

MLEAMAEPSPEDPPPTLKPETQPPEKRRRTIEDFNKFCSFVLAYAGYIPPSKEESDWPASGSSSPLRGESAADSD
GWDSAPSDLRTIQTFVKKAKSSKRRAAQAGPTQPGPFRSTFSRLQAPDSATLLEKMKLKDSLFDLDGPKVASPLS
PTSLTHTSRFPAAALTPVPLSQGDLSHPPRKKDRKNRKLGPAGAGFGVLRPRPTPGDGEKRSRIKSKKRKLKK
AERGDRLPFPPGPPQAPPVIQTLKRRRKRRKRKKKKRWQQW

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FIGURE 4674

GCTCCGCTGAATCCGCCCCGCGCTCGCCGCCGTCTGCGCCGCCCCCGTCCCGGCCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTTCGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTCAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAACCTCTCCTTTCTCCTTTCTCCCCCTTTCTCTG
CCCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTCAGTCTGTGTACATCCAGTGATTGTTTTGGTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCAGCAATCCCTTTCCTTTCACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCACCAAGCTG

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FIGURE 4675

CCGGCGGCGCCTCAGGTCGCGGGGCGCCTAGGCCTGGGTTGTCCTTTGCATCTGCACGTGTTCGCAGTCGTTTCC
GCCATGCTGCCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTCGCCGGCCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGCGGCCGGGCCTCCTGCGGCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTGATTTCCTGAGTGATGAAATTAAGGAGGAAAGAAAAATTCAGAAGCAT
AAAACCTTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAAGTGAATGGGACAGAAGCGAAATTAGTGCGGAAAGTT
GCCGGGGAAAAAATCACGGTCACTTTCAACATTAAACAACAGCATCCCAACCAATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTCTGTTGTTGAAGTTATAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTCATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTCAGTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCTTGGACTGGGCCTTATATGACCACCTAATGGATTTCTTGCCGACCGAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCCTAATATCATGGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTTATTATCATTTTTTTCTGTACAAATCTATTATTTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCC

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FIGURE 4676

MLPLLRCVPRVLGSSVAGLRAAAPASPFRLQLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGCGLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDAESESDIFSIREVSFQSTGESEWKDTNYT
LNTDSLWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

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FIGURE 4677

CCCGTTCCCTGGAGGCGCGCACAGACCCCTGGGAGGTGTACTTTCCGGGTGCAGACCGCGAATGGATCGCAGCGT
ATTCTGGGAAGTGTTGTTTTATCGACCGGCCCCACGTGGAGACAGATTTAGGCATCCAAGCGAAATGCGTGAGGC
CAGCCCCGACCTGCACTGAGGGAGGTAAGTCTTGAGGGAAAGTTCTGGATGCCTGGGTTTACCCAGATGGAGGTGT
CCAATAGGCAATTAGATACACAAGTCTCAGGCTCTCCCCAGGTGCTAGATTTCCAGCAGCACCACCATTATGTTG
ACTTCTCGTCCCGCCCCCTTGGGCTTCAGAAATAATGGTGATTGGCTTTCCCTTGGTGACGCCCCCTGCTTGTTGG
GCTGGCCTCGCCTTCGCCCCCGACCTGGCAGCAGGCTCTCGAGCTTCCGGGCCGTCTGCTCGGTGATTGGCCGA
AACAGTGAGTGGACGGCCGCGGATTGGCTGTGCTCAGCGGCGGGCTGAGCAACTGGAGTGAGGGGAGCAGTTGGG
CCAAGATGGCGGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAACCCAGTCGTGT
TCTTGCGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAACCAGCTTCTTCGTGTTGCCTT
CGTCGCCGCCGCCGAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCTGTGGGACGGAG
AAGACAGCTCCTTCTTAGTCGTTTCGCTTCGGGGCCCCAGCGGCGGCGGCGAAGAGCCCGCCCTGTCCCAGTACC
AGATGGAGTTTCGCTCTTGTTGCCAGGCTGGAGTGCAATGGCGCCATCTCGGCTCACCGCAACCTCCACCTTCC
AGTTTCAAGCGATTCTTCTGCCTCAGCCCCCCCCGCGAGTAGCTGGGATTACAGAGATTGCTTTGCATAAATCCA
CCCCGTGTTGAAATCTATCAAGTCTTGTTAAGCCCAACACAACATCATGTAGCACTTATAGGAATAAAAGGACTT
ATGGTATTAGAATTACCTAAAAGATGGGGGAAGA

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FIGURE 4678

GAGCAGTTGGGCCAAG**ATG**GCGGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAA
CCACGTCGTGTTCTTGCGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAAACCAGCTTCTTC
GTCGTTGCCTTCGTCGCCGCCGCCGAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCCT
GTGGGACGGAGAAGACAGCTCCTTCTTAGTCGTTTCGCCTTCGGGGCCCCAGCGGCGGGCGGCGAAGAGCCCGCCCT
GTCCCACTACCAGAGATTGCTTTGCATAAAATCCACCCCTGTTTGAAATCTATCAAGTCTTGTTAAGCCCAACACA
ACATCATGTAGCACTTATAGGAATAAAAGGACTTATGGTATTAGAATTACCTAAAAGATGGGGGAAGAATTCTGA
ATTTGAAGGTGGAATAACAGTGAATTGTAGTACCCTCCAGTTGCGGAGAGATTTTTCACCAGTCCACCTC
TCTGACTCTAAAGCATGCTGCATGGTATCCAAGTGAAATCCTGGATCCCCACGTAGTGCTGTTAACATCAGACAA
CGTAATCAGAATTTACTCACTACGTGAGCCGCAGACACCCACTAACGTGATAATACTTTCAGAAGCCGAAGAGGA
AAGTCTAGTACTCAATAAAGGAAGGGCGTATACCGCATCTCTAGGAGAGACAGCAGTTGCATTTGACTTTGGGCC
ATTGGCAGCAGTCCCAAAGACTCTATTTGGACAAAACGGCAAAGATGAAGTAGTGGCATACCCACTGTACATCTT
ATATGAAAATGGAGAGACTTTCTGACATACATCAGTCTGTTACACAGCCCTGGAAATATTGGAAAGCTGTTGGG
TCCATTGCCCATGCATCCTGCGGCTGAAGATAACTATGGTTATGATGCGTGTGCTGTACTCTGCTTACCCTGTGT
CCCCAATATCTTAGTGATCGCTACTGAATCAGGAATGCTGTATCACTGTGTCTGTGCTAGAAGGGGAAGAAGA
TGACCACACGTCAGAAAAGTCCTGGGATTCCAGGATTGACCTCATTCTCTCTGTATGTGTTTGAATGTGTTGA
GTTGGAGCTTGCTTTGAACTGGCATCTGGAGAGGATGACCCTTTTGATTCTGACTTTTCTGTCCAGTCAA
TCATAGAGATCCCAAGTGTCCTTCAAGATATCACTGTACTCATGAAGCTGGTGTACATAGTGTGGGCTAACTTG
GATTCATAAACTTCACAAATTTCTTGATCAGATGAAGAAGATAAGGATAGTTTACAGGAACCTCTACAGAACA
GAAATGCTTTGTTGAACACATCCTTTGTACGAAGCCATTGCCCTGCAGGCAGCCAGCTCCAATTCGAGGATTTTG
GATTGTACCTGACATTCTGGGACCCACGATGATCTGCATCACCAGTACCTATGAATGCCTCATATGGCCGTTATT
AAGTACAGTCCATCCAGCGTCTCCTCCCCTGCTTTGTACTCGAGAAGATGTTGAAGTGGCAGAGTCTCCCCTCCG
TGTTCTGGCTGAAACCCAGATTCCCTTTGAAAAGCATATTAGAAGCATTGCAACGTAAGTGTGTTGCCAATCCAGC
ATTTTTGAAAGCTTCTGAAAAGGACATAGCCCCCTCCTCCTGAAGAATGCCTTCAGCTCCTCAGCAGAGCCACCCA
GGTGTTTCAGAGAGCAGTACATTCTCAAACAGGACTTGGCAAAGGAGGAGATTTCAGCGGAGGGTCAAATTATTATG
TGACCAAAAAAAGAAACAAGTAGAAGATCTCAGTTATTGTGCGAGAAGAGAGGAAAAGTCTGCGGGAATGGCTGA
GCGTTTAGCTGACAAATATGAGGAAGCTAAAGAAAAACAAGAGGATATCATGAACAGGATGAAAAAATACTTCA
CAGTTTTCACTCTGAGCTCCAGTTCTCTCTGATAGTGAGCGAGACATGAAGAAAGATTACAGCTGATACCTGA
TCAACTTCGACATTTGGGCAATGCCATCAAACAGGTTACTATGAAAAGGATTATCAACAGCAAAAGATGGAGAA
GGTGTTGAGTCTTCCAAAACCCACCATTATTCTCAGTGCCTACCAGCGAAAGTGCATTTCAGTCCATCCTGAAAGA
GGAGGGTGAACATATAAGGGAAATGGTGAAGCAAATCAATGATATCCGCAATCATGTAAACTTCT**TGAC**ACCACCA
GGAGCTGACTCACACCTGAACACCATTGAAGGCTTAAACCCATATTGTAAAACAGGTAGAATTATCTAAT
TTATAAAAAGGTGTTTTGATG

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FIGURE 4679

MAAAEGPVGDGELWQIWLPHVFLRLREGLKNQSPTEAEKPASSSLPSSPPPQLLTRNVVFGLGGELFLWDGED
SSFLVVRLRGPSGGGEEPALSQYQRLLCINPPLFEIYQVLLSPTQHHVALIGIKGLMVLELPKRWGKNSEFEGGK
STVNCSTTPVAERFFTSSTSLTLKHAAYPSEILDPHVLLTSDNVIRIYSLREPQTPTNVIIILSEAEESLVLN
KGRAYTASLGETAVAFDFGPLAAVPKTLFGQNGKDEVVAYPLYILYENGETFLTYISLLHSPGNIGKLLGPLPMH
PAAEDNYGYDACAVLCLPCVPNILVIATESGMLYHCVVLEGEEDDHTSEKSWDSRIDLIPSLYVFECVELELAL
KLASGEDDPFDSDFSCPVKLHRDPKCPSRYHCTHEAGVHSVGLTWIHKLHKFLGSDEEDKDSLQELSTEQKCFVE
HILCTKPLPCRQPAPIRGFWIVPDILGPTMICITSTYECLIWPLLSTVHPASPPLLCTREDVEVAESPLRVLAET
PDSFEKHRSILQRSVANPAFLKASEKDIAPPPPECLQLLSRATQVFREQYILKQDLAKEEIQRVVKLLCDQKKK
QLEDLSYCREERKSLREMAERLADKYEEAKEKQEDIMNRMKKLLHSFHSSELPVLSDSERDMKKELQLIPDQLRHL
GNAIKQVTMKKDYQQQKMEKVLSPKPTIILSAYQRKCIQSILKEEGEHIREMVKQINDIRNHVNF

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FIGURE 4680A

GGTCAGCGGAGGGTTTGCTCCGTCTCTTGGTGAACCTTGAACAGAGGCAGAGGCAAAAGCAAAACATTTCTGCGCC
AGGAGATGAGGGGCGGTAGAGCXCTGGXAATGGAGATGTCCTTGACGCCTGGGCAGAGGCTGCAGCTGCAGGAC
CCTGTGGCCACTGGAGATAAGTAATGGTGCCXATTTGAACACCTACTGGAAACGGGGCAGGAACAGTGAGTGACC
CCAGGCGAGCACAGGCAGGTGCCAGGAGCCAGGATGCAAGGATGACGCCTCCGGAGGGCCCTGGCCCTCACTCCCAC
CTGGGCGCTAGGAGCCATCCCGGGGCTCCAGCCAGGAGCCCTGCTGCCAGGGGCAXTGGCCAAACCTTTCTTCC
GACTCCAGAAGTTTCTCCGCCGAACACAGTTCTGCTGTTXCTTCTCAXCGGCTGCCTACCTGATGACCGGCAG
CCTGCTGCTGCTGCAGCGGGTCCGCGTXGGCTCTCCACAGGGCCCCCGGGCACCCGGCCCCCTGCAGACCTTGC
CAGTGGCCGCCGTGGCGCTGGGCGTGGGCTTGCTGGACAGCAGAGCCCTGCACGACCCTCGAGTCAGCCCAGAGC
TGCTGCTGGGTGTGGACATGCTGCAGAGCCCCCTGACCCGCGXCCCGGCCCGCCCCGCTGGCTCCGGAGCCGC
AACTCGGAGCTGCGTCAGTTGCGTCGCCGCTGGTTCCACCCTTCATGAGTGACTCCCAGGGACCGCCCCGCCCTG
GGCCCCGAGGCTGCCAGGCCCGCCATCCACAGCCGAGGCACCTACATTGGATGCTTCAGTGACGATGGCCACGAG
AGGACTCTGAAAGGAGCTGTGTTTTATGACTTGAGAAAGATGACTGTCTCCCACTGCCAGGATGCGTGTGCTGAG
CGGTCTATGTCTACGCCGGCTTGAGAGCCGGGGCGGAGTGTTACTGCGGGAACCGGCTGCCAGCGGTGAGCGTG
GGGCTGGAAGAGTGTAACCATGAGTGCAAAGGCGAGAAGGGCTCTGTGTGCGGGGCTGTGGACCGGCTCTCCGTG
TACCGTGTGGACGAGCTGCAGCCGGGCTCCAGGAAGCGGCGGACCGCCACCTACCGCGGATGCTTCCGACTGCCA
GAGAACATCACACATGCCTTCCCCAGCTCCCTGATACAGGCCAATGTGACCGTGGGGACTTGCTCGGGCTTTTGT
TCCCAGAAAAGAGTTCCCTTGCCATTCTCAGGGGCTGGGAATGCTACTGTGCTTACCCTACCCCCGGTTCAAC
CTGCGGGATGCCATGGACAGCTCAGTATGTGGCCAGGACCTGAGGCACAGAGGCTGGCAGAATACTGTGAGGTC
TACCAGACACCTGTGCAAGACACTCGTTGTACAGACAGGAGGTTCTGCCTAACAAATCCAAAGTGTTTGTGGCT
TTGTCAAGCTTCCCAGGAGCCGGGAACACATGGGCACGGCACCTCATTGAGCATGCCACTGGCTTCTATACAGGG
AGCTACTACTTTGATGGAACCTCTACAACAAAGGGTTCAAGGGCGAAAAGGACCCTGGCGGAGCCGACGCACC
ATCTGTGTCAAAACCCACGAGAGTGGCAGGAGGGAGATTGAGATGTTTGATTACGCCATCCTGCTAATCCGGAAC
CCATACAGGTCCCTGGTGGCAGAATTCAACAGAAAATGTGCCGGGCACCTGGGATATGCAGCTGACCGCAACTGG
AAGAGCAAAGAGTGGCCGGACTTTGTCAACAGCTACGCCTCGTGGTGGTCCTCGCACGTCCTGGACTGGCTCAAG
TACGGGAAGCGGCTGCTGGTGGTGCACTACGAGGAGCTGCGGCGCAGCCTGGTGCCACGTTACGGGAGATGGTG
GCCTTCTCAACGTGTCTGTGAGCGAGGAGCGGCTGCTCTGCGTGGAGAACAACAAGGAGGGCAGCTTCCGGCGG
CGCGGCCGGCGCTCCACGACCCTGAGCCCTTACCCCGGAGATGAAAGACTTGATCAATGGCTACATCCGGACG
GTGGACCAAGCCCTGCGTGACCACAACCTGGACGGGGCTGCCAGGGAGTATGTGCCAGATGATAGGCCTGGCCC
ACGCCGCCGCCCGCTGAGTGACGCAATCGCACACGGGGCTGCGCTCCCCACTCTGATGCTCAGGCCCGTGGC
CTCACTGGGACGAACGGTGGGTGGGGGGCTCACCTGGTGTGCTCCCGCACAAGGAGACCTGGACACAACAGA
CACACATCACAAGGCGAACACAAATGGACACACATACCTGGCCACGAACCCACACCTCCTCAGACACTCAGACAC
CACTCCAGGCTCATAGCCCCGTCTTGATGCAGAGAAGCCACCCACGTGGGGTGTGCCAGGCACCCCCAGATACAA
ATGCAGCCACGCACAGACGTAACACACAGGTGCCAGGCCGTGTGCTCCTGGAGGCTGGCTGGCTGTCTCTCTCAC
ACAGATACACGTGCGCTCCCTGGGATCCGGGAGGCCCTGGGCTTCTGTGTGTAGCCCTGGCATAGACTTGCTCG
TCAGGGTGTTGACTCTGGGATGCTGGGCCGGGCAGACATTTATGCTCTGAGCAGCAAGGACCATTGGGATGGAG
GTGGGCACAAAGACTGCTGCTTCCAGGGTGTGCGGCCCTGGCCGTGTGTCTGACATCCCATAAATGTGTGTGTGG
TGTGACTACGGGCACCACAACTCCGCAGCCTTGCCCTCTCTTTCTCTGTGGCTGGGCTGGCTGCACCATGGGCA
GGGTTGAGGACTGCCCCCACC CGCCCAAGCCAATGCAGACACTGACCTCAAGACCAGCCACACCAAGTCTGTG
CACTGCCCACCACCCCTTCAACCCCTCCTACACCATGCTCCGGGGCCTGGGGCCTCCTTGCCCTGGCTTCTTCT
CCAGCTATCCTCAGGGAAGCTGGAGATTCAAGTCATGCCCCAGAAGCAAGGTGTAAGCATGGGGGCGTGGGGAAG
AGGGCAGGAGCTGAAGTTCCAGGGGAGCCAGGACCCCTGGGGACCTGTACACTAGCAGGATGGGTCTTGGGAGT
TGGCATGGGGGAGATTGTAAGGGCTGTATCTCCGCGATTACTGGTACTGGTGCTCCACCCATAGGGGGCCCTGTTCT
CTCTGGGGTCCCACACTGGGGTTCATGAGAGCTAGTTAGTACTCAGCCTGACCCCTAGGTCTGGTCTGCCAGCCT
GGGATGGGGGTCAATGTATGCTACACATCTTGGGCTCACAAAGTGAGGCTGTGGAGGCCAGGAGGTTCAAGTATGG
AGGGTAGGAGTGCAACCCAGGAGCAACGCTCAAGGTGGCCGAGATGCAGGGAGGATTGTGGCGATCCGGTTGCAC
ACTGGCCTCTGTGGAGGTGAGGGAGGTGGGAAGGTGGGTGGGCCTGAACTCAGGCAGCCCTTCAGTGGCTTCTTC
AGGCCTAGGATAACCTTGCCAGGCCCATGGTCTGCTCTGGGTGAGCTGTGAGGGAGACCTCCCTTCAGCCTG
AGCCAAGCTGCATTGGGAGGAGAAGGCAGGGTGAGGGATCTGGGAGAGCAGGACGTTGAGATATCCTGACCCCT

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FIGURE 4680B

GCTTCCTAGCCTGATGATGGGGAACCCAGAGCCACCCGCTATGAGCACAGGCCGGGGGTGGAAGGCCCAGTAGAG
CTGCCCTTCCCCAGATGGAAGCTTCCTCCAACCTTCAGTTTGGCCAGTGGGTGGGTTTGGGCATCTGTGCCCTG
GTGGCCTCCAAATCCTTCCTGGGATTCCCCCAAACCCACACTGATGCGAAGCTGTTCTTGACCCCTCCCATAGCAT
CAACTCAGTTCAGCTCAAAGCTAGAAACACCAAGGTCTTTGAAAATGTTTATTGGCTCAGGATAGCTTCGGCATC
CAATCTGCGAAGGCCCTGATGGAGCTATTTCTTCCTAGTATCAGGAGCAATTGAGACCCCTCAGGAGTTTCCAC
ACTGCTGTGGACGGGATAGCCAGGGCAGACCTGCATCCCAGAGCAAGCCTAGATCCTTGAAAGCAATGTCAGGCG
TGGCAGTGGGGAAGCCATGGAGGCTGGGAAGGGCAAAGTGTGGAGAGAGGAGTGACCGGGACTGGAGCCAGGGTC
TGGGGAGAGCAACAGCACCAGGCTTTTCTGGTAGTTGGATTGGTACATTCACTGCTGCCAGGTACCCAGAGATG
TCATCTCTCTCCAGGTAGAGCATCACCAGCTCCTGTGGCCTTGTAGATGACTCTGTACCTCAGTGAAGAGTGCAG
GCAAGTAGAGTGATGGGGTCAGTGTCCATCCAGTTTACGCTGAGTCAGTCCATACAGCAAGACACCTGGCACTTG
GCAGGTACTCCTGGATGTTGATGAGCAAGGAAGAGCAACGGCCCTGTCAGCTGGCAGTGGTCCTCACAGCCTTCA
TCCCAGGTCTGCCTACGTGGGAGATCTCATCAGAAACAGGAACGGGGATCTGTCTGTGCTTGCAAGAAAGTCCAT
TTGTTTTTCTCCAAGTTAGGTCTCATCTACAGCTCTTAGCTTCTCAGTAAAGAGGATACTCTCCCAACCAGCCAA
GGAATAAAAGCTGATCTGTATGTAGGGCAGAAGTGTGGCAAATGCATCAGGAACCGGTTAGAACAGAACAGAGAA
ACCCTGACTGTCTACAGATTCCAACCTTTAATAGCAAGCCTGTGGAGTTACACAAACCTGTGTTAAAACATGTAAT
TTTTATGGATTTTCATCTCCCGTTGTGGATCAATTTGGAAAAACCAAAATATGTAATTTAAAAAACTAAAACACA
TCCTGGTAGTCCCAGTGATGTGTAAATGAGAGAGAAGAATAGACAGGCTTCCAAACCCCTGGGAAGAAAGCTGCTT
AATTATGTGAACATCTTATAATGAAGTCTCTTGCAGCTAAAATTAGATTTTGAGTGCATGAATCTGTGATAATGT
TTGCATATCAGAATGCATTCTCCCTTAAAAGTAGCAGTAGCCACTTGGTTCTTAGGGGGCCCCAAGAGGAGAGG
AGAAGTGCTGAGGTTGATGTTACGACTGCAAGAATTCTTGGGACACAGGTTTGTCTTGCTGACTTGCTCGGAA
ACCCATTGGAGGTATCTGAAATGTGATGACTCCAAAGGGGTTCAATTTCACTATAGGGAGAAAATTGATTGCTCTGA
CTTCCTATTTATCACCCTCAATATTGGGTGAGTTGGTCTGAACAAGGTGGGGATAAAGTAGAGTGGAATAATG
TAGAGTCGTCAGACTGAAAGGCCAGGTTGTAGTCCCAGCTCTTATCTGCCATCTTGGACAAAAGCTTTTCCCCTCT
CCAGTCTCAGTTTCCCATCCATAAAATGGGGGAAGTGGTAGGTCTTGCTGATTGCATCCACATTTCCTCCAT
TTCCTTTCCCAGCAACCCCCCATTTCTGTTTGGGAATTCATATGATCTGCCAGAGCCTCTCCAGGGGTGGAATAC
ATGTCCTGGACTAAGCCAATGACACCTTCCATCTTTCCAGCTATGGTGAAGTGGGTTAGGTATGATCTTGTGAGTT
AAGACAATGAAGCCAGAGGGAATTTCAAGACTTATGGGAATGCTGGGTAGAAGCTGTTTTAATTCCCCTGTTGAA
TGTGAAAAAGGTAGTAGTATTCTGGGTCTTTATGATGACCACCTTGGGCCTTGGGATCATGACCAGGAATCACG
TGAAGCTGACACCACTGAAGGGAGAGTTGAGAGGCAGAAAGAGATCAAGTCCTTGGTGAAATTGTTAAGTACAG
GATCAAGCCTTGCTTGAGATTGGCCTTACCTCTGGACTTTTTTTTGTATATGAGCTAATAAATCTGTTTATTGT
TT

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FIGURE 4681

MAKPFFRLQKFLRRTQFLLFFLTAAAYLMTGSLLLLQRVRVALPQGPRAPGPLQTLPVAAVALGVGLLDSRALHDP
RVSPPELLLGVDMLQSPLTRPRPGPRWLRSRNSLRQLRRRWFHHFMSDSQGPPALGPEAAARPAIHSRGTYIGCFS
DDGHERTLKGAVFYDLRKMTVSHCQDACAERSYVYAGLEAGAECYCGNRLPAVSVGLEECNHECKGEKGSVCGAV
DRLSVYRVDELQPGSRKRRTATYRGCFRLPENITHAFPSSLIQANVTVGTCSGFCSQKEFPLAILRGWECYCAYP
TPRFNLRDAMDSSVCGQDPEAQRLAEYCEVYQTPVQDTRCTDRRFLPNKSKVFVALSSFPGAGNTWARHLIEHAT
GFYTGSIYFDGTLYNKGFKGEKDHWSRRTICVKTHESGRREIEMFDSAILLIRNPYRSLVAEFNRKCAGHLGYA
ADRNWKSKEWPDFVNSYASWWSSHVLDWLKYGKRLLVVHYEELRRSLVPTLREMVAFINVSVSEERLLCVENNKE
GSFRRRGRRSHDPEPFTPEMKDLINGYIRTVQALRDHNWTGLPREYVPR

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FIGURE 4682

CTTAGTGGTGTCTCGGGTCTAGTGGACAGAGAAGACTCTTGGCCAGGCAGATGGCTTCTCGGTGGCAGAACATGGG
GACCTCCGTGCGCCGGAGATCTCTCCAGCACCAGGAGCAGCTGGAGGACAGCAAGGAGCTGCAGCCTGTGGTCAG
CCATCAGGAGACCTCTGTAGGGGGCCCTGGGGTCCCTGTGCAGACAGTTCCAAAGGAGGCTGCCCCGTAGAACCCT
CAACCTCAACCTCCGCGCAGGGCCCTCCTGGAAACGCCTGGAAACCCAGAGCCAGGTCAGCAGGGCCTCCAGGC
TGCAGCTCGCTCAGCTAAGAGTGCTTTGGGTGCCGTGTCCAGAGAATCCAGGAGTCTGCCAAAGTGGCACCAA
GTGGCTGGTGGAGACCCAGGTGAAGGCCAGGAGGCGGAAGAGAGGAGCACAGAAGGGCAGTGGATCCCCAACTCA
CAGCCTGAGCCAGAAGAGCACCCGGCTGTCTGGAGCCGCCCTGCCCACTCAGCCGCAGACCCCTGGGAGAAGGA
GCATCACCGCCTCTCTGTCCGGATGGGCTCACATGCCACCCATTACGGCGATCAAGGCGGAGGCTGCCTTCCG
GAGCCCCTACTCCTCAACAGAGCCCCCTCTGCTCTCCAGCGAGTCTGACAGTGACCTAGAGCCTGTGGGGGCGGG
AATTCAGCATCTCCAGAAGCTGTCCCAAGAGCTAGATGAAGCCATTATGGCGGAAGAGAGTGGTGACATCGTCTC
TCTCATTCATGACTGAGGAAGTGCTGCAGGAAACAAGCCCTGTCTGACCGCCAAGGCTTCATACTCAAGGATGT
CTATGCTTCCCCGTGTGCTTCCTGGAAAAAACCCCCGGGAGTCGTACAGTACCCCTGGGCCACTGCTAACAAGCAC
CTAACAAGGGGGCCAGAGCCCCCTGCTCCAGCCACATCTGGACCCATCAGTGAAGTGCCTGCCATAGCCTGAGAGT
GTCTTGGGGAGACCTTGAGAGGGGGGAGAATTGTTCTTCTGCTTTCTAGGGGACTCTTGAGCTTAGAACTCA
TCGTACACTTGACCTTGAGCCTTCTATTTGCCTCATCTATAACATGAAGTGCTAGCATCAGATATTTGAGAGCTC
TTAGCTCTGTACCCGGGTGCCTGGTTTTTGGGGAGTCATCCGCAGAGTCACTCACCCACTGTGTTTTCTGGTGCCA
AGGCTCTTGAGGGCCCCACTCTCATCCCTCCTTTCCCTACCAGGGACTCGGAGGAAGGCATAGGAGATATTTCCA
GGCTTACGACCCTGGGCTCACGGGTACCTATTTATATGCTCAGTGCAGAGCACTGTGGATGTGCCAGGAGGGGTA
GCCCTGTTCAAGAGCAATTTCTGCCCTTTGTAAATTATTTAAGAAACCTGCTTTGTCATTTTATTAGAAAGAAAC
CAGCATGTGACTTTCTAGATAAACTGCTTTCTCATAATAAAGACTATTTGCATTG

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FIGURE 4683

MASRWQNMGTSVRRRSLQHQEQLSDSKELQPVVSHQETSVGALGSLCRQFQRRRLPLRTVNLNLRAGPSWKRLETP
EPGQQGLQAAARSASALGAVSQRIQESCQSGTKWL VETQVKARRRKRGAKGSGSPTHSLSQKSTRLSGAAPAH
SAADPWEKEHHRLSVRMGSHAHPLRRSRREAAFRSPYSSTEPLCSPSESDSDLEPVGAGIQHLQKLSQELDEAIM
AEESGDIVSLIHD

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FIGURE 4684

ATGGATGCCGCTCTGCTCCTGAACGTGGAAGGGGTCAAGAAAACCATTCTGCACGGGGGCACGGGCGAGCTCCCA
AACTTCATCACCGGATCCCGAGTGATCTTTTCATTTCGCGACCATGAAATGTGATGAGGAGCGGACAGTCATTGAC
GACAGTCGGCAGGTGGGCCAGCCCATGCACATCATCATCGGAAACATGTTCAAGCTCGAGGTCTGGGAGATCCTG
CTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTTCTGGTGCGACACCATCCACACGGGGGTCTACCCCATCCTA
TCCCGGAGCCTGAGGCAGATGGCCCAGGGCAAGGACCCACAGAGTGGCACGTGCACACGTGCGGGCTGGCCAAC
ATGTTTCGCCTACCACACGCTGGGCTACGAGGACCTGGACGAGCTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTG
ATCGAGCTGCTGCAGGTTGATGCCCCGAGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATG
AAGGCGGTGCCCGTCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCTCTTCCAAG
TACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTGAAGCTG
GAGAAGATGATCAATACTCTGATCCTCAACTACTGCCAGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCTG
GAGCACACCAGTGATATTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCCGGGCTCACGCA
GAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGCTGGAGCTGGAGCCGTCCATGCAGAAGGCG
GTGCGCAGGGAGCTGAGGCTGCTGGAGAACCGCATGGCGGAGAAGCAGGAGGAGGAGCGGCTGCGCTGCCGGAAC
ATGCTGAGCCAGGGTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCCGCACAGTCATCCACAGAGCCA
CCTGCAGAGCCACCCACAGCACCATCTGCAGAGCTGTCCGCAGGGCCCCCTGCAGAGCCAGCCACAGAGCCACCC
CCGTCCCCAGGGCACTCGCTGCAGCACT**TGAG**CCCCCTGAGGCCACAGCCACCCAGGCAGGGAGCAAGTGGCCTG
GTCACTTCTGGTTCGATTGACCAGGATCGTGGTGTCACTTTTTTAAAATTTAAAATTAATTTTTTGAAATCAAAGTC
AGACACACCCATGGTAAAAAAAAAAAAAAAAAACAATCCCAAGGGTACAGAAGAGCTTATGAATAAAAGTAGTTTT
CTCCTCTACCCCTCTCATTCCTTCCGTGCCATGGTTTTTAATTGACCCTGTTTTTAATTCTTCTGGTAGTTTTCTC
TATTTCCAAGTAATCTGTTTAAATCAGTTTCTAGATTTTACCCCATGTCAATGACAAATGAGGATTTGATGCTCT
GATCCTTTCTCATGCCTGATACCCCTCCCTGTCTCCCCATTTTGATAGTTACATTTGGGGGTCATCTCGGTGAT
TTTTGTAACTTTACGCAGGACACTTAGAGCTCTCTAGAATCCCACTGACTTTAGTGGGTCTTGATGTAGGGTGGG
CAAGCCCCGACACTGGAGCTTAGCCTGAGAGGGTTCTTG

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FIGURE 4685

MDAALLLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMHIIIGNMFKLEVWEIL
LTSMRVHEVAEFWCDTIHTGVYPILSRSLRQMAQGKDPTEWHVHTCGLANMFAYHTLGYEDLDDELQKEPQPLV
IELLQVDAPSDYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQEAIICLRNLQTKPKWEVQWLKL
EKMINTLIILNYCQLLKKEEYEVLEHTSDILRHHPGIVKAYYVRARAHAEVWNEAEAKADLQKVLELEPSMQKA
VRRELRLLENRMAEKQEEERLRCRNMLSQGATQPPAEFPTEPPAQSSSTEPPEPPTAPSAELSAGPPAEPPATEPP
PSPGHSLQH

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FIGURE 4686

GGCCAGCGCGGCCGGXGCCCCCTXCGXCCTXCCCACCCAGGGCGCTGAGCACGCACGXCCGCGGCCTGGTGTTT
CGGXCGGGGGCCCCGGGACCAGCCGCCGCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAA
GGGGCGGGAAAXCGTCGGCGACGCCGAGGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTC
CTCCCGGCGCAAACGCACCGCCCCAGGAGGGGGCGGGCTCGGCGGGTCTGGGGGGCGGGGGCCGGGGTCCGAGCTCGG
GCCCCXGCTTCCGCCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAA
CTAAGCCACCCAGACACCATCATCCCGAAAACCCAGCCCTTCTCCCATGGCAGGCTACTTGCCCCCCCAAAGGX
TACGCCCCCTTCGCCCCACCTCCCTACCCTGTCACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGXCCCCG
GCAGGCGCCAGTGCCCGCCAGGTACCTGCCCCAGXCTCCCGGCTTCGCCCTCTTCCCCTCGCCTGGCCCCGTGG
CCTTGGGGTCTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCTTGGTGCAGATTGATC
AGATTTTGATTACCAGAAGGCTGAGCGAGTGGAATAATGGAAGTACAGGCTCCACCAGGCACCACCATTTGGCCAC
GTGCTACAGACCTGGCATCCCTTCTCCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTG
GTGGGGCCCTGCTGGACCTGTGGCTGTGGCACAGACACCAACTTTGAGGTGAAGACXTCGGGATGAATCCCGCAG
TGTGGGCGCATCAGCAAGCAGTGGGGGGCCTGGTCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACA
GTTCCCGCTGGACCXXXTGAXTXGXXXTGXAGGGTGAAGGCTGTGCTGCTGGGAGCCACATTCCTCATTGACTA
CATGTTCTTTGAGAAGCGAGGAGGCGCTGGGGCCCTCTGCCATCACCAGTTAGAGGCCACCATGGTGTGAGGAGAC
CATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCCCTCCTCTGGGCAGCCCCCTTCTCCTCATGTACA
CTGCAGGGGACAGXAAGGGGGGCCCCATCCCTACCCTACTCCCTGGCCGCCTGXCCCCCTGTGGTTCCCAAGGAGG
GGTATGTATGAGAGCCGCTCTCCTGCTACCTXCCCACCCTGTCCCAGCAGTCCCTCGGCACACAGGCATATCAG
CTTTCACACTTTCCCCATGCACTCTCTCCACCCCCCTTCCAGGGCCTCTGCTCCAAAGGAGGCCTCTGGAACCCA
GGACTCTGGGGTTTTTACAAGXAGGGCTGGGGTGTGGAAGGGCAAGCTGCACCAAAGACGGTGGATATAGCCACCG
CCCCCCCCGCGCTGCCTAGCATCTGCTTGGCCAATTAGTTACGCCTCAGACCATGGCACTTTGAGGGGGTCTCTA
CCTCCCCATCAACAGCTGCAGGGGGACCCAGTGCCAACTTCTCTCCAXCTAGGGCCCCTGCTTCAGCTGGTG
CTTGCTGCGATTCTGTGCCTTATGTAACTGCCCTTCTTCCCTTGCCCTXAGGAAAAAGGCTGCATCTTTATAT
GTTACATTCATATAAACTTTGTAACTTTTTTGACATTG

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FIGURE 4687

CTAGTTTCTAAGGATCATGTCTGCGAGCCAGGATTCCCAGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCCGA
AGGCGTCATCGAGAGTAAC TGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGGCATCTA⁶CGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTA
TGATGTGATTGCTCAAGCCCAATCTGGGACTGGGAAAACGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGGAGACTACATGGGCGCCTCCTGTCACGCCTGTATCGGGGGCACCAACGTGCGTGCTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTGGCCGTGTGTTTGATATGCTTAACCGGAGATA
CCTGTCCCCCAAATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCCACAATGCCTTCTGATGT
GCTTGAGGTGACCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTC AAGAAGGAAGAGTTGACCCTGGAGGG
TATCCGCCAGTTCTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCT
GACCATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCG
AGATTTCACTGTATCCGCCATGCATGGAGATATGGACCAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTT
TGGCTCTAGCAGAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACTATATCCACAGAATCGGTGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCAT
TGAGGAAAATGCCCCCTCAATGTTGCTGACCTCATCTGA⁶GGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCTGGGGGCTGAGGAGCAGCAGGAGGGGGGAGGGGAAGGGAGCCAAGGGATGGACATCTTGTCATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAAGAAGG

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FIGURE 4688

MSASQDSRSRDNGPDGMEPEGVIESNWNIEIVDSFDDMNLSESLLRGIYAYGF EKPSAIQQRAILPCIKGYDVIAQ
AQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVVMA LGDYM GASCHACIGGTNVRAEVQKLQME
APHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDVLEVTK
KFMRDPIRILVKKEELTLEGIRQFYINVEREEWKLDTLCDLYETLTITQAVIFINTRRKVDWLTEKM HARDFTVS
AMHGDMDQKERDVIMREFRSGSSRVLIITDLLARGIDVQQVSLVINYDLPTNRENYIHRIGRGRFGRKGVAINM
VTEEDKRTLRLDIETFYNTSIEEMPLNVADLI

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FIGURE 4689

GAGCTAGCTTTGCAAT**ATG**GCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTCACTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATCCGGGGAGCCAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACCTTCCCATTCCAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTTCCTCGCTTGCTACGGCCTGGTCCCTGCTGGTGCTTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGGCTCCCTGGCCCGAATCTTCACTTCCATTAGGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAG**TAG**AGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTACCCAACCTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCCTCCATTCTCTGCACTTGACAGCTTTCTGAGCCAGGGTTTCTTTTA
GTGGAACAAATGTTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCAAGCCAAAATT
TTGACATTTGAGTGCTTTTCGTAAGCCCTGTACATGTACTATTAATTCAGTCATTAGCCAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACTATCCTGGGCAAATGTTTTACCCTGTCCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGGACCCAGTGCTGGGGTGGGGGAAGGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

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FIGURE 4690

MAAEADGPLKRLLVPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAKSAEGLS
LQSVMLELVALTGTMVYSITNNEPFSSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPVVVGRLLQAATNYHNGYTGQLSAITVFLFFGGSLARIFTSIQETGDPLMAGTFVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

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FIGURE 4691

TTAAGGAGGTGCAGTCTTATGGGAGGGACAGGGGCGGAGTCAGTCTTTAAAAGCTGTTCCCAGGTCTGGCCCGCC
TGCCACAAACGCTGAGCCCAGGTGGGAGAGGTCTGGCCTATCCGCGCCTGGCAGCTGTGCGAACTCCGGAGACCA
CAAAGGGGTTTATGGTTTACCCCCTCCACGGAAGGTCGGTCTGATCGCAGCTGCGGGTTCGGGGAGAGGGACCGGG
GGTCCCCCAGTCAGTAGGCCTCAGAACACCTCTTCAGTGCCGGGGCACCAGACAGCGGATTTTGCATTTCGACTCT
CCCCAAAGTGTGCCGAACAGGTTGGAAGCAAAGGCTCCGGTTTAAAGCTCTGGGCTTGGGGATAAAATACACTTTT
TAAGGACCCAAGTTCCTCGGCAACGACTCCAGACTGGGAAGACCTTTCCATTTTTCAGGATCGACGCTTCACGTTG
AGGGGAGGGCATTTCAGGACGCCCTCTTAAGGCTTCTCCCAACCCATGGCGCTACCAGGCTCCTCACAGGACCAGG
CCTGGAGCCTGGAGCCTCCGGCTGCCACGGCTGCTGCCTCCTCATCTTCGGGACCCAGGAGCGGGAGGGCGCTG
GGAGCCCCGCGGCCCGGGACGCTGCCCCCTGGAGAAGGTGAAGCGGCCGATGAACGCGTTTCATGGTGTGGAGCT
CCGCTCAGCGCCGCCAGATGGCGCAGCAGAACCCCAAGATGCACAACCTCCGAGATCTCCAAGCGCCTGGGCGCGC
AGTGAAGCTGCTGGACGAGGACGAGAAGCGGCCCTTCGTGGAGGAGGCCAAGCGGCTCCGCGCCCGACACCTGC
GCGACTACCCCGACTACAAGTACCGGCCTCGGCGCAAGGCCAAGAGCTCGGGCGCCGGACCTTCCCGCTGCGGAC
AGGGAAGAGGCAACCTGGCCAGCGGCGGCCCGCTCTGGGGGCCGGGTACGCGACCACCCAACCGAGCAGAGGCT
TTGGGTACAGACCCCCCAGCTACTCGACAGCCTACCTGCCTGGCAGCTATGGCTCTTCCCACTGCAAACCTGGAAG
CCCCCTCACCGTGCTCCCTCCCTCAGAGTGACCCTAGGCTCCAGGGGGAAGTCTGCCCACCTATAACCACTACC
TGCCCCCTGGCTCTCCCACTCCATAACAACCTCCCCCTTGCTGGTGCCCCCATGCCCCTAACCCACCTCTTAACCCT
CATGGACGCAGACCTCACGGGACGGGCCTCATCCTCCTTTTTTAATCCAGCAGCATCCCCTACCCAGGCTGTCA
ACCCTTTCTCCTGTTGGACTACAGTTCAGAGGCAGCCTGCAGTCTCCCATGATAGCCAGGGAGAGCCGCACAAC
ATACAATTATATTTTTGGTAGTATTAAACAGTTTTGTATTATTC

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FIGURE 4692

MALPGSSQDQAWSLEPPAATAAASSSSGPQEREGAGSPAAPGTLPLEKVKRPMNAFMVWSSAQRRQMAQQNP¹KMH
NSEISKRLGAQWKLLDEDEKRPFVEEAKRLRARHLRDYPDYKYRPRRKAKSSGAGPSRCGQGRGNLASGGPLWGP
GYATTQPSRGFGYRPPSYSTAYLPGSYGSSHCKLEAPSPCSLPQSDPRLQGELLPTYTHYLPPGSPTPYNPPLAG
APMPLTHL

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FIGURE 4693

ACTTGTTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAAGTCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTTCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCGAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGG
AAACATTTTCAGACCTATGGAACTACTTCTGAAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCCAGAATGC
CAGAGGCTGCTCCCCGCGTGGCCCCCTGCACCAGCAGCTCCTACACCGGCGGCCCTGCACCAGCCCCCTCCTGGC
CCCTGTTCATCTTCTGTCCCTTCCAGAAAACTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCAATTCTG
GGACAGCCAAGTCTGTGACTTGCACGTACTCCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCAGCTGTGGGTTGATTCCACACCCCCGCGCCGACCCGCGTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCCTCCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGCCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACATACATGTGTAACAGTTCCT
GCATGGGCGGCATGAACCGGAGGCCCATCCTACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTGTTGTGCTGTCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCC
AGCCAAAGAAGAAACCACTGGATGGAGAATATTTACCCCTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCTTGGAACCTCAAGGATGCCAGGCTGGGAAGGAGCCAGGGGGAGCAGGGCTCACTCCA
GCCACCTGAAGTCCAAAAAGGGTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAAGGGCTGACT
CAGACTGACATTCTCCACTTCTTGTTCCTTCCCTGACAGCCTCCCACCCCATCTCTCCCTCCCTGCCATTTTGG
GTTTTGGGTCTTTGAACCCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTGTTTGTGTTGGGGAGGAGGATGGGGAGTAGGACATAACAGCT
TAGATTTTAAGGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGCAAGTTAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCCACTTACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAAGTTCAAGGCCCATATCTGTGAAATGCTGGCATTGTCACCTACCTCACAGAGTGCATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAAGTTGACCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTTGGTTCGGTGGGTTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGGCCCAGCCAAACCCTGTCTGACAACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCCTGGAGGATTTTCATCTCTTGTATATGATGATCTGGATCCACCAAGACTTGTTTTATGCTCAGGGTCA
ATTTCTTTTTTCTTTTTTTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCTCCCCGGCTCGAGCAGTCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTTCATGCCACCATGGCCAGCCAACTTTTGCATGTTTTGTAGAGATGGGGTCTCACAGTGTG
CCCAGGCTGGTCTCAAACCTCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCCAGAGTGTGGGATTACAATTG
TGAGCCACCACGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTACCCCCACCT
TCCCTCCTTCTCCCTTTTTTATATCCATTTTTATATCGATCTCTTATTTTACAATAAACTTTGCTGCCA

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FIGURE 4694

AGTGCTTTCAAAGAATTGGCGTCCGCTGTTTCGCCTCTCCTCCCGGGAGTCTTCTGCCTACTCCCAGAAGAGGAG
GGAAGCACAXGGXTXGGGTTTCTTTAGCTCTGCGTCGGATCCCTGAGAACTTCGXAXAGXCCATCCTGGCTGAGG
CTAATCTCCGCTGTGCTTCCTCTGCAGTATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCTTC
AGACCAGGACCCAGCTCCAGCCCATCCTTCTCCCCACGCTTCCCCGATGAATAAAAAATGCGGACTCTGAAGTAT
GCCACCGCTCCCCGAAAGGGGGGATCCGCCCGGTTGTCCCCAGATCCTGTGGCTGGCTCAGCTGTGTCCCAGGA
GCTACGGGAGGGGGACCCAGTTTCTCTCTCCACTCCCCTGGAAACAGAGTTTGGTTCCCCCTAGTGAGTTGAGTCC
TCGAATCGAGGAGCAAGAAGTTTCTGAAAATACAAGCCTTCTGTCAGAAGAAGCAAACGGGAGCCTTTCTGAAGA
AGAAGCGAACGGGCCAGAGTTGGGGTCTGAAAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGACGA
GGGAGACACCGCTTGGAAGTACAGCTTCTCCAGCTGCCTCGATTTCTCAGTGGTTCTTGGTCAGAGTTCAGCAC
CCAACCTGAGAACTTCTTGAAAGGCTGTAAGTGGGCTCCTGACGGTTCTTGCATCTTGACCAATAGTGCTGATAA
CATCTTGCGAATTTATAACCTGCCCCCAGAGCTGTACCATGAGGGGGAGCAGGTGGAATATGCAGAAATGGTCCC
TGTCTTCGAATGGTGGAGGTGATAACCATCTATGATTACTGCTGGTATTCTCTGATGTCTCAGCCCAGCCAGA
CACCTCCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTTCATATCTGGGACGCATTCAGTGGAGAGCTCCGGGC
TTCCTTTCGCGCTACAACCACCTGGATGAGCTGACGGCAGCCCATTCGCTCTGCTTCTCCCCGGATGGCTCCCA
GCTCTTCTGTGGCTTCAACCGGACTGTGCGTGTTTTTTCCACGGCCCGCCTGGCCGAGACTGCGAGGTCCGAGC
CACATTTGCAAAAAAGCAGGGCCAGAGCGGCATCATCTCCTGCATAGCCTTCAGCCCAGCCCAGCCCCCTCTATGC
CTGTGGCTCCTACGGCCGCTCCCTGGGTCTGTATGCCTGGGATGATGGCTCCCCTCTCGCCTTGCTGGGAGGGCA
CCAAGGGGGCATCACCCACCTCTGCTTTCATCCCGATGGCAACCGCTTCTTCTCAGGAGCCCGCAAGGATGCTGA
GCTCCTGTGCTGGGATCTCCGGCAGTCTGGTTACCCACTGTGGTCCCTGGGTGAGAGGTGACCACCAATCAGCG
CATCTACTTCGATCTGGACCCGACCGGGCAGTTCCTAGTGAGTGGCAGCACGAGCGGGGCTGTCTCTGTGTGGGA
CACGGACGGGCCTGGCAATGATGGGAAGCCGGAGCCCGTGTGAGTTTTCTGCCCCAGAAGGACTGCACCAATGG
CGTGAGCCTGCACCCTAGCCTGCCTCTCCTGGCCACTGCCTCCGGTCAGCGTGTGTTTTCTGAGCCACAGAGAG
TGGGGACGAAGGAGAGGAGCTGGGCCTTCCCTTGCTCTCCACGCGCCACGTCCACCTTGAATGTGCGCTTCAGCT
CTGGTGGTGTGGGGGGGCGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCAGGGAGGAACGGA
GGGAGGTGTGGGTGAGCTGATATAAAAAGGTTTTTATGAT

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FIGURE 4695

ACTTGTTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAAGCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTTCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCAGTCAGATCCTAGCGTTCGAGCCCCCTCTGAGTCAGG
AAACATTTTCAGACCTATGGAACTACTTCCCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCCAGAATGC
CAGAGGCTGCTCCCCCGTGGCCCCCTGCACCAGCAGCTCCTACACCGGCGGCCCTGCACCAGCCCCCTCCTGGC
CCCTGTTCATCTTCTGTCCCTTCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCAATTCTG
GGACAGCCAAGTCTGTGACTTGCACGTACTCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCAGCTGTGGGTTGATTCCACACCCCCGCCCGGCACCCGCGTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCATATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCCTCCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGGCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACATACATGTGTAACAGTTCTC
GCATGGGCGGCATGAACCGGAGGCCCATCCTACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTGTTGTGCCTGTCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCC
AGCCAAAGAAGAAACCACTGGATGGAGAATATTTACCCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCTTGGAACCTCAAGGATGCCAGGCTGGGAAGGAGCCAGGGGGAGCAGGGCTCACTCCA
GCCACCTGAAGTCCAAAAAGGGTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAAAGGGCCTGACT
CAGACTGACATTCTCCACTTCTTGTTCCCCACTGACAGCCTCCCACCCCATCTCTCCCTCCCCCTGCCATTTTGG
GTTTTGGGTCTTTGAACCCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTGTTTTGTTGTGGGGAGGAGGATGGGGAGTAGGACATACCAGCT
TAGATTTTAAGGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGCAAGTTAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCCACTTCACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAACTTCAAGGCCCATATCTGTGAAATGCTGGCATTGTCACCTACCTCACAGAGTGCATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAAGTTGACCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTTGGTTCGGTGGGTTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGGCCAGCCAAACCCTGTCTGACAACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCCCTGGAGGATTTTCATCTCTTGATATGATGATCTGGATCCACCAAGACTTGTGTTTATGCTCAGGGTCA
ATTTCTTTTTTCTTTTTTTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCTCCCCGGCTCGAGCAGTCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTTCATGCCACCATGGCCAGCCAACTTTTGCATGTTTTGTAGAGATGGGGTCTCACAGTGTG
CCCAGGCTGGTCTCAAACCTCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCCAGAGTGTGGGATTACAATTG
TGAGCCACCACGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTACCCCCACCCT
TCCCCCTCCTTCTCCCTTTTTTATATCCATTTTTTATATCGATCTCTTATTTTACAATAAACTTTGCTGCCA

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FIGURE 4696

GCCGCTGAGAAAGCGCAGAGAAGGCGGGCCCCGTCTGAGGTCTGGCAGTCAGAGACAGCCGGGCGCCACGGCCC
GAGCGCCACGGCAGCACCATGCCCCTCTGGAGCGCCCCAAGCTTTCCAACGCCATGGCCAGGGCGCTGCA
CCGGCACATTATGATGGAGCGGGAGCGCAAGCGGCAGGAGGAAGAAGAGGTGGATAAGATGATGGAACAGAAGAT
GAAGGAAGAACAGGAGAGAAGGAAGAAAAAGGAGATGGAAGAGAGAATGTCATTAGAGGAGACCAAGGAACAAAT
TCTGAAGTTGGAGGAGAAGCTTTTGGCTCTACAGGAAGAGAAGCACCAGCTTTTCTGCAGCTCAAGAAAGTTTT
ACATGAGGAAGAAAAACGGAGGCGAAAGGAACAGAGTGACCTGACCACCCTAACATCAGCTGCATACCAGCAGAG
CCTGACTGTTACACAGGAACTCATCTCCTCAGCATGCAGGGGAGCCCTGGAGGACACAATCGCCCAGGCACCCT
CATGGCAGCTGACAGAGCCAAACAAATGTTTGGACCCCAAGTGCTTACGACCCGGCACTACGTGGGCTCAGCAGC
TGCTTTTGCAGGGACACCAGAGCATGGACAATTCCAAGGCAGTCCTGGTGGTGCCTATGGGACTGCTCAGCCCCC
ACCTCACTATGGGCCCACACAGCCAGCTTATAGTCCTAGTCAGCAGCTCAGAGCTCCTTCGGCATTCCCTGCAGT
GCAGTACCTATCTCAGCCACAGCCACAGCCCTATGCTGTGCATGGCCACTTTAGCCCACTCAGACAGGTTTCCT
CCAGCCTGGTGGTGGCCTGTCCTTGCAAAAGCAGATGGAACATGCTAACCCAGCAGACTGGCTTCTCCGACTCATC
CTCTCTGCGCCCCATGCACCCCCAGGCTCTGCATCCAGCCCCTGGACTCCTTGCTTCCCCCAGCTCCCTGTGCA
GATGCAGCCAGCAGGAAAGTCGGGCTTTGCAGCTACCAGCCAACCTGGCCCTCGGCTCCCCTTCATCCAACACAG
CCAGAACCCGCGATTCTACCACAAGTGACCATCAGATTATATCTTCAACACCACACCCCCACCCCCATCGTGGGT
GAGGGTATCCCCTGTGTGTGCCAGGCCAATAAAATCTACCTGCCA

GGCACGAGGGCGGCGGCGCGGTAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCTCGGAGGCAGCGGTTGGGCTCGCG
GCGAGCGGACGGGGTCGAGTCAGTGCGTTCGCGCGAGTTGGAATCGAAGCCTCTTAAAATGGCAGATGACTTGGA
CTTCGAGACAGGAGATGCAGGGGCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGT
GGTGCTCAAAGGCCGGCCATGTAAGATCGTCGAGATGTCTACTTCGAAGACTGGCAAGCACGGCCACGCCAAGGT
CCATCTGGTTGGTATTGACATCTTTACTGGGAAGAAAATATGAAGATATCTGCCCGTCAACTCATAATATGGATGT
CCCCAACATCAAAGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGG
GGAGGTACGAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGCAAGGAGATTGAGCAGAAGTACGACTGTGGAGA
AGAGATCCTGATCACGGTGCTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAAATAACT
GGCTCCCAGGATGGCGGTGGTGGCAGCAGTGATCCTCTGAACCTGCAGAGGCCCCCTCCCCGAGCCTGGCCTGGC
TCTGGCCCGGTCTTAAGCTGGACTCCTCCTACACAATTTATTTGACGTTTTATTTTGGTTTTCCCCACCCCTCA
ATCTGTCGGGGAGCCCTGCCCTTACCTAGCTCCCTTGGCCAGGAGCGAGCGAAGCTGTGGCCTTGGTGAAGCT
GCCCTCCTCTTCTCCCTCACACTACAGCCCTGGTGGGGGAGAAAGGGGGTGGGTGCTGCTTGTGGTTTTAGTCTTT
TTTTTTTTTTTTTTTTTTTTTTTTTAAATTCAATCTGGAATCAGAAAAGCGGTGGATTCTGGCAAATGGTCCTTGTGC
CCTCCCCACTCATCCCTGGTCTGGTCCCTGTTGCCCATAGCCCTTTACCCTGAGCACCACCCCAACAGACTGGG
GACCAGCCCCCTCGCCTGCCTGTGTCTCTCCCCAAACCCCTTTAGATGGGGAGGGAAGAGGAGGAGAGGGGAGGG
GACCTGCCCCCTCCTCAGGCATCTGGGAGGGCCCTGCCCCCATGGGCTTTACCCTTCCCTGCGGGCTCTCTCCCC
GACACATTTGTTAAAATCAAACCTGAATAAAACTACAAGTTTAATATGAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4698

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGKEIEQKYDCGEEILITVLSAMTEEAAVAIK
AMAK

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FIGURE 4699

GGCCGGGAGAGTAGCAGTGCCTTGGACCCAGCTCTCCTCCCCCTTTCTCTCTAAGGATGGCCCCAGAAGGAGAAC
TCCTACCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCCCTGCCCCAGCGAGTCCTCCGGAAA
GAGCCTGTCACCCCATCTGCACTTGTCTCATGAGCCGCTCCAATGTCCAGCCCACAGCTGCCCCTGCCAGAAAG
GTGATGGAGAATAGCAGTGGGACACCCGACATCTTAACGCGGCACCTTACAATTGATGACTTTGAGATTGGGCGT
CCTCTGGGCAAAGGCAAGTTTTGGAAACGTGTACTTGGCTCGGGAGAAGAAAAGCCATTTTCATCGTGGCGCTCAAG
GTCTCTTCAAGTCCCAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCAC
CTGCACCATCCCAACATCCTGCGTCTCTACAACATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTAT
GCCCCCGCGGGGAGCTCTACAAGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCACGATCATG
GAGGAGTTGGCAGATGCTCTAATGTACTGCCATGGGAAGAAGGTGATTACAGAGACATAAAGCCAGAAAATCTG
CTCTTAGGGCTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCGCCCTCCCTGAGGAGGAAG
ACAATGTGTGGCACCCCTGGACTACCTGCCCCCAGAGATGATTGAGGGGCGCATGCACAATGAGAAGGTGGATCTG
TGGTGCATTGGAGTGCTTTGCTATGAGCTGCTGGTGGGGAACCCACCCTTTGAGAGTGCATCACACAACGAGACC
TATCGCCGCATCGTCAAGGTGGACCTAAAGTTCCCCGCTTCTGTGCCACGGGAGCCCAGGACCTCATCTCCAAA
CTGCTCAGGCATAACCCCTCGGAACGGCTGCCCCTGCCCCAGGTCTCAGCCCACCCTTGGGTCCGGGCCAACTCT
CGGAGGGTGCTGCCTCCCTCTGCCCTTCAATCTGTGCGCTTGATGGTCCCTGTTCATTCACTCGGGTGCGTGTGTTT
GTATGTCTGTGTATGTATAGGGGAAAGAAGGGATCCCTAACTGTTCCCTTATCTGTTTTCTACCTCCTCCTTTGT
TTAATAAAGGCTGAAGCTTTTTGT

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FIGURE 4700

MAQKENSYPWPYGRQTAPSGLSTLPQRVLRKEPVTPSALVLMRSRNVQPTAAPGQKVMENSSGTPDILTRHFTID
DFEIGRPLGKGKFGNVYLAREKKSHFIVALKVLFKSQIEKEGVEHQLRREIEIQAHLHHPNILRLYNFYDRRRI
YLILEYAPRGELYKELQKSCTFDEQRTATIMEELADALMYCHGKKVIHRDIKPENLLLGLKGELKIADFGWSVHA
PSLRRKTMCGTLDYLPPEMIEGRMHNEKVLDLWCIGVLCYELLVGNPPFESASHNETYRRIVKVDLKFPASVPTGA
QDLISKLLRHNP SERLPLAQVSAHPWVRANSRRVLPFSALQSV A

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FIGURE 4701

AG**ATG**GGAAGTACAGGCTCCACCAGGCACCACCATTGGCCACGTGCTACAGACCTGGCATCCCTTCCTCCCCAAGT
TCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCTGGACCTGTGGCTGTGGCACAG
ACACCAACTTTGAGGTGAAGACTCGGGATGAATCCCGCAGTGTGGGCCGCATCAGCAAGCAGTGGGGGGGCTGG
TCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACAGTTCCCGCTGGACCTGGATGTGAGGGTGAAGGCTG
TGCTGCTGGGAGCCACATTCTCATTGACTACATGTTCTTTGAGAAGCGAGGAGGCGCTGGGCCCTCTGCCGTCA
CCAGT**TAG**AGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCC
TCCTCTGGGCAGCCCCCTTCCTCCATGTACACTGCAGGGGACAGAAGGGGGGCCCCATCCCTACCCTACTCCCTG
GCCGCTGCCCCCTGTGGTTCCCAAGGAGGGGTATGTATGAGAGCCGCTCTCCTGCTACCTCCCACCACTGTCCA
GCAGTCCCTCGGCACACAGGCATATCAGCTTTCACACTTTCCCCATGCACTCTCTCCCACCCCTTCCAGGGCCT
CTGCTCCAAAGGAGGCCTCTGGAACCCAGGACTCTGGGGTTTTACAAGAGGGCTGGGGTGTGGAAGGGCAAGCTG
CACCAAAGACGGTGGATATAGCCACCGCCCCCGCCGCTGCCTAGCATCTGCTTGGCCAATTAGTTCAGCCTCA
GACCATGGCACTTTGAGGGGGTCTCTACCTCCCCATCAACAGCTGCAGGGGGACCCAGTGCCAACCTCCTCTCC
CACTAGGGCCCTGCCTTCAGCTGGTGTGCTGCGATTCTGTGCCTTATGTAAGTGCCTTCCTTCCCTTGCCC
TAGGAAAAAGGCTGCATCTTTATATGTTACATTCATATAAACTTTGTAACTTTTTGG

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FIGURE 4702

MEVQAPP GTTIGHVLQTWHPFLPKFSIQDADRQTVLRVVGPCWTCGCGTDTNFEVKTRDESRSVGRISKQWGGLV
REALTDADDFGLQFPLDLVVRVKAVLLGATFLIDYMFFEKRGGAGPSAVTS

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FIGURE 4703

GCTCCGCTGAATCCGCCCCGCGCTCGCCGCCGTCGTCGCCGCCCCCGTCCCGGCCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTTCGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAAGGCTCCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTCAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAACCTCTCCTTTCTCCTTTCTTCCCTTTCTCTG
CCCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTCAGTCTGTGTCACATCCAGTGATTGTTTTGGTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCAGCAATCCCTTCCTTTCACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCACCAAGCTG

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FIGURE 4704

GAGACCATGCGGGGTAGCAGCACTGGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCCCTCGGCGATTTCAAGAGCGTCCTGCAG
CGGCCCCGCGGGCGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTTCGGGGTGGTGAAGGAAGAAATTTTCAGAT
GACAACGCCCCCTCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCTCAGATAATCCCCAACCCGAG
ATGGCCCCCTCCAGTCCATGAGCCTCGGGCAGAACTGGCGCCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGCCACAGGACTGGTGGCCCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTTCAGCAGCTCC
ACGGAGCAGAGCAGTGCCTCCCGCTCCTTAAGCGCCACCGGCGGCGAAGGAAGCAGAGGCCACCCCGCTGGAG
AGGACGTCATCCTTCAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACCTTCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGGTGGGGCTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGAGGTGAATGACATG
AAGTTTGAGAACATGAGCAACGATGACGCTGTGCGGGTGTGAGGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAGTGCTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCGAAATGAGCCCATCCAGCCA
ATTGACCCTGCTGCCTGGGTGTCCATTCCGCGGCTCTGACTGGCACCTTCCCAGCCTATCCAGGTTTCTCTCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCTGAGCGGGCGG
GAGGCCCCGAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCCTGGCTCCTCTGCCTGGGGCCACCCCTGGCCCCCTGCTG
CCCACTTTCTCTACCAATACCCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCTACCATGAGCTTTTCATCT
TACACCTATGGTGGGGGCAGTGCCAGCAGCCAGCATAGTGAGGGCAGCCGGAGCAGTGGGTGCACACGGAGTGAT
GGGGGGGCAGGGCGCACGGGGAGGCCCGAGGAGCGGGCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCCTAATCTCCGAGCCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCATGATGCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCAGAACTGACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGGCCGGGCGCTCC
TGGTGTGTGACTGGGTGTCTGGCCGTCATGTGCTTGCTCTTACAGTGCCTGGGCTCAGCCTACCAGCTGCTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCTGGTTCTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTAGCTTTGTTTTTTATAAGCCTTTTTTGGGGGTAAAAATAGAGTTTCTTACATTTTGG
GACTTTTTTAATAGGCATTTCTCTTTT

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FIGURE 4705

MAGSSTGGGGVGETKVIYHLDEEETPYLVKIPVPAERITLGD FKSVLQRPAGAKYFFKSMQDFGVVKEEISDDN
ARLPCFN GRVVS WLVS SDNPQPEMAPPVHEPRAELAPPAPPLPPLPPERTSGIGDSRPPSFHPNVSSSHENLEPE
TETESVVS LRRERPRRRDSSEHGAGGHRTGGPSRLERHLAGYESSSTLMTSELESTSLGDSDEEDTMSRFSSTE
QSSASRL LKRHRRRRKQRPRLERTSSFSVTDSTMSLNIITVT LNMEKYNFLGISIVGQSNERGDGGIYIGSIM
KGGAVAADGRIEPGDMLLQVNDMNFENMSNDDAVRVL RDIVHKPGPIVLT VAKCWDPSPQAYFTLPRNEPIQPID
PAAWVSHSAALTGTFPAYPGSSSMSTITSGSSLPDGC EGRGLSVHTDMASVTKAMAAPESGLEVRDRMWLKITIP
NAFLGSDVVDWLYHHVEGFPERREARKYASGLL KAGLIRHTVNKITFSEQCYVFGDLSGGCESYLVNLSLNDND
GSSGASDQDTLAPLPGATPWPLLPTFSYQYPAPHPYSPQPPPYHELSSYTYGGGSASSQHSEGSRSSGSTRSDGG
AGRTGRPEERAPESKSGSGSESEPSSRGGSLRRGGEASGTSDGGPPPSRGSTGGAPNLRAHPGLHPYGPPPGMAL
PYNPMMVVMPPPPPPVPPAVQPPGAPPVRDLGSVPPELTASRQSFHMAMGNPSEFFVDVM

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FIGURE 4706

GGGCCAGCGCGGCCCGGGCCGCCCTCGCCTCCCACCCAGGGCGCTGAGCACGCACGCCGCCGGCCTGGCGGGCGTT
CGCGGGGCCCCGGGACCAGCCGCCGCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAAGGG
GCGGGAACGTCGGCGACGCCGAGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTCCTCCC
GGCGCAAACGCACCGCCCAGGAGGGGGCGGGCTCGGCGGGTCGGGGGGCGGGGCCGGGGTCCGAGCTCGGGCCCCG
CCTCCGCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAACTAAGC
CACCCAGACACCATCATCTCGAAAACCCAGCCCTTCTCCCATGGCAGGCTACTTGCCCCCAAAGGCTACGCC
CTTCGCCCCCACCTCCCTACCCTGTCACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGCCCCGGGCAGGCGC
CAGTGCCCCGCCAGGTACCTGCCCCAGCTCCCGGCTTCGCCCTCTTCCCTCGCCTGGCCCCGTGGCCTTGGGGT
CTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCCTGGTGCAGATTGATCAGATTTGA
TTCACCAGAAGGCTGAGCGAGTGGAACGTTCTAGGCTGGGAGACCTGTAATCGGTATGAACTGCGCTCTGGGG
CCGGGCAGCCCCCTGGGTGAGGCGGCCGAGGAGAGCAACTGCTGCGCCCGTCTGTGCTGTGGCGCCCGCCGGCCGC
TGCGTGTCCGCTGGCCGACCCCGGGGACCGTGAGGTGCTGCGTTTGCTCCGCCCGCTGCACTGTGGCTGCAGCT
GCTGCCCCCTGTGGCCTCCAGGAGATGGAAGTACAGGCTCCACCAGGCACCACCATTGGCCACGTGCTACAGACCT
GGCATCCCTTCCTCCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCT
GGACCTGTGGCTGTGGCACAGACACCAAC

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FIGURE 4707

AGTTGGAATCGAAGCCTCTTAAAATGGCAGATGACTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCT
TCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCCGGCCATGTAAGATCGTCGAGA
TGTCTACTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGACATCTTTACTGGGAAGA
AATATGAAGATATCTGCCCCTCAACTCATAATATGGATGTCCCCAACATCAAAGGAATGACTTCCAGCTGATTG
GCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACGAGAGGACCTTCGTCTCCCTGAGGGAG
ACCTTGGCAAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCCATGACAG
AGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATAACTGGCTCCCAGGGTGGCGGTGGTGGCAGCAGTGATCC
TCTGAACCTGCAG

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FIGURE 4708

GGCCCCCCCCCCCCCTAGAAATGCTCGAACCAGGACGGCTCCTGGAGTCCTCGCGCCCTCGCAGAAGGACTACGG
GCCCCGGCGACCCCGGGGCGGGGCTTCCGGCGCGCTGCCTTGTGGGCACGGTAGTTCCGCCGGGTCTGGCTTCC
GCCTGCCGAGCGGCCCCGGACCGCAGGCCGGACTACACTTCCCGTCGGCCCGCTGCTCTCCCGATGCCGCTTG
GCGCGAGACGTTGGCAAGCAGAGTGTCTCCAAGATGGCCGCTTGGGGAAGGAGGCGTCTTGGCCCGGGCAGCAGT
GGCGGCAGCGCCCGAGAGAGGGTGAGCTTGTCTGGCCACAGACTGCTACATTGTGCATGAGATCTACAATGGGGAG
AATGCCCCAAGACCAGTTTGTAGTACGAGCTGGAGCAGGCCCTGGAAGCCCAGTACAAGTACATTGTGATTGAGCCC
ACTCGCATTGGCGACGAGACAGCCCGCTGGATCACCGTGGGCAACTGCCTGCACAAGACGGCCGTGCTGGCGGGC
ACCGCCTGCCTCTTCACCCCGTTGGCGCTGCCCTTAGATTATTCCCACTACATTTCCCTGCCCGCTGGTGTGCTG
AGCCTGGCCTGCTGCACCCTCTATGGGATCTCCTGGCAGTTTGACCCTTGCTGCAAGTACCAAGTGGAGTACGAC
GCCTATAAACTGTCTCGCGCCTGCCTCTGCACACACTCACCTCCTCCACCCCGGTGGTGTGCTGGTCCGGAAGGACGAC
CTGCACAGAAAGAGACTGCACAACACGATAGCACTGGCCGCCCTGGTGTACTGTGTAAAGAAGATTTACGAACCTC
TATGCCGTATGATTTTCAGTAGAACAGGGAGCGAAGCAAAACCACCCGGCCCAAGAGACAACAGAGTATTCAGA
TCGCCCACTCTGTGAGGCAGCAGAGCCTGGGCAGGTGTTTGGCTTAGTATTTGTTATTTTAAAAAATAACAGA
TCACGGGTGTACCCAGGGTTTTTCAGCTCATTACACTAAGATGTGGATTTCCATAACCCAAGAGGGGGGTCTGAG
GCTGTGGAAGTCCGACTGGGCAGTGGAATGCTGATGGAGGCAGACGCTGCCGAGGGGGTGTGGACGTGCTTTGGG
GGAGGTCTTTAAGTCTATTGTTTAACTGTACCATCCAGAGCCCACCAGAAGCTATTGATCATTAAAATTATGAGA
ATTTCAACTCC

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FIGURE 4709

MAAWGRRRLGPGSSGGSARERVSLSATDCYIVHEIYNGENAQDQFEYELEQALEAQYKYIVIEPTRIGDETARWI
TVGNCLHKTAVLAGTACLF TPLALPLDYSHYISLPAGVLSLACCTLYGISWQFDPCKYQVEYDAYKLSRLPLHT
LTSSTPVVLVRKDDLHRKRLHNTIALAALVYCVKKIYELYAV

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FIGURE 4710A

AGGCCAAGTCCTGTATCTGCCATGTCTGTGGCGTCCACCTCAACAGGCTGCATTCTGCCTCTACTGTGTCTTCT
TCGGCTGTTTCACAAAGAAGCATATTACGAGCATGCGAAGGCGAAGCGGCACAACCTGGCCATTGATCTGATGT
ACGGAGGCATCTACTGTTTTCTGTGCCAGGACTACATCTATGACAAAGACATGGAAATAATCGCCAAGGAGGAGC
AGCGAAAAGCTTGGAATGCAAGGCGTTGGAGAGAAAGTTTCAACTTGGGAACCAACCAACGGGAGCTTGAAC
TGCTGAAGCACAACCCGAAAAGGAGAAAGATCACCTCGAAGTGCACCATAGGTCTGCGTGGGCTGATCAACCTTG
GGAACACATGCTTCATGAACTGCATCGTGAGGCCCCTGACCCACACGCCACTTCTGCGGGACTTCTTCTGTCTG
ACAGGCACCGCTGTGAGATGCAGAGCCCCAGCTCCTGTCTGGTCTGTGAGATGTCTCACTGTTTCAGGAGTTTT
ACTCTGGACACCGGTCCCTCACATCCCGTATAAGTTGCTGCACCTGGTGTGGACCCACGCGAGGCACCTAGCAG
GCTACGAGCAGCAGGACGCCACGAGTTCTCATCGCGGCCCTGGACGTGCTCCACCGACACTGCAAAGGTGATG
ACAATGGGAAGAAGGCCAACAACCCCAACCACTGCAACTGCATCATAGACCAGATCTTCACAGGCGGGTGCAGT
CAGACGTACCTGCCAAGTCTGCCATGGAGTCTCCACCACCATCGACCCCTTCTGGGACATCAGCTTGGATCTCC
CCGGCTCTTCCACCCCATTTCTGGCCCCTGAGCCAGGGAGCGAGGGCAACGTGGTAAACGGGGAAAGCCACGTGT
CGGGAACCAACACGCTCACGGACTGCCTGCGACGATTACCAGACCAGAGCACTTGGGCAGCAGCGCCAAGATCA
AGTGCAGCGGTGCCATAGCTACCAGGAGTCCACAAAGCAGCTCACTATGAAGAACTGCCCATCGTAGCCTGTT
TTCATCTCAAACGATTTGAACACTCAGCCAAGCTGCGGCGGAAGATCACCACGTATGTGTCTTCCCTTGGAGC
TGGACATGACCCCTTTCATGGCCTCCAGCAAAGAGAGCAGGATGAATGGACAGTACCAGCAGCCACGGACAGTC
TCAACAATGACAACAAGTATTCCTGTTTGTGTTGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCA
GCTTTATCCGGCAGCACAAAGACCAGTGGTTCAAGTGTGACGATGCCATCATCACCAGGCCAGCATCAAGGACG
TCCTGGACAGCGAAGGGTACTTGTGTTCTATCACAACAGTTCCTGGAATACGAGTAGCCTTATCTGCAGCTGG
TCAGAAAAACAAAGGCAATGCATTGGCAAGCCTCACAAGTGATCCTCCCTGGCCCCCCCCCTCCCCAAGTCTCC
CGCCGCCTCCCCGGCTGGTGACACCACCTCCCATGCAGATGTGGCCCCCTCTGCACCTGGGACCCATCGGGTCGG
GATGGACCACACGGACGGGGAGGCTCCTGGAGCTGCTTTGAAGATGGATGAGATGAGGGGTGTGCTCTGGGTGGG
AGGAGCAGCGTACACCCGTCACCAGAACATCTCTTGTGTCTATGACATGGGGGTGCAACGGGGGCTCACAGCACA
GAGTGACCGCTGCCTGGCGTTCCCCAGCACTCGGTGTGGAAAGGCCCTTACCTGCTGTAAGATTATGGGTCCATG
AAAGCAGTAAGCTGGACACAGAGGTGTAGTGTGCGGGACAGAGGGCCTTGAGATGCCTTTCTGTTGGTGTTTTA
GTGTTAAAATACGGAGAGTATGGAACCTTTCACCTCCATTTTCTCAGCGGTGTGAAGCAGCCTCTTAGCTTCGG
AAGTACGGACACTACGTGCGGTTTTCAAGCGTGTCTGTTCTGCAGGTAACAGCATCAAGCTGCACGTGGAAGCAT
CTCGCGTTTTTCTAGAAACAGGCATTTTCTTATCCCTCTCCCGCTCCTTTTTCCACAAAGGTGAATTTCAATAAT
GTAATACTAGTAAAGTGAATGAATTACTGAGTTTATACAGAAATTTAGGTAACTTCTCCTTTAGTCTCAAGAGCG
AGTCTTGCTTTTTAATGGGTGCCGTTTATGTTGCTGCCCGCCCTGTGTGCTGCTGCTCCTCTGGGTGCCTTGGTGT
CTGCTGGTGGCTGGCAGTGGGCGCAGCGGAGGAGAGTTGTGCTGCAGCTCATACGGTGTGTCTGTCTCATCTCAGTC
TGGAGTAAATGCAGTGTCTGCCGTTGTCTGATGGGTCTGTGCCCTCGTATTTTCTTTGCCTTCTATCCCATGGC
TGGCTACCGCTGCCTGGCAGCCAAGGGTGTGGTTCGCGAAGCTGGAGTGGCCTCTGGTGGAGCCTGCATCTTGTC
TCGTCTGCCTCTGCTTTACATTTGGTGTACTTTCGGGCGTGGTGGCAGTAAATGACACCGTGATTGAGCTTGTC
AGCAGAGCTGAAAGAGAAAGTAGAAGGATGTGCATTGTTTCTTGTAAGATATCTTGATGTATCTGTGTATTCAA
ATTCAAACAGAGATGGTTTGTCCATTGTCCACTGAGAAATTAGAACTAGGGACAAGGGGGAGGAAAAGTACTG
AAATACAGTTTATGAAGCAAGTGTGTCTCGGGCTGTGCTTGTCCCAGGAGCCCCAGCAGCATCTGAACTGAGGCT
TCTTCAGTCTTGAGGAACAGGATCATCTGTCTCAGCGGTGGGAGATGTTTTCATAGACAGCCAGGGAGTAAAC
ACTGTTGGCTCTGTGGGCTGTATGGTCTCTGCCATAAATAGTACAGAGATGTGGCTGTGTCTAGTACAACCTTTTA
GACACAGAAATCTGAATGACATATATTGTTCTGTGTCAAGAACTTAGATTTTTTTTTTAACTATTTAAAAACGT
GAAACCTATTCTTAGCTCACAGGCCATGGAGAAGCTGGTGGGGACCAGACCCAGCTCCTTAGCTGGCTGGGCTGG
GGAGGGGTAGTGACAGTGGCAGCTGCTACTCACTGCTCAGTGTGGAAAACACAGGACTTGGCAATCACAGCCCCG
CAGAACCATCATGTGTGGCAGAAGCCTGAGGGATGCGGTTTTCTTGCCACGTGCTCTGTTTCATTTTCTGTTGTTT
TTCTGCACTTAAAGAATTCACATGGAAGCATGTTTTATAAAATGAATTACCAGAGAAACAGAGATGGGCCGAGAT
TTTCAGAAATGGTCCCATGTGACCAAGTTCTGCTGTTTGGGTGACAGTGTGTTGAAGATCTCCTTTGAGGATGTG
CAGTCTTTTTTTTTTTTTTTTTTGGAGATGGAGTTTGTGCCCAGGCTGGAGTGGTGGCAGTCTCGGCTCACTG
CAACCTCCACCTCCTGGGTTCAAGCAGTTCTCGTGCCGACGCTCCCAAGTAGCTGGGACTACAGGCATGCACCA
CCACGCCAGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTACCATGTCTCAAACCTCTGACCTCAGGCGAT

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FIGURE 4710B

CCACCCACCTCAGCGTCCCAAAGTGCTGGGATTATAGGCGTGAGCCACCGCACCTGGCCTATGAGTGGTCTTTTA
ATTAGGAACAAATCTAATGGAAAGGAGAGTTGACTGAAGTTGGCCACAGGATTGTGAGCTGGGCAGTGCCTTCA
TGAAGGCTTGCCACCTTGGGACGCCCCAGTTTACTGGGGTGTCTTGCGGAGTGCAGAAGGCTTTCTGGCAGCTGC
CTGGGTTTGGCCAGACCCTGCCTCCCCCTCCCGCCGCCAACCCCTAGTCCCCTTCCTGTCTCCACTTGCATTGAG
GGGTGGCTGCTGTTCTGAGAACATTAGAACTGGGAAGAGAGATGGAGTCACATGGATTTTTGGTGGGCATTATTC
TAAACTTTCGTATCCAAGTTAGTCCCCCTTATTCCACTGTGGCATTGCCGTTCTAAGCAGTTACCTGATGCCTGC
TGCTGAAGAGCTGCTCACAGGAGGCGGCGGCCCTGGCACTGCCCTTGCATTAGGTCTTGTTGTTGATGTGT
TCTTGIGAATTTACTTTGTGAGAACAAATATTTACGCGTTGGGTTGAGGAATTTCTTTTAGCTCCCCATCTGGC
TGTGAAATTCAGGAAACCTCCCGTTGCCTAGTAATCACCCCATGTAGGTGTACATTGTGACAAAGTGCATCTGAC
CACTAAGGGGCCCCCTTGGTGACCCAGCACATTACAGCAGTGTAAATGGCCTGCATTTTGGAGATGCTGGC
TGGCCTTTCAGTGCCTCCCAGGAAGACACATGGCCTTCCCTCTTCAGATGCCTGAAGGGAGTGCTTTGAGGCAG
GTGATGTGCTGGGAGTGTGGGCGGCCTCCCTCTGGCCCCGGGGCCCTCTGTGGACCTTGGCTCCCTCCGTGGACC
TGGGCTTCGTGGTGAGCACTGCAGCCTCCCTGGGCATTCCCTCCAGCGCCAGCACCCTGCAACATATAGACCTG
AGTGCTATTGTATTTTGGCTTGGTGTGTATGCTCTTCATTGTGTAAAATTGCTGTTCTTTTGACAATTTAAGTGA
TTGTTTTGTTTACTGTAAAGTTGAAAATAAAAATGAAGAAAAAATTCCAATGACTGTGCTGTGGTTGGAGACTT
TATTTACCAAGATGTTTACTCTTCCCTTCCCTTCCATTTTGAGGAGCTGTGTCACTCCTCCTCCCCCCCAGTGC
TTTGTAGTCTCTCCTATGTCATAATAAAGCTACATTTTCTCTG

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FIGURE 4711

MVSRPEPEGEAMDAELAVAPPGCSHLGSFKVDNWKQNLRAIYQCFVWSGTAEARKRKAKSCICHVCGVHLNRLHS
CLYCVFFGCF TKKHIHEHAKAKRHNLAIDL MYGGIYCF LCQDYIYDKDMEIIAKEEQRKAWKMQGVGEKFSTWEP
TKRELELLKHNP KRRKITSNCTIGLRGLINLGNTCFMNCIVQALHTHTPLLRDFFLSDRHRCEMQSPSSCLVCEMS
SLFQEFYSGHRSPHIPYKLLHLVWTHARHLAGYEQQDAHEFLIAALDVLHRHCKGDDNGKKANNPNHCNCIIDQI
FTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSTPFWPLSPGSEGNVVNGESHVSGTTTLTDCLRRFTRPEHL
GSSAKIKCSGCHSYQESTKQLTMKKLP IVACFHLKRFEHS AKLRRKITTYVSFPLELDMTPFMASSKESRMNGQY
QQPTDSLNNNDNKYSLFAVVNHQGTLES GHYTSFIRQHKDQWFKCDDAIITKASIKDVLDSEGYLLFYHKQFLEYE

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FIGURE 4712A

GTGGTGTGCGGTGTCGGCAGCATCCCCGGCGCCCTGCTGCGGTGCGCCGCGAGCCTCGGCCTCTGTCTCCTCCCCCTT
CCAGCCCTCACCTCCACGCGGGACCGCTCGCGCCAGTCAACTCCGCGCACGTTGCCCTTGCTTGGCAGCCAATAA
AAGGGGGCTGAGGAAATACCGGACACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGATCGGGCACCTC
CACGCACCGCGGCTAGCGCCGACACCCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGCACCGGCGGGCTTCGA
AATCGCAGTCCCTCCGGCGACCCCGAACTCCGCCCCGAGCCTCAGCCCCCTGGAAAGTGATCCTGGCATCCGAGAG
CCAAGATGCCGGCCCACTTGCTGCAGGACGATATCTCTAGCTCCTATACCACCACCACCACCATTACAGCGC
CTCCTTCCAGGGTCCCGCAGAATGGAGGAGATAAGTTGGAGACGACGCCCCCTCTACTTGGAAGAAGACATTTCGCC
CTGATATAAAAGATGATATATATAACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCT
GGAGAAACATCATCCTTATGTCTCTGCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCTACCTGCAACT
TATACACCTGGCTTTGGGGGGTATTCTACTATTTTATCAGTGCCCTGGGCATAACAGCAGGAGCTCATCCTCTGT
GGAGCCACTGATCTTACAAAGCTCGGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGA
ATGATGTCTATGAATGGGCTCGCGACCACCGTGCCACCACAAGTTTTTCAGAAACACATGCTGATCCTCATAATT
CCTGACGTGGCTTTTTCTTCTCTCACGTGGGTGGCTGCTTGTGCGCAAACACCCAACTGTCAAAGAGAAAGGCA
GTACGCTAGACTTGTCTGACCTAGAAGCCGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGC
TGTTGATGTGCTTCATCCTGCCACGCTTGTGCCCTGGTGTCTTGGGGTGAAACTTTTCAAACAGCGTGTTCG
TTGCCACTTTCTTGCATATGCTGTGGTGCTTAATGCCACGTGGCTGGTGAACAGTGCTGCCCACCTCTTCAGAT
ATCGTCCTTATGACAAGAACATTAGCCTCCGGGAGAATATCCTGGTTTCACCTGGAGCTGTGGGTGAGGGCTTTC
ACAACCTACCACCACTCCTTTCCCTATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCT
TCATTGATTGCATGGCCGCCTTCGGTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCCATCTTGCCAGGA
TTAAAGAACCAGGAGAGGGAAGTACAAGAGTGCTGAGTTGGGGTCCCTCAGGTTTCTTCAAAGCCAGC
CAGGCAGAGGTTTTAATGTCTGTTTATTAAGTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGATAACC
CATTCCAGTACAGTATTCTTTTAAATTCGAAAGTATTGAAAGCCAACAACCTCTGCCTTTATGATGCTAAACTGA
CATTATTTCTTCTCTTATCCTCTCTCTCTTCTAGGCCCAATTGTCCTCCTTTTCACTTTGTTGCTATCATCCTCCT
TTCTCTTATTGCCACCCAGGCAAGCAGCTGGTCAGTCTTTGTTCACTGTCCAGCTTCCAAAGCCTAGACAACCTT
TCTGTAGCCTAAACGAATGGTCTCTGCTCCAGATAACTCTCTTTCCCTGAGCTGTTGTGAGCTTTGAAGTAGGT
GGCTTGAGCTAGAGATAAAACAGAATCTTCTGGGTAGTCCCCTGTTAATTATCTTCAGCCCAGGCTTTTGCTAGA
TGGAATGGAAGCAACTTCATTTGACACAAAGCTTCTAAAGCAGGTAAATTGTTGGGGGAGAGAGTTAGCATGT
ATGAATGTAAGGATGAGGGAAGCGAAGCAAGAGGAACCTCTTGCCATGATCAGACATGCAGCTGCCTACCTAGTG
AGGACTTCAAGCCCCACCACATAGCATGCTTCTCTTCTCTCTGCTTGGGTAAGAAGTGGCTGTGGTGTGTTGG
CAATGCTAATTCAATGCCGCAACATATAGTTTAGGCCAAGGATAAAGAAGAGACACTTTAAGTTTGTAGTAAAG
TGGTCTCTGCTGGGGAAGGGTTTTCTTTTTCTTTTTCTTTAATAACAAGGAGATTTCTTAGTTTCATGTATCAAG
AATTCTTGAAGTTGGGTGTTTCCATAATTGGTAAAAACAGCAGCTCACAGAATTTTGAATTTCCATGAGCTGCT
CATCACAGTTCTTTCTCTTCTGCTCTGCCATCTTCAGGATATTGGTTGTTCCCTCATAGTAATAAGATGGCT
GTGGCATTTCACACCATCCAAAAAAGGGAAGGATTTTAGGAGGTGGAGTCGGGTCAAACAAGAAATATATATAT
ACATATATACATTGCTTAGAACGTTAACTATTAGAGTATTTCCCTCCCAAAGAGGGATGTTTGAAAAACTCTG
AAGGAGAGGAGGAATTAGTTGGGATGCCAATTTCTCTCCACTGCTGTACATGAGATGGGGAGGTTGAGGGACAG
GATCTATAGGCAGCTTCTAAGAGCAAACCTCACACAGGAAGGGATCTGAGAACACATTGCCGGGGGCTTGAGAAG
GTTACTGAGTGAGTTATTGGGAGTCTTAATAAAATAAACTAGATATTAGGTCCATTCAATTAATTAGTTCCAGTTT
CTCCTTGAAATGAGTAAAACTAGAAGGCTTCTCCCCACAGTGTGTTGTCCTTCACTCATTTTTTATTGGCGGG
GTGGGGGGCTCTGTTAACATCTAGCCTAAGTATAGAACTGCCTGGGGGGCAGGGTTAGGAATCTCTTCACTACCC
TGATTCTTGATTCTGTTTCTACCTGTCTGTCCCTTTTCTTTTACTAGATCTTTCTCTTCCCTGAACGTTTTCT
TCTTTCCCTGGACAGGCAGCCTCCTTTGGGTGATTTCAGAGGCAGTGATGACTTGCTGTCCAGGCAGCTCCCTCC
TGCAGACAGAATGCTCAGGGTCACTGAACCACTGCTTCTCTTCCGAAAGTAGAGCTAGCTGCCACTTTCGCATGG
CCTCCGGAGTGTCTCCACCTACACCTCTGTGCTCCCCCGCCACACTGATGGCTCAAGACAAGGCTGGCAAACCTT
CCCAGAAATGTCTCTGGCCCGAAAGCCTCTCTCTCCCTCCCTCTCTCATGAGGCACAGCCAAGCCAAGTGCTCA
TGAGCCAGTGGGCTGCCACAGAGCAAACGAGGGTTTATTTTCACTCCCTCTCTCTGGATCAGAACCAGAGAGC
ATGCTGAATGCCCTCTGCTTGGTACGGTAAGGTGCCCCACCTGAATCAGTGCTCTCAGCTGGCAGTGCAATGCT
TGTAAGTAGGAGGAACAGTTCTCACTGGGAAGAAGCAAGGGCAAGAACCCAAGTGCTCACCTCAAAGGAG

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FIGURE 4712B

GCCCTGTTCCCTGGAGTCAGGGTGAACCTGCAAACCTTTGGCTGAGACCTGGGATTTGAGATACCACAAACCCCTGC
TGAACAGAGTGCTGTTCAGCAAACTAACCAGCATTCCTTATAGCCTAGGGAATAGTATAGAAGTCTGGCAAAAA
CAGAAACAGAACATCAGTGTTTTGAGAACTTGGACTACTCCTGTCCCTGTAGCTCAGTCATCAAAGCAGAAGCC
TGGCTTTGCTCTATTAAGATTGGAAATGTACACTACCAAACACTCAGTCCACTGTTGAGCCCCAGTGCTGGAAGG
AAGGAGGGCCTTTCTTCCTGTGTTAATTGCATGGAGGCTACAGGGGTTAGCCTGGACTAAAGGCATCCTTGTGTT
TTGAGCTATTACCTCAGTAGAAAAGAATCTAAGGGAAGATCACTGTAGTTTAGCTCTGTTGACCTGTGCACCTA
CCCCTTGGAAATGTCTGCTGTTATTTCTAATTCCACAGGTCATAAGATGCCTTCTTGATGATATATGAACGATAA
AAACAACCTTTCACCTCTTCCTATTGTAATCGTGTGCCATGGATCTGATCTGTACCATGACCTACATAAGGCTGG
ATGGCACCTCAGGCTGAGGGCCCCAATGTATGTGTGGCTGTGGGTGTGGGTGTGGGTGTATCTGCTGAGTAAGG
AACACTATTCTCAAGATTCTAAAGCTCAATTCAAGTGACACATTAATGATAAACTCAGATCTGATCAAGAGTCTG
GATTTCTAACAGTCCTTGCTTCGGGGCTGTGCTGGCAACTTAACTCGGGTGCCTTACATCTTTTCTAATCATAGT
GTTGCATATGAGCCTGCCCTCACTCCCTCTGTGGAATCCCTTTGCACCTGAGAGCCTACTGAAGTGGCTGGTAGA
AAAAGGGGCCTGAGTGAAGGATTATCAGTATCGCGATTTGCAGGATTCCCTTCTGGGCTTCATTCTGGAACTTT
TGTTAGGGCTGCTTTTAAAGTGCCACATTTGATGGAGGGTGGAAGTAATTTGAATGTATTTGATTTATATATATA
TATATTTTAAAGGTTAAAGATGGTTGTAGCATTTAAATGGAAAATTTTCTCCTCGGTTTGCTAGTATCTTGGG
TGTATTCTCTCTAAGTGTAGCTCAAATAGGTCATCATGAAAGGTTAAAAAAGTGAGGTGGCCATGTTACGCTGGT
GGTTAAGGCCAGGGCCTCTCCTACCACTGTGCCACTGACTTGCTATGTACCCTGGGCAAGTCACTTAACTATAA
GGTGCTCAGTTTTCTTCTGTATAAATGGGGATAATAATACTGACCTACCTCAAAGGGCAGTTTTGAGGCGTGA
CTAATGCTTTTGTAGAAAGCATTTTGGGATCCTTCAGCACAGGGATTCTCAAGACCTGAGTATTTTTTATAATAGC
AATGTCCACCATCAACTTGATATGTCCGTGTGTCCAGATGCTGTCTATTAGTCTATATGGTTCTCCAAAAAATTG
AATGAATCCATTGGAGAAGCAGTGGATTAACTAGCCAGACAAAATTTGAGAATGCATAAAAAACACATTGCCACG
GAAACATACAGAGGATGCCTTTTCTGTGATTGGGTGGGATTTTTTCCCTTTTATGTGGGACATAGTAGTTACTT
GTGACAAGAATAATTTTGGAAATAATTTCTATTAACATCAACTCTGAAGCTAATTGTACTAATCTGAGATTGTGTT
TGTTTATAATAAAAGTGAAGTAATC

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FIGURE 4713

ACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGATCGGGCACCTCCACGCACCGCGGCTAGCGCCGACA
CCCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGCACCGGCGGGCTTCGAAATCGCAGTCCTCCGGCGACCCCG
AACTCCGCCCCGGAGCCTCAGCCCCCTGGAAAGTGATCCTGGCATCCGAGAGCCAAGATGCCGGCCCCACTTGCTGC
AGGACGATATCTCTAGCTCCTATACCACCACCACCACCATTACAGCGCCTCCTTCCAGGGTCCCCGAGAATG
GAGGAGATAAGTTGGAGACGACGCCCCCTCTACTTGGAAAGAAGACATTGCCCCTGATATAAAAGATGATATATATA
ACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTC
TGCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCCCTACCTGCAACTTATACACCTGGCTTTGGGGGGTAT
TCTACTATTTTATCAGTGCCCTGGGCATAACAGCAGGAGCTCATCCTCTGTGGAGCCACTGATCTTACAAAGCTC
GGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCAGAAATGATGTCTATGAATGGGCTCGCG
ACCACCGTGCCCCACCACAAGTTTTCAGAAACACATGCTGATCCTCATAATTCCTGACGTGGCTTTTTCTTCTCTC
ACGTGGGTTGGCTGCTTGTGCGCAAACACCCAACTGTCAAAGAGAAGGGCAGTACGCTAGACTTGTCTGACCTAG
AAGCCGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGCTGTTGATGTGCTTCATCCTGCCCCA
CGCTTGTGCCCTGGTGTTTCTGGGGTGAACTTTTCAAAACAGCGTGTTCGTTGCCACTTTCTTGCGATATGCTG
TGGTGCTTAATGCCACGTGGCTGGTGAACAGTGCTGCCCACCTCTTCAGATATCGTCCTTATGACAAGAACATTA
GCCTCCGGGAGAATATCCTGGTTTCACCTGGAGCTGTGGGTGAGGGCTTTCACAACTACCACCCTCCTTTCCCT
ATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCTTCATTGATTGCATGGCCGCCTTCG
GTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCCATCTTGCCAGGATTAAAAGAACCGGAGAGGGAACT
ACAAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCTTCTTCAAAAGCCAGCCAGGCAGAGGTTTTAATGTCTGTT
TATTAATACTGAATAATGCTACCAGGATGCTAAAGATGATGATGATAACCCATTCCAGTACAGTATTCTTTTAA
AATTCGAAAGTATTGAAAGCC

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FIGURE 4714

CTTCCCTTTTGC GGCCATCACC GAAGCGGGAGCGGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAG
CAAGAATCGCAAAAGGCATTTCAATGCACCTTCCCACATTCCAAGGAAGATTATGTCTTCCCCTCTTTCCAAAGA
GCTGAGACAGAAAGTACAACGTGCGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTA
TAAAGGTCAGCAAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACGTCCACGTAGGCATTACCCCCAGCAAGGTGGTTATCACTAGGCTAAAAGTGGAG
CAAAGACCGCAAAAAGATCCTCGAACGGAAAGCCAAATCTCGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACCATTGAGAAGATGCAGGAATTAAAGTAATCTTATATACAAGCTTTGATTAAAGTTGAAACAAAGAAAAA

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FIGURE 4715

MKFNPFVTSDRSKNRKRHFNAPSHIRRKIMSSPLSKELRQKYNVRSMPIRKDDEVQVVRGHYKGQQIGKVVQVYR
KKYVIYIERVQREKANGTTVHVGIHPSKVVITRLKLDKDRKKILERKAKSRQVGKEKGKYKEETIEKMQE

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FIGURE 4716A

GGAGAAGGCGGGCGGAAGTTCCACGCCAAGATACTGGATTTCGGTGCTGAGGCGGCGGCTGCGGCACGGGAAAGGC
TCAGTGAAGCTCCAAAGGCCAGCAGGCTGGTGGGGACGTGACCGAAGCGAGGCTCTGGTTCCCTTTTCGGTG
GGCGCCATTTGAGCCTCATCTCTGGCTTCCCCAGGATGCGCCGGCAGCCGGGGAGCGGCTCCGGGCGCGAGGTCT
GAGGATGATCTTTTCTGTGCGCCGCTACGCGCTCCGGTGGCTGCGACGGCCCCGAAGACCGTGCTTTTCCC GCGC
CGCCATGGAGATGGCCCTCCGAGGCGTGCGGAAAGTCCTCTGTGTGGCCGAAAAAACGACGCGGCCAAGGGGAT
CGCCGACCTGCTGTCAAACGGTCGCATGAGGCGGAGAGAAGGACTTTCAAATTCAACAAGATCTATGAATTTGA
TTATCATCTGTATGGCCAGAATGTTACCATGGTAATGACTTCAGTTTCTGGACATTTACTGGCTCATGATTTCCA
GATGCAGTTTCGAAAATGGCAGAGCTGCAACCTCTTGTCTCTTTGAAGCAGAAATTGAAAAGTACTGCCCAGA
GAATTTTGTAGACATCAAGAAAACCTTTGGAACGAGAGACTCGCCAGTGCCAGGCTCTGGTGATCTGGACTGACTG
TGATAGAGAAGGCGAAAACATCGGGTTTGAGATTATCCACGTGTGTAAGGCTGTAAAGCCCAATCTGCAGGTGTT
GCGAGCCCGATTCTCTGAGATCAACCCCATGCCGTGAGGACAGCTTGTGAAAACCTGACCGAGCCTGATCAGAG
GGTGAGCGATGCTGTGGATGTGAGGCGAGGAGCTGGACCTGAGGATTGGAGCTGCCTTTACTAGGTTCCAGACCCT
GCGGCTTCAGAGGATTTTCTGAGGTGCTGGCAGAGCAGCTCATCAGTTACGGCAGCTGCCAGTTCCCCACACT
GGGCTTTGTGGTGGAGCGGTTCAAAGCCATTGAGGCTTTTGTACCAGAAATCTTCCACAGAATTAAGTAACCTCA
TGACCACAAAGATGGTATCGTAGAATTCAACTGGAAAAGGCATCGACTCTTTAACCACACGGCTTGCTTAGTTCT
CTATCAGTTGTGTGTGGAGGATCCCATGGCAACTGTGGTAGAGGTCAGATCTAAGCCCCAAGAGCAAGTGGCGGCC
TCAAGCCTTGAGACTGTGGAGCTTGAGAAGCTGGCTTCTCGAAAGTTGAGAATAAATGCTAAAGAAACCATGAG
GATTGCTGAGAAGCTCTACACTCAAGGGTACATCAGCTATCCCCGAACAGAAACAAACATTTTTTCCAGAGACTT
AAACCTGACGGTGTTGGTGGAAACAGCAGACCCCCGATCCACGCTGGGGGGCCTTTGCCAGAGCATTCTAGAGCG
GGGTGGTCCCACCCACGCAATGGGAACAAGTCTGACCAAGCTCACCTCCCATTACCCACCAAATACACCAA
CAACTTACAGGGAGATGAACAGCGACTGTACGAGTTTATTGTTTCGCCATTTCTGGCTTGCTGCTCCCAGGATGC
TCAGGGGCAGGAGACCACAGTGGAGATCGACATCGCTCAGGAACGCTTTGTGGCCCATGGCCTCATGATTCTGGC
CCGAAACTATCTGGATGTGTATCCATATGATCACTGGAGTGACAAGATCCTCCCTGTCTATGAGCAAGGATCCCA
CTTTTCAGCCCAGCACCGTGGAGATGGTGGACGGGGAGACCAGCCACCCAAGCTGCTCACCAGGCGCGACCTCAT
TGCCCTCATGGAGAAGCATGGCATTGGTACGGATGCCACTCATGCGGAGCACATCGAGACCATCAAAGCCCGGAT
GTACGTGGGCCTCACCCAGACAAGCGTTTCTCCCTGGGCACCTGGGCATGGGACTTGTGGAAGGTTATGATTC
CATGGGCTATGAAATGTCTAAGCCTGACCTCCGGGCTGAACTGGAAGCTGATCTGAAGCTGATCTGTGATGGCAA
AAAGGACAAATTTGTGTTCTAAGGCAGCAAGTGCAGAAATACAAGCAGGTTTTCATTGAAGCGGTGGCTAAAGC
AAAGAAATTGGACGAGGCCTTGCGCCAGTACTTTGGGAATGGGACAGAGTTGGCCCAGCAAGAAGATATCTACCC
AGCCATGCCAGAGCCCATCAGGAAGTGCCACAGTGCAACAAGGACATGGTCTTAAGACCAAGAAGAATGGCGG
GTTCTACCTCAGCTGCATGGGTTTCCCAGAGTGTGCTCAGCTGTGTGGCTTCTGACTCGGTGCTGGAGGCCAG
CAGGGACAGCAGTGTGTGTCAGTTTGTGTCAGCCACACCCTGTGTACAGGTTAAAGTTAAAGTTTAAAGCGCGGTAG
CCTTCCCCCGACCATGCCCTCTGGAGTTTGTGTTGCTGCATCGGCGGATGCGACGACACCCTGAGGGAGATCCTGGA
CCTGAGATTTTCAGGGGGCCCCCAGGGCTAGCCAGCCCTCTGGCCGCTGCAGGCTAACAGTCCCTGAACAG
GATGGACAACAGCCAGCACCCCCAGCCTGCTGACAGCAGACAGACTGGGTCTCAAAGGCTCTGGCCCAGACCCT
CCCACCACCCACGGCTGCTGGTGAAAGCAATTCTGTGACCTGCAACTGTGGCCAGGAGGCTGTGCTGCTCACTGT
CCGTAAGGAGGGCCCCAACCGGGGCGGCAGTTCTTTAAGTGCAACGGAGGTAGCTGCAACTTCTTCTGTGGGC
AGACAGCCCCAATCCGGGAGCAGGAGGGCCTCCTGCCTTGCCATATAGACCCCTGGGCGCCTCCCTGGGATGCCC
ACCAGGCCCAGGGATCCACCTAGGTGGGTTTGGCAACCCTGGTGATGGCAGTGGTAGTGGCACATCCTGCCTTTG
CAGCCAGCCCTCCGTACACGGACTGTGCAAGGATGGACCCAACAAGGGGCGCCAGTTCCACACATGTGCCAA
GCCGAGAGAGCAGCAGTGTGGCTTTTCCAGTGGGTGCGATGAGAACACCGCTCCAGGGACTTCTGGAGCCCCGTC
CTGGACAGGAGACAGAGGAAGAACCCTGGAGTGGGAAGCCAGAAGCAAAAGGCCCGGGCCAGTTCTCAGACAT
GGGGTCCACAGCAAAGAAACCCCGGAAATGCAGCCTTTGCCACCAGCCTGGACACACCCGTCCCTTTTGTCTCA
GAACAGATGAGCTCAGGGTAGGGTAGAGAAGCCACTTTCTCAGACCTGTCCCCTTTGTGTTTAGAAATGAGTTA
ACCAGGACCAAGTGGCCATTTAGTGTCTGGAACCTTAGAGGACAGTGTGGCCTTTGGAGTCGGGCCTTCTTGT
GTTAAGGGGCACAAGGTCCAGATCACTCTGGAGCAGGCCAGCTCTGCTGGACAGTGACCCTCTTCCAGGCCTCA
GGAGTGACCATAGCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCCAAGGATGGTTGCTGTAGCAG
AGGATTGGTGCAGTCCCAGCTGAAGCCCACTGTGTGCCAAAGGAAGAAGCTCCAGGGCTGCTTCTTACCTGC

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FIGURE 4716B

AGAAAGCCCCAAGTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCCAGGGCTTCTCATAGACGTC
CTGAGAAGGACGGTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTA
ATCTAGTTAAGCCAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGG

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FIGURE 4717

MIFPVARYALRWLRRPEDRAFSRAAMEMALRGVRKVLCAEKNDAAKGIADLLSNGRMRRREGLSKFNKIYEFDY
HLYGQNVMTVMVTSVSGHLLAHDFQMQRKWQSCNPLVLF EAEIEKYCPENFVDIKKTLERETRQCQALVIWTD CD
REGENIGFEIIHVCKAVKPNLQVLRARFSEITPHAVRTACENLTEPDQRVSDAVDVROELDLRIGAAFTRFQTLR
LQRIFFPEVLAEQLISYGSCQFPTLGFVVERFKAIQAFVPEIFHRIKVTHDHKDGIVEFNWKRHRLFNHTACLVLVY
QLCVEDEMATVVEVRSPKPSKWRPQALDTVELEKLASRKLRLINAKETMRIA EKLYTQGYISYPRTETNIFPRDLN
LTVLVEQQTPDPRWGAFQAQSILERGGPTPRNGNKSQAHPPIHPTKYTNNLQGDEQRLYEFIVRHFLACCSQDAQ
GQETTVEIDIAQERFVAHGLMILARNYLDVYPYDHWSKILPVYEQGSHFQ PSTVEMVDGETSPPKLLTEADLIA
LMEKHGIGTDATHAEHIETIKARMYVGLTPDKRFLPGHLGMGLVEGYDSMGYEMSKPDLRAELEADLKLICDGKK
DKFVVLRQQVQKYKQVFI EAVAKAKKLDEALAQYFGNGTELAQQEDIYPAMPEPIRKCPQC NKDMVLKTKKNGGF
YLS CMGFPECRSAVWLPDSVLEASRDSSVCPVCQPHFVYRLKLFKRGSLPPTMPLEFVCCIGGCDDTLREILD L
RFSGGPPRASQPSGRLQANQSLNRMDNSQHPQPADSRQTGSSKALAQTLPPPTAAGESNSVTCNCGQEAVLLTVR
KEGPNRGRQFFKCNCGSCNFFLWADSPNPGAGGPPALAYRPLGASLGCPPGPGIHLGGFGNPGDGS GSGTSC LCS
QPSVTRTVQKDGPNKGRQFHTCAKPREQQCGFFQWVDENTAPGTSGAPSWTGDRGRTLESEARSKRPRASSSDMG
STAKKPRKCSLCHQPGHTRPFCPQNR

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FIGURE 4718

GCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCCAAGGATGGTTGCTGTTAGCAGAGGATTGGTGCA
GTCCCAGCTGAAGCCCCTGTGTGCCAAAGGAAGAAGCTCCCAGGGGCTGCTTCCTTCACCTGCAGAAAGCCCCAA
GTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCAGGGCTTCTCATAGACGTCCCTGAGAAGGACG
GTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTAATCTAGTTAAGC
CAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCAC
TTTGGGAGGCTGTGGGGGGCGGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAAACCCTG
TCTCTACTAAAAATACAAAAAATTAGCCAGGTGTGGCGGTGTGCGCCTGTAGACCCGGCTACTCAGGAGGCTGAGG
TTGCAGTGAGCTGAGATCGGGCCATTGCACTCCAGCCTGGGCAAAAAGAGTGAAACTCTGTCTCAAGAAAAAAAA
AAAAA

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FIGURE 4719A

CTAGCCCGGCGCGGCCCGGCAGCGAGAGCGGCGGCC**ATG**GAGGCCACCGGGGTGCTGCCGTTTCGTGCGTGCGGTGG
ACCTCAGCGGCAACGACTTCAAGGGCGGCTACTTCCCTGAGAATGTCAAGGCCATGACCAGCCTGCCGTGGCTGA
AGCTGAACCGCACTGGCCTCTGCTACCTGCCCAGGAGCTGGCCGCCCTGCAGAAGCTGGAACACTTGTCTGTGA
GCCACAACAACCTGACCACGCTTCATGGGGAGCTGTCCAGCCTGCCATCGCTGCGCGCCATCGTGGCCCGAGCCA
ACAGTCTGAAGAATTCGGGAGTCCCCGATGACATCTTCAAGCTAGATGATCTCTCAGTCTGGACTTGAGCCACA
ACCAGCTGACAGAGTGCCCGCGGGAGCTGGGAAACGCCAAGAACATGCTGGTGCTGAACCTCAGCCACAACAGCA
TCGACACCATCCCCAACCAGCTCTTCATCAACCTCACTGACCTACTATACCTGGACCTCAGCGAGAACCGCCTGG
AGAGCCTGCCCCCGCAGATGCGCCGCTGGTGACCTGCAGACGCTCGTGCTCAATGGAAACCCCTGCTGCATG
CACAGCTCCGGCAGCTCCCAGCGATGACGGCCCTGCAGACCCTGCACCTGCGGAGCACCCAGCGCACCCAGAGCA
ACCTGCCCACCAGCCTGGAGGGTCTGAGCAACCTCGCAGACGTGGATCTGTCTGCAATGACCTGACACGGGTGC
CCGAGTGTCTGTACACCTTCCCCAGCCTGCGCCGCTCAACCTCAGCAGCAACCAGATCACGGAGCTGTCCCTGT
GCATAGACCAGTGGGTGCACGTGGAACTCTGAACCTGTCCGAAATCAGCTCACCTCACTGCCCTCAGCCATTT
GCAAGCTGAGCAAGCTGAAGAAGCTGTACCTGAATTCCAACAAGCTGGACTTTGACGGGTGCCCTCAGGCATTG
GCAAGCTCACCAACCTGGAAGAGTTTATGGCTGCCAACAACAACCTGGAGCTGGTCCCTGAAAGTCTCTGCAGGT
GCCCCAAGCTGAGGAACTTGTCTGAACAAGAACCACCTGGTGACCCTCCCAGAAGCCATCCATTTCTGACGG
AGATCGAGGTCTGGATGTGCGGGAGAACCCCAACCTGGTCAATGCCGCCAAGCCCGCAGACCGTGCCGTGAGT
GGTACAACATCGACTTCTCGCTGCAGAACCAGCTGCGGCTAGCGGGTGCCTCTCTGCTACCGTGGCTGCAGCTG
CAGCTGCAGGGAGTGGGCCCAAGGACCCTATGGCTCGCAAGATGCGACTGCGGAGGCGCAAGGATTCAGCCCAGG
ATGACCAGGCCAAGCAGGTGCTGAAGGGCATGTGAGATGTTGCCAGGAGAAGAACAAGCAGGAGGAGAGCG
CAGATGCCCCGGGCCCCCAGCGGAAGGTGCGGCTTGGGACCAGGGCCTGGAGAAGCCCCGCTTGACTACTCCG
AGTTCTTACGGAGGACGTGGGCCAGCTGCCCGACTGACCATCTGGCAGATAGAGAACCTTCGTGCCTGTGCTGG
TGGAGGAAGCCTTCCACGGCAAGTTCTACGAGGCTGACTGCTACATTGTGCTCAAGACCTTCTGATGACAGCG
GCTCCCTCAACTGGGAGATCTACTACTGGATTGGCGGGGAGGCCACACTCGACAAGAAAGCTTGCTCTGCCATCC
ACGCTGTCAACTTGCGCAACTACCTGGGTGCTGAGTGCCGCACTGTCCGGGAGGAGATGGGCGATGAGAGCGAGG
AGTTCTGTCAGGTGTTTGACAACGACATCTCCTACATTGAGGGTGAACAGCCAGTGGCTTCTACACTGTGGAAG
ACACACACTATGTACACAGGATGTATCGTGTGTATGGGAAAAAGAACATCAAGTTGGAGCCTGTGCCCTCAAGG
GGACCTCTCTGGACCCAAGGTTTGTCTTCTGCTGGACCGAGGGCTAGACATCTACGTATGGCGGGGGGCCAGG
CCACACTGAGCAGCACCACCAAGGCCAGGCTCTTTGCAGAGAAAATTAACAAGAATGAGCGGAAAGGGAAGGCTG
AGATCACACTGCTGGTGCAGGGCCAGGAGCTCCAGAGTTCTGGGAGGCACTGGGTGGGGAGCCCTCTGAGATCA
AGAAGCACGTGCCTGAAGACTTCTGGCCGCCGAGCCCAAGCTGTACAAGGTGGGCTGGGCTTGGGCTACCTGG
AGCTGCCACAGATCAACTACAAGCTCTCCGTGGAACATAAGCAGCGTCCCAAGGTGGAGCTGATGCCAAGAATGC
GGCTGCTGCAGAGTCTGCTGGACACGCGCTGCGTGTACATTCTGGACTGTTGGTCCGACGTGTTTATCTGGCTCG
GCCGCAAGTCCCCGCGCCTGGTGCGCGCTGCCGCCCTCAAGCTGGGTGAGGAGCTGTGCGGGATGCTGCACCGGC
CACGCCATGCCACGGTCAGCCGCAGCCTCGAGGGCACCGAGGCGCAGGTGTTCAAGGCCAAGTTCAAGAATTGGG
ACGATGTGTTGACGGTGGACTACACACGCAATGCGGAGGCCGTGCTGCAGAGCCCCGGGTCTCTCCGGGAAGGTGA
AACGCGACGCCGAGAAGAAAGACCAGATGAAGGTGACCTCACTGCGCTTTTCTGCGCGGCAGCCGCCCATGT
CGCTGGCCGAGGCGGAGCAGCTGATGGAGGAGTGGAACGAAGACCTAGACGGCATGGAGGGTTTCGTGCTGGAGG
GCAAGAAGTTTGCGCGGCTGCCGGAAGAGGAGTTTGGCCACTTCTACACGCAGGACTGCTACGTCTTCTCTGCA
GGTACTGGGTGCCTGTGGAGTACGAGGAGGAGGAAAAGAAGGAAGACAAGGAGGAGAAGGCCGAGGGCAAAGAAG
GCGAGGAAGCAACCGCTGAGGCAGAGGAGAAGCAGCCAGAGGAGGACTTCCAGTGCAATCGTGTACTTCTGGCAGG
GCCGTGAAGCCTCCAATATGGGCTGGCTCACCTTCACCTTCAGCCTGCAAAAAGAAGTTTCAGAGACCTCTTCCCTG
GGAAGCTGGAGGTGGTACGCATGACGCAGCAGCAGGAGAACCCCAAGTTCTGTCCCATTTCAAGAGGAAGTTCA
TCATCCACCGGGCAAGAGGAAGGCGGTCCAGGGCGCCCAACAGCCCAGCCTCTACCAGATCCGCACCAACGGCA
GCGCCCTCTGCACCCGGTGCATCCAGATCAACACCGACTCCAGCCTCCTCAACTCCGAGTTCTGCTTCATCTCA
AGGTTCCCTTTGAGAGTGAGGACAACCAGGGCATCGTGTATGCCTGGGTGGGCCGGGCATCAGACCTGACGAAG
CCAAGTTGGCAGAAGACATCCTGAACACCATGTTTGACACCTCCTACAGCAAGCAGGTTATCAACGAAGGTGAGG
AGCCTGAGAACTTCTTCTGGGTGGGCATTGGGGCACAGAAGCCCTATGATGACGATGCCGAGTACATGAAACACA
CACGTCTCTTCCGGTGTCTCAACGAGAAGGGCTACTTTGCAGTGACTGAGAAATGCTCCGACTTTTGCCAAGATG

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FIGURE 4719B

ACCTGGCAGATGATGACATCATGTTGCTAGACAATGGCCAAGAGGTCTACATGTGGGTGGGGACCCAGACTAGCC
AGGTGGAGATCAAGCTGAGCCTGAAGGCCTGCCAGGTATATATCCAGCACATGCGGTCCAAGGAACATGAGCGGC
CGCGCCGGCTGCGCCTGGTCCGCAAGGGCAATGAGCAGCACGCCTTTACCCGCTGCTTCCACGCCTGGAGCGCCT
TCTGCAAGGCCCTGGCCTAAGACAGGCTGGCACAGCCCCAGGCTTGGTGAGGAAGAGGAAGGGGCCTCATCCACT
GTCTGCTAGCAAAGAATGTACTCAGGTGACACCACCTGCTCCAGCCACGTCCAGTGCCACAGTCCCCAGTAGCCT
CAAGCAGCACCAATGGGGATGACCCTGACAGGTGCCCTCAGGGGTCTGGGAAATCCAACCTCTCTCCACAGTGTGA
GTGCACGTGTGAAGCCCCCTCACTCTTCCGCTAGGGATAAAGCAGATGTGGATGCCCTTTAAGAGATATTAAATG
CTTTTATTTTCAATATT

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FIGURE 4720

MEATGVLPFVRGVDLSGNDFKGGYFPENVKAMTSLRWLKLNRGTGLCYLPEELAALQKLEHLSVSHNNLTTLHGEL
SSLPSLRRAIVARANSKNSGVDDIFKLDDLSVLDLSHNQLTECPRELENAKNMMLVLNLSHNSIDTIPNQLFINL
TDLLYLDLSENRLSLPPQMRLVHLQTLVLNNGNPLLHAQLRQLPAMTALQTLHLRSTQRTQSNLPTSLEGLSNL
ADVLDSCNDLTRVPECLYTLPSLRRNLSSNQITELSLCIDQVHVETLNLNRNQLTSLPSAICKLSKLKKLYLN
SNKLDLDFGLPSGIGKLTNLEEFMAANNLLELVPESLCRCPKLRKLVLNKNHLVTLPEAIHFLTEIEVLDVRENPN
LVMPPKPADRAAEWYNIDFSLQNQLRLAGASPATVAAAAAAGSGPKDPMARKMLRRRKDSAQDDQAKQVLKMS
DVAQEKNNKQEEESADARAPSGKVRRWDQGLEKPRLDYSEFFTEDVGQLPGLTIWQIENFVPVLVEEAFHGKFYEA
DCYIVLKTFLDDSGSLNWEIYYWIGGEATLDKKACSAIHAVNLRNYLGAECRTVREEMGDESEEFQVFDNDISY
IEGGTASGFYTVEDTHYVTRMYRVYGKKNIKLEPVPLKGTSLDPRFVFLDRGLDIYVWRGAQATLSSTTKARLF
AEKINKNERKGKAEITLLVQGQELPEFWEALGGEPSEIKKHVPEDFWPPQPKLYKVGLGLGYLELPQINYKLSVE
HKQRPKVELMPRMRLQSLDTRCVYILDWSDVFIWLGRKSPRLVRAAALKLGOELCGMLHRPRHATVSRSLG
TEAQVFKAKFKNWDDVLTVDYTRNAEAVLQSPGLSGKVKRDAEKKDQMKADLTALFLPRQPPMSLAEEQIMEEW
NEDLDGMEGFVLEGGKFARLPEEEFGHFYTQDCYVFLCRYWVPVEYEEEEKKEDKEEKAEGKEGEEATAEAEKQ
PEEDFQCIVYFWQGREASNMGWLTFTFSLQKKFESLFPKLEVVVMTQQQENPKFLSHFKRKFIIHRGKRKAVQG
AQQPSLYQIRTNGSALCTRCIQINTDSSLLNSEFCFILKVPFESEDNQGIVYAWVGRASDPDEAKLAEDILNTMF
DTSYSKQVINEGEEPENFFWVGIGAQKPYDDDAEYMKHTRLFRCSNEKGYFAVTEKCSDFCQDDLADDDIMLLDN
GQEVYMWVGTQTSQVEIKLSLKACQVYIQHMRSKEHERPRRLRLVRKGNEQHAFTRCFHAWSAFCKALA

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FIGURE 4721A

AGACTGTGGAGCATGGCTTCCCCAATCAGCCCAGCGCCCTGGCCTTCGACCCGGAACCTTCGCATCATGGCCATCG
GCACCAGGTCTGGGGCTGTCAAGATCTATGGTGCACCTGGCGTGGAGTTCACAGGCCTGCACCGGGATGCAGCCA
CTGTACACAGATGCACCTTCTTGACCGGCCAGGGCCGCTCCTGTCCCTGCTTGATGACAGCAGTCTGCATCTCT
GGGAGATTGTCCACCATAATGGCTGTGCCCACCTGGAAGAAGCACTCAGTTTCCAGCTGCCAGCCGGCCCCGGCT
TTGATGGTGCCAGTGCTCCGCTCAGCCTTACCCGAGTCACAGTGGTCCCTGCTGGTGGCTGCCGGCGACATAGCAG
CCCTGGGCACTGAGGGCAGCAGTGCTTCTTCTCCTGGATGTTACCAACCTGACCCTGCTCGAGGGGCAGACGCTTG
CCCCAGGCGAGGTTCTGCGCAGCGTGCCAGACGACTACCGCTGTGGGAAGGCACTGGGCCCCGTGGAGTCACTCC
AGGGACACCTGCGGGACCCCCACAAAGATTCTCATTGGCTACAGCCGGGGCCTGCTGGTCATCTGGAACCAGGCCT
CGCAGTGTGTGGACCACATCTTCTGGGGAACCAGCAGCTGGAGAGCCTATGCTGGGGGCGTGATAGCAGCACTG
TGGTCAGCTCACACAGCGATGGCAGCTATGCTGTCTGGTCTGTGGATGCCGGCAGCTTCCCAACGCTGCAGCCCA
CGGTAGCCACCACACCTTACGGCCCCCTTCCCTGCAAGGCCATTAACAAGATTCTGTGGCGGAACCTGTGAATCTG
GGGGCCACTTTATCATCTTCAGCGGTGGCATGCCCCGTGCCAGCTATGGTGACCGCCACTGTGTAAGTGTGCTTC
GAGCCGAGACATTGGTGACGCTGGACTTCACTTCCCGCATCATCGACTTCTTCACAGTGCACAGCACACGGCCCCG
AGGATGAATTTGATGACCCCCAGGCCCTGGCTGTGCTGCTGGAAGAGGAGCTGGTGGTGTGAGCCTGCAGACTC
CTGGCTGGCCAGCTGTGCCTGCCCCATACCTGGCCCCGCTGCACCTCCTCTGCAATCACTTGCTCGGCCCCAGTGG
CCAGTGTCCCCGCCAAGCTGTGGGGCCGCAATTGTGAGCGCTGGCGAGCAGCAGAGCCCCCAGCCTGTCTCCAGTG
CCTTGAGCTGGCCCATCACTGGGGGCCGAAACCTGGCCCAGGAGCCGTACACAGCGAGGGCTGCTGCTGACGGGCC
ATGAGGACGGCACCGTGAGGTTCTGGGATGCCTCGGGTGTGGCGCTGCGGCCGCTCTATAAGCTGAGCACAGCTG
GCCTCTTCCAGACAGACTGTGAGCACGCTGACAGCCTGGCCCAGGCTGCCGAGGACGACTGGCCACCCTTCCGCA
AGGTGGGCTGCTTCGATCCCTACAGTGACGATCCCCGGCTTGGCGTGCAAGGTTGCTCTCTGCAAGTATACAG
CCCAGATGGTGGTGGCTGGCACTGCAGGCCAGGTGCTGGTACTGGAGCTTAGTGATGTGCCGGTGGAGCAGGCGG
TCAGCGTGGCCATCATAGACCTCCTCCAGGACCGCGAGGGCTTCACATGGAAGGGCCACGAGCGGCTGAGCCAC
GCACGGGGCCGCTGCCCTGGCCTGCTGGCTTCCAGCCCCGTGTCTGGTGCAGTGCCTGCCGCCAGCTGCTGTAA
CCGCTGTACACTCCACACCGAGTGAGCCTCGTGGCTTTTGGCACCAAGTCATGGCTTTGGCCTCTTCGACTACC
AGCGCAAGAGCCCTGTGCTGGCCAGGTGCACTCTTACCCCCAATGACTCCCTGGCCATGGAGGGTCCGCTCTCCC
GGGTGAAGTCTCTCAAGAAGTCACTGCGCCAGTCTTTCCGGCGCATTGCAAGAGTCGTGTCTCTGGCAAGAAGC
GGGCTGCTAATGCCAGCAGCAAGGAAGCCAATGCACAGCTGGCTGAGCAGGCCTGCCCCACGACGTGGAGATGA
CGCCCGTGCAGCGCCGCATTGAGCCCCGCTCTGCCGATGACTCCTTGTGCGGTGTCTGTGCTTGCCTATACTTTG
CCGACACATTCTTCGAGATGGGGCCCCACCAGGGCCCCACCATGTGGGCTGGCACCAACTCAGGCTCTGTGTTG
CCTATGCACTGGAGGTGCCGGCAGCAGAGTGGGTGGTGAGAAGCGGCCCTGAGCAAGCGGTGGAGGCCGTGCTGG
GCAAGGAGGTGCAGCTGATGCACCGGGCGCCTGTGGTGGCCATTGCCGTGTTGACGGGCGTGGCCGCCCACTGC
CCGAGCCCTACGAGGCCTCACGGGACCTGGCGCAGGCACCTGACATGCAGGGTGGTCACGCTGTGCTCATCGCAT
CTGAGGAGCAGTTCAAGGTGTTCACTGCCCCAAGGTGAGCGCGAAGACCAAGTTCAAGCTGACGGCCCATGAGG
GCTGTGCTGTGCGCAAGGTGGCACTGGCCACGTTTGCCAGTGTGGCCTGCGAGGACTATGCTGAGACCTGCCTGG
CCTGCCTACCAACCTGGGTGACGTCCACGTCTTCTCGGTGCCTGGCCTGCGGCCCCAGGTGCACTATTCTGCA
TCCGGAAGGAGGACATCAGCGGCATCGCTTCTGTGCTCTTTACGCGCCATGGCCAGGGCTTTTACCTGATATCCC
CATCAGAATTTGAACGCTTCTCCCTAAGTGCCCCGGAACATCACAGAGCCGCTCTGCTCTCTGGACATTAACCTGGC
CCCGCATGCCACCCAGGCCAGTTACAGGATCCGAGAGTCAACCAAGCTGAGCCAGGCTAACGGGACCCCCAAGCA
TCCTGCTGGCCCCACAGAGCCTTGATGGAAGCCCTGATCCAGCCCACAGCATGGGACCTGACACCCCGAGCCAC
CCGAGGCTGCACTCTCACCCATGTCCATCGACTCAGCCACCAAGTGCTGACACCACGCTGGACACGACAGGGGACG
TCACAGTGGAAGATGTGAAGGATTTCTTGGGCTCCTCTGAGGAGTCAGAGAAGAACCTGAGGAACCTGGCAGAAG
ACGAGGGCCACGCTGTGCCATCCTGATCAAATGAGGAAGGCCAGAACTATCCCGACCTCCACCTGCCCTGCTCG
GAGCTGGAGTGCTGGATCCCTGGCACCTGCCTGGCCCCCTTAACATAGAACCACGCCTGCTAACCTGTAGGCTCCA
CTGGGACCTGCTGTCTGTCCCCGCTGACCCTGGGGCCCTGGAGCAGCACCAGCCCCAGGGTGTGGGCCTGGGACC
TGGGCCAGAACTGAGCCCTCCTGCAGGCATTTGGCTGCCCTGGGGGCCCACTGCCTAGGGAAGAGGACAGGTGGG
GCCCAGCACCTGTGCCACCTCCCCCCTCCACACACCATCCTTCCCCCTCACTTTGCAGAGTATTTTCTCTTTT
TTTTTTTTTCTTAAAGACGGAGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCCCCATCTCTGCTCACTGCA
AGCCCCGCCTTCTGGGTTCCCGCCATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCACCACC

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FIGURE 4721B

ACGCCCAGCTAATTTTTCTGTATTTTAGTAGAGATGGGGTTTCACCATGTTAGCCAGGATGGTCTCG

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FIGURE 4722

MMKFRFRRQGADPQREKLKQELFAFNKTVEHGFPNQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTGLHRDA
ATVTQMHF LTGGRLLSLLDDSSLHLWEIVHHNGCAHLEEALSFQLPSRPGFDGASAPLSLTRVTVVLLVAASDI
AALGTEGSSVFFLDVTTLTLLLEGQTLAPGEVLRVSPDDYRCGKALGPVESLQGHLRDPTKILIGYSRGLLVIWNQ
ASQCVDHIFLGNQQLES LCWGRDSSTVVSSHSDGSYAVWSVDAGSFPTLQPTVATTPYGPFCKAINKILWRNCE
SGGHFIIFSGGMPRASYGDRHCVSVLRAETLVTLDFTSRIIDFFT VHSTRPEDEFDDPQALAVLLEEELVVLDLQ
TPGWPAVPAPYLAPLHSSAITCSAHVASVPAKLWARIVSAGEQQSPQPVSSALSWPITGGRNLAQEPSQRGLLLT
GHEDGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQAAEDDWPPFRKVGCFDPYSDDPRLGVQKVALCKY
TAQMVVAGTAGQVLVLELSDVPVEQAVSVAIIDLLQDREGFTWKGHERLSPRTGPLPWPAGFQPRVLVQCLPPAA
VTAVTLHTEWSLVAFGTSHGFGLEDYQRKSPVLARCTLHPND SLAMEGPLSRVKS LKKS LRQSFRIRKSRVSGK
KRAANASSKEANAQLAEQACPHDVEMTPVQRRIEPRSADD SLSGVVRCLYFADTF LRDGAHHGPTMWAGTNSGSV
FAYALEVPAAAVGGEKRPEQAVEAVLGKEVQLMHRAPVVAIAVL DGRGRPLPEPYEASRD LAQAPDMQGGHAVLI
ASEEQFKVFTLPKVS AKTKFKLTAHEGCRVRKVALATFASVACEDYAETCLACL TNLGDVHVFSVPGLRPQVHYS
CIRKEDISGIASCVFTRHGQGFYLISPSEFERFSLSARNITEPLCSLDINWPRDATQASYRIRES PKLSQANGTP
SILLAPQSLDGSPDPAHSMGPD TPEPPEAALSPMSIDSATSADTTLD TTGDVTVEDVKDFLSSESESEKNLRNLA
EDEAHACAILIK

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FIGURE 4723A

GAGGATGCAGAGTGGGAGACCTTAAAACCGTCTGATCTGGCTGCTAAAGCGAGTGTCTGACGACCACCCATTAAAC
ACCAGCGAGTAGCGTTTGCTCACGGCTTTAGGATAAGAAGCCTGGAATGGTCCCCCTCCGCCGGGAGAAGAAAG
CCAGACGGTCATCCTTCCACCTGGCTGGCAGAGCTACCTGTCGCCTCAGGGCCGGCGGTACTATGTCAACACGAC
CACCAATGAGACCACCTGGGAACGTCCCAGCAGTTCTCCTGGGATTCCAGCCAGCCCTGGCTCTCACAGGAGCTC
TCTGCCTCCAACAGTGAATGGATAACCACGCATCAGGGACCCAGCGCACCCCTCCAGAGACTGCCACATGAGTGT
CCGAAAATCCACCGGTGATTCCCAGAACCTGGGATCCTCATCGCCAAGCAAAAAGCAGAGCAAGGAAAACACCAT
CACAATAAACTGTGTGACGTTCCCTCACCCAGACACGATGCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAG
CTACTGCGACTACTTCTGGGGCTGATAAGAAGGACCCCCAAGGCAACGGCACCCGTGGCTGGGTTTGAAGTACTGCT
CCAGAAAACAGCTGAAGGGCAAACAAATGCAGAAGGAAATGTGAGAATTCATCCGGGAAAGGATAAAGATTGAAGA
AGACTATGCGAAGAAGCTTAGCTAAGCTCTCTCAGAACTCCTTGGCTTCACAGGAGGAAGGCTCCTTGGGAGAGGC
GTGGGCCCAGGTGAAGAAGAGCCTGGCGGACGAAGCAGAAGTTACCTCAAGTTCTCTGCCAAGCTTCACAGCGA
GGTGGAGAAGCCCTGATGAAGTTCCTGTGAGAACTTCAAGAAAGACATGAAGAAGTGCGACCACCACATTGCCGA
CCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGGAAAGCCCTCACAGAGCGGCAGAGAGA
CCTGGAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCGCGGAG
AAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAACCAGGCCAGTCCAAATGGTTTGA
AGAGATGGTGACCACCACATTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGGCAGCACCTGTG
CCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAAGCACAGTCGAGCCCGTGGATCAGCTGCTTCG
AAAAGTGGACCCGGCCAAAGACAGGGAGCTGTGGGTGAGAGACACAAGACGGGCAACATCCGCCCTGTGGACAT
GGAGATCTAGATGGGCCTGTGCAGCTTCGGGGGGTCTGCTGGGXGAXXGGGGGGXCTGGGCTCCACCATTGGG
GCCCATGCCGAGTGGATGCCCCCACCCTCTCTCTGGGCCACTGAGGAGAGGGGAGAGAGCTGGTGATTCCAGA
AGGGTGACCCGGACAGCCTAGCTGGGGGCTCCCCCATATTCCCAGGCCCAGAAACAGACACCACAGCCCTGCCCT
TGTCTCTGAGGCTGAAGACCCCTGACTCCCATGCTGTGCTTGCCGCTCTGAAACAAACAGAGGCTGGAACCTTG
TGGTCCCTTGCCGAGTTTTGTAGGGGTCACTGTACATGCTTGTGCCCTGGAAGCCCCAAGGCTCTTCTCCAGCT
GGTCCCTTGTCTCCAGGGCTTTGGAGGATCAGGGTAGGGAGGGCTCTGTCTCTAAGCCAGGTGTCAGGATCAGA
ATCATGGGTAGAAGGTGCCATTGAGCTCACAGCCGCACCCAGAATCCTTTGCAGCCCTCCTTCTTTATTTTTTTC
CCATTGCATTCTGGGAGTCCACATCTGGCTTTCTCAGCCACTGTTTCATCACAGGGGTTTTAGGAGGAAGGCTTG
GCTCCTGTCTTCCCAGACCCACCATTGCTGGAGAGGTGAGGATGGAACCTACCTCATTCCGGCAAATTAGCCCCAAA
TTGAGCGCTGAATCGTGTCCCATGAGATCAGGCGCCATCTGTAAAGTCTCCTCTGAAAATGCCAATCCATCCTTC
CCCCAGCTGCTTCTCGGGGAGGCCCTGCCCCACCCTGCCAGCCCTTCCCAGTCTCATTAGAGGAAGCTTTCC
AAAGTTCTCAGTTATCAAGACCTCATCCAGCTCGTCCAAAGGCTTCAGGGATGGAACAAACCAGCTCGTCTCAG
AGGCCAGCAAGCTGGGGCCTGTCCGCCACGGTGCCCTGTGCACCTTTGGGCTGCCCTGGCCCCACTCTCCCGGG
CCGCCACCACAGGCTCTTAATGGGGCCGGGTAGTCTTACATGTGAGATGGGTAGGGCAAGTCTTTGCCATCC
CCCAGATGGCTCTGTCTTCTTGTGTATGGCAGGGCTGGGACTGCTGTCCCTTGTACAGTTTTCTGTCACTGGTGG
GCACTGGACAGGCATAGCAGACTCTCTTGTGGCCACACTAGGTTGTGCGCTTTCAGGCAGTGTCCCGCCACCTTT
GCTTCCCGCTCCTTCTGGACATTCCAGAGCCCTGCACCAACCCCTTACTTGGTGTCTGCACCTCCTTTCCCTCTC
TCCATCTTCCAATCCCTGGAAAAGTCTGGTCTGAGTGTGACTTGGGAAGCTTTCAGTGCTGCTGTTTGGCCCAGC
TCATTACTTTCTCCCTTTCTCTACCACAGCAAACACATTCTCCACCATTGTCAGTCTAAAGAGTCTAAAGGGGCCG
GGAGAAGCATGAGCGAGGGGCAGATTCTAGTCGGGAGCCCATGCCCTGGAAATCCATCTTTCTTCACTTTCCCA
TTGACCACTTTGGGTTTGACCTGCACATCTGCAGTGAGGGCAGAATTCACAAAGCACAACTCACTGGTCTTTTCAG
TCAACGTGCTAGAAACCGATGACTTATTAATCTCTAATTTTTTGGCGCCTCTTTCATTGAATGAGAATTGCTTTC
GTATAGTTACATTAGAAAAATGCCTAATATACTAAAGTAAACCAAACGTTGTCACTTTTCTCTTGTCTTGAAA
CATTGCAACCAAAAAGGTGAGCACAAAGGCCCTTACCTACGTGAAGACCTCCTGGTAGGATCTGTCCATGGGATG
GAGAACCCTCTGTCCAGATCTGGGGTTGGGTGATGACACCAGCTACCAATTTTAGAATATTATTTCTTGGTTTC
TTTATGAAAAATGGGTGCTAGTGGTAATTGCTTTGTGGCTTAGTAACTACTCTGTGGATGATTTCCAAACATTC
AAAGCCAATAGCCTTGTTATTAACAAGATATTTTGGAGTACAATATGGCTCATTGACTTTTCCATTACATCTGAGG
ATTCCAGAGTCTCTGTTTCATCCCTGGGATAGAGTGAGCCCTCTTGCCTCTTCCAGGGTAGCTCAGGTTGGCCCA
GTTTGGGCCAGTCCATTTTTGGAGGTCACTCTTTCCCCCTCATCCCTCACCTCCTTCTCTTTACCCCTTCAC
GTACTTCCTTTCTTTCTTCCCTCTGTTATTCAATTCATCAAGCAGGTTAAAGCCATTGTGCTAAGATCTAATCTGA

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FIGURE 4723B

GGACACTATAATGGCCCTGTCGTCAGGGAAGCCCGTGATCGCTCGTTTTTCAGGGGTCTTACCGGTCAGCAACCTT
GGCATTGATACATAGGCACTCTACAGAATTTAAGTTTTTCAGAGGTAAGTCTGTTGTTCTGATTAACTGCAATTCA
TTCAGCGAATGCTCAAGACAAGCCAGGCATGCTGAGAAGCGGCGCTCTAGTTGTATGTAAGATGGGCATTTCCTCT
GCTCTCCTCTATTCTCCATGTCGACTGAGAAGAGTATAATAAGAACATTGTACCCTCTCCACACTTAACCCTCTG
GGATTCTTTATTATAATATAAACCACCGTCGTCGAGGCATTTACCTGTTGGATGGAAGGTAGACAGCAACAAGATT
TTAATCACCTGGTCACCAGACCCTCACGGCCCATATCCAATTCGAATTTTCAGAAATTTCTCTGTTTGCTTTAAAT
AACTCTTTACAAATAAGGGTCGGGCACGGTGCTCACGCCTGTAATCCCAGCTCTTTGGGAGGCCGAGGTGGGCA
GATCACGAGGTGAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACCCCGTCTCTGCTAAAAATACAAAAAT
TAGCCAGATGTGGTGGTGCACACCTGTAGTCCCACTATTCGGCAGGCTGAGGCAGTAGAATCGCTTGAACCTGG
GAGGCGGAGATTGCAGTGAACCAAGATCGGGCCACTGCACTCCAGCTTGGGTGACAGAGCAAGACTCCATCTCAA
AAAAATTATAAATAACTCTTTGCAAATAGGAAAGTGAAGCTCAAGGGTAACCAAGTGAGGCTATGAAATTGCCAGT
GAATTAAGACCAGGGCTAGAGTCAACAGTCCAGAACCCCTATCCGTATGAACAGGGGCCCGTTTCTGGTTGAAAT
CAAGGTTAGGATGCAACTGAGAAAATAAAAGACTGCACTTTGGAGAGGCAAGCACGCTATCCGGGTTGTTGTTTT
GTTTTATGTCTTGGTGCTTAGGTGAGGACTTAGCTGGGTTTATTCAAAGTGGGCGGGTCTGGGCTATTCTTGAGA
ATGTCCCTTCCATTTCTGAGAACAAGTCAGCCCTTCTACCTGCCTCCACCCAGGAGACTGATGCACAAGATCTG
TTTGTAAGCCTGATTTAAAAAGAAAAAATTCCTTAAGCCAAATGGTGTTCGAAGTTGGTTGCTGTGACA
ACCTCCAGGAAGAGCCACTTGTACCCTCTATTCTTTCTAGTGCTTTCAGTCAGTGGAACACATAGGCCCTTG
GACCGTGGGGATGGCGGCCCTGAGATTCTGTGAGTGGGACCACCTGGGCCTCCTTTCTACCTCCACTCAGCACC
CTGTTGGCCAAGGAGAATTTCTGCGGTGGGAGGCAGTGCTCTGCTAGTCAGGATTGATAAACAGCTGGGCACACC
GAAACAGTGTACCAACGAATTCACCAACCAGGGGTTTCTTTCCCTACCCTTTGTGAAAACCAATCAATTACTAGA
TGAGTGATGGATGCAGAAAAATCTGGGCTGAGCCAAAGTCCCTTTTGAAATACAAGCCATAACATTCGAAGGA
CATCAGCGACCTTGGCTTGTTTAGGTGATTTTACTTCCAGCTGCAGGTAGTCTTGACAAGGAGTGTTTAAACAGA
AGGCTCAAGATGCATTTCCTTGTGTAGGTGCGAGAGAGCACTTCTAATGTTAAGTGGGTACAGATCAGCTGCCCC
CCCACGTAGCCTGGACATCGTCTTATCCCCATAATCCTTGCCATCCCTACAAGGCCCATCGCCACCACCTTTTCC
CAGGTTTATTGAGGTATGATTGACATCCAGTAAATTCACCCTTTGGAAATATACAGCTCTGTGAATTTTGACAA
ATTTAGTGCTTGTGACCATCACCAAGATCAACCTGTTTTTAACCCTCCAAAAAATTCCTTCTCCTGCCCTCTT
TCCCTGGCAACCCTGATTGATTATCTGATCCTATAATTTTGCCCTTTTCTAGAATGTCATATAAATGGAGTCACAC
TGATGTGCGCTTTTGAGTCTGGCATCTTTCCCTCAGCTTAATGCTTTTGAGTCATTATGATGTGTGCGTGTGGT
TTGTTTCTTCTCCTTGCCGGGAAGTATTTTATTGCATGGGCGTACTACTCTGCTTCTTTATTTTTTACACTGAGCC
TTTCGCCCTGGAAGTTCTTGCCCCAGGGTCTTCAACTTGTGTCACGACCACTTCCAGCTTGCTGCTTCTTTCAG
TTCCCCAGGCTCCTCCTCCAAATGCCAGCTGTGCCCACAAGCTGTTCTTAGGGCTCACACTCGCCTTTTGGCGCG
TGGTGGGTTTTTGGTAGTGCAGAAAGAAATCCAGGGATGGGAGGGGAAGGGACGGATGGGTGCTCAATTGCTGCTC
ACGTCTGCTGCAACCTGAAGCTTGCATCTCAGCCAGCAGATCTGCTCCCTTCTGGGACCCAGGCTTCAGTGTCAC
ACGGTCTTGGCTATGATTGGGCGTTGGAGGCTTTGAAAGGCGAGCAGAAGCAGCATGGACAAGAAGGCTGGGG
CTGGCCCTGGGGCTCATCATGATGCTTTCCTGGATCTGTTGCTTCATCTGCAAGCTGAGGGTGTGTTGTTCTAGAT
GAGTGTCTCAGGCCACCGGCAACTGCATGTACCTCCTCCCTTTCTCATTTCCAATGATGTACCCTGTACACGTGT
TCATGCTGTGTCTGGCTCTCATCTGCACAATCGTGCATAGAATTGCCCTCAAGTCTGGTGAGAGAGATGCCGTGG
TACTTTTCCATTTAGATTCAAATGGAGCTAAAATTAAGAGTTTTATGAGCTGTTAAGAATGAGGTAGTTTTCTCCT
AGGACCCCCCAAAGACAGTGCAGTAATGACCGTTTGATCTCATTTCGTCGATCTTTGATAGTATGTTCTGGAGT
CTACTCCCCAGGAGCCAGGACAGGCGTGAAGATGGAGTCTTGTGCGCAGCTGGAGCCTTGCCCTAGCTGGTGATCA
CACAGCCTGGCCTGTACCTGCACCCCACTGGATGGTGGTACATGGTGGCAGGGACAGGACCACACCCAGTTAAGG
CCAGACCAGGCTGAGTGTGACCCCTGAGGTAAACACTCCACTAAGCTGTGTCTTGTTCATGCCCCCTGCTCAGTG
AAAGGTGAGTCCCGAGACCAGTTGGGTACCTCTCTATGCGAACCAGAGACATTTCTGGATCCAGGCCAGGTGAAG
ATTAGGGCCAGGAAGCCTGAGCCCCCGGGCCTCAAGGTAGGGAGCCGAAGAGGCTGCCAGGACTCTGCTGGGTT
GAAATTTGCCGGGGAGGACTCTTGTCTCCCCCTCAGGAGTATTTTTGTTGAGGCTTTCTGGAGGTGAAGAAGCA
ATTCCCATTTGCAGCAGGTTAGAGCGAGAATCAGACAGAGGGCAAAAACCAATTCGCTTCTCCCCACGTTCTAAAT
GCTGGGGCATGGCTGTGAGGAGGCTTCTGGGAGGTGTCTCTGGGGGTGGGGTGAAGTTGGGGCGATGGCCTTT
GGAGATTGCGTGTGGTGTTCAGGACTGTTCTTGGTGTGTTGAGGGAACTTTAGTGGGATTGCAGTGGAATGTAA

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FIGURE 4723C

GGTCAGGGCACGTGGGTGCTCTCTCGGGGTGGGGTGACTGGGAGACCTAGAGGGAAAGCCTGCTATGCAGGGGGA
GAGCACAGGACTGGCCCTGCTCTGCGGCCTCCTTTGTCCCATAACCTGAAGTTAAGTCACATCCCCGTGCGGGAC
CTCCGTGCACTCATCTGTCAAGTGGGGGCGCTTCCCTTCCAGCATCACCTGCAGCAGACGGGGCTCTCGGGAGTCG
TGGGTTCCAGGCAGCTGTGTGGACCCAGGGACAGACATTCAAAGGGACGCCAGCCATCCTTAGTGACAGGGGCCC
CAACTTAGCATCCCTTCCCTTCCGTTAGGAAGGAGATGACCGGAAGCAACCCCTTACAGACACGAGCACATCGG
CAAACCTATGAAAGTGGAATTTTCTAACAAAATAAACTTGCTTGTTTGATCTGTTTTCTGTAACTTTTGCTAAA
TACTTTATACATTTTTCAIGTTAAAGAGCCGTGTCTCCCGCCAGCACTCCTCACCCGGTATGAATGTGTTTCCT
CCACATTGTATATCCTTCCACCCTCTGGCTGCCTAGATCAGTAAATAAAATTGATGTAATATAATTTATAAGTAA
CACTGTTGAAACCTGATCCCAGTGGAGGCTGTAACCCACCTGCCCCGCACCACCCCTGACCCCTGTTACCG
CATTTGTGTGATTAATGCTGAAGAATTAAATGTTTAAAGAGTTTAAATTTTGAAGGCGTTTGCTATATACAGTT
GTCCTGCATTATTATAAAGAGTTTTTCAGGAAGTT

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FIGURE 4724

TCTTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCTGCCATGTCTCTAGTGATCCCTGAAAAGTTCCAGCAT
ATTTTGGGAGTACTCAACACCAACATCGATGGGCGGTGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTGTG
GGCCGAAGATATGCTCATGTGGTATTGAGGAAAGCAGACATTGACCTCACCAAGAGGGCGGGAGAGCTCATTGAG
GATGAGGTGGAACGTGTGGTCACCATTATGCAGAATCCACGCCAGTACAAGATCCCCGACTGGTTTTTGAACAGA
CAGAAGGATGTAAAGGATGGAAAAATATAACCAGGTCCTGGCCAACGGTCTGGACAACGAGCTCCGTGAAGACCTG
GAGCGACTGAAGAATATTCGGGCCCATAGAGGGCTGAGTCACITCTGGGGCCTTCGTGTCCGAGGCCAGCACACC
AAGACCACTGGCCGCTGTGGCCGCACCGTAGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGTTTGTTAATA
AATAGTTTATATAACC

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FIGURE 4725

GCTGTCCTGAGCCTGAGTACTCTAGCTGCCTTGTGCGCATCGCATCTGGCTGCCATCCAGCGCCAGCACACAGTA
ATGAGTGGCCGAGCTTCCTCTGGGAGGGAGGAAACAGTTAAATCTTGCAGCAGCTGCAATCATCTAGGCGTGGT
TCTCTTGTCTGACTTGGGCTGCACAGATCCTGGGCCAAGGGACAGAAGAAAGACAGCCTAGGAGCAGAGCCTCCC
AGATGGGCTGAGTTGGATCTAATGGCTCCAGGGCCACTGCCAGGGCCACTGCTCAGCCCCCAGCCCCCTCTCAGCC
CAGACTCTGGGTACCCAGCCCAGATTCTGGGTGAGCCAGCCCAGTGGGAAGAAGAGGACGTGGGCTCCTCGGAGA
AGCTTGGCAGGGAGACGGAGGAACAGGACAGCGACTCTGCAGAGCAGGGGGATCCTGCTGGTGAGGGGAAAGAGG
TCCTGTGTGACTTCTGCCTTGATGACACCAGAAGAGTGAAGGCAGTGAAGTCCTGTCTAACCTGCATGGTGAATT
ACTGTGAAGAGCACTTGCAGCCGCATCAGGTGAACATCAAAGTCAAAGCCACCTGCTGACCGAGCCAGTGAAGG
ACCACAACCTGGCGATACTGCCCTGCCACCACAGCCCCTGTCTGCTTTCTGCTGCCCTGATCAGCAGTGCATCT
GCCAGGACTGTTGCCAGGAGCACAGTGGCCACACCATAGTCTCCCTGGATGCAGCCCGCAGGGACAAGGAGGCTG
AACTCCAGTGCACCCAGTTAGACTTGGAGCGGAACTCAAGTTGAATGAAAATGCCATCTCCAGGCTCCAGGCTA
ACCAAAAGTCTGTTCTGGTGTGCGGTGTCAGAGGTCAAAGCGGTGGCTGAAATGCAGTTTGGGGAACTCCTTGCTG
CTGTGAGGAAGGCCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAGCCAGGCCAACG
GTATCAAGGCCACCTGGAGTACAGGAGTGCCGAGATGGAGAAGAGCAAGCAGGAGCTGGAGAGGATGGCGGCCA
TCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAGAACACTGAAGACATCACCTTCCCTAGTGTTT
ACGTAGGGCTGAAGGATAAACTCTCGGGCATCCGCAAAGTTATCACGGAATCCACTGTACACTTAATCCAGTTGC
TGGAGAATAATAAGAAAAGCTCCAGGAGTTTTCGAAGGAAGAGGAGTATGACATCAGAACTCAAGTGTCTGCCG
TTGTTACAGCGCAAATATTGGACTTCCAAACCTGAGCCAGCACCAGGGAAACAGTTCCCTCCAATATGCGTATGACA
TCACGTTTGACCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCGCAAGGTACCAACACCACGC
CCTGGGAGCATCCCTACCCGGACCTCCCCAGCAGGTTCTGCACTGGCGGCAGGTGCTGTCCAGCAGAGTCTGT
ACCTGCACAGGTACTATTTTGAGGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTGCAAAGGCATCG
ACCGGAAAGGGGAGGAGCGCAACAGTTGCATTTCCGGAACAACCTTCTCCTGGAGCCTCCAATGGAACGGGAAGG
AGTTCACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCTTTCCGGAGGCTCGGGGTCTATATCG
ACTTCCCGGGAGGGATCCTTTCTTCTATGGCGTAGAGTATGATACCATGACTCTGGTTACAAAGTTTGCCTGCA
AATTTTCAGAACCAGTCTATGCTGCCCTTCTGGCTTTCCAAGAAGGAAAACGCCATCCGGATTGTAGATCTGGGAG
AGGAACCCGAGAAGCCAGCACCGTCCCTTGGGGGTGACTGCTCCCTAGACTCCAGGAGCCATATCCCAGACCTTTG
CCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTTGTGGGCAGAAATAACTGCTGATGGTAGCTGGCTTTTG
AAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGCTCCATATGGTGCTGTTCTCTATGT
GTTTGCAGTAATTCTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCACTGTTGCCAGGCTGGAGAGCAGTGGCGGA
TCTTGGCTCACTGCAAGCTCCGCCTCCCGAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTA
CAGGTGCCTGCCACCACACCCAGCTAATGTTTTGTATTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCA
GATCTCAAACCTCCTGACCTCGTGATGCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACATGCGTGAGCCACTG
CGCCCTGCCTGTTTGTAGTAATTTTAGGCACCAAATCTCCCTCATCTTCTAGTGCCATTCTCCTCTCTGTTTCAG
GTAAATGTCACTGTGCCCAGAATGGATGACCAGGAACCTTAAAGAGTGGCTGAAAAGATTGCAGAGTTATCAT
AATAAATTGCTAACTTGCGT

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FIGURE 4726

MAELDLMAPGFLPRATAQPPAPLSPDSGSPSPDSGSASPVEEEDVGSSEKLGRETEEQDSDSAEQGDPAGEGKEV
LCDFCLDDTRRVKAVKSCLTCMVNYCEEHLQPHQVNIKLQSHLLTEPVKDNWRYCPAHHSPLSAFCCPDQQCIC
QDCCQEHS GHTIVSLDAARRDKEAELQCTQLDLERKIKLNENAI SRLQANQKSVLVS VSEVKAVAEMQFGELLAA
VRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSQELERMAAISNTVQFLEEYCKFKNTEDITFP SVY
VGLKDKLSGIRKVITESTVHLIQLLENYKKKLQEF SKEEEYDIRTQVSAVVQRKYWTSKPEPSTREQFLQYAYDI
TFDPDTAHKYLRLQEENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYYFEVEIFGAGTYVGLTCKGID
RKGEERNSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFRR LGVYIDFP GGILSFYGYEYDTMTLVHKFACK
FSEPVYAAFWLSKKENAIRIVDLGEEPEKPAPSLGVTAP

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FIGURE 4727

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAAACTGCCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAAGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAGGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTCCGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCTTCCACCG
ACCTGGGGCCCCAGGGGGCTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCTCCTTCCAC
CGTGACCCCAACCTCTCCTGTCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGA
GGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 4728

GGGCGGTTGGCTTTGTTGGGTGAGCTTGTTTGTGTCCCTGTGGGTGGACGTGGTTGGTGATTGGCAGGATCCTGG
TATCCGCTAACAGGTCAAAA**ATG**CAGATCTTCGTGAAAACCCCTTACCGGCAAGACCATCACCCCTGAGGTGGAGCC
CAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAGGAAGGCATTCCCCCGACCAGCAGAGGCTCAT
CTTTGCAGGCAAGCAGCTGGAAGATGGCCGTACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCACCT
GGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCCCTGGAAGTGGA
GCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAAGAAGGCATCCCTCCCGACCAGCAGAGGCT
CATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCA
CCTGGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACTCTGGAAGT
GGAGCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAAGATAAAGAAGGCATCCCTCCCGACCAGCAGAG
GCTCATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCT
GCACCTGGTCCTGCGCCTGAGGGGTGGCTGT**TAA**TTCTTCAGTCATGGCATTTCGCAGTGCCAGTGATGGCATT
CTCTGCACTATAGCCATTTGCCCCAACTTAAGTTTAGAAATTACAAGTTTCAGTAATAGCTGAACCTGTTCAAAA
TGTTAATAAAGGTTTCGTTGCATGGTA

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FIGURE 4729

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG
GMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLR
GGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRL
RGGC

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FIGURE 4730

AGGTAGGCTCTCTAGGAATCTGGGAGTAGTAGCTGGGGGGCAAGAGCAAATAAAGAGCTCGAGCTTCTGTGGTCT
CTGGGGAGATGTTCCCGGAAGCCTGTCTAGAGGGCGGAGGGCAGCTGTTGAGATGGCGTGGCTCCCGGCTCCT
GCGCCGCGTGGCTTTCGCGGCGGGCGCTGCGGCCCCGGTATTGGACAGCCTGGCAGGGCAGCGCGGGGCCGAATC
CGGCTGCCGTGGCTGAGGCTCATGGATCACTCTTTTGTGGTAGGGCCACATCTGCCAGAGCCTGGAGTCTGCGAA
GGCCGGGACCCGGTTCCCGGCCCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGATTGCGTACCCACTGCAGA
GTGCTGAAGACGGGGTAGCCACGAGGTTGCAAATTCGTGAAGAATCAGCATCATGTTTGGCAGCTGAGTATTGGA
GCCAGGAGCCTGCCATGAGGTTTTGAGAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAA
GGTTATATTCCCAGAGGATGTCAGTCCCAAGGACCAGTAGCTGCCATCAGTTTGGATTCTGAAAATAACTGGCA
TCAACACTGGGTGTAGAAACATGCTTGCCATTATGTATCAGAGGACATGCTCAGCAGATCCAAGAGATATATTGG
CAACTTTTTCTAGAAAAGGCACATTGGGTATCATTCATTACATTCTTGAGT

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FIGURE 4731

MFPGSLSRGRRAAVEMAWLPGSCARVAFAGAARYWTAWQGSAGPNPAVAEAGSLFCGRATSARAWSLRREG
PGSPAHSGGVQTRENWIAYPLQSAEDGVATRLQIREESASCLAEYWSQEPAMRF

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FIGURE 4732

TCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACC**ATG**ACCACCTCCATCCGCCAGTTCACCTCCTCC
AGCTCCATCAAGGGCTCCTCTGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCAGCTGTCTGGCGGCCTGGGT
GCCGGCTCCTGCAGGCCGGGATCTGCTGGTGGCCTGGGCAGCGCCCTCGGGGGTAGCAGCTACTCCAGCTGCTAC
AGCTTTGGCTCTGGCGGTGGCTATGGCAGCAGCAGCTTTGAGGGCGTTGATGGGCTGCTGGTTCGGAGGTGAGAAG
GCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCGACACT
GAGCTGGAGGTAAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCCCGCTGACTACAGCCAGTACTAC
AGGATAATCGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACATATTGAC
AATGCCCATCTGGCTGCTGCTGACTTCCGCACCAAGTTTGGACAGAGCAGGCCCTGTGCCTGAGTGTGGAGGCC
GACATCAATGGCCCGTGCAGGGTGTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCACATTGAGAAC
CTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCCGCGAGGCCAGGTGGGCGGT
GAGATCAATGTGGAGATGGGCGCTGCCCCAGGTGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGAGCAGTAT
GAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAGCTGAACCGCGAG
GTGGCTACCAACAGTGAGCTGGTCCAGAGCGGCAAGAGCGAGATTTCCGAGCTCCGGTGCACCATGCAGGCCTTG
GAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGCTAC
TGCATGCAGCTGTCCCAGATCCAGGGGCTGATCGGCAGTGTGGAGGAGCGGCTGGCCCAGCTTCTCTGCGAGATG
GAGCAGCAGAACCAGGAGTACAAGATCCTCCTGGACATGAAGATGCGGCTGGAGCTGGAGATCACCACTACAC
CGCCTGCTGGAGGGCGAGGATGCCACCTGACTCAGTACAAGAAAAGAACCGGTGACCACCTGTCAGGTGCCTACC
ATTGTGGAAGAGGTCCAGGATGGTAAGGTCATCTCCTCCCGCAGCAGGTCCGCCAGACCACCCGCT**TGAG**CACCTC
AGCTTTCTGGCCGGCCCCCAGGAGGCAGGGAGGCAGCGGTCCCATCTGCCCCGCGGTCTCCGGCCTCTCCACC
CTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCCTGCGTGATGACAATAAAGCTCGTTGACTCAGCT

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FIGURE 4733

MTTSIRQFTSSSSIKGSSGLGGGSSRTSCQLSGGLGAGSCRPGSAGGLGSALGGSSYSSCYSFSGGGYGSSSFE
GVDGLLVGGEKATMQNLNDRLASYLDKVRALEEADTELEVKIRDWYQRQAPGPARDYSQYYRIIEELQNKILTAT
VDNANILLHIDNAHLAAADFRTKFETEQALCLSVEADINGPCRVLDELTLARADLEMHIENLKEELAYLKKNHEE
EMNAPRGQVGGEINVEMGAAPGVDSLRIENEMREQYKMAEKNRKDAEDWFFSKTEELNREVATNSELVQSGKSE
ISELRCTMQALEIELQSQLSMKASLEGNLAETENRYCMQLSQIQGLIGSVEERLAQLLCEMEQQNQEYKILLDMK
MRLELEITTYHRLLEGEDAHLTQYKKEPVTTCQVPTIVEEVQDGKVISSREQVRQTTR

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FIGURE 4734

CTTTCCGCTCGGCTGTTTTCTGCTCAGGAGCCGCAGGGCCGTAGGCAGCCATGACGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCCGGAAGATC
CGCAGACGTAAGGCCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGCCCATCCGGCCCCATC
GTGTGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAATCTGGAGGAGCTCAGGGTG
GCCGGCATTACACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCGAACGTGCAGCGGCTGAAGGAGTACCGCTCCAACTCATCCTCTTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAACTGGCCACCCAGCTGACCGGACCGGTCATGCCCATCCGG
AATGTCTATAAGAAGGAGAAAGCTCGAGTGATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCGTGCCAACGCCCGGCTCTTCGGCATACGGGCAAAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAA
AAGAAAAAATAAAGCCCTCCTGGGGACTTGGAAT

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FIGURE 4735

GAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGC
CCGGAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGGCCCAT
CCGGCCCATCGTGTGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAATCTGGAGGA
GCTCAGGGTGGCCGGCATTACAAGAAGGTGGCCCCGGACCATCGGCATTCTGTGGATCCGAGGAGGCGGAACCA
AACTCATCCTCTTCCCCAGGAAGCCCTCGGCCCCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAACTGGCCA
CCCAGCTGACCGGACCGGTCATGCCCATCCGGAATGTCTATAAGAAGGAGAAAGCTCGAGTGATCACTGAGGAAG
AGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCGGCTCTTCGGCATACT

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FIGURE 4736

MAPSRNGMVLKPHFHKDWQRRVATWFNQFARKIRRRKGPASQGAPHRSAAPRVGSHPAHRALEPHGSVPHEGARRPR
LQPGGAPGWPAFTRRWPGPSAFLWIQTHPLPQEALGPQEGRQFC

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FIGURE 4737

GTAGAGTGCGCGACGCTTTTGGCGACCCGACCTCTGGCTAACCTACCCCCGGAGCCATGGCCTCTGCTGGGGTGG
CAGCCGGGCGACAGGCGGAGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGC
CTCCTCAGCCGCCGCCGGTCCCTGCGCCTCAACCGCAGCAGTCGCCGGCGCCACGGCCTCAGTCACCTGCCCGCG
CGAGGGAGGAAGAGAACTACTCCTTTTTTACCTTTGGTTTACAACATCATCAAATGCATGGACAAGGACAGCCCAG
AGGTCCACCAGGACCTGAACGCCCTCAAAAGCAAGTTCCAGGAGATGCGCAAGCTCATCAGCACCATGCCCGGCA
TCCACCTGAGCCCCGAACAGCAGCAGCAGCAGCTGCAGAGCCTCCGGGAGCAAGTCAGGACCAAGAATGAGCTTC
TGCAAAAGTACAAGAGCCTCTGCATGTTTCGAAATCCCCAAGGAGTAGAGTGAGGCTGACTTCCTTAGAAAGAGGG
GGAAGCCAATGGCCTGTCTCCCCACTACCATCCCCAAACGCTCCTTGGGGCGTGTTTCTGTGGACCCCAGCTCA
GCTCGTCAAGCTGCAGGGGCGGGGCTCCTGTGCTGCTGCGCGCGCTTCGCCTGTGCGGGAGCCAGCGCAGAGCTT
GGCTGCGCCGGGGGTTTCTCGTGTAGATCCATATGTCTAGATGCATAATAACTGGAGTGCCTGCTGGTGGAAGTC
AGAATGCTCCTGGAGGCTGCAGAGGGGGTGGAGGACTCTCCCCTGCCTCTGGGGAGGGGGCCATCTGCTGCGCCC
GGCCCCACTGACAGATCTGAAGAGCACAGTAGGAAGGGAGGCGGCTCCTCTTTGCTTCCTTCCCTCTCTCTCTC
CCACCCCCATAGGATCAGTGTGTACCAGGTACACATTGTTCTGTTAACAGCAGCTTCTTGAAACATTTGCATAG
AATTCACTGGACGAATTAAGCCTGCACTCATATGGCATAGAATTGTGAGAGAATGTTTTGAAAGGCCAGAGGGTG
GCCTTTTTCCCCAAACAGTTTGGTTTCTTTTATGTTTGAGCCAGTGAAGGGAACCTACGCTTTGGGGGCTTCAGCC
TAGAGCCCTGCCAGGCAGCCCCTGGCTCCAGGTTCCCTGCCTCCTAGCGCTCTCCTCGCCTTCAGCTCTTGCTCC
CTTCTCGTTTCATCACCTCAGTCAGTGCCCAAGAGTGGCCAAACCGCTTCACATCTGCAGTGCTTCCCCAGGGT
TGACAAGGGGCGCTCCTTTCCACACAGGCCAGAAGAGGTCTTCAGGCGAACCAGCTTCCCCCTTCTGGCATTTT
AGATTCCCCTTGCTCTGGTTAAAAGGTCTTTCCCTCGTGGCCTTTGCACTTGCGGCAGCAACGTGTACTACACTG
CAGAAGGGTTCAGTATGCACCTTGTGTTGAGAGAGAGGCAACCCTGGGGGCCAGTTCAGGTGGTCCCCAACCAT
GGCTAGGTCTGAAAGTTACACAGCCAAGTTTGGAGCTCTTAAAAGTTGATGAACAGCCTCATTTCCCCAGCTTCCC
TGATTTCTTCCAGATGGGACGTTTTATTTGTGTGCTCTCCCTTGACTGTGAGATTGAAGTAAGAGCAGTTCTCTC
CGTTGCCTCTCGAGGAGGAGGTGCGAAGTCCTGGAGTATTGTTTGGGTCTCGGAATGGGCGCATAACCTGCGCTG
ACCAGTTTAGGGGCTTAGCAGATGCCTGCCAGCTGACCTCGTTGGCAGGAGGGTTGGGTGGAGATGTTTTTAGCA
GAGCTTCCATTAGTGTAGACCTGTAGCCACCTGTCAGAAGGTGGGTGGCATATTGGGGACCTGGGAATGTGTGAA
GGAGGAGATCAAATTTTCAAGTGGCTTTGGACAGAAAAGAAGGCTCTGGATTTAAGCGGGTGGTCACCTGTGAGACC
AGGTCTACCTTGGGACTGTTATTTAACTGAATCAGTTATTTCTTGAAATTTACAGTAGTGGGTGGGCCTGTTT
TAAGGCTCTGACAGATACCACGAAACATGAAGCACGTGGAACCTACAAGACCCCCGGGGTCTTTCTGAGTGCAAGG
CTGAAATGGACAAGGGCTCCTCACGGGGGTGGAGGGAGCCGGAGCCTGCCTTGTTGTTTCTTTTTTGAAGTTGTGAC
ATTTTTCAAACACATAATTTAAAGGACTTATGCTCTGCTGTCTCAGG

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FIGURE 4738

MASAGVAAGRQAEDVLPPTSDQPLPDTKPLPPPQPPFVPAPQPQQSPAPRPQSPARAREEENYSFLPLVHNIKC
MDKDSPEVHQDLNALKSKFQEMRKLISTMPGIHLSPEQQQQQLQSLREQVRTKNELLQKYKSLCMFEIPKE

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FIGURE 4739

GGGGCGACCCGACCTCTGGCTAACCTACCCCCGGAGCCATGGCCTCTGCTGGGGTGGCAGCCGGGCGACAGGCGG
AGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGCCTCCTCAGCCGCCGCCGG
TCCCTGCGCCTCAACCGCAGCAGTCGCCGGCGCCACGGCCTCAGTCACCTGCCCCGCGCGAGGGAGGAAGAGAACT
ACTCCTTTTTTACCTTTGGTTTACAACATCATCAAATGGTTAAGAACCTAGGAGAGGACCAGGCCCCATACTCCCTC
CAGCTTCTCCTCTCAGCCGTTTCAGAGCTGCAAGAGGCCTTGGCGCTCTGGGGCACGCCCCCGTTTCACAGATGG
GGAAACTCAGACCCAGAGCGGGAAGAGGCCTTTCCCAAGACCACAGAGACATTCCATGAGTTAAGCAAACGATTT
GAGCCTCGAGAGGTGCGATATCCTTAAGAATGAAGCCAGCTTAGAGACTAAATGCAGACTCTTGTCCAGCGGCTC
AAATGTTTCATCCCAGCGATCTTGAGCAAATTAAATCTCTTTAAGCCGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4740

MASAGVAAGRQAEDVLPPTSDQPLPDTKPLPPFQPPFVPAPQQSPAPRPQSPARAREEENYSFLPLVHNIKW

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FIGURE 4741

GCCCTGCCAGCCCCAGACAAGGGCACAGAAAACAGCCAGGCCACACCAACTACAGCAGCTATTCCAAGCGGAAGCG
CCTCACTCGGGGCGGGGCCAAGAACACCACCTCTTCACCCTGTAAGGGGCGTGCCAAGCGACGACGACAGCAGCA
GGTGCTGCCCCCTGGATCCCGCAGAGCCTGAAATCCGCCTCAAGTACATTTCTCTTGCAAGCGGCTGAGGTCAGA
CAGCCGGACCCCCGCCTTCTCACCCCTTCGTGCGGGTGGAGAAGCGAGACGCGTTACCACCATATGCACTGTTGT
CAACTCCCCCTGGAGATGCGCCCAAGCCCCACAGGAAGCCTTCCTCCTCTGCCTCCTCTTCCTCATCCTCGTCTC
GTTCTCCTTGGATGCAGCCGGGGCCTCCCTGGCCACACTCCCTGGAGGCTCCATCCTGCAGCCGCGGCCCTCCTT
GCCCCCTCTCCTCCACGATGCACTTGGGGCCTGTGGTTTCCAAGGCCCTGAGTACCTCTTGCCCTGTTTGCTGCCT
CTGCCAAAACCCGGCCAACTTCAAGGACCTTGGGGACCTCTGTGGGGCCTACTACCCTGAACACTGCCTCCCCAA
AAAGAAGCCAAAACCTCAAGGAGAAGGTGCGGCCAGAAGGCACCTGTGAGGAGGCCTCGCTGCCGCTTGAGAGAAC
ACTCAAAGGTCCCAGTGTGCAGCTGCCGCCACTGCCGGGAAGCCCCCAGGCCTGACGGCCAGCTGACCCGGC
CAAGCAGGGCCCACTGCGCACCAAGTGCCCGGGGCTGTCCCGGAGGCTGCAGAGCTGCTACTGCTGTGATGGCCG
GGAGGATGGGGGCGAGGAGGCAGCCCCAGCCGACAAGGGTCGCAAACATGAGTGCAGCAAGGAGGCTCCGGCAGA
GCCCCGCGGGGAGGCCAGGAGCACTGGGTGCATGAGGCCTGTGCCGTGTGGACCGGCGGCGTCTACCTGGTGGC
CGGGAAGCTCTTTGGGCTGCAGGAGGCCATGAAGGTGGCCGTGGACATGATGTGTTCCAGCTGCCAAGAAGCCGG
GGCCACCATTTGGGTGCTGCCACAAAGGATGCCTCCACACCTACCCTACCCGTGTGCCAGCGATGCAGGTTGCAT
ATTATCGAAGAGAACTTTTCTTTGAAATGTCCCAAAACATAAGAGGCTGCCGTAGTAATCCACCCCCAACGGCCGG
AGGAGCCGCCGGAGCCCGCCTGCCCGCCCGCCGCGAAGGAGAGGAGCCGCTGCGCAGCCCCCGGGCCTTTGAG
CTGCTCCCAGCGCTGGTCCAGAGCCGATCCTTGATCCGGGTCCCGGATCGTGATCCGGCCGCTAGGGCTCAGA
CTTGCGGCCCCGGGTTGGGAGGAAAACCCGTTCCGGAGCCGCCTGCTCCCGGAACCGGACGGCACAGGGCGTTCT
TGCCACCCCCAGGGGCCAGGCTTGCGGAGGGGGAGCCCGCGGAGCGGCCAGACTCCCCGGGGCGCTCAGCCTCCG
GCGAGGGTGGGAGACGGCTTTGTCTGGGGACACTTTCCCTCTGGAATCTCAAGACGACGTGGCACACATTCCAC
GTGGGTGCTGCCGCCACCCAGTCGGTCGTGGCGTGCACTGGGAGCCCTGGGCTTGGGGGTGGGGGTGAAACA
GTACTGGAAGAGGCGGAGGGCGGCTCCTAGCTCCGTGGACTAGGCGGGGAGAAAGGAAGCCTTTCTGAGAGCGG
GCTAGGCCCGCACTGGAGAGGCCGAGCCTTTGGAACAAACCGTGCAGAACGCGTCCAGGGGCCTTCCCGCCAG
CCTTTGCCAGATCTCTCGTGCCTTCGGGCAAAGCCGGGGTAGACCTGGGCTATGCTCAGTTAGGGGTTGCGGGA
TCCCCGAGTGTGGGCGGGACTGGGACACCCTTTGGCCTCTGTTTGTCCCTTTCCAGTCTCCACCCACCCCTG
GAGCCCAGCCTGGGAGCGCAAAACCCAAGAAGCGGCCAGAACGCACCTCCGGCTCCGGCGGACGCGCGACCGTTG
TGCACCAACAGGGACCGCGCGCCTACTCTGCACGGGAGCAGGGACAGCGCTAGATTTCTGTGTACAAAACCTGTG
TACCCCTCTATATATATGTTACATAGAATGTATATATGTTGGGAACATGCTCGCTTCTCCCGTGTGTGCGCGCG
TGCGTCGTGCGCCGCAACAGAGCCCCAACCGGGCCTTTGCCGGGTAAGGGGCTACCGCGACGCCACTTGTCCAC
GCAGCCACCACCGGCCCGGGCCAGTCCCTGCCAGTCCGTCCGCCTGTCCGTCCGTGTCTCAGCTCTGTCCACGC
TTCGATAGGCCTGACGCAGCCCCCAGCCCAGGGCCGCCCTAGCAACTTCCTGTACATATGACTGTAAAATGGTAA
ACGTGTGTATTATATCTGGCCTCGTTATATAGTGTATATATATGTATACATATACATATATATAATATATATGAA
GACTGTAAATGTTAAGACGACTAGTGTTCTTATTAGTATATTGCTTCACACTGAAGATTGTGTGTATCGAGCTGT
TTCTAAAAGATGTTTATTTTCCTTAAGAGTAAAAAACAGTCATTGCATTGAGAAAAAAAAAAAAAAAAAAGTCAA
TAAAGATACAACGATTGTTTTGAAAAA

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FIGURE 4742A

TAACGAGGAACTTTTCGCCGGCGCCGGGCGCCTCTGAGGCCAGGGCAGGACACGAACGCGCGGAGCGGCGGCGG
CGACTGAGAGCCGGGGCCGCGGCGGCGCTCCCTAGGAAGGGCCGTACGAGGCGGCGGGCCCCGGCGGGCCTCCCGG
AGGAGGCGGCTGCGCC**ATG**GACGAGCCACCCTTCAGCGAGGCGGCTTTGGAGCAGGCGCTGGGCGAGCCGTGCGA
TCTGGACGCGGCGCTGCTGACCGACATCGAAGACATGCTTCAGCTTATCAACAACCAAGACAGTGACTTCCCTGG
CCTATTTGACCCACCCTATGCTGGGAGTGGGGCAGGGGGCACAGACCCTGCCAGCCCCGATACCAGCTCCCCAGG
CAGCTTGTCTCCACCTCCTGCCACATTGAGCTCCTCTCTTGAAGCCTTCCTGAGCGGGCCGAGGCAGCGCCCTC
ACCCCTGTCCCCCTCCCCAGCCTGCACCCACTCCATTGAAGATGTACCCGTCCATGCCCCGCTTTCTCCCCTGGGCC
TGGTATCAAGGAAGAGTCAGTGCCACTGAGCATCCTGCAGACCCCCACCCACAGCCCCTGCCAGGGGGCCCTCCT
GCCACAGAGCTTCCCAGCCCCAGCCCCACCGCAGTTTCAGCTCCACCCCTGTGTTAGGCTACCCCAGCCCTCCGGG
AGGCTTCTCTACAGGAAGCCCTCCCGGGAACACCCAGCAGCCGCTGCCTGGCCTGCCACTGGCTTCCCCGCCAGG
GGTCCCCGGCGCTCTCCTTGACACCCAGGTCCAGAGTGTGGTCCCCCAGCAGCTACTGACAGTCACAGCTGCCCC
CACGGCAGCCCCGTGAACGACCACTGTGACCTCGCAGATCCAGCAGGTCCCGTCTCTGCTGCAGCCCCACTTCAT
CAAGGCAGACTCGTGTCTTCTGACAGCCATGAAGACAGACGGAGCCACTGTGAAGGCGGCAGGTCTCAGTCCCCCT
GGTCTCTGGCACCCTGTGCAGACAGGGCCTTTGCCGACCCTGGTGAGTGGCGGAACCATCTTGGAACAGTCCC
ACTGGTCGTAGATGCGGAGAAGCTGCCTATCAACCGGCTCGCAGCTGGCAGCAAGGCCCGGCTCTGCCAGAG
CCGTGGAGAGAAGCGCACAGCCACAACGCCATTGAGAAGCGCTACCGCTCCTCCATCAATGACAAAATCATTGA
GCTCAAGGATCTGGTGGTGGGCACTGAGGCAAAGCTGAATAAATCTGCTGTCTTGCGCAAGGCCATCGACTACAT
TCGCTTTCTGCAACACAGCAACCAGAACTCAAGCAGGAGAACCTAAGTCTGCGCACTGCTGTCCACAAAAGCAA
ATCTCTGAAGGATCTGGTGTGGCCTGTGGCAGTGGAGGGAACACAGACGTGCTCATGGAGGGCGTGAAGACTGA
GGTGGAGGACACACTGACCCCCACCCCTCGGATGCTGGCTCACCTTTCCAGAGCAGCCCCCTGTCCCTTGGCAG
CAGGGGCAGTGGCAGCGGTGGCAGTGGCAGTGACTCGGAGCCTGACAGCCAGTCTTTGAGGACAGCAAGGCAAA
GCCAGAGCAGCGGCCGTCTCTGCACAGCCGGGGCATGCTGGACCGCTCCCGCCTGGCCCTGTGCACGCTCGTCTT
CCTCTGCCTGTCTGCAACCCCTTGGCCTCCTTGCTGGGGGGCCGGGGCTTCCAGCCCCCTCAGATACCACCAG
CGTCTACCATAGCCCTGGGCGCAACGTGCTGGGCACCGAGAGCAGAGATGGCCCTGGCTGGGCCCAGTGGCTGCT
GCCCCCAGTGGTCTGGCTGCTCAATGGGCTGTTGGTGCTCGTCTCCTTGGTGCTTCTCTTTGTCTACGGTGAGCC
AGTCACACGGCCCCACTCAGGCCCGCCGTGTACTTCTGGAGGCATCGCAAGCAGGCTGACCTGGACCTGGCCCCG
GGGAGACTTTGCCCAGGCTGCCCAGCAGCTGTGGCTGGCCCTGCGGGCACTGGGCCGGCCCCCTGCCACCTCCCA
CCTGGACCTGGCTTGTAGCCTCCTCTGGAACCTCATCCGTACCTGCTGCAGCGTCTCTGGGTGGGCCGCTGGCT
GGCAGGCCGGGCAGGGGGCTGCAGCAGGACTGTGCTCTGCGAGTGGATGCTAGCGCCAGCGCCGAGACGCAGC
CCTGGTCTACCATAGCTGCACCAGCTGCACACCATGGGGAAGCACACAGGCGGGCACCTCACTGCCACCAACCT
GGCGCTGAGTGCCCTGAACCTGGCAGAGTGTGCAGGGGATGCCGTGTCTGTGGCGACGCTGGCCGAGATCTATGT
GGCGGCTGCATTGAGAGTGAAGACCAGTCTCCCACGGGCTTGCAATTTCTGACACGCTTCTTCTGAGCAGTGC
CCGCCAGGCCCTGCCTGGCACAGAGTGGCTCAGTGCTCCTGCCATGCAGTGGCTCTGCCACCCCGTGGGCCACCG
TTTCTTCGTGGATGGGGACTGGTCCGTGCTCAGTACCCCATGGGAGAGCCTGTACAGCTTGGCCGGGAACCCAGT
GGACCCCTGGGCCAGGTGACTCAGCTATTCCGGGAACATCTCTTAGAGCGAGCACTGAACTGTGTGACCCAGCC
CAACCCAGCCCTGGGTGAGCTGATGGGGACAAGGAATTCTCGGATGCCCTCGGGTACCTGCAGCTGCTGAACAG
CTGTTCTGATGCTGCGGGGGCTCCTGCCCTACAGCTTCTCCATCAGTTCCAGCATGGCCACCACCACCGGCGTAGA
CCCGGTGGCCAAGTGGTGGGCTCTCTGACAGCTGTGGTGTATCCACTGGCTGCGGCGGGATGAGGAGGCGGCTGA
GCGGCTGTGCCGCTGGTGGAGCACCTGCCCGGGTGTGCAGGAGTCTGAGAGACCCCTGCCAGGGCAGCTCT
GCACTCCTTCAAGGCTGCCCCGGGCCCTGCTGGGCTGTGCCAAGGCAGAGTCTGGTCCAGCCAGCCTGACCATCTG
TGAGAAGGCCAGTGGGTACCTGCAGGACAGCCTGGCTACCACACCAGCCAGCAGCTCCATTGACAAGGCCGTGCA
GCTGTTCTGTGTGACCTGCTTCTTGTGGTGGCACCAGCCTGTGGCGGCAGCAGCAGCCCCCGGCCCGGCCCC
AGCAGCCCAGGGCGCCAGCAGCAGGCCCCAGGCTTCCGCCCTTGAGCTGCGTGGCTTCCAACGGGACCTGAGCAG
CCTGAGGCGGCTGGCACAGAGCTTCCGGCCCGCCATGCGGAGGGTGTTCCTACATGAGGCCACGGCCCGGCTGAT
GGCGGGGGCCAGCCCCACACGGACACACCAGTCTCTGACCGCAGTCTGAGGCGGCGGGCAGGCCCGGTGGCAA
AGGAGGCGCGGTGGCGGAGCTGGAGCCGCGGCCACGCGGCGGGAGCACGCGGAGGCCTGTGCTGGCCTCCTG
CTACCTGCCCCCGGCTTCTGTGCGCGCCGGGCAGCGCTGGGCATGCTGGCTGAGGCGGCGCGCACACTCGA
GAAGCTTGGCGATCGCCGGCTGCTGCACGACTGTCAGCAGATGCTCATGCGCCTGGGCGGTGGGACCACTGTCAC

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FIGURE 4742B

TTCCAGCTAGACCCCGTGTCCTCCGGCCTCAGCACCCCTGTCTCTAGCCACTTTGGTCCCGTGCAGCTTCTGTCCT
GCGTCGAAGCTTTGAAGGCCGAAGGCAGTGCAAGAGACTCTGGCCTCCACAGTTCGACCTGCGGCTGCTGTGTGC
CTTCGCGGTGGAAGGCCCGAGGGGCGCGATCTTGACCCTAAGACCGGCGGCCATGATGGTGCTGACCTCTGGTGG
CCGATCGGGGCACTGCAGGGGCCGAGCCATTTTGGGGGGCCCCCTCCTTGCTCTGCAGGCACCTTAGTGGCTTT
TTTCCTCCTGTGTACAGGGAAGAGAGGGGTACATTTCCCTGTGCTGACGGAAGCCAACCTTGGCTTTCCCGGACTG
CAAGCAGGGCTCTGCCCCAGAGGCCTCTCTCTCCGTCGTGGGAGAGAGACGTGTACATAGTGTAGGTCAGCGTGC
TTAGCCTCCTGACCTGAGGCTCCTGTGCTACTTTGCCTTTTGCAAACCTTATTTTCATAGATTGAGAAGTTTGT
ACAGAGAATTAAAAATGAAATTATTTATA

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FIGURE 4743

MDEPPFSEAALEQALGEPCDLDAALLTDIEDMLQLINNQSDSDFPGLFDPPYAGSGAGGTDPASPD TSSPGSLSP
PATLSSSLEAFLSGPQAAPSPLSPPQPAPTPLKMYPSMPAFSPGPGIKEESVPLSILQTPTPQPLPGALLPQSFP
APAPPQFSSTPVLGYPSPPGGFSTGSPPGNTQQPLPGLPLASPPGVPPVSLHTQVQSVVPQQLLTVTAAPTAAPV
TTTVTSQIQQVPVLLQPHFIKADSLLLTAMKTDGATVKAAGLSPLVSGTTVQTGPLPTLVSGGTILATVPLVDA
EKLPI NRLAAGSKAPASASQSRGEKRTAHNAIEKRYRSSINDKIIELKDLVVGTEAKLNKSAVLRKAIDYIRFLQH
SNQKLKQENLSLRTAVHKSLSLKDLSACSGGNTDVLMEGVKTEVEDTLTPPPSDAGSPFQSSPLSLGSRGSGS
GGSGSDSEPDSPVFEDSKAKPEQRPSLHSRGM LDRSRLALCTLVFLCLSCNPLASLLGARGLPSPSDTTSVYHSP
GRNVLGTESRDGPGWAQWLLPPVVWLLNGLLVLSLVLLFVYGEVTRPHSGPAVYFWRHRKQADLDLARGDFAQ
AAQQLWLALRALGRPLPTSHLDLACSLWNLI RHLLQRLWVGRWLAGRAGGLQQDCALRVDASASARDAALVYHK
LHQLHTMGKHTGGHLTATNLALSALNLAECAGDAVSVATLAEIYVAAALRVKTS LPRALHFLTRFFLSSARQACL
AQSGSVPPAMQWLCHPVGHRFFVDGDWSVLSTPWESLYSLAGNPVDPLAQVTQLFREHLLERALNCVTQPNPSPG
SADGDKEFSDALGYLQLLNSCSDAAGAPAYSFSISSSMATTTGVDPVAKWWASLTAVVIHWRRLRDEEAAERLCPL
VEHLPRVLQESERPLPRAALHSFKAARALLGCAKAESGPASLTICEKASGYLQDSLATTPASSSIDKAVQLFLCD
LLL VVRTSLWRQQQPAPAPAAQGASSRPQASALELRGFQORDLSSLRRLAQSF RPAMRRVFLHEATARLMAGASP
TRTHQLLDRSLRRRAGPGGKGGAVAELEPRPTRREHAEALLASCYLPPGFLSAPGQRVGMLAEAAARTLEKLGDR
RLLHDCQQMLMRLGGGTTVTSS

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FIGURE 4744

AGGTCTGTTCCGCATGAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGACCAA
GATCTTCCACCCGAACTTGGGCGCCAATGGCGAGATGTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTGAGCT
GGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACGAGGA
GGCGGGCCGCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACGGGGG
CGCCGGCGGGCCAGCGGCAGGGCCAAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCCTCCACCGACTC
TGGGGCCCCAGGGGGCTTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGAAGCT
GGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTACGGCGGCTGTAGTGGGCTCTCTTCCTCCTTCCACCGTG
ACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGAGGGT
ACAGGGGGCACTGAGACCTGGATTGTGTTTTTTTAAATAAAGTTGAAAAAGCA

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FIGURE 4745

TTTCTCTGGAGGAGCTCCGCGCGTGGCGAGTCTGTGTCTCCCTGTCCCCAGAGCAGAGAACCCTCTCTGTGTC
TGGACCGGGGAGGAGCAGACGCTGGACAGGGTGTGTGTGTTTCAGCAGTGGATTGTCAGACTTGGGGTCCCGGCTG
CTCCCTTTTGGGTCTCTCCCCGGGCGCTGATCTGACTGTAATTCCTTCTGCTGGAGCTAGGGTTCCGGCCACCT
TGACGCGCCCCCTCTGCCCCGGAGCGTGTCTTTGGGTTTTGTGTGTGTGGGAGTGGGGTGTATGTGTGTTTCTT
ATCCGAGACACCTCCGGGTCGTTTGCTTGAAACCGGCTGAGGGCCCGCACAGCCTGGAGCATTGGTTGGAAG
TGAGGCAGGTAGCGCCCCAAGGCTCCTGTACCAGGGCCAGGTTAGGCACCAACGCGTCCCTTATGTCTCTGCAGCC
TGCAGTGTGGTGAACCGTTTTATAGACTGACAGTGTGAACGTGGGAGGGGATGGATATCAGAGACCCGTTTATC
CACATTTTCAGAGAGTGGTATTGCTCCGATGTGAGTGTAGGCAGGTTACTCTCTGTGTCTCGTGTCTTTACCTG
TAATTTGAGGTTTGTGTACCTACTTTTAAGTGGTGGTTGTGAGGATTAAATGGAATTTTGACATGCAACAGTTG
ACACAGGGCCAGACACCAAGTAAGGGATCAATCAGTTGTTGCTTTTATTAATAGTAGGCATCCATCTGCCACTT
GTACGTAAGAAGGAAACACCCAAGAATGAAAAGTAGCTTGTGTAGGTCACCCAGCCAACTAGCACATAGGGGAA
ATTAGAATCCAGGCACTCCAGCAGGGCACTTCCACCACCCTGCACCTTTGTATTTCATCAGGCACAATATCCTT
ACTGTTGTCTGTAAGTGTCTATGTTCCAGTGTCTGACTCTGCAGGGCCCTGGTGGTATAAAGGTACTGAGACTT
GCCTGTGTTTGGGCTTCTGAAGATTAAATGGCTGCTGAAGTTCTTGAGTTTAGCTTTAGCTCAAAAGATACTG
CGTCAGACTCTGCGTTCTGAGTAGAGTCTCAGACAATGAAAAAGAAATACAATGAAAAAGGGGAAAACCTCAAT
CCAGAATCTCTTGCCACAGTTTTTGGCAGAATGCTGGCAATCCAGGAAGATATGTGGAGAACGGAAAGGTTGC
TACACCCAAATAGTGGCGCAAAGGCTATGATTATGGAGGATTGGACCTGCAAACCTCCAGAACAGAGTTCTGCCCT
CTGAGGACCCCTGCCCTTTCCCAAAGGGGTATCTTAAGAAGGAAAATATGGCTGCTCTTTGCCGGACAGCAGAGT
CCCAGAGGCTGAACTCCAGTGCACCCAGTTAGACTTGGAGCGGAACTCAAGTTGAATGAAAATGCCATCTCCAG
GCTCCAGGCTAACCAAAAGTCTGTTCTGGTGTGCGTGTGAGAGGTCAAAGCAGTGGCTGAAATGCAGTTTGGGGA
ACTCCTTGCTGCTGTGAGGAAGGCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAG
CCAGGCCAACGGTATCAAGGCCACCTGGAGTACAGGAGTGCCGAGATGGAGAAGAGTAAGCAGGAGCTGGAGAC
GATGGCGGCCATCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAGAACTGAAGACATCACCTT
CCCTAGTGTTTACATAGGGCTGAAGGATAAACTCTCGGGCATCCGCAAAGTTATCACGGAATCCACTGTACACTT
AATCCAGTTGCTGGAGAAGTATAAGAAAAAGCTCCAGGAGTTTTCCAAGGAAGAGGAGTATGACATCAGAACTCA
AGTGTCTGCCATTGTTTCAGCGCAAATATTGGACTTCCAAACCTGAGCCCAGCACCAGGGAAACAGTTCTCCAATA
TGTGCATGACATCACGTTTCGACCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCGCAAGGTCAC
CAACACCACGCCCTGGGAGCATCCCTACCCGGACCTCCCCAGCAGGTTCTGCACTGGCGGCAGGTGCTGTCCCA
GCAGAGTCTGTACCTGCACAGGTACTATTTTGGGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTG
CAAAGGCATCGACCAGAAAGGGGAGGAGCGCAGCAGTTGCATTTCGGGAAACAATTCTCCTGGAGCCTCCAATG
GAACGGGAAGGAGTTACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCTTTCTGGAGGCTCGG
GGTCTATATTGACTTCCCAGGAGGGATCCTTTCTTCTATGGCGTAGAGTATGATTCCATGACTCTGGTTACAA
GTTTGCCTGCAAGTTTTTCAGAACCAGTCTATGCTGCCTTCTGGCTTTCCAAGAAGGAAAACGCCATCCGGATTGT
AGATCTGGGAGAGGAACCCGAGAAGCCAGCACCGTCTTGGTGGGGACTGCTCCCTAGACTCCAGGAGCCATATC
CCAGACCTTTGCCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTTGGGGGCAAAATAACTGCTGATGGTA
GCTGGCTTTTGAAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGTCTCCATATGGTGCT
GTTCTCTATGTGTTTGCAGTAATTCTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCACTGTTGCCAGGCTGGA
GTGCAGTGGCGTGATCTTGGCTCACTGCAAGCTCCGCCTCCCGAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCG
AGTAGCTGGGATTACAGGTGCCTGCCACCACACCCAGCTAACGTTTTGTATTTTATAGTAGAGATGGGGTTTCACC
ATGTTGGCCAGGCAGATCTCAAACCTTGACCTCGTGATGCACTCACCTCGGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACTGCGCCCTGCCTGTTTGTAGTAATTTTATAGCACCAAATCTCCCTCATCTTCTAGTGCCATTC
TCCTCTCTGTTTCAGGTAAATGTCACACTGTGCCAGAATGGATGACCAGGAACCTTCAAGAGTGGCTGAAAAGAT
TGCAGAGTTATCATAATAAATTGCTAAGTTGCGTATTTCT

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FIGURE 4746

MQFGELLA AVRKAQANV MLFLEEKEQAALSQANGIKAHLEYRSAEMEKS KQLEETMAAISNTVQFLEEYCKFKNT
EDITFPSVYIGLKD KLSGIRKVITESTVH LIQ LLENYKKKLQEF SKEEEYDIRTQVSAIVQRKYWTSKPEPSTRE
QFLQYVHDITFD PDTAHKYLRLQEENRKVTNTTPWEHPYDLP SRFLHWRQVLSQQSLYLHRYFFEVEIFGAGTY
VGLTCKGIDQKGEERSSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFWRLGVYIDFP GGILSFYGV EYDSM
TLVHKFACKFSEPVYA AFWLSKKENAIRIVDLGEEPEKPAPSLVGTAP

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FIGURE 4747

ACTGCCGGCCTGCGCGGTACTCACTGCCGGCCTCCGCGGTACCCACTGCCGGCCTCCGCGCTACCCGGCCGCAGC
GCGCGAGTCAC**ATG**GGAAGCTCCTGAGGAGCCCGCGCCAGTGCGCGGAGGCCCGGAGGCCACCCTTGAGGTCCGTG
GGTCCGCTGCTTGCGGCTGTCCGCCTTCCGAGAAGAGCTGCGGGCGCTCTTGGTCTGGCTGGCCCCGCGTTCT
TGGTTCAGCTGATGGTGTTCCTGATCAGCTTCATAAGCTCCGTGTTCTGTGGCCACCTGGGCAAGCTGGAGCTGG
ATGCAGTCACGCTGGCAATCGCGGTTATCAATGTCAGTGGTGTCTCAGTGGGATTTCGGCTTATCTTCTGCCTGTG
ACACCCTCATCTCCCAGACGTACGGGAGCCAGAACCTGAAGCACGTGGGCGTGATCCTGCAGCGGAGTGCGCTCG
TCCTGCTCCTCTGCTGCTTCCCTGCTGGGCGCTCTTTCTCAACACCCAGCACATCCTGCTGCTCTTCAGGCAGG
ACCCAGATGTGTCCAGGCTTACCCAGACCTATGTCACGATCTTCATTCCAGCTCTTCCCTGCAACCTTTCTTTATA
TGTTACAAGTTAAATATTTGCTCAACCAGGGAATTGTACTGCCCCAGATCGTAAGTGGAGTTGCAGCCAACCTTG
TCAATGCCCTCGCCAACCTATCTGTTTCTCCATCAACTGCATCTTGGGGTGATAGGCTCTGCACTGGCAAACCTTGA
TTTCCCAGTACACCCTGGCTCTACTCCTCTTTCTCTACATCCTCGGGAAAAAACTGCATCAAGCTACATGGGGAG
GCTGGTCCCTCGAGTGCCTGCAGGACTGGGCCTCCTTCCCTCCGCTGGCCATCCCCAGCATGCTCATGCTGTGCA
TGGAGTGGTGGGCCTATGAGGTGCGGAGCTTCCTCAGTGGCATCCTCGGCATGGTGGAGCTGGGCGCTCAGTCCA
TCGTGTATGAACTGGCCATCATTGTGTACATGGTCCTTGCAAGGCTTCAGTGTGGCTGCCAGTGTCCGGGTAGGAA
ACGCTCTGGGTGCTGGAGACATGGAGCAGGCACGGAAGTCTCTACCGTTTCCCTGCTGATTACAGTGTCTTTG
CTGTAGCCTTCAGTGTCTGCTGTAAAGCTGTAAGGATCACGTGGGGTACATTTTTACTACCGACCGAGACATCA
TTAATCTGGTGGCTCAGGTGGTTCCAATTTATGCTGTTTCCACCTCTTTGAAGCTCTTGCTTGCACGAGTGGTG
GTGTTCTGAGGGGGAGTGGAAATCAGAAGGTTGGAGCCATTGTGAATACCATTGGGTACTATGTGGTTGGCCTCC
CCATCGGGATCGCGCTGATGTTTGCAACCACACTTGGAGTGATGGGTCTGTGGTCAGGGATCATCATCTGTACAG
TCTTTCAAGCTGTGTGTTTTCTAGGCTTTATTATTACAGCTAAATTGGAAAAAAGCCTGTCAGCAGGCTCAGGTAC
ACGCCAATTTGAAAGTAAACAACGTGCCTCGGAGTGGGAATTCTGCTCTCCCTCAGGATCCGCTTCACCCAGGGT
GCCCTGAAAACCTTGAAGGAATTTTAAACGAACGATGTTGGAAAGACAGGCGAGCCTCAGTCAGATCAGCAGATGC
GCCAAGAAGAACCTTTGCCGGAACATCCACAGGACGGCGCTAAATTGTCCAGGAAACAGCTGGTGCTGCGGCGAG
GGCTTCTGCTCCTGGGGGTCTTCTTAATCTTGCTGGTGGGGATTTTAGTGAGATTCTATGTCAGAATTCAG**TGAC**
GTGGTAGGAAAGAAAGTCAGGTGAGTGATGCTTTTGAGCTTACACACAATTCACAGGCCACCAGTGACAATTT
ACTGTGAGTTAATGTCATTACAGGTGTGCCCATGGATTTTGAGGGCTGGAAATGCAAAGACACATTTTTCTATAAA
AAGAAAAAGCAACTAAGGTTAAAAGCTATATTGTGGCCCAAGACACTGTCTGAAAGATGACATGAGTAGTAATTC
ACCACTATCTGAACCAAGCAAGGATCAATGTGCTGACTGCATTGGCCAATGGCTTTGATACTTCTGCTATTTTTT
TAGACACAAACCCATAAACTAACTGCTTAAGAATTCATACTGCTTGAATTATGTAAAATATATTTTACAGTATAT
CTTTCCTTGGGCCTTAGATTACTATTCACTGGGCAAATGGTATTTGTTTTGTTTTAATTTTTTTTTTAATAGAC
GGAAGTCTTGCTCTGTATGCAGGCTGGAGTGCGGTGGTGCATCATAGCTCACTGCAGCCTCGAACTCTTGGGC
TTCAAGCAATCCTCCTGTGTGTCAGCCACCAGAGTAGCTGAGACTACAGGGGTATGCCACCATGCCAGCTGGCATT
TGTTAATCTTCATTTGAGGTCTAGATCTAGGCACTGTGGACACTGAAAAACAGTTGGGAAATCTTTCGAGCTGTG
GAAATCCAAACAAAGACTGATAATTCTGCTAGGGGTGTGTGCGTGACGTACTGCAGCCTCAACCTCCTGGGCTC
AAGTGATCCTCCACCTCAGCCTCCTGAGTAGCTGAGACCACAGGCGTGTGCCACCACGCCTAGCTAATTTTTTA
TACCAGGGTCTACCCTTTGTTTCCCAGGCTGGTCTTGAATTCCTGGGATCAAGCAATCCTTCCACCTTGCCCTCC
CAAAGTGTTGGGATTATAGGCATGAGCCACCAGACTGGCCAGAGGACAAAATTTTAATAAAGGTCCTTAGCTTAA
GCAGTAATCCTACTTCATTAAGCCTTCTGGGGTGCGGTACACACCGTTAATTCAGCAACCTCAGTACATACTA
AGTATGCTCAGTGTGTGAAAGTGGATTACACCAAATTAAGTCATTCTTATCACACCCAATCAAAAAGTCAAGAAG
CCAGGGATAAAAGCACCTCAGGCACATAACATTAATCTAGTAATGTAATTCCTCTGCACATCCAGCTGGTGAAACT
GCGTGCTGTAAGCTGGGACCAGCTTTGTCCATAACTGCTGAGAGAAGTTGCTGAAGCTCTAGGAATAATTTTGCC
TGCCCGGTTGCTCACCAGTTGTAGCTTGCCAGCTCCCCAACCCCTTCTGGTGCCAATAAACTTTCTCAAAGAGC
AATACTGACATTTCTTTTGATAAAACCTCCAGCCTTCTCTGTGTTGTTCCGACATACCGAGGACCAACTGGTCTA
CATGGATGCCCTGAACATGCAATTCTTTCTTCCAAAATAAAACATTAAATAGAG

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FIGURE 4748

MEAPEEPAPVRGGPEATLEVRGSRCLRLSAFREELRALLVLAGPAFLVQLMVFLISFISVFCGHLGKLELDAVT
LAIAVINVTGVSFGLSSACDTLISQTYGSQNLKHVGIVLQRSALVLLCCFPCWALFLNTQHILLFRQDPDV
SRLTQTYVTIFIPALPATFLYMLQVKYLLNQGIVLPQIVTGVAANLVNALANYLFLHQLHLGVIGSALANLISQY
TLALLFLYILGKKLHQATWGGWSLECLQDWASFLRLAIPSMMLCMEWWAYEVGSFSLSGILGMVELGAQSIVYE
LAIIVYMLAGFSVAASVRVGNALGAGDMEQARKSSTVSLITVLFVAFSVLLSCKDHVGYIFTTDRDIINLV
AQVVPFIYAVSHLFEALACTSGGVLRSGNQKVGAIVNTIGYYVVGLPIGIALMFATTLGVMGLWSGIIICTVFQA
VCFLGFIIQLNWKKACQQAQVHANLKVNNVPRSGNSALPQDPLHPGCPENLEGILTNDVGKTGEPQSDQQMRQEE
PLPEHPQDGAKLSRKQLVLRRLGLLLGVFLILLVGILVRFYVRIQ

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FIGURE 4749

CTCTGAGCAGAACTGACAGCATGAAGGCACTCCTGGCCCTGCCGCTGCTGCTGCTTCTCTCCACGCCCCCGTGTG
CCCCCAGGTCTCCGGGATCCGAGGAGATGCTCTGGAGAGGTTTTGCCTTCAGCAACCCCTGGACTGTGACGACA
TCTATGCCCAGGGCTACCAAGTCAGACGGCGTGTACCTCATCTACCCCTCGGGCCCCAGTGTGCCTGTGCCCGTCT
TCTGTGACATGACCACCGAGGGCGGGAAGTGGACGGTTTTCCAGAAGAGATTCAATGGCTCAGTAAGTTTCTTCC
GCGGCTGGAATGACTACAAGCTGGGCTTCGGCCGTGCTGATGGAGAGTACTGGCTGGGGCTGCAGAACATGCACC
TCCTGACACTGAAGCAGAAGTATGAGCTGCGAGTGGACTTGGAGGACTTTGAGAACAACACGGCCTATGCCAAGT
ACGCTGACTTCTCCATCTCCCCGAACGCGGTGACGCGAGAGGAGGATGGCTACACCCTCTTTGTGGCAGGCTTTG
AGGATGGCGGGGAGGTGACTCCCTGTCTCTACCACAGTGGCCAGAAGTTCTCTACCTTCGACCGGGACCAGGACC
TCTTTGTGCAGAACTGCGCAGCTCTCTCTCAGGAGCCTTCTGGTTCCGCAGCTGCCACTTTGCCAACCTCAATG
GCTTCTACCTAGGTGGCTCCACCTCTCTTATGCCAATGGCATCAACTGGGCCCAGTGGAAAGGGCTTCTACTACT
CCCTCAAACGCACTGAGATGAAAATCCGCCGGGCTGAAGGGCTGGCCCCCTCAGGCACCTTTCTCCCTGGAC
ACCCATGGTCTCCATGAGTGCTCCCTCTGCTGCCCCCTGATGCATGCTTCTGCTGATTCCCGAGCACCAACTCCTT
ACAAGGGGGGCTTGTGGCTCTCAGCCATGCCACATCCCTGTACACACCCAGGGCATCCATTCTTAAGCCAGACC
CGGCTCCCCCTACACCTGAAGTTACACTGCCAGCAGTTCCCCAGGCCTCTTCCGAGAGGCACATGGTTCTAGCCTG
GACCTGGCTGGGCTCCATGAGAATGAGTTGCCTCCACCCTGTCCCAACAGCTGACAGCCAGGAGCCACTCTCCCA
GCTGCAGGCCTTTGTGGTCCATCTTGTCTGCTTCTCACTGTGGACCCCTGTCTGGGCCACCCTAGTGTGCTAA
GCTGAGCAGTGCAGTGTGAACAGGGCCCATGGTGTATTCTAGGCCACAGCCCAGCACTCCTCTGGGCTGCTCTCA
AACCATGTCCCATCTTCAGCATCCCTCCCACCAACTTACTCCCCTGTGGTGAGTACCGTGGAACCCAGCCCACC
TCACTATCATACTCAGCTTCCCCTGATGGCCCATCCCAGCCCCCTGAAGCTCTATGCCAAGAACACAGCTACCGCA
CACCACCCTGAAACAGCCACAGCCAAGGTAGGCATGCATATGAGGTCTTCCCCATACCCTCTGGGTGTTGAGAGG
TTTAGCCACATGAGGGAGCAGAGGACAATCTCTGCAGGGCTGGGAGTGGGTAGGGACTGAAGGTCTCAATAAACC
TTCAGAACCTGAATGAACTGGCTTCATACACACAAACATATTTGTTTATCCCCCAAATGTAGGCACCTGGCTCCT
CCTTGCTCCCCTGCTGATGGTGTCTACCCCGAACTCCAAAAATTACACCTGGAGTCAGGTGCAGAAGGGAACCT
TGTATTTACAGGCCTCATTTTGTATGGCAAAAAGACAGTGTAATAATA

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FIGURE 4750

CGGAGACCCCCGCGCTGGGGACGGGAGGCCGGCGAGCCTCGGGACCTCTGAAAGCCTTGAGGAGGCGCGGGGACA
CCATGGCCGAGCCTCTGAAGGAGGAAGACGGCGAGGACGGCTCTGCGGAGCCCCCGGGCCCGTGAAGGCCGAAC
CCGCCCACACCGCTGCCTCTGTAGCGGCCAAGAACCTGGCCCTGCTTAAAGCCCGCTCCTTCGATGTGACCTTTG
ACGTGGGCGACGAGTACGAGATCATCGAGACCATAGGCAACGGGGCCTATGGAGTGGTGTCTCCGCCCCGCCGCC
GCCTCACCGGCCAGCAGGTGGCCATCAAAAAGATCCCTAATGCTTTTCGATGTGGTGACCAATGCCAAGCGGACCC
TCAGGGAGCTGAAGATCCTCAAGCACTTTAAACACGACAACATCATCGCCATCAAGGACATCCTGAGGCCACCG
TGCCCTATGGCGAATTCAAATCTGTCTACGTGGTCTTGACCTGATGGAAAGCGACCTGCACCAGATCATCCACT
CCTCACAGCCCCCTCACACTGGAACACGTGCGCTACTTCTGTACCAACTGCTGCGGGGCTGAAGTACATGCACT
CGGCTCAGGTCAATCCACCGTGACCTGAAGCCCTCCAACCTATTGGTGAATGAGAACTGTGAGCTCAAGATTGGTG
ACTTTGGTATGGCTCGTGGCCTGTGCACCTCGCCCCGTGAACATCAGTACTTCATGACTGAGTATGTGGCCACGC
GCTGGTACCGTGCGCCCGAGCTCATGCTCTCTTTGCATGAGTATACACAGGCTATTGACCTCTGGTCTGTGGGCT
GCATCTTTGGTGAGATGCTGGCCCGGCGCCAGCTCTTCCCAGGCAAAAATATGTACACCAGCTACAGCTCATCA
TGATGGTGTGGGTACCCCATCACCAGCCGTGATTGAGGCTGTGGGGGCTGAGAGGGTGCGGGCCTATATCCAGA
GCTTGCCACCACGCCAGCCTGTGCCCTGGGAGACAGTGTACCCAGGTGCCGACCGCCAGGCCCTATCACTGCTGG
GTCGATGCTGCGTTTTGAGCCCAGCGCTCGCATCTCAGCAGCTGCTGCCCTTCGCCACCCTTTCTGGCCAAGT
ACCATGATCCTGATGATGAGCCTGACTGTGCCCCGCCCTTTGACTTTGCCTTTGACCGCGAAGCCCTCACTCGGG
AGCGCATTAAAGGAGGCCATTGTGGCTGAAATTGAGGACTTCCATGCAAGGCGTGAGGGCATCCGCCAACAGATCC
GCTTCCAGCCTTCTCTACAGCCTGTGGCTAGTGAGCCTGGCTGTCCAGATGTTGAAATGCCAGTCCCTGGGCTC
CCAGTGGGGACTGTGCCATGGAGTCTCCACCACCAGCCCCGCCACCATGCCCGGCCCTGCACCTGACACCATTG
ATCTGACCCTGCAGCCACCTCCACCAGTCAGTGAGCCTGCCCCACCAAGAAAGATGGTGCCATCTCAGACAATA
CTAAGGCTGCCCTTAAAGCTGCCCTGCTCAAGTCTTTGAGGAGCCGGCTCAGAGATGGCCCCAGCGCACCCCTGG
AGGCTCCTGAGCCTCGGAAGCCGGTGACAGCCCAGGAGCGCCAGCGGGAGCGGGAGGAGAAGCGGCGGAGGCGGC
AAGAACGAGCCAAGGAGCGGGAGAAACGGCGGCAGGAGCGGGAGCGAAAGGAACGGGGGGCTGGGGCCTCTGGGG
GCCCCCTCACTGACCCCTTGCTGGACTAGTGCTCAGTGACAATGACAGAAGCCTGTTGGAACGCTGGACTCGAA
TGCCCCGGCCCGCAGCCCCAGCCCTCACCTCTGTGCCGGCCCTGCCCCAGCGCCAACGCCAACCCCAACCCAG
TCCAACCTACCAGTCCTCCTCCTGGCCCTGTAGCCCAGCCCCTGGCCCCGCAACCACAATCTGCGGGCTCTACCT
CTGGCCCTGTACCCCAGCCTGCCTGCCCACCCCTGGCCCTGCACCCACCCCACTGGCCCTCCTGGGCCCATCC
CTGTCCCCGCGCCACCCAGATTGCCACCTCCACCAGCCTCCTGGCTGCCAGTCACTTGTGCCACCCCTGGGC
TGCTGGCTCCAGCACCCAGGAGTTTTGCCTTACTTCCCACCTGGCCTGCCGCCCCAGACGCCGGGGAGCCC
CTCAGTCTTCCATGTGAGAGTCACCTGATGTCAACCTTGTGACCCAGCAGCTATCTAAGTCACAGGTGGAGGACC
CCCTGCCCCCTGTGTTCTCAGGCACACCAAAAGGGCAGTGGGGCTGGCTACGGTGTGGCTTTGACCTGGAGGAAT
TCTTAAACCAGTCTTTTCGACATGGGCGTGGCTGATGGGCCACAGGATGGCCAGGCAGATTGAGCCTCTCTCTCAG
CCTCCCTGCTTGCTGACTGGCTCGAAGGCCATGGCATGAACCCTGCCGATATTGAGTCCCTGCAGCGTGAGATCC
AGATGGACTCCCCAATGCTGCTGGCTGACCTGCCTGACCTCCAGGACCCCTGAGGCCCCAGCCTGTGCCTTGCT
GCCACAGTAGACCTAGTTCCAGGATCCATGGGAGCATTCTCAAAGGCTTTAGCCCTGGACCCAGCAGGTGAGGCT
CGGCTTGGAATTATCTGCAGGTTTCTCAGACCCACCTTTCAGCCTTAAGCAGCCACCTGAGCCACCACCGAGC
CATGGCAGGATCGGGAGACCCCAACTCCCCCTGAACAATCCTTTTCAGTATTATATTTTTATTATTATTATGTTA
TTATTACACTGTCTTTTTGCCATCAAAATGAGGCCTGTGAAATACAAGGTT

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FIGURE 4751

CCAGGAGCCCCAGTTACCGGGAGAGGCTGTGTCAAAGGCGCCATGAGCAAGATCAGCGAGGCCGTGAAGCGCGCC
CGCGCCGCCTTCAGCTCGGGCAGGACCCGTCCGCTGCAGTTCCGGATCCAGCAGCTGGAGGCGCTGCAGCGCCTG
ATCCAGGAGCAGGAGCAGGAGCTGGTGGGCGCGCTGGCCGCAGACCTGCACAAGAATGAATGGAACGCCTACTAT
GAGGAGGTGGTGTACGTCTTAGAGGAGATCGAGTACATGATCCAGAAGCTCCCTGAGTGGGCCGCGGATGAGCCC
GTGGAGAAGACGCCCCAGACTCAGCAGGACGAGCTCTACATCCACTCGGAGCCACTGGGCGTGGTCCTCGTCATT
GGCACCTGGAAC TACCCCTTCAACCTCACCATCCAGCCCATGGTGGGCGCCATCGCTGCAGGGAACTCAGTGGTC
CTCAAGCCCTCGGAGCTGAGTGAGAACATGGCGAGCCTGCTGGCTACCATCATCCCCAGTACCTGGACAAGGAT
CTGTACCCAGTAATCAATGGGGGTGTCCCTGAGACCACGGAGCTGCTCAAGGAGAGGTTTCGACCATATCCTGTAC
ACGGGCAGCACGGGGGTGGGGAAGATCATCATGACGGCTGCTGCCAAGCACCTGACCCCTGTCACGCTGGAGCTG
GGAGGGAAGAGTCCCTGCTACGTGGACAAGAAGTGTGACCTGGACGTGGCCTGCCGACGCATCGCTGGGGGAAA
TTCATGAACAGTGGCCAGACCTGCGTGGCCCCCTGACTACATCCTCTGTGACCCCTCGATCCAGAACCAAATTGTG
GAGAAGCTCAAGAAGTCACTGAAAGAGTTCTACGGGGAAGATGCTAAGAAATCCCGGGACTATGGAAGAATCATT
AGTGCCCGGCACTTCCAGAGGGTGATGGGCCTGATTGAGGGCCAGAAGGTGGCTTATGGGGGCACCGGGGATGCC
GCCACTCGCTACATAGCCCCCACCATCCTCACGGACGTGGACCCCGAGTCCCGGTGATGCAAGAGGAGATCTTC
GGGCCTGTGCTGCCCATCGTGTGCGTGCGCAGCCTGGAGGAGGCCATCCAGTTCATCAACCAGCGTGAGAAGCCC
CTGGCCCTCTACATGTTCTCCAGCAACGACAAGGTGATTAAGAAGATGATTGCAGAGACATCCAGTGGTGGGGTG
GCGGCCAACGATGTCATCGTCCACATCACCTTGCACTCTCTGCCCTTCGGGGGCGTGGGGAACAGCGGCATGGGA
TCCTACCATGGCAAGAAGAGCTTCGAGACTTTCTCTCACCGCCGCTCTTGCCCTGGTGAGGCCTCTGATGAATGAT
GAAGGCCTGAAGGTCAGATACCCCCGAGCCCGGCCAAGATGACCCAGCACTGAGGAGGGGTTGCTCCGCCTGGC
CTGGCCATACTGTGTCCCATCGGAGTGCGGACCACCCTCACTGGCTCTCCTGGCCCTGGGAGAATCGCTCCTGCA
GCCCCAGCCCAGCCCCACTCCTCTGCTGACCTGCTGACCTGTGCACACCCCACTCCACATGGGCCCAGGCCTCA
CCATTCCAAGTCTCCACCCCTTTCTAGACCAATAAAGAGACGAATACAATTTTCTAACTC

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FIGURE 4752A

AACTGGAAGGCGCCCGGTCCTTTCTTTGACTGGAGCGGACCCGCCGGACGCAACCGCCTCGCCAGCCGGAGCCAG
CGCGAGCTCGGCACGGTGGACACCCGGTCCGAGGCCGGCAAGCCGGCTGGTGCCCGAGTCGGCCAAGCATGGGCA
ACCACTCAGGACGGCCCCGAGGATCCGGAACCAGGGGCCTTTACAACAATAAACGGACAGGCATTCCAGCCCCAC
GGGAATTTTCAGTAACTGTCTCAAGAGAGAGGTCTGTGCCACGTGGTCCCTCCAACCCAGGAAATCAGTGTCCA
GTCCAACCTTCTCCAACACTCCCACTCCTACGAAACACCTGAGGACCCCTTCCACAAAGCCCCAAGCAAGAGAATG
AAGGTGGAGAAAAGGCTGCGCTTGAGTCCCAAGTTCGGGAACTTTTGGCAGAAGCCAAAGCAAAAGATAGTGAAA
TTAACAGGCTTCGAAGTGAATAAAGAAATACAAAAGAGAAAAGGACTCTGAACGCTGAGGGGACTGATGCTTTGG
GCCCCAATGTTCGATGGAACATCAGTCTCCCCAGGTGACACGGAACCTATGATAAGAGCTCTTGAGGAGAAGAACA
AGAACTTTTCAGAAAAGAGCTTTCCGATCTAGAGGAAGAAAACCGGGTCTGAAGGAGAAACTGATCTATCTTGAGC
ACTCCCCAAATTCAGAAGGGGCGAGCAAGTCACTGGCGACAGCAGCTGCCCAACATCCATAACTCAAGAGTCAA
GCTTCGGAAGCCCAACTGGAATCAGATGTCCAGTGACATTGATGAGTATAAAAAAACATACATGGAAATGCAT
TACGGACATCAGGCTCCTCAAGTAGCGATGTTACCAAAGCTTCTTTGTGCGCCAGATGCTTCCGACTTTGAGCACA
TTACAGCAGAGACACCCTCAAGGCCCTGTCTCCACCAGTAACCCCTTTAAGAGTTCAAAGTGTCTACTGCTG
GGAGTTCCCCAAACAGCGTAAGTGAATTGTCCCTGGCTTCCCTCACAGAGAAGATACAAAAGATGGAAGAAAACC
ACCATAGCACTGCAGAAGAACTACAGGCTACTCTACAAGAATTATCAGACCAGCAACAAATGGTACAGGAATTGA
CAGCTGAAAATGAGAAGCTGGTGGATGAAAAGACGATTTTAGAGACATCCTTTTCATCAGCATCGAGAGAGGGCAG
AGCAGCTAAGTCAAGAAAATGAGAAGCTGATGAATCTTTTACAAGAGCGAGTAAAGAATGAAGAGCCCACCACTC
AGGAAGGAAAAATTATTGAAGTGGAGCAGAAGTGCACAGGTATTCTTGAACAGGGCCGCTTTGAAAGAGAGAAGC
TACTCAACATTCAGCAGCAGTTGACCTGTAGCTTGCAGGAAGGTTGAGGAAGAAAACCAAGGAGCTTTAGAAATGA
TTAAACGTCTGAAGGAAGAAAATGAAAACTGAATGAGTTTCTAGAACTGGAACGGCATAATAATAACATGATGG
CCAAACTTTTGAAGAGTGTAGAGTTACCTTGAAGGGCTAAAAATGGAGAATGGATCTTTGAAGTCTCATTTGC
AGGGTGAGAAGCAGAAAGCCACAGAGGCCAGTGCTGTGGAGCAGACGGCAGAGAGCTGCGAAGTTCAAGAAATGT
TGAAAGTAGCCCCGAGCAGAGAAAGATCTACTGGAAGTGTCTTGCAATGAGCTCAGACAAGAATTACTAAAGGCCAA
ACGGTGAAATTAACATGTTTCCAGTCTGCTGGCCAAGGTGGAAGGATTATTCATACCTGAAGGAGATATGTG
ATCACCAGCCGAACAGCTGAGCAGAACCAGCCTAAAGCTGCAAGAAAAAGCATCAGAGAGTGATGCAGAGATCA
AAGACATGAAAGAAACCATATTTGAATTGGAAGATCAGGTGGAACAGCACCGGGCTGTCAAGTTACACAATAATC
AACTCATCAGTGAGCTAGAAAAGTAGTGTGATCAAGCTGGAGGAACAGAAGTCAGACCTGGAGAGGCAGCTGAAGA
CTCTGACCAAGCAGATGAAGGAGGAGACCGAGGAATGGAGGCGGTTCCAGGCGGATCTGCAGACCGCAGTGGTGG
TGGCCAATGACATCAAGTGTGAGGCCAGCAGGAGCTGCGCACCGTGAAGAGGAAACTGCTGGAGGAGGAGGAGA
AGAATGCCCGGTTGCAGAAGGAGCTGGGGGATGTGCAGGGCCACGGCAGGGTGGTCACCAGCAGAGCCGCCCTC
CACCTGTGGATGAAGAGCCAGAGTCTCTGAGGTGATGCTGTGCTGGTGGCTGGTGTCTGTGTTAGCAGAA
CATCTCCAACACCCCCAGAGTCGGCAACCACCGTTAAGTCACCTATCAAGTCATTTGACTTGGGACGCCCAGGTG
GAGCTGGACAGAATATTTCTGTCCATAAGACCCCCAGAAGTCCCCTAAGTGGGATACCAGTGAGGACTGCTCCAG
CAGCTGCTGTCTCTCCAATGCAGAGGCATTCGACTTACAGCAGTGTGCGGCCAGCCAGCAGAGGGGTGACTCAAC
GCTTGGACCTTCTGACCTTCCCCCTCTCAGATATTCTAAAGGGAAGGACTGAGACCTGAAGCCAGACCCCCACC
TCCGCAAGAGTCCCTCACTAGAGTCACTGAGCAGACCCCGTCTCTGGGCTTTGGGGACACAAGACTGCTGAGTG
CTTCCACCCGGGCATGGAACCACAAAGCAAACCTCAGTGTGGAAAGAAAAGACCCTCTGGCAGCCTTGGCCCCGGG
AATACGGTGGTTCCAAGCGCAATGCTCTACTGAAATGGTGCCAGAAGAAGACACAAGGTTATGCGAACATTGACA
TCACCAATTTTCAGCAGCAGCTGGAGCGATGGCCTGGCCTTCTGTGCTCTGCTCCACACCTACCTGCCTGCCACA
TCCCCCTACCAGGAGCTGAATAGTCAGGAGAAAAAGAGGAATCTCTTGTGGCATTGTAAGCGGGCTGAAAGTGTAG
GCATCAAACCCAGCCTGGAACCTCAGCGAGATGCTGTACACAGACCGGCCCGACTGGCAGAGTGTGATGCAGTACG
TGGCCCAATCTACAAGTACTTTGAGACGTAACCCCTGGAGGGCCTGGGGCAGCCACCATTGCCACCTACTGCAGC
TTTTCTGGAAGCGCCTGATTACTGTCCACTGACCCCTGCTCTGCCACCACCCAGCTGCCTAGACTTCAAAGACA
GGCTCAATCCAAGTGGACCAACACCCAAATAAGAAAACAGAGTGGGTCCCACGATGTACCTGTCTGAAATGCAAAT
GCAGCTGGACTGTAAATTGGGGACTCTTTGATCTCTTGTGGGATGCTTCTAAAGAGGGCAGCCTCCCTCCTTCCA
GACCAAGACCCACACCCAGGCTTGTGTTTGTGCTGATTATATTGGGTGGCTGAACGAACACATTATCTGCAGAAAT
CAGACAAAGAACATCTCCAAATCAGTCTTTTGGTTGCTGTTGTTAAAAATATCCCGGCTTTGCCTTTATGAAACC
TTTGCCCTTGGCTGGGTGTGGTAGCTCGTGGCTGTAATCCAGCACTTTAGGAAGCCAAGGCAGTAGGATCGTTT

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FIGURE 4752B

GAGCCCAGGAGTTCGAGGCTGCAGTGAGCTATGAGCATACCACTGCACTCCAGCCTGTGTGAAAGAGCCAGACCC
TGTCTC

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FIGURE 4753

MGNHSGRPEDPEPGAFTTTTKRTGIPAPREFSVTVSRERSVPRGSPNPRKSVSSPTSSNTPTPTKHLRTPSTKPKQ
ENEGGEKAALESQVRELLAEAKAKDSEINRLRSELKKYKEKRTLNAEGTDALGPNVDGTSVSPGDTEPMIRALEE
KNKNFQKELSDLEENRVLKEKLIYLEHSPNSEGAASHTGDSSCPTSITQESSFGSPTGNQMSSDIDEYKKNIHG
NALRTSGSSSSDVTASLSPDASDFEHITAETPSRPLSSTSNPFKSSKCSTAGSSPNSVSELASLTKIQKME
ENHHSTAEEELQATLQELSDQQQMVQELTAENEKLVDEKTILET SFHQHRERAEQLSQENEKLMNLLQERVKNEEP
TTQEGKIIIELEQKCTGILEQGRFEREKLLNIQQQLTCSLRKVEEENQGALEMIRLKEENEKLNELERHNNN
MMAKTLEECRVTTLEGLKMENGLKSHLQGEKQKATEASAVEQTAESEVQEMLKVARAEKDLELSCNELRQELL
KANGEIKHVSSLLAKVEKDYSYLKEICDHQAEQLSRTSLKLQEKASESDAEIKDMKETIFELEDQVEQHRAVKLH
NNQLISELESSVIKLEEQKSDLERQLKTLTKQMKETE EWRRFQADLQTAVVVANDIKCEAQQELRTV KRKLEE
EEKNARLQKELGDVQGHGRVVT SRAAPPPVDEEPESSEVDAAGRWP GVCVSRTSPTPPESATTVKSLIKSFDLGR
PGGAGQNISVHKTPRSPLSGIPVRTAPAAVSPMQRHSTYSSVRPASRGVTQRLDLPDLPLSDILKGR TETL KPD
PHLRKSPSLESLSRPPSLGFGDTRLLSASTRAWKPQSKLSVERKDPLAALAREYGGSKRNALLKWCQKKTQGYAN
IDITNFSSSWSDGLAFCALLHTYLP AHIPYQELNSQEKRNLLLA FEAAESVG IKPSLELSEMLYTDRPDWQSVM
QYVAQIYKYFET

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FIGURE 4754

CGCGGTGCCTTTTGTAGCTCCTTGTCCACGCTCCGCCCCCTGTGGGAACGGCCGCGCTCCCCGCAGCTGGTCATCCG
CCGCCTGCCTCCGGGCCTCACCAAGGAGCAGCTGGAGGAGCAGCTGCGCCCGTTGCCAGCACACGACTACTTTCGA
GTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAGAGCATAACATTAATTTTAGGAATCCTGATGA
CATCCTTCTTTTGTAGAGATCGTTTTGATGGGATATATCTTCCTTGACAGCAAAGATCCAGAATATAAGAAATTTT
TAGAAACCTACTGTGTGGAGGAAGAGAAGGCCAGTGCCAACCTGAGACTCTGCTGGGGGAGATGGAGGCGAAGA
CAAGAGAGCTCATTGCTAGAAGAACCACACCTCTTTTGAATATATTAAAAATAGAAAATTAGAAAAGCAGAGAA
TTCGAGAAGAGAAGCGAGAAGAACGGAGGAGGAGAGAGTTAGAAAAGAAACGTTTTCGGGAAGAGGAAAAAGAA
GAAGAAGAGAAGAAGAAAGATGCAAAAAAAAAAAGAGAGACAGATAAACAGAAGAAAATTGCAGAGAAAGAAGTA
AGGATTAAGCTTCTTAAGAAACCAGAAAAGGGAGAGGAACCAACCACAGAGAAACCAAAAGAAAGAGGAGAGGAG
ATTGATACTGGAGGTGGCAAGCAGGAATCCTGTGCCCCCGGTGCAGTCGTAAAAGCCAGGCCCGTGAAGGCTCG
CTGGAGGAGCCCCAGGAGACGTACACAGCGGCAGTGATAAAGAGCACAGGGATGTGGAGAGATCTCAAGAACAA
GAATCTGAAGCACAAAGACACCATGTGGATGATGGCAGGAGGCACAGAGCTCACCACGAGCCTGACCGGCTTTCC
AGAGGGAGTGAGGATGAGCAGAGATGGGGGAAAGGACCTGGCCAAGACAGAGGGAAGAAGGGAGCCAGGACAGC
GGGGCTCCGGGGGAGGCCATGGAGAGACTGGGAAGAGCGCAGAGGTGTGACGACAGTCCAGCACCCAGAAAAGAG
CGACTGGCAAACAAGGACCGGCCAGCCTTGACAGCTGTATGATCCAGGAGCTCACTTCCGAGCGCTAGAGTGTGGC
GGAAACAGGAGGATCTGCAAGGCAGAAGGTTCTGGGAACCTGGTCTGAGAAGAGGGAAGAGGCAGAGTGAGTCACT
GCACGCACCTGGCCTCCATGGACGAGCGAGGGCATCCAGAAACGTGTAAATGACCCCGAGTGTGACTGGGAAGG
AGAACTTATTCCTTACCAGGAAACTGGAAGCTAAAACACAGAGGGTGACATAGAAACACGCAGAAACCATTTCTA
AAGAAAGTAGTGATCTTGTATTAAATTGAGCAGAATTCTCACAGATTTTACCATTCTGTTATAAACTAGTATTT
GTTGTTTAGCCAAAACAGAAAATGATTTCCACTGGACAGTAGAAAAATATGTGTAAATAGGGAAGAAAGTTAGT
ATTGGATCAGTGTGAGTCCTGAAGCACTTTCAGTGCTGTGAGAACGACATCCACTTTGGGTTTCATTTCGTTTGTA
AGCAGAGGAGCTGTCAGTCACTCGTGCTTCTCGTTGGCCTCTGAGCCATGGTGTGCGAGTGAAGAGTAGTTCTTGT
TTGTTACAACCTTTGTGAGTCAGCCATGCCTGCAAAGTGTGCTGTGTTTTAGTCCTGGTAGGAATATTTATCAGA
GTTCACTATATAAAACCAACAGCTTCAACTATTGCCCTTTCAACAGTTTTGCCACTGACCGGATAAAAACGG
TTTCAGTCTTTGGATGGATGTGTTTGTGGTTTGTAAACATTACGGTTTAAACCATGGTTTAAAGAAATTTGCCAAA
TAACAGAAATTTTGTTCGGGAAGGGATAAACGAGATATAGCATATAGAGCCTGTTTTTGTAGTTTTAGATACTTTA
TTTGTAAATAACTTAAATAGCTTTCTGAAACCGTGCATTCTGTAGTTTCTTCCTTTCAGTGAAATTGCTAAATG
TGAATGTATTTTTGGCACTGCGATTTTAAACATTTATTAAATAAAAATTTTGTAAAG

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FIGURE 4755

GTAAGACACCTTTGCAGTCCTTCTGGAATCGCTGAGCAGCACGGGGGCCCCAAAATGGGACCTGATCACTC
AGACTCTGAGCCAAGCCAACCCCACTGCCATCACTGCAGAAGAATACTTCAACCCCAACTTTGAGCTGGGCAACC
GTGATATGGGCCGCCCCATGGAAGTACCACCAAGACACAGAAGTTCAAGGCCAAGCTGTGGCTGTGTGAGGAGC
ATCCCCCTGTCCCTGTGTGAGCAGGTGGCCCCATCATTGACCTCATGGCCGTGAGCAATGCGCTTTTTGCCAAGC
TCCGGGACTTCATCACCTTGCCTCTGCCTCCTGGCTTCCCAGTTAAGATTGAAATCCCAGTCTTCCACATCTCA
ACGCCCCGATCACCTTCGGGAACCTCAACGGCTGCGACGAACCGGTGCCATCGGTGCGAGGCAGCCCCAGCAGCG
AGACGCCTTCCCCAGGCAGCGACTCCTCCAGCGTCAGCAGCTCCAGCTCCACGACCTCCTGXCCGCGGCTGCGAG
ATCTCCCCAGCGTTGTTGAGGCCCGCGCGGCTACAGCATGATGGGCGGCCAGCGGGAGGCGGCGACCCGGGAC
GACGACGACGACCTGCTGCAATTCGCCATCCAGCAGAGCCTGCTTGAGGCGGGCAGTGAGTATGACCAGGTCACC
ATCTGGGAGGCGCTAACCAACAGCAAGCCAGGCACCCACCCCATGTCTTACGAGGGTCGCCGACAGGACAGGAGC
GCCCCGCCCCACGCCGAGCGCCAGCCTGCGCCCCCGGCGTCAGTGCCAGCCCTCGGCCAGCTCAGGGCCAGGT
TCCGGCGGCCACGTGTTCCGGAGCTACGACGAGCAGCTGCGGCTGGCGATGGAAGTGTGCGCGCAGGAGCAGGAG
GAGAGGCGGGCGCGCGGCCAGGAGGAGGAGGAGCTGGAGCGCATCTGAGGCTCTCACTGACCGAGCAGTAG
CGCCCCCTGCCGGGACCTTCGCCAGCGCCACGCGGCCACGCCCAGGGCCAGGAGCCAGACAAACCCCGGCTGC
GCGCCTGCAGAGCGGCGGCTGGAGACTGGAGCCACCGCCTCGCGGGTGCAGCAGCACAGCAGGCACGGTTCCGGG
AGGGATTGCGCATGGCCGCGGGGTACCTTCCCAGGCCAGGGCCCTGGAGGCAACTGGCACGGCCTGGTCCCCCTG
CTTTGCTGTATTCTGATTCCCCAACCCGCTCCCCTGGGCTCAGATCTGTCTTCTAGGGCGGAGCCAGGCGGT
CCTGAGGGGGAGATGAATCCTTAGAGGAGCGCTGTCCCTATCCCTTGCTCCTTCTGGCCGGTCCGCATTTCTGTT
CACTAACCCCACTCCAGGACACTGCCCCCTGAAGCCTTTGCATCTCTGCTCTTCACTCCTGGGGGGCAGCTGAGCT
CCCCGCGTGCTGTGTCACTGCTTTGTTCCAGACACAAACCAGCACGTCTAGGGCCAGCCCTCCCCACCCCGG
CATTTAGCGTCAAGTGCACTTAGCGGGGTACCCGGCTCCCCAGCCCCACACCCGTCTGGGTCTCAGGGTGG
TTCCAGCTTCTCCTTGGGCAGCCAGAAGTTGGAGTCCCATCCCCCAAGGCACATTTTTTTTTTTTTTTTTTGTG
ATCAGGGAGTGTGTCAACGTAGCCCCCTGGCCTGTGCAAGCCCTGACTCCCTCATGGTGCCTCGGAGAGTGGGG
AGCATATTGGGCTGGGGTAAGCACTAGACCCAAGTAGACTGGACACAAAGGGCTCGCCCAGGGCCCTGGCGCCAC
CCCCACCCCTTCCACAGCTGCTGCTAGCCTCTGTGGTTGTACATCCCACTTGCCCCACACGGAGACTGACTC
TAAAACCCCTTCATCCAATGGTGCTAACCCCCGGCTCTCCCTGCCCCACCTCACCCACCCAGAGAAGCACAGACC
CCGCCAGGGGCAGGGGCCCCACCGCACACCCCTTGTCGGGGCTGTCTGGGACTGGCCTTCCCGGCTCAGCCAGTG
AGGCTCAGAAGGGACACAAAGAGGGATGGAAGAAAAGAACAAAGAGAAACTGTTCTCCACCCCTTCCCTGAT
GCCAGGGGCACCAGACTGATTCTGAGGCACAAATAAAAGAGGCTTCATACCGG

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FIGURE 4756

MTWQRGNRSFVFRGQDTSADVMEIDHRRVVYTETLALAGQDRELLAAAQPTTEEQVLSRLTAPVVTTQLDTKNI
SFERNKTGILGWRSEKTEMVNGYEAKVYGASNVELITRTRTEHLSEQHKGKVKGCKTPLQSFLGIAEQHGQPONG
TLITQTLSQLANPTAITAEEYFNPNFELGNRDMGRPMELTTKTQKFKAKLWLCEEHPLSLCEQVAPIIDLMAVSNA
LFAKLRFITLRLPPGFPVKIEIPIFHILNARITFGNLNGCDEPVPSVRGSPSSETPSPGSDSSSVSSSSSTTSC
RGCEISPALFEAPRGYSMMGGQREAAATRDDDDLLQFAIQQSLLEAGSEYDQVTIWEALTNSKPGTHPMSYEGRR
QDRSAPPTPQRQPAPPASVPSRPSSGPGSGGHVFRSYDEQLRLAMELSAQEQEERRRRARQEEEELERILRLSL
TEQ

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FIGURE 4757

TCGCCGCTGAGGATGTCCCGAAAGGGGCCGCGAGCGGAGGTGTGTGCGGACTGCAGCGCCCCGGACCCTGGCTGG
GCATCCATCAGCAGGGGTGTGCTGGTGTGTGACGAGTGTGTCAGCGTGCACCGGAGCCTGGGACGCCACATCTCC
ATTGTCAAGCACCTTCGCCACAGCGCCTGGCCTCCACGCTGCTGCAGATGGTGCACACGCTTGCCAGCAACGGG
GCCAACTCCATCTGGGAGCACTCCCTGCTGGACCCCGCACAAAGTGCAGAGCGGCGGCGTAAAGCCAACCCCCAA
GACAAAGTCCACCCCATCAAGTCAGAGTTTCATCAGGGCCAAGTACCAGATGCTGGCATTGTGTGCACAAGCTTCCC
TGCCGGGACGATGATGGAGTCACCGCCAAAAGACCTCAGCAAGCAACTACACTCGAGCGTGCAGGACAGGCAACCTG
GAGACATGTCTGCGCCTGCTCTCCCTGGGTGCCAGGCCAACTTCTTCCACCCAGAGAAGGGCACCACACCTCTG
CACGTGGCTGCCAAGGCAGGACAGACACTGCAGGCCGAGCTGCTTGATGTATGGGGCTGACCCTGGCTCCCTT
GATGTTAATGGCCGCACACCCATTGACTATGCCAGGCAGGCGGGGCACCATGAGCTGGCGGAAAGGCTGGTTGAG
TGCCAATATGAGCTCACTGACCGGCTGGCCTTCTACCTCTGTGGACGCAAGCCGGATCACAAGAATGGGCATTAC
ATCATCCACAGATGGCTGCAGATCTCGGCAAAAGTGCATGTCTCAGAGCCTTGACTTATCCGAATTGGCCAAA
GCTGCTAAGAAGAAGCTGCAGGCGCTCAGCAACCGGCTTTTTGAGGAAGTCCCATGGACGTGTATGACGAGGTG
GATCGAAGAGAAAATGATGCAGTGTGGCTGGCTACCCAAAACACAGCACTCTGGTGACAGAGCGCAGTGCCGTG
CCCTTCCTGCCTGTTAACCCGGAATACTCAGCCACGCGGAATCAGGGGCGACAAAAGCTGGCCCGCTTTAATGCC
CGAGAGTTTGCCACCTTGATCATCGACATTCTCAACAACCTCGAGCTGTCTCTGCGGAGCCAGAGTGACCTCGAC
GACCAACACGACTACGACAGCGTGGCCTCTGACGAGGACACAGACCAGGAGCCCTGCGCAGCACCGGCGCCACT
CGGAGCAACCGGGCCCGGAGCATGGACTCCTCGGACTTGTCTGACGGGGCTGTGACGCTGCAGGAGTACCTGGAG
CTGAAGAAGGCCCTGGCTACATCGGAGGCAAAGGTGCAGCAGCTCATGAAGGTCAACAGTAGCCTGAGCGACGAG
CTCCGGAGGCTGCAGCGAGAGATCCACAAGCTGCAGGCGGAGAACCTGCAGCTCCGGCAGCCTCCAGGGCCGGTG
CCCACACCTCCACTCCCCAGTGAACGGGCGGAACACACACCCATGGCGCCAGGCGGGAGCACACACCGCAGGGAT
CGCCAGGCCTTTTCCATGTATGAACCTGGCTCTGCCCTGAAGCCCTTTGGGGGCCCCCTGGGGACGAGCTCACT
ACGCGGCTGCAGCCTTTCCACAGCACTGAGCTAGAGGACGACGCCATCTATTAGTGACGTCCTGCTGGCCTT
TACCGGATCCGGAAGGGGTGTCTGCCTCAGCTGTGCCCTTCACTCCCTCCTCCCCGCTGCTGTCTGCTCCAG
GAGGGAAGCCGCCACACGAGCAAGCTTTCCCGCCACGGCAGTGAGCCGACAGTGACTATGAGAACACGCAAAGT
GGGGACCCACTGCTGGGGCTGGAAGGGAAGAGGTTTCTAGAGCTGGGCAAAGAGGAAGACTTCCACCCAGAGCTG
GAAAGCCTGGATGGAGACCTAGATCCTGGGCTTCCAGCACAGAGGATGTCATCTTGAAGACAGAGCAGGTCACC
AAGAACATTAGGAAGTGTGCGGGCAGCCCAGGAGTTCAAGCATGACAGCTTCGTGCCCTGCTCAGAGAAGATC
CATTGGCTGTGACCGAGATGGCCTCCCTCTTCCCAAAGAGGCCAGCCCTGGAGCCAGTGCGGAGCTCACTGCGG
CTGCTCAACGCCAGCGCCTACCGGCTGCAGAGTGAGTGCCGGAAGACAGTGCCCCCAGAGCCCGGCCCCAGTG
GACTTCCAGCTGCTGACTCAGCAGGTGATCCAGTGCGCCTATGACATCGCCAAGGCTGCCAAGCAGCTGGTCACC
ATCACCACCCGAGAGAAGAAGCAGTGACCTCTCTCCCAACACCCCTCACCTGCACCCCTAGGACCTCACTGGCCATA
GGAGCTGGGCCACTCCAGACATTAATCCCCACCCCAACAGAGCCACTGGCACAAGTGCCCTTAGTGCTGCCACAC
TCCCTGGCAGCCAGGTGCCCTGGTGCCACCCCTGTGAGCCCTAAGGATGGGGAGGTTGGGGGGGCAGGAGCT
TCTGTCCCCCACATTCCATGCACCTCCCCTCTGTATATAGCATCTCCCCCTCCTAGTGAGCAGGGGCCTGCAAG
GCATCACTCCCAGCCCCCTGCGCTTCTAGGGCACCTCAGCAAAGGGGCAGGTGGGGACACTCCAAGTGGGGCAGC
TCTCCGTACATGCGCCCCACCCCATGAGCCAGTTCAGCCCTACTGGGGGCTGAGCGGGGGCATCCCCTCCTTTG
TACATAGTCTCCATGGATGTCCCTGCCCTGTAGCCACCAGCCCCCTGTGCTGCTCTCCCTTTAATGCCATATGGCCC
CTGCCCTAGGGCACAGGCCCCAACCTGTGTGCTGGGGTCCCCAGCAGCAAACACTGGAAAGTCTGTTTTTTTTTTT
TCTTTCTTCTTCCCCACCCCTTAATTTTAACTTTGTGTAAGTGAAGTCCCCCGCGTGCTGCGTGTGAGTGTG
TGGGCGGCAGTGCCGTTCCGGAGGCCTGGTCCATCTGGAGTTTTGAGGGGTGAGGGGACCAGAGCAGTGGGACCA
GCATGGGGATCAGCTTCCCTTCCCCACCTGGAGCCAGGGACTGTCCGGGTAGCCAGTTTTGGTCTGCCAGCTGC
CTCCCTGATCCCTCCCCACTCTCGCCCCCTTCTCTATGAACCTAAATCAAAAACCACTTCCCTCCATCTCCTCCTG
CTCCTGCGTGGAGGGGGGAATGTGTGCTGGCTAGGGTGGAGGACTGAGCACCTGAGCCTGGGGCTGGCTCCCCGGG
GTCCCCGACTCAGCTGGTGGCTGTGGAGCTGAGTCCCCTCCCCGTAACCTCTGCAAGGCCAGCACCCACCATCAC
TACCTGCACCTGCTGTGGTCCCACCCCTCTGGAGGCCTGGGAACCTGGCTGCAGCCTGGGAAGGCTGGAGAGGCAG
ACGGTGGGACCCACCAGCTCTCTCCCCATCCCGCTTCTTCCCTGGGGGCCAGGCCCTACCTGTGTGGTGGTGGGT
GGGCTGTCAAGACGTGTCATGTACATTTGTATCAAAAATAAAGAAGTGACCATG

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FIGURE 4758

AGCCCTCGCGGGGGCAAGGCGGCGACCGAGGCGCGTGGGTCTGGGAAGGCGCGCGGATTTGGCCCCCTCTTCTCAC
ATCAGCGGGTCCAGGCCCCAACCGACAGACTATGGGGGCTCCGGCAACCAGGCGCTGCGTGGAGTGGCTGCTGGGC
CTCTACTTCCTCAGCCACATCCCCATCACCTGTTCATGGACCTGCAGGCGGTGCTGCCGCGCGAGCTCTACCCA
GTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCCCCAGCCTGG
TTTAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTTCAGCTGCCTTTCTTTCCATTGCAACGTATGCCTTCCTCAA
GGAAGCTGCAAGTGGATTGCAACTCCTGCAATCATCTACTCTGTTTACACCATGACAACCTTAATTCGATACTC
TCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTTGCATGAACGG
TTAACCTTGTGCTGTCTATGCCCCCTACTTACTCATCCCATTTCATACTTTTAATTTTCATGTTGCGGAGCCCC
TACTACAAGTATGAAGAGAAAAGAAAAAAAATGAAGGAAACAACCACTGGCCCAGGGTAGAGATGCCTACAGG
GTGGTTGCTTGTGGATACAATAACAAGGAACACTGCTCAGAACCACAGTCTTCAGCAGCATTTGAAACACTGGCA
GCAATGCACAAGAGCAAGATGGTGTGAGGAACCATGTCAAACCCTCACCTTCTTCCATTTTTTTTTTTTTTTTAA
GACAGTCTCACTCTGTTGCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCCGCTCC
TGGGCTCAAGCCATCTTCTTAGCCTCCCAAGTAGCTAGAACTACAGGTGTGTACCAACACGTATGGCTAATTTG
TTTTGTTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGGCTCAAG
TGATCTGCCCACCTCAGTCTCCCTAAGTGCTGGGATTACAGACGTGAACCACTGGGCCCAGCCCCAACCTTCACC
TTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATAAGGAAG
TGGTACCAAATAACTGTGTGCCTGAGTTCCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACTGCTAAAG
AACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCCTCCACTCCT
GATTCTCAAGAGTGTATCACCTGTCAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGAAATTTTG
CCTCTTTAATGTTAATTCAAACTATATCAATGTTTTCTTGTTCACCTCTAACCCAAGGAAAAAAGAGAAAAC
ATACTATGCAAAGGAAGTTTAAACTTAAGTTTTCTTAAGGGTCAGCCCCAACAATGACTTTTCAGTCAAATGGATT
AAACTGGAAAATGTTTTTGTCTGTTGTAAACAGATCATCCTAGGCGAAAGTTTTTTTTGTTTGTGTTGCTTTTA
AATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCTGAAGTCT
AGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTTAAATACAGTTCCGT
CATTCCCATCTTGTTCAGAAAGAGAAGGTGGCTACAGCCAGGCATAACATATCCACTGTGTGCATAGAGGGTCT
CTTACGTTGATGCTTGGCATTCATCAGCTTTCTCTAAGTCTTTGCTCAAGTTCAACCTTAAATGATGTTAGA
CAACAGGTCCCAGTCAGTTCCCTCTATTTTACCCATTTTGCTCACAAGCCATATTGGCCCGATTAGTGGTACTG
TCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCTG

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FIGURE 4759

MKRKEKKNEGNNHWPRVEMPTGWLLVGYNTRNTAQNPRLQQHLKHWQQCTRARWCQEPQCQTLTFFHFFFFFFKTVS
LCCPGWSKGQWHDLGSLQPPPPGLKPSSLASQVARTTGVYQHVLICFVFFVCVETGFCHVAQVGLERLGSSDLP
TSVSLSAGITDVNHWAQPKPSPSKGTGMNRF IGLRVGKGVWARL

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FIGURE 4760

GCCACCCAGCTGAGAGGAGAGGCGCCCCCGGGGACGCACTGAGATTATGAGGCTCTGGCCTCCACTGGCCACTCA
CTCGTGACCCTTTCCACCACGGCGGAGCCTTCCAAGCCTACCTCCTGCCGTGTGGTGATCTACCTGCAGCGGGAG
ATGTCGGGGGACACCTGCCTGTGCCCAGCCTCAGGGGGCCAAGCCCAAGCTCAGTGGCTTCAAGGGAGGAGGGTTG
GGCAACAAGTATGTCCAGCTCAACGTGGGCGGCTCTCTGTACTACACCACTGTGCGGGCCCTGACCCGCCACGAC
ACCATGCTCAAGGCCATGTTTCAGTGGGCGCATGGAGGTGCTGACCGACAAAGAAGGCTGGATCCTCATAGACCGT
TGTGGAAAAGCACTTTGGCACCATTTTGAATTACCTCCGAGATGACACCATCACCTCCCTCAGAACCGGCAAGAA
ATCAAGGAATTGATGGCTGAAGCAAAGTATTACCTCATCCAGGGGCTGGTGAATATGTGCCAGAGTGCCCTGCAG
GACAAGAAGGACTCCTACCAGCCTGTGTGCAACATCCCCATCATCACATCCCTAAAGGAGGAGGAGCGGCTCATC
GAATCCTCCACCAAGCCCGTGGTGAAGCTGCTGTACAACAGAAGCAACAACAAGTATTCTACACCAGCAACTCT
GACGACCACCTGCTGAAAAACATCGAGCTGTTTGACAAGCTCTCCCTGCGCTTCAACGGCCGCGTGCTCTTCATC
AAGGATGTCATTGGTGACGAGATCTGCTGCTGGTCTTTTATGGCCAGGGCCGTAAGCTGGCAGAGGTGTGCTGT
ACCTCCATCGTGTATGCCACGGAGAAGAAGCAGACCAAGGTGGAATTCCCAGAGGCCCGAATCTATGAGGAGACA
CTCAACGTCTACTCTATGAGACTCCCCGCGTCCCCGACAACCTCCTTGTGGAGGCCACAAGCCGTAGCCGCAGC
CAGGCTTCCCCCAGTGAAGATGAGGAGACCTTTGAACTGCGGGACCGTGTCCGCCGCATCCACGTCAAGCGCTAC
AGCACTTACGATGACCGGCAGCTCGGCCACCAGTCTACCCATCGCGACTGACCAGACCCTCAGGGAGTCAGGGCA
CGGGAGGCCCTATCTCCCATCCTGTGGAACCCGCCCCATTGGCCACCCCATGCTGCTGCTGCCTGGGTCTCTGCT
CTAGCACCCAGAGGCATGACAGGCCCTGCTCAGAGGTGAGAGGTCTGGGCAGAGGAGGGACCACATTCCCCTCG
CTTGCCCCCTGAGCACTTCTGGAGACTGCGTCTGTCTATCTGCTCACCATCACCTTCTGCCCCGACGGAGCTG
CTTCTGCTCCCTGGGGCATATGGACTGACCCACCTCCTGCTGAGAACCTTCCCCCTAGGCCCTGTGCAGAAGGCTA
CTGCCCCCTTAGGCCCTCAGCTGGGGGAAAGGCAGTTCTGGTGCTGTAGAGGCCCTGGTGAGAAAGTGGGACGTCT
TTTTTCTTAAGGTGTTTAAAGCACAGGCTTGATAAGTTTGGTTTTTAAAAAATAATCTAGGAAATGAATAATTCTA
AATCTAGTAATGAGGAAACTGAGCATTCTTTTGGCCCTCCAGGGTGCCAAGACCCTACATATGACAGAACCCTTG
GCCCTTCTCCATGCCTGTGGGATCTGTTTCTTTAAAGCACTTTGTACTGTTATTTCAGGAGGTTGATAATCTCCTT
GACCCATGTCTTTCTACCCTAATCCCCACTTCCCTGCAGAATCAATCTGAGGGAGGGGATAAAGAGGAAGCAATA
AAAAAAAAACATCCGACAGAGCAGCTCTGGCTTTGCAGCCTGGCCAGCAGCTCAGAGTGCACCGAGGAGGGAAGG
ATGGCTAAGCTGGGACCGGCAGTCCTCACAGGGTGCTGTGAGAAAGGACATTTTACCCCCACATCATAGTCACA
TCACTGACTCCTAGGTCTAGCACGACTGCTCTTTGTGATTCTCTTGAGTACCCTTGGCTTCCAGCCATGCTGTCC
TCACATACGGTAAAGCCAAAGAGCTGTACATGGGCCAGAAACATGAGCCACGGCAGGAAGACCGTGGAGCCCGT
GGGCACTGCATGGTGTGGCTGGCATGCCATCAGCTGAGGACAGCAAACTCCAGCAGCCCCCTACAGAGGTGGC
ACATGCTTGGCCACACATCTACTCCCTGCCACACCATCTATGCTCTTGGTTGGTGCTGGCTGGGATGGCGGTTT
TGCCAGTGGTGTCTCTGAGCGCGGGATGACAGGAGCAACCGAAGCACCTTGAAGGCCTTCACTCCTTGTGGGT
AACTCAGCCATGGAGATGCCAAGCACTAGCCAGGAGGTGAGTTCTCTTTAGGGCTTTGGTTTTTCATTCTTTTT
GTTTGGCTTGGCCAAACCAGAATTCAGCTTATCTGAATTATTTTCAAAGGAATGCTGTGAGGGAGGGACTGTTC
TGCCAGCCTAACAAAGCAACGTAGCCACGTATAGTACCCACTTTCTGCTCTTTGGAGAGAACACAGGTTATCAAG
TTCATCTCTCTTGACTACTCTTATGATAGCTGATGCCACAGAGCCTATGGGCAAAATGCCAGACCCAGGGTTAGAC
ACAAGGACCTGAAGTGACATGACGGCGGGACAGGGGAAATGTGACTTTCTAATTAGGCATTTTATGTTAGTCACA
GTCTTGAATGTATAAACAGCACTAAGACTCTCAGGTGAGGTACCTTGGTGATCAGCTACTAGTTCTTCCAGCCCT
CATTGAGGTAACAAGATAAAGACAAATCCACTTCTTTGGCCAAATTCAGGCTTTGGCTTTATGACTTTCCACAG
AGACTGGAATGCGTCAGCCTGAGACCACTGGCCTATTTTCTCAGCTGCCCTCTTGAGGTCCCTTAACACTCAAAT
TCCCAGCTCCCCACTGAGGTGTTGTGATGCTTGCCTTTTGACCTCCCCATCCCCCTTAGTCCCTGCTTACTACTT
TGACATTACATCCTCAGTGTCTCAGTCTTTTTTGCCGAGAAAGCACAGTAGTCTGGGACTGGGCATTTATCTTC
TCTGACTGAAAATCTCTCCTTGGTCTTAAGGAAAATACTAACATTGAACTCACTGACATGATCTTAGCTTCTTTA
ATCAGACTTTGTGACTTAAAAGTTTGGGGGTTTTCTTTGAAAGTTTCCAGCCCTATTTCAGAAAGCAACTCTTGGC
TGTGTGCATTTTTCAACTCCAAGCAGCCAGGGGTAAAGTAAACAAAGTATGGATGAAGGTCAGATTTTCTTGTCA
GTTTCTGAGAAACCTGGCAGCCTGCTGTTAACAACACAGGCCAGTATTGGGTTTTATTGAATTTGGTATGTGACC
AAGGTCGGCCATAAGGATGGCGCAGGTCTGGGCAGGAAAGAATTTTTCTTTATCACATAACTGTAATATTTGG
TTGCTCAGCATAAGTGATGGAAGCAAACACTAATTTCTAATAAAATTGTGTTAAACTC

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FIGURE 4761

CCGCGGGTCGGGCTCTGTGTCAGCAGCCGGGCGGGCGCTCGGGCGGGAC**ATGG**CAGCCTGTACAGCCCCGGCGGGC
CCTGGCCGTGGGCAGCCGCTGGTGGTCCCGGTGCTGACTGGGGCCCGGTGGCCAAGGCCGCTCTGTGCGGCGGC
CGGAGCTGGAGCCTTCTCGCCAGCGTCGACCACGACGACGCGGAGGCACCTCTCGTCCCGAAACCGACCAGAGGG
CAAAGTGTTGGAGACAGTTGGTGTGTTTGAGGTGCCAAAAACAGAAATGGAATAATGAGACCGGGCAGCTTTTCCT
TCATAGCATTTTTGGCTACCGAGGTGTCGTCTGTTTCCCTGGCAGGCCAGACTGTATGACCGGGATGTGGCTTC
TGCAGCTCCAGAAAAAGCAGAGAACCCTGCTGGCCATGGCTCCAAGGAGGTGAAAGGCAAAACTCACACTTACTA
TCAGGTGCTGATTGATGCTCGTGAAGTGGCCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTTGGC
TAACCATGATGACAGTCGGGCCCTCTATGCCATCCAGGCTTGGACTATGTGAGCCATGAAGACATCTCCCTTA
CACCTCCACTGATCAGGTTCCCATCCAACATGAAGTCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACC
TCCTTTTGTGGCTCGGGAGACGCTAAGGGCCTGGCAAGAGAAGAATCACCCCTGGCTGGAGCTCTCCGATGTTCA
TCGGGAAACAACCTGAGAACATACGTGTCACTGTCACTCCCTTCTACATGGGCATGAGGGAAGCCAGAATTCCCA
CGTGTACTGGTGGCGCTACTGTATCCGTTTGGAGAACCTTGACAGTGATGTGGTACAGCTCCGGGAGCGGCACTG
GAGGATATTAGTCTCTCTGGCACCTTGGAGACAGTGCAGGCGGAGGGGTAGTGGGCAGGGAACAGTGTTATC
CAAGGAGCAGCCTGCGTTCCAGTATAGCAGCCACGTCTCACTGCAGGCTTCCAGTGGGCACATGTGGGGCACGTT
CCGCTTTGAAAGACCTGATGGCTCCCACTTTGATGTTCCGATTCTCCCTTCTCCCTGGAAAGCAATAAAGATGA
GAAGACACCACCCTCAGGCCCTTCACTGG**TAG**GCCAGCTGAGGCCCCAAGTGCCCAGGCTTGGTCACCGGGAAGAA
CAACTCTCATCCACAATTGCTGCAGAACTCTTCTCTCCCCATCATGGGCCACAGTGGGTCTCTTAATTTGATTG
TGGGGTTCTTTTGTGGGGAGGGGTGGTATAACTTTTCTTCTCAGAAGACCCATGTGGGACACCTCCAAGGCTGGCC
TCCTCATAAGCCCTGCCTACACCATGTTCCAGTAAACCTCTCCACCAAGGAACGTGTGTTTCACTGCCCACAGGCCCT
GGAGGAGTTTCTTGGCCTGTCACGTGAGGTTTGATCAGTAAACAGTGCACGCTTGGCCACCCTTGCCATTTCTG
CTCCAGAGTCTCAGGCTCCCTTCTGACCCAGTGTGCGCCCTTGACTGCTTTCTTTGCTGCCCTTCCAGGGAGC
TGCCCCCTGGTAGGGCATGTGCCTGTTTCCCTCTCAGCCTGGAGGCTGGCTGGACATCTCCTAGGGTCACTGTG
CCTCTCAGCTAGTTGGCGGGGTGCTGGACTGGACTCTTGTTCACCTTACCTTCTGCCAAATGCAGAGAGGGAGG
CCAGTGTGAGGTCGGAGTGGCCTGGCTCTTAGCACTGACCGACCATTTGCCATTTCTGGCCTCGCTAGGCCCAGG
AGAGGAGGGAGGCAAGCCAGTCGGGTTTCTGGAGCAATGGGTGTGCCAGCCCTCAGCATGACTCTGCCAAGCAT
CCAGACCACAAATGCAGGAATTTGGCTGAGGAGCAGCTTTAGGTATGGATTGATGACTAAGTCAAGCTACTTCCT
GAGCTTCTCTCAGATTTCCAAGAGCCAGAGATGAATTGTGCTGCATCTTGCCCCAATTTCTAGGATTTCTTTTCC
TCCGCCACTGCAGTGATTGTTAGAGGTAGTTTTCTTGAATTAATATTAAATCACAGTCCAGCCCTGTAAAAAA

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FIGURE 4762

MAACTARRALAVGSRWWSRSLTGARWPRPLCAAAGAGAFSPASTTTTTRRHLSSRNRPEGKVLETVGVFVFPKQNG
KYETGQLFLHSIFGYRGVVLFPWQARLYDRDVASAAPEKAENPAGHGSKEVKGKTHTTYQVLIDARDCPHISQRS
QTEAVTFLANHDDSRALYAIPGLDYVSHEDILPYTSTDQVPIQHELPERFLLYDQTKAPPFVARETLRAWQEKNH
PWLELSDVHRETTENIRVTVIPFYMGMREAQNSHVYWWRYCIRLENLSDVVLRLRERHWRIFSLSGTLETVRGRG
VVGREPVLKSKEQPAFYSSHVSLQASSGHMWGTFRFERPDGSHFDVRIPPFSLSENKDEKTPPSGLHW

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FIGURE 4763

CAATCATGGATCAATAGCTATGTTTGGAGAAGGAATTTGTGGCTGCTCCAGCTACTGGGCATTTTGTCTGGTCCA
GTTTCATGTAATCTCCCAACACCCCATGAAGCAAGGCTTTGTTAATCCTATTTTACTGAAAATGAACTAAGACTCA
GAGAGATAAAGCTGTTGCCCAATGAGCCTTCTTTCTGCCCTCCAGATCCACGGTGCTAATTTCCCTTCCGATGAC
CTAATGATTCTGAGCTTGGCAAAGGTCTTATCTCCCAGCTCGCCCAGGCCAGTGTTCCAGGAATGTGACCTTTG
CTGCAGCAGCCGCTGGAGGGGGCAGAGGGGATGGGCTGGAGGTTGAGCAAACAGAGCAGCAGAAAAGGCAGTTCC
TCTTCTCCAGTGCCCTCCTTCCCTGTCTCTGCCCTCTCCCTCCCTTCCCTCAGGCATCAGAGCGGAGACTTCAGGGA
GACCAGAGCCCAGCTTGCCAGGCACTGAGCTAGAAGCCCTGCCATGGCACCCTGAGACCCCTTCTCATACTGGC
CCTGCTGGCATGGGTTGCTCTGGCTGACCAAGAGTCATGCAAGGGCCGCTGCACTGAGGGCTTCAACGTGGACAA
GAAGTGCCAGTGTGACGAGCTCTGCTCTTACTACCAGAGCTGCTGCACAGACTATACGGCTGAGTGCAAGCCCCA
AGTGACTCGCGGGGATGTGTTCACTATGCCGGAGGATGAGTACACGGTCTATGACGATGGCGAGGAGAAAAACAA
TGCCACTGTCCATGAACAGGTGGGGGGCCCCCTCCCTGACCTCTGACCTCCAGGCCAGTCCAAAGGGAATCCTGA
GCAGACACCTGTTCTGAAACCTGAGGAAGAGGCCCTGCGCTGAGGTGGGCGCCTCTAAGCCTGAGGGGATAGA
CTCAAGGCCTGAGACCTTCATCCAGGGAGACCTCAGCCCCCAGCAGAGGAGGAGCTGTGCAGTGGAAGCCCTT
CGACGCCTTCACCGACCTCAAGAACGGTTCCCTCTTTGCCTTCCGAGGGCAGTACTGCTATGAACTGGACGAAAA
GGCAGTGAGGCCTGGGTACCCCAAGCTCATCCGAGATGTCTGGGGCATCGAGGGCCCCATCGATGCCGCCTTCAC
CCGCATCAACTGTCAGGGGAAGACCTACCTCTTCAAGGGTAGTCAGTACTGGCGCTTTGAGGATGGTGTCTTGGA
CCCTGATTACCCCCGAAATATCTCTGACGGCTTCGATGGCATCCCGGACAACGTGGATGCAGCCTTGGCCCTCCC
TGCCCATAGCTACAGTGGCCGGGAGCGGGTCTACTTCTTCAAGGGGAAACAGTACTGGGAGTACCAGTTCCAGCA
CCAGCCCAGTCAGGAGGAGTGTGAAGGCAGCTCCCTGTCGGCTGTGTTGAACACTTTGCCATGATGCAGCGGGA
CAGCTGGGAGGACATCTTCGAGCTTCTCTTCTGGGGCAGAACCTCTGCTGGTACCAGACAGCCCCAGTTCATTAG
CCGGGACTGGCACGGTGTGCCAGGGCAAGTGGACGCAGCCATGGCTGGCCGCATCTACATCTCAGGCATGGCACC
CCGCCCCCTCCTTGGCCAAGAAACAAAGGTTTAGGCATCGCAACCGCAAAGGCTACCGTTTACAACGAGGCCACAG
CCGTGGCCGCAACCAGAACTCCCGCCGGCCATCCCGCGCCATGTGGCTGTCTTGTCTTCTCCAGTGAGGAGCAA
CTTGGGAGCCAACAACCTATGATGACTACAGGATGGACTGGCTTGTGCCTGCCACCTGTGAACCCATCCAGAGTGT
CTTCTTCTTCTCTGGAGACAAGTACTACCGAGTCAATCTTCGCACACGGCGAGTGGACACTGTGGACCCTCCCTA
CCCACGCTCCATCGCTCAGTACTGGCTGGGCTGCCCAGCTCCTGGCCATCTGTAGGAGTCAGAGCCCACATGGCC
GGGCCCTCTGTAGCTCCCTCCTCCCATCTCCTTCCCCCAGCCCAATAAAGGTCCTTAGCCCCGAGTTTAAA

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FIGURE 4764

MAPLRPLLILALLAWVALADQESCKGRCTEGFNVDKKCQCDELCSYYQSCCTDYTAECKPQVTRGDVFTMPEDY
TVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVLKPEEEAPAPEVGASKPEGIDSRPETLHPGRPQPP
AEEELCSGKPFDAFTDLKNGSLFAFRGQYCYELDEKAVRPGYPKLIRDVWGIEGPIDAAFTTRINCQGKTYLFGKS
QYWRFEEDGVLDPDYPRNISDGFDPDNVDAALALPAHSYSGRERVYFFKGKQYWEYQFQHQPSECEGSSLSA
VFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRDWHGVPQGQVDAAMAGRIYISGMAPRPSLAKKQRFHRN
RKGYSQRGHSRGRNQNSRRPSRAMWLSLFSSEESNLGANNYDDYRMDWLVPATCEPIQSVFFFSGDKYYRVNLR
TRRVDTVDPYPYPRISIAQYWLGCAPAGHL

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FIGURE 4765A

ACAGACGGCGGGTGAACATGGCGTCCTCGACTTGGTCTGAGACGTGATAGGCCTGCCTTCTGGTTGAAGATGTGG
CGAGTGAAAAAACTGAGCCTCAGCCTGTGCGCTTCGCCCCAGACGGGAAAACCATCTATGAGAACTCCTCTCCGT
GAACTTACCCTGCAGCCCGGTGCCCTCACCAACTCTGGAAAAAGATCCCCCGCTTGCTCCTCGCTGACCCCATCA
CTGTGCAAGCTGGGGCTGCAGGAAGGCAGCAACAACTCATCTCCAGTGGATTTTGTAAATAACAAGAGGACAGAC
TTATCTTCAGAACATTTTCAGTCATTCTCTCAAAGTGGCTAGAACTTGTCTCAGCATGAATCAGATGAGCAGCCTCTA
GATCCAATTCCCCAAATTAGCTCTACTCTCTAAAACGTCTGAGGAAGCAGTAGACCCACTGGGCAATTATATGGTT
AAAACCATCGTCCTTGTACCATCTCCACTGGGGCAGCAACAAGACATGATATTTGAGGCCCGTTTAGATACCATG
GCAGAGACAAACAGCATATCTTTAAATGGACCTTTGAGAACAGACGATCTGGTGAGAGAGGAGGTGGCACCCTGC
ATGGGAGACAGGTTTTTCAGAAGTTGCTGCTGTATCTGAGAAACCTATCTTTTCAGGAATCTCCGTCCCATCTCTTA
GAGGAGTCTCCACCAAATCCCTGTTCTGAACAACTACATTGCTCCAAGGAAAGCCTGAGCAGTAGAACTGAGGCT
GTGCGTGAGGACTTAGTACCTTCTGAAAGTAACGCCTTCTTGCTTCTCTGTTCTCTGGCTTTCCCTTCAACT
GCCTTGGCAGCAGATTTCCGTGTCAATCATGTGGACCCAGAGGAGGAAATTGTAGAGCATGGAGCTATGGAGGAA
AGAGAAATGAGGTTTTCCACACATCCTAAGGAGTCTGAAACAGAAGATCAAGCACTTGTCTCAAGTGTGGAAGAT
ATTCTGTCCACATGCCTGACACCAAATCTAGTAGAAATGGAATCCCAAGAAGCTCCAGGCCCAGCAGTAGAAGAT
GTTGGTAGGATTCTTGGCTCTGATACAGAGTCTTGGATGTCCCCACTGGCCTGGCTGGAAAAAGGTGTAAATACC
TCCGTCTGCTGGAAAAATCTCCGCCAAAGCTTATCCCTTCCCTCGATGCTTCGGGATGCTGCAATTGGCACTACC
CCTTTCTCTACTTGCTCGGTGGGGACTTGGTTTACTCCTTCAGCACCACAGGAAAAGAGTACAAACACATCCCAG
ACAGGCCTGGTTGGCACCAAGCACAGTACTTCTGAGACAGAGCAGCTCCTGTGTGGCCGGCCTCCAGATCTGACT
GCCTTGTCTCGACATGACTTGGAAGATAACCTGCTGAGCTCTCTTGTCTATTCTGGAGGTTCTCTCCCGCCAGCTT
CGGGACTGGAAGAGCCAGCTGGCTGTCCCTCACCCAGAAACCCAGGACAGTAGCACACAGACTGACACATCTCAC
AGTGGGATAACTAATAAACTTCAGCATCTTAAGGAGAGCCATGAGATGGGACAGGCCCTACAGCAGGCCAGAAAT
GTCATGCAATCATGGGTGCTTATCTCTAAAGAGCTGATATCCTTGCTTCACCTATCCCTGTTGCATTTAGAAGAA
GATAAGACTACTGTGAGTCAGGAGTCTCGGCGTGCAGAAACATTGGTCTGTTGCTGTTTTGATTTGCTGAAGAAA
TTGAGGGCAAAGCTCCAGAGCCTCAAAGCAGAAAGGGAGGAGGCAAGGCACAGAGAGGAAATGGCTCTCAGAGGC
AAGGATGCGGCAGAGATAGTGTGGAGGCTTTCTGTGCACACGCCAGCCAGCGCATCAGCCAGCTGGAACAGGAC
CTAGCATCCATGCGGGAATTTCAGAGGCCTTCTGAAGGATGCCAGACCCAACTGGTAGGGCTTCATGCCAAGCAA
GAAGAGCTGGTTTCAGCAGACAGTGAAGTCTTACTTCTACCTTGCAACAAGACTGGAGGTCCATGCAACTGGATTAT
ACAACATGGACAGCTTTGCTGAGTCGGTCCCGACAACCTCACAGAGAACTCACAGTCAAGAGCCAGCAAGCCCTG
CAGGAACGTGATGTGGCAATTGAGGAAAAGCAGGAGGTTTCTAGGGTGCTGGAACAAGTCTCTGCCAGTTAGAG
GAGTGCAAAGGCCAAACAGAACAACCTGGAGTTGGAAAACAGTCGTCTAGCAACAGATCTCCGGGCTCAGTTGCAG
ATTCTGGCCAACATGGACAGCCAGCTAAAAGAGCTACAGAGTCAGCATACCCATTGTGCCAGGACCTGGCTATG
AAGGATGAGTTACTCTGCCAGCTTACCCAGAGCAATGAGGAGCAGGCTGCTCAXXXXXXXXXXXGAAGAGATGGCA
CTAAACACATGCAGGCAGAACTGCAGCAGCAACAAGCTGTCTGGCCAAAGAGGTGCGGGACCTGAAAGAGACC
TTGGAGTTTGCAGACCAGGAGAATCAGGTTGCTCACCTGGAGCTGGGTGAGGTTGAGTGTCAATTGAAAACACAA
CTGGAAGTGCTCCGGGAGCGCAGCTTGCAAGTGTGAGAACCTCAAGGACACTGTAGAGAACCTAACGGCTAAACTG
GCCAGCACCATAGCAGATAACCAGGAGCAAGATCTGGAGAAAAACAGGCAGTACTCTCAAAGCTAGGGCTGCTG
ACTGAGCAACTACAGAGCCTGACTCTCTTTCTACAGACAAAACTAAAGGAGAAGACTGAACAAGAGACCCCTTCTG
CTGAGTACAGCCTGTCTTCCCACCCAGGAACACCCTCTGCCTAATGACAGGACCTTCTGGGAAGCATCTTGACA
GCAGTGGCAGATGAAGAGCCAGAATCAACTCCTGTGCCCTTGCTTGGAAAGTGACAAGAGTGCTTTTACCCGAGTA
GCATCAATGGTTTCCCTTCAGCCCGCAGAGACCCCAAGCATGGAGGAGAGCCTGGCAGAAATGAGTATTATGACT
ACTGAGCTTCAGAGTCTTTGTTCCCTGCTACAAGAGTCTAAAGAAGAAGCCATCAGGACTCTGCAGCGAAAAATT
TGTGAGCTGCAAGCTAGGCTGCAGGCCAGGAAGAACAGCATCAGGAAGTCCAGAAGGCAAAAGAAGCAGACATA
GAGAAGCTGAACCAGGCCCTTGTGCTTGCCTACAAGAATGAAAAGGAGCTCCAGGAAGTGATACAGCAGCAGAAAT
GAGAAGATCCTAGAACAGATAGACAAGAGTGGCGAGCTCATAAGCCTTAGAGAGGAGGTGACCCACCTTACCCGC
TCACTTCGGCGTGCGGAGACAGAGACCAAAGTGTCTCAGGAGGCCCTGGCAGGCCAGCTGGACTCCAAGTCCAG
CCTATGGCCACCAATTGGATCCAGGAGAAAGTGTGGCTCTCTCAGGAGGTGGACAACTGAGAGTGTGTTCTCTG
GAGATGAAAAATGAGAAGGAAAACTCATGATCAAGTTCCAGAGCCATAGAAATATCCTAGAGGAGAACCTTCGG
CGCTCTGACAAGGAGTTAGAAAAACTAGATGACATTGTTTCAGCATATTTATAAGACCCTGCTCTCTATTCCAGAG

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FIGURE 4765B

GTGGTGAGGGGATGCAAAGAACTACAGGGATTGCTGGAATTTCTGAGCTAAGAAACTGAAAGCCAGAATCTGCTT
CACCTCTTTTTACCTGCAATACCCCCTTACCCCAATACCAAGACCAACTGGCATAGAGCCAACTGAGATAAATGC
TATTTAAATAAAAGTGTATTTAATG

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FIGURE 4766

MWRVKKLSLSLSPSPQTGKPSMRTPLELTLPQPGALTNSGKRSPACSSLTPSLCKLGLQEGSNSSPVDFVNNKR
TDLSEHFHSHSSKWLETCQHESEDEQPLDPIQIISSTPKTSEEAVDPLGNMVKTIIVLVPSPLGQQQDMIFEARLD
TMAETNSISLNGPLRTDDLVRREEVAPCMGDRFSEVAAVSEKPIFQESP SHLLEESPPNPCSEQLHCSKESLSSRT
EAVREDLVPSESNAFLPSSVLWLSPSTALAADFRVNHVDPEEEIVEHGAMEEREMRFP THPKESETEDQALVSSV
EDILSTCLTPNLVEMESQEAPGPAVEDVGRILGSDTESWMSPLAWLEKGVNTSVMLENLRQSLSLPSMLRDAAIG
TTPFSTCSVGTWFTPSAPQEKSTNTSQTGLVGTKHSTSETEQLLCGRPPDLTALS RHDLEDNLLSSIVILEVLSR
QLRDWKSQ LAVPHPETQDSSTQTD TSHSGITNKLQHLKESHEMGQALQQARNVMQSWVLISKELISLLHLSLLHL
EEDKTTVSQESRRAETLVCCCFD LLLKLRKLSLKAEREEARHREEMALRGKDAAEIVLEAFCAHASQRISQLE
QDLASMREFRGLLKDAQTQLVGLHAKQEELVQQT VSLTSTLQQDWRSMLDYTTWTALLSRSRQLTEKLT VKSQQ
ALQERDVAIEEKQEVSRVLEQVSAQLEECKGQTEQLELENSRLATDLRAQLQILANMDSQLKELQSQHTHCAQDL
AMKDELLCQLTQSNEEQAAQWQKEEMALKHMQAELQQQQAVLAKEVRDLKETLEFADQENQVAHLELGQVECLK
TTLEVLREERSLQCENLKDTVENLTAKLASTIADNQEQDLEKTRQYSQKLGLLTEQLQSLTLFLQTKLKEKTEQET
LLLSTACPPTQEHPLPNDRTFLGSILTAVADEEPESTPVPLLGS DKSFAFTRVASMVSLQPAETPGMEESLAEMSI
MTTELQSLCSLLQESKEEAIRTLQRKICELQARLQAQEEQHQEVQKAKEADIEKLNQALCLRYKNEKELQEVIQQ
QNEKILEQIDKSGELISLREEVTHLTRSLRRAETETKVLQEALAGQLDSNCQPMATNWIQEKVWLSQEVDKLRVM
FLEMKNEKEKLMIKFQSHRNILEENLRRSDKELEKLDDIVQHIYKTLLSIPEVVRGCKELQGLLEFLS

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FIGURE 4767

CCTTTGCCTTTGAGGCTCTGTGGCTGTGGGGCTGAGTGGCATCATGGCGGCTCAGAAAGATCTCTGGGACGCCAT
TGTGATTGGGGCGGGGATCCAGGGCTGCTTCACTGCATACCACCTGGCCAAACACAGGAAGAGGATCCTCCTGCT
GGAGCAGTTCTTTCTACCACACTCCCGAGGAAGCTCCCATGGACAAAGCCGGATAATCCGAAAGGCGTACCTGGA
AGACTTTTACACCCGGATGATGCATGAGTGTATCAGATATGGGCCCAGCTGGAGCACGAGGCTGGAACCCAATT
GCACAGGCAGACTGGATTACTGTGCTGGAATGAAAGAGAATCAAGAATTAAAGACAATCCAGGCCAATCTGTC
GAGGCAGAGGGTAGAACACCAGTGTCTTTCATCTGAGGAACTGAAGCAACGTTTCCCAAATATTCGGTTGCCAG
GGGAGAAGTGGGGCTCTTGACAATTCCGGAGGAGTTATCTATGCATATAAGGCCCTCAGAGCCCTGCAGGATGC
AATTCGACAGCTAGGAGGCATAGTGCCTGACGGAGAGAAGGTGGTGGAGATAAACCCAGGGCTACTGGTCACGGT
GAAAACCACCTCCAGGAGCTACCAAGCTAAGAGCTTGGTCATCACAGCAGGTCCTTGGACCAACCAGCTCCTCCG
TCCCCTGGGCATTGAGATGCCTCTCCAGACCCTGCGGATCAACGTGTGTTACTGGCGAGAGATGGTTTCTGGGAG
CTATGGTGTGTCCCAGGCCCTTTCGTGCTTCTGTGGCTGGGCTTGTGTCCCCACCACATCTACGGACTGCCAC
AGGAGAGTACCCAGGGCTGATGAAGGTGAGCTATCACCACGGCAACCACGCAGACCCTGAGGAGCGGGACTGCC
CACAGCACGCACAGACATCGGAGACGTCCAGATCCTGAGCAGCTTGTGTCAGAGATCACTTACCTGATCTGAAGCC
CGAGCCTGCTGTCTATTGAGAGCTGCATGTACACGAATACCCCTGATGAGCAGTTTATTCTCGATCGCCACCCAAA
GTATGACAACATTGTCTATTGGTGCTGGATTCTCTGGGCACGGGTTCAAGCTGGCCCCTGTGGTGGGGAAGATCCT
GTATGAATTAAGCATGAAATTAACACCATCTTATGACTTGGCACCTTTTCGAATCAGCCGTTTCCCAAGCCTGGG
CAAAGCCCACCTTTGACCTCTGGCCAGAAGCCTCCCTTCTGTGCACAGGAGCCAGTTTACAGATGGAGAAGATG
TCTCAGATGAAGGGAGTGTCCCTGAGATAATCATCCTTTTCTTCTGCCTCGCCTGAATCCCCCATAAACACCAGAT
GATTGAGTCTACCTTCTTTCTTGGCCCGCTCCCTTTTCTTCTGCCTCACTTGAATCCCCCGTAAACACCAGAC
GATTGAGTCTACCTTCTTTCTTGGCCACCTCCCCATTCACTACTTTCTCGCTCCAGAAAGGTTGATCAGAT
ATTCTACAATCACAGAGTAGCAAGGACGTTTGAGATGGGTATATCAGTAAGAAGAGGGCACAGAAGCTGGCTCTG
GAGACCAAAGCAGTTGTTAAAAATTCTCTTTGCTGGGGGCGGGTGTGGTGGCTCACACCTGTAATCTCGGCACT
TTGGGGGGCTGAGACAGGCGGATCACCTGAGGCCAGGAATTCAAGACCAGCCTGGCCAACATGGTGAAACCTTAT
CTCCACTAAAAATACAAAATTAGCTGGGTGTGGTGGCGCATGCCTGTAATCCCAGCTACTTGGGAGACTGAGGCA
AGAGAATCACTTGAACCCGGGAGGTGGAGGTGGCAGTGAGCCGAGATTGCGCCATTGCACTCCAGCCTGGGCAAA
AAGAGTGAGACTCTGTCTCAAAAAAAAAACAAAAACAAAAAACCTCTTTGCTGGTATATTTGAAGAGCTTGGGA
TGGATTTGACTAAATCTGCCCCGAGGAGGGTGAACAAGGTGATCTCAGAGATCACTACTGCTCTTGGAGTTTCTT
CTCCTAAAGCTAAGGCCAGCCTCCATCACAATGCCCATAAAAATCTGGCTCGTCTTTGATGAACAATAAATATTT
GTTGAACAAATAAATAACTGCCCTGC

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FIGURE 4768

GCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACAC
ACTTGTGTTCAATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTGTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTCGGCCTGATGGAGAGAAGAAGGCATATGTTTCGACTGGCTCCTGATTACGA
TGCTTTGGATGTTGCCAACAAGTAAGTTTCCTTCCTACAAACCCCTTAATGCTCACCCCTTGGGTGCAAATGAT
GCATATGTTAGCGACCAAGCCTGATCTTTGCTGATTAGTCATAATTAAGTACTGCACCCCTATCCTTGACAAA
CCTTATCCTCACATTCCTCATTTTGCTTT

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FIGURE 4769

TCAGTGAAGGAGTCTTCAAGTGCCCTGAGGACCAGCTTCCTCTGGACTATGCCAAGATCTACCCAGACCCGGAGC
TGGAAGTACAAGTATTGGGCCTGCCTATCCGCTGCATCCACAGTGAGGAGGGCTGCCGCTGGAGTGGGCCACTAC
GTCATCTACAGGGCCACCTGAATACCTGCAGCTTCAATGTCATTCCCTGCCCTAATCGCTGCCCCATGAAGCTGA
GCCGCCGTGATCTACCTGCACACTTGCAGCATGACTGCCCCAAGCGGCGCCTCAAGTGCGAGTTTTGTGGCTGTG
ACTTCAGTGGGGAGGCCTATGAGAGCCATGAGGGTATGTGCCCCAGGAGAGTGTCTACTGTGAGAATAAGTGTG
GTGCCCCGATGATGCGGCGGCTGCTGGCCCAGCATGCCACCTCTGAGTGCCCCAAGCGCACTCAGCCCTGCACCT
ACTGCACTAAGGAGTTCGTCTTTGACACCATCCAGAGCCACCAGTACCAGTGCCCCAAGGCTGCCTGTTGCCTGCC
CCAACCAATGTGGTGTGGGCACTGTGGCTCGGGAGGACCTGCCAGGCCATCTGAAGGACAGCTGTAACACCGCCC
TGGTGCTCTGCCCCATTCAAAGACTCCGGCTGCAAGCACAGGTGCCCTAAGCTGGCAATGGCACGGCATGTGGAGG
AGAGTGTGAAGCCACATCTGGCCATGATGTGTGCCCTGGTGAGCCGGCAACGGCAGGAGCTGCAGGAGCTTCGGC
GAGAGCTGGAGGAGCTATCAGTGGGCAGTGATGGCGTGCTCATCTGGAAGATTGGCAGCTATGGACGGCGGCTAC
AGGAGGCCAAGGCCAAGCCCCAACCTTGAGTGCTTCAGCCCAGCCTTCTACACACATAAGTATGGTTACAAGCTGC
AGGTGTCTGCATTCCCTCAATGGCAATGGCAGTGGTGAGGGCACACACCTCTCACTGTACATTCTGTGTGCTGCCTG
GTGCCTTTGACAATCTCCTTGAGTGGCCCTTTGCCCCGCGTGTCACCTTCTCCCTGCTGGATCAGAGCGACCCTG
GGCTGGCTAAACCACAGCACGTCACTGAGACCTTCCACCCCGACCCAAACTGGAAGAATTTCCAGAAGCCAGGCCA
CGTGGCGGGGCTCCCTGGATGAGAGTTCTCTGGGCTTTGGTTATCCCAAGTTCATCTCCCACCAGGACATTTCGAA
AGCGAACTATGTGCGGGATGATGCAGTCTTCATCCGTGCTGCTGTTGAACTGCCCCGGAAGATCCTCAGCTGAG
TGCAGGTGGGGTTTCGAGGGGAAAGGACGATGGGGCATGACCTCAGTCAGGCACTGGCTGAACTTGGAGAGGGGGC
CGGACCCCCGTCAGCTGCTTCTGCTGCCTAGGTTCTGTTACCCCATCCTCCCTCCCCCAGCCACCACCCTCAGGT
GCCTCCAATTGGTGCTTCAGCCCTGGCCCCGTGTTGGGAACAGGTCTTGGGGTCATGAAGGGCTGGAAACAAGTGA
CCCCAGGGCCTGTCTCCCTTCTTGGGTAGGGCAGACATGCCTTGGTGCCGGTCACACTCTACACGGACTGAGGTG
CCTGCTCAGGTGCTATGTCCCAAGAGCCATAAGGGGGTGGGAATTGGGGAGGGAGAAAGGGTAGTTCAAAGAGTC
TGTCTTGAGATCTGATTTTTTTCCCTTTTACCTAGCTGTGCCCCCTCTGGTTATTTATTTTCCTTAGTGCCAGGAG
GGCACAGCAGGGGAGCCCTGATTTTTTAATAAATCCGGAATTGTATTTATT

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FIGURE 4770

MPGFDYKFLEKPKRRLLCPLCGKPMREPVQVSTCGHRCDTCLQEFLSEGVFKCPEDQLPLDYAKIYPDPELEVQ
VLGLPIRCIHSEEGCRWSGPLRHLQGHINTCSFNVIPCPNRCMPKLSRRDLPAHLQHDCPKRRLKCEFCGCDFSG
EAYESHEGMCPQESVYCENKCGARMMRLLAQHATSECPKRTQPCTYCXLXXSSSLTPSRATSTSAQGCLLPAPT
NVVWALWLGRTCQAI

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FIGURE 4771

GAGACTCGCCCGGCTCAACCCCGACGTCCGCGCCCCGGCCGCCTGTTGGCC**ATG**GCGGGCCTGGGCCTGGGCTCC
GCCGTTCCCGTGTGGCTGGCCGAGGACGACCTCGGCTGCATCATCTGCCAGGGGCTGCTGGACTGGCCCGCCACG
CTGCCCTGCGGCCACAGCTTCTGCCGCCACTGCCTGGAGGCCCTGTGGGGCGCCCGCGACGCCCGCCGCTGGGCC
TGCCCCACTTGCCGCCAGGGCGCCGCGCAGCAGCCGCACCTGCGGAAGAACACGCTACTGCAGGACCTGGCCGAC
AAGTACCGCCGCGCCGCACGCGAGATACAGGCGGGCTCCGACCCTGCCCACTGCCCCCTGCCCCGGCTCCAGTTCC
CTCTCCAGCGCGGCCGCGAGGCCCCGGCGCCCGCGAACTGCAGCGGGTGGCAGTAGAGAAGAGCATCACAGAA
GTTGCTCAGGAGCTGACAGAGCTGGTGAACATCTTGTAGACATTGTCAGAAGCCTGCAGAATCAGAGGCCCTA
TCAGAATCTGGACCAGACAACGAAGTGAAGCATCCTGGGCAAGGAGAACTCCTGGAAGCCCCGTCTTCTCCTCAT
GCCCCATTGCCTGACCAGAGCCACCCTGCACTCAGGAGAGCTTCTCGGTTTGCTCAGTGGGCCATCCATCCAACCT
TTAACT**TGA**AGAGCCCTTTCCTGCAGCCTGGAGGTGTCCAAGGATTCCCGTACAGTGAAGTGTCTCACCGCCAC
AACCTATCGCTGGAGCTGTGAGAGGTTTTCTACCAGCCAGGTCTTATGTTCCAGGCCCTGTCTTCTGGAAAGC
ATTACTGGGAAGTGGACACTAGGAATTGCAGCCACTGGGCAGTTGGGGTGGCTTCTGGGAGATGAGCCGCGACC
AGGTCCTGGGAAGGACTATGGACTCTTGTGTGTGGAATGGAAGGGGACTAGCCAGCTCTCTGCATGGCACATGG
TCAAGGAAACTGTCCTTGGCTCAGACAGACCTGGGGTGGTGGGCATCTGGCTGAACCTTGAGGAGGGAAAGCTTG
CCTTCTATTAGTGGACAATCAGGAGAAGCTTCTGTATGAGTGTACCATCTCTGCCTCCTCTCCTTTGTACCCTG
CCTTCTGGCTGTATGGCTTACATCCTGGAAATTACCTGATAATAAAGCAAGTAAAGGTGTAAGGTTTCCTAAGGG
ATTACAACACAGTGGTTTCCTGGTCTCTCTCCCTGTCATCAATCAGGGTAGTAAGTGAAGTAAAGGTTTACCTT
TTTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTTGCCAGGCTGGTGTGCAATTCTGGTCTCAAGCAGT
CCTCCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGTGTGAGCCACCACACCTGGCCAAGAATACCACTTTTG
AAGTTAATCCTTTTGTGTGATACAGGATGAACTGGGATGTTTGAACCTGGACATTCCAATAAAGAATAGGCC
CCTGCCTGGCTCCTGGGAGATAACCTCTAAGCCATTAGAATATCTTGCTGATAAGAGTGTTTTTGTTTACCTGT
GGGCCTTGGGCCATGCAGTATCAGCTTGACCTTGCAAGGTCAAGCTGAGGAGACTAAGTTAGCCATGTGGGCAGT
GAAGCATGCCAATGTGATCAATCCCTAGTAAAGCCCTGGACACCTAGGCATGGGTGAGCTACTCTGGTTGGTAA
TACTCTGTGCACACATCATTTGTAGCCACACATCATTGCTGGGAGAATTAAGCATTATCCTGAAGACTCTGCCAGG
AGAGGATAATTGGAAGTTCTCTTGGACCTTACCTTATGTGCCTTTCTTCATTGCTGATTTTAATCTGTATCCTTT
CACTGTAATAAACTGTAAGTATGAGTGCAA

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FIGURE 4772

MAGLGLGSAVPVWLAEDDLGCIICQGLLDWPATLPCGHSFCRHCLEALWGARDARRWACPTCRQGAAQQPHLRKN
TLLQDLADKYRRAAREIQAGSDPAHCPCPGSSSLSSAAARPRRRPELQRVAVEKSITEVAQELTELVEHLVDIVR
SLQNQRPLSESGPDNELSILGKENSWKPRLPPhAHCLTRATLHSGELLGLLSGPSIQPLT

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FIGURE 4773A

AGGTGGAAAACTTGTGAAATATTTGGATCCCAACGACCTGGGGAGAATCAACTTCAAGGACTTTTGCCGGGGGG
TGTTTCGCCATGAAAGGGTGCGAGGAGCTGCTGAAGGATGTGCTGTCGGTGGAGAGCGCGGGGACGCTGCCGTGCG
CGCCAGAGATCCCAGACTGCGTGGAGCAGGGCAGCGAGGTACAGGCCCCACCTTTGCTGATGGCGAGCTCATCC
CCAGGGAACCCGGCTTTTTTCCCGAGGACGAGGAGGAGGCTATGACGCTGGCGCCACCTGAGGGCCCCCAGGAGT
TGTACACAGACAGCCCCATGGAGAGCACTCAGAGCCTGGAGGGGTCTGTCGGGAGTCTTGCCGAGAAGGACGGGG
GACTTGGGGGGCCTGTTTCTGCCAGAAGACAAGTCCCTGGTCCACACTCCATCCATGACGACCTCAGACCTTTCTA
CACACTCCACCACCTCGCTCATCAGCAATGAGGAGCAGTTTGAAGACTATGGGGAGGGTGACGATGTGGACTGTG
CCCCCAGCAGCCCTTGCCCCGATGATGAGACCAGGACCAACGTCTACTCGGACCTGGGGTCTTCCGTGTCTTCCA
GTGCGGGGCAGACGCCTAGGAAAATGCGGCACGTGTACAACAGCGAATTGCTAGATGTTTACTGCTCTCAATGCT
GCAAGAAAATCAACCTGCTCAATGACTTGGAAAGCCCGACTGAAAAACCTGAAGGCCAACAGCCCCAACCGAAAGA
TCTCCAGCACGGCCTTTGGACGGCAGCTCATGCACAGCAGCAACTTCAGCAGCAGCAATGGCAGCACCGAAGACC
TGTTCCGGGACAGCATTGACTCTTGCGACAATGACATCACAGAGAAGGTAAGCTTCCTGGAAGAAGGTGACAG
AGCTGGAGAATGACAGCCTGACCAATGGGGACCTGAAGAGCAAGCTGAAGCAAGAGAACACACAGCTGGTGCACA
GGGTGCATGAGCTGGAGGAGATGGTGAAGGATCAGGAGACCACGGCCGAGCAGGCTCTGGAGGAGGAGGCGCGGC
GCCACCGCGAGGCCTACGGCAAGCTGGAGAGGGAGAAGGCTACCGAGGTGGAGCTGCTCAATGCCAGGGTGCAGC
AGTTGGAGGAAGAAAATACAGAGCTTAGAACAACAGTGACTCGGCTCAAGTCTCAAACAGAGAACTGGATGAGG
AGCGGCAGCGCATGTCTGACCGTCTGGAGGACACCAGCCTGCGGCTCAAAGATGAGATGGACCTGTACAAGCGCA
TGATGGACAAGCTGCGACAGAACCGCCTTGAGTTCCAGAAGGAGCGGGAGGCGACGCAGGAGCTCATCGAGGACT
TGCGGAAGGAGCTGGAGCACCTGCAGATGTACAAGCTGGACTGCGAGCGGCCAGGCAGGGGCCGAGTGCCTCCT
CTGGCCTAGGCGAGTTCAATGCCAGGGCCCGAGGTGGAGCTCGAGCACGAGGTCAAGCGGCTCAAGCAGGAGA
ATTATAAGCTGCGGGATCAGAACGACGACTTGAATGGGCAGATTTGAGCCTCAGCCTCTACGAAGCAAAAAACC
TCTTTGCTGCCCAGACTAAAGCCAGTCTCTGGCTGCGGAGATAGACACCGCCTCGCGCATGAGCTAATGGAAG
CCCTGAAGGAGCAGGAGGAGATCAACTTCCGGCTGAGGCAGTACATGGACAAGATTATCTCGCCATCCTGGACC
ACAATCCCTCCATCCTCGAGATCAAACACTTAAGGCACGGGGCTGGCTGCAGAGCAGCCTTAGGACCCTGGGACCA
AGGGCAGACCCTGCCCAAGGATGCAGGCCTAAGCCGGGCCTCACACTCACACTGTAAATGTCTCTCTGGCCACCA
TGCGTTACGTGTACCCGTGTATATGTGGGGAGGCTGTGCACACGAGCGAGGGGTGAGTGGCCGTGGCTGTGGGCA
GCATCCACACGGTTAGCCGTGCATGCATTTGTGGCCCTTTGCAAGGGGCAGAGGGTACTGGAAGTGGGAGGAG
GCAAGGTCTGCTATCAGGAGTTACTGTAAAAACAAGAACTGGAAGCTCGTGTTCGGGTACTGGGTAAAATGATT
CTACCTCTGGGGATAAGGATTCACATTCGCTCTAGTACGATGGGCTCTTTCACCCCACTCCTAGTCCCCTTGGGA
GTGGGAGCAAAATTGTGATCTTTCCTAGGAGTTTGAATGCCCCATATTTGTGTCTCGCCAGCTCTTTGGCCACC
TTTCAAGCCCCAGTGTTCAAGCTCAGAGAGGATGAAGGGGCATCTGGAGGGTCCATGAGATGGGGCCCTCACCAA
ATGCCTTGGCCACCGGCCAGCAGCCCTCTGTGATGTGTGTGCAGAGTGAACAGAGGACTCAGGTTTTCATAGCAGC
TAGTGCGGGGCATCCTCATCCTGTACCTATAGAGTTTCGTGCACTCCCCCATCCATGCTACCTACCTCCCCGTTTC
TGTTTCAGTTTTTAAGACAATGAAGCAGCATTCACTGCGTCATTGTAACATGAAGGGATAAAAAATGAAGGAGAAGG
AGGGTTTGGGATGGGTGTCTAAGGCAGGAGTTGACATCGGGCAACCAAGAAATGAGTTTTGGGGAGGAACACAA
CTCCCATCCCAGTCAGTTTCCTTCCCATGGCTGCATCTTAAGATGGATGCACGGAGAAACCGTCTGCCTGGCTCC
CTGTCTTCATTCTCCACGCAGCCTGGTGATGGCAGGCCTGGGTTTGGATTTCAGAATCCTAGCTCCGGGCTCCAC
TCGTGTGGCAGCAAGACTGCTTCGTTCCAGCGTTTAGAAACACACCTGTATTTGATTCTCAGCCAGGGGAGCACT
CGCTGCACTGGTGGGAGGCGGTTGGGAAAGTTGCAGGAAAACCTTAGTCTTCCATCCTTCTGACCCATGGTGAA
ATTACACCATGGATTTTTAATGGATCTTTGTTCTAGGCAGCTGGGAATAGACATGGTACTTACCTTAGAGTTTT
CCAATTTATCTCAATTTTTATATGGCTTGTGATTCATTTTCTTAATCCAAATATATATAAACGTGTGTGGTCTTAT
TCTTCCCCCTGCAGTTTCTTGCTTCTTCAGCACATCTTATAGTATGAGAAGGAAGGTTTGGGCATGTTGGGAAG
GGCGGTGGAGGGGGAGTTGCAGAAAGAGAGGGCAGTGAGGGTGAGGAGAGGGGATCTGGGGACTTGGGTGTGACA
CCTGCTTGACAGAGGCAGGGCTGTGGCCAGGACCAACCTTCAATTCCATTCCAATCAGCCTTTGCATTTGTTGGA
TCTCGTGGCTTCTTTTTAATCTTTTGTGGGGATTAGTTTCATGCTGCACATAATGGGGTTGCACTGGTCTGACC
CAGGACTTTGGAGCCACCCACACTGGGAAGACTAGGCTAGGCAGTCGGTCTTCTAGGAGTTTCTCAGCCCCCTTAG
GACGCGGGTCTCCTTGGGCTCCCCAAGGGTTCTGCGAAGAGGCAGTGGAAGAAGGCATGAGGAGAGGGTCTCTT
GAGAATTTGCCAATAGGAAGGAGTGGCCACGGCTGAAAGGAACAAGACAGATCCTGACATAGCTTTGGCCTGGGT

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FIGURE 4773B

GTTAGGTCAGAAGGAGTACTGGTGCGTGGGGGCCTTACCCAGGGTTGAGTATTTTATCTGTAAAATGTTATCTG
CCCTTTGGCTGCATTGGAATTTTCAGAGAAGGCTGCAGAGGCCTGGGTTACACAGCCTGAGTCACAACGTGGGAAG
GAATCTCTGCCACGGGAAAGGTGGGCGGAAGCAGCTGGCAGCCTGGGGCGTGCTTCAGGCTCCTCCCTCTAAGGG
GCGCCATGGGAACAGGCTCCGGAGGGAGCCGGCGTCTGAAAGGCCCCGGGACCTGCTGCAGTGCCAGAGGGGCC
TCTGGAGCAGGCCTGGCTTTTTAAATGGGGGGCTGAATTCAGCTCACACACACCTCAAGTCCAACCTTACTTTCT
TCAGCCAGAATACATTTCTTGTAACCTGGCTTGTTGCTTGGCTTTTTAAAGATGGTGTATGTTTGTAATAATAT
TCTTCTGGGCTCAAAAGCTAGCTTGAGGGGGCAGATGCCCCAGGTGTCCAGCTCCACAGCCCCCTGGCAGATCCC
AGACCCCTTGGTGGCAGGTCCCAGAGCCTAGGTGGTAGGAGCTTGATCTTTGTTTCTGCCCTTACCCCTCAGTAG
TGGGGCTGCGAGGTAGTAGACAGGATGCCCAGTTAAGTTTGAATTTTCAGATAGAAAATAATTTTAGAATAAATAT
GTTCTATCTAATACATGGGACAGATGTTATTTTTAGAGATAGGATCTTGCTCTGTTGCCAGGCTGGAGTGTAGT
GGTATGATCATAGCTCACCACAACCTTGAACCTCCAGGCTCAAGCGATCCTCCCGCCTTAACTGCCTGAGTAGCT
GGGACTACAGGCATGCACCACCACGCCCAGCTAATTTTTCTTATTTTTTGTAGAGACAGGGTCTCACTGTGTTGC
CTCACTCGAGCTGCTGACCTCAAGTGATCCTCCACCTCAGCCTGCCAAAGCACTGGGATTACAGGCATGAGCCA
CCATGCCTGGCCAGGACATATTTGAAATGGGGAGATTTTAAAAATTCTGATGATTAGACTGAATCCTCAGACGTT
CTGGTTTGATTGTTGTGGGTGTAGCCCAGGCATGGGATTTTTTAAAGAGCTGCTCAGGTAATTCCAATTTAATTG
CGTGTCTACTTGGGTTTTTTGTTTGTATTTTATTGTTTTTGCTAAACCTGGCAACCCTACCGAGTAGGGATTAGC
AGTAACTTATCTGAAATTTAGAGGTGTTTTGGGGGTGGGGCGAGGGTTTCTGTAGTAGACTCAGATTTTACATGG
CCCTGAGCTGCCCTTGCGTTCAGTTGGAAGCCACGCAAAATGAACTGAACCAGGAGTGAGCTTCGTGTACATTAT
CTATTAGAAAATGAAGTACCTTCTGGTTTCAGCTAGTCCCTGTGCGTTGAGAGGCTTTAAGAACTTCTAGTAAAA
ATGTTTTTTTCTTTTAGCTTTGAATTGGCCAGAGTTTATCCTAGATTATTTTATTTTAAATTGGTAGAATTCCTT
GCGAACTGTCACAGAGAAATTCCTTTTCATGACTTTATTTCTGACCTATTAAACATGAACAGGCCAGGCATGGT
GGCTCACGCCTGTAATCCTAGCACTTGGGAGGCAGTGGCAGGCGGATCACTTGAGCTCAGGAGTCCTAAACCAGC
CTGGGCAACATAGTGATACCTTGTCTCTACCAAAAGTT

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FIGURE 4774

MKGCEELLKDVLSVESAGTLPCAPEIPDCVEQGSEVTGPTFADGELIPREPGFFPEDEEEEAMTLAPPEGPQELYT
DSPMESTQSLEGSVGSPA EKDGGLGGLFLPEDKSLVHTPSMTTSDLSTHSTTSLISNEEQFEDYGE GDDVDCAPS
SPCPDDETRTNVYSDLGSSVSSSAGQTPRKMRHVYNSEL LDVYCSQCCKKINLLNDLEARLKNLKANS PNRKISS
TAFGRQLMHSSNFSSNGSTEDLFRDSIDSCDNDITEKVSFLEKKVTELEND SLTNGDLKSKLKQENTQLVHRVH
ELEEMVKDQETTAEQALEEEEARRHREAYGKLEREKATEVELLNARVQQLEEEENTELRTTVTRLKSQTEKLDEERQ
RMSDRLEDTSRLKDEMDLYKRMDKLRQNRLEFQKEREATQELIEDLRKELEHLQMYKLD CERPGRGRSASSGL
GEFNARAREVELEHEVKRLKQENYKLRDQND DLNGQILSLSLYEAKNLFAAQTKAQSLAAEIDTASRDELMEALK
EQEEINFRLRQYMDKIILAILDHNPSILEIKH

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FIGURE 4775

GGCTGATTGGCGCTTCTGCGGCGGATCCTCGGGCGGGCAGCCGGGGCCGGCGCGTACAGTGGCCACGGCGTCCAG
GGCGACCAGCCGCGGGCCGCAGGGCATGGACCTTCAGGCCGCCGGGGCCAGGCGCAGGGGGCCGCGGAGCCGTC
TCGGGGCCCGCCGCTGCCTAGCGCGCGGGGGGCGCCCCCAGCCCGGAGGCTGGCTTTGCTACAGCTGACCACTC
CAGTCAGGAGAGAGAGACTGAGAAGGCTATGGATCGACTAGCCCGTGGAACACAGAGCATTCTAATGACAGTCC
TGCCCGGGGTGAGGGCACCCATTCTGAAGAGGAAGGCTTTGCCATGGATGAGGAGGACTCTGATGGAGAACTGAA
TACCTGGGAGCTGTCAGAAGGGACAACTGTCCACCCAAGGAACAGCCTGGCGATCTTTTAAATGAGGACTGGGA
CTCGGAGTTGAAAGCAGATCAAGGGAATCCATATGATGCTGACGACATCCAGGAGAGCATTCTCAAGAGCTTAA
ACCTTGGGTGTGCTGTGCCCCACAAGGAGACATGATCTATGACCCAGCTGGCACCATCCGCCTCCACTGATACC
CTATTATTCCAAGATGGTCTTTGAAACAGGACAGTTTGACGATGCTGAAGATTGAGTGTGGAGCTTTCTGCCTTG
TAGGTGGGCGGGCCTCCACGTCAAGATCTCTTTTCCTGTCTTGGAGGTGAAAAGTCATATCTGAGAAAATGTTTG
CAGTGACCCCTAGTCTGGGGTACACAGACCAGTGTTCCTTATTGACAGTGTTCAATAAGGCCCCGTCATTCTCGC
CAGTCTGTTGTTGTTCTTAATGGGCTCCTCCTTGAAATGTGTGTGTGTTTGTGTCAAGAGGAGTTGTGTTCTTTG
TAAATAAAGGTTAAAAAGAG

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FIGURE 4776

MDLQAAGAQAQGAAEPSRGPPPLPSARGAPPSPEAGFATADHSSQERETEKAMDRLARGTQSIPNDSPARGEGTHS
EEEGFAMDEEDSDGELNTWELSEGTCNCPKQPGDLFNEDWDSELKADQGNPYDADDIQESISQELKPWVCCAPQ
GDMIYDPSWHHPPLIPYYSKMVFETGQFDDAED

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FIGURE 4777

GAGGCGGAGCGGGGAACGAGGCCGTCGGCCATTTTGTGTCTGCTTCCTGTGGGACGTGGTGGTAGCCGTTGGGTT
GGGAAAGTGAGGGATTTTTGGCCTCGTTTCTCCTGCTTCTTTTCTCCTCCCTTTTACTTTGCCGGTAGAACACAG
TTATGGGTCGCAAGAAGAAGAAGCAGCTGAAGCCGTGGTGTGATTGTAATAGAGATTTTGATGATGAGAAGA
TCCTTATTTCAGCACCAAAAAGCAAAGCATTTTAAATGCCATATATGTCACAAGAAATTGTATACAGGACCTGGCT
TAGCTATTTCATTGCATGCAGGTACATAAAGAAACAATAGATGCCGTACCAAATGCAATACCTGGAAGAACAGACA
TAGAGTTGGAAATATATGGTATGGAAGGTATTCCAGAAAAAGACATGGATGAAAGACGACGACTTCTTGAACAGA
AAACACAAGAAAGTCAAAAAAGAAGCAACAAGATGATTCTGATGAATATGATGATGACGACTCTGCAGCCTCAA
CTTCATTTTCAGCCACAGCCTGTTCAACCTCAGCAAGGTTATATTCTCCAATGGCACAGCCAGGACTGCCACCAG
TACCAGGAGCACCAGGAATGCCTCCAGGCATACCTCCATTAATGCCAGGTGTTCTCTCTGATGCCAGGAATGC
CACCAGTTATGCCAGGCATGCCACCTGGATTGCATCATCAGAGAAAATACACCCAGTCATTTTGCGGTGAAAACA
TAATGATGCCAATGGGTGGAATGATGCCACCTGGACCAGGAATACCACCTCTGATGCCTGGAATGCCACCAGGTA
TGCCCCACCTGTTCCACGTCTGGAATTCCTCCAATGACTCAAGCACAGGCTGTTTCAGCGCCAGGTATTCTTA
ATAGACCACCTGCACCAACAGCAACTGTACCTGCCCCACAGCCTCCAGTTACTAAGCCTCTTTTCCCCAGTGCTG
GACAGATGGGGACACCTGTCAAGCTCAAGTACAGCTTCATCCAATTCAGAAAGTCTGTCTGCATCTTCTAAAG
CTCTGTTTCTTAGCACAGCACAAAGCTCAGGCAGCTGTCCAAGGACCTGTTGGTACAGATTTCAAACCTTAAATA
GTACCCCTGCAACAACCTACAGAACCCCCAAAGCCTACATTCCCTGCTTATACACAGTCTACAGCTTCAACAACCTA
GTACAACAATAGTACTGCAGCTAAAACAGCGGCTTCAATAACAAGTAAGCCTGCTACACTTACAACAACCTAGTG
CAACCAGTAAGTTGATCCATCCAGATGAGGATATATCCCTGGAAGAGAGAAGGGCACAGTTACCTAAGTATCAAC
GTAATCTTCTCGGCCAGGACAGGCCCCCATCGGTAATCCACCAGTTGGACCAATTGGAGGTATGATGCCACCAC
AGCCAGGCATCCACAGCAACAAGGAATGAGACCCCAATGCCACCTCATGGTCAGTATGGTGGTCATCATCAAG
GCATGCCAGGATACCTTCCTGGTGCTATGCCCCCGTATGGGCAGGGACCGCCAATGGTGCCCCCTTACCAGGGTG
GGCCTCCTCGACCTCCGATGGGAATGAGACCTCCTGTAATGTCGCAAGGTGGCCGTTACTGATCTTACTTCATCC
AGTCTAATAGGTTTGGAGATTAAACCTTTTCTCAACTTGTGCTGTTTATATAGCCAAGCTTCCGTCAATAAGGCT
TCATTGTGACTTTAACAACATTATCTTCCCACATACCAGGAACCTATTGGACATTTATTTTACATGGGAAAAATT
ATTTGGAATAATAAAGCAGGAACCTTTTCTGAAGTTGCAATTTATACTGTATGGCTTCTTTTTCATGTTTCATCT
AGGTTTTTGAAGTGAAGTATAGTAAATTTGGTTTCGTTAAATTGTGAAGGCGCTGGAATTACATGAACATACCAC
CCTAGTAAAGGCAAGTTCTGTAAGCTTACATTGCTATTTGTAAAGTTTGCCTTCACAGCATTTTCAGATGCTGTTG
GACTTCATGTCCCCAACCTAGCTTGGTGAGGGCTGTAAGTGTTCCTCAAGTACTGTACATTGGAAGTCTGAATGT
GTAACAATATTTAATGTATTTAGAGTTCCTCATGTTGCAGGGTTTAAAGAAATCTGACCCACCAAGGTCATGTGAC
TTTTCTGTACTGTAAACTTCATTGTAATAAAATGAGAGAAAAATTTATGCCTTTTTATTTCATAACCCAGCTGTG
GACCACTGCCTGAAAGGTTTGTACAGATGCATGCCACAGTAGATGTCCACATAATAAAATTCATAGTTACCAATG
CA

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FIGURE 4778

ATGGCGGCGGCGGCGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCATCGAC
ATCCTCCACTCCATCGTGAAGCGTGACATTCAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGAGCAGAGCATC
CTGGAACTGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTGAAGTATGTACGACCC
TTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAA
GCAGCTACAGGGCAGGAGGTTCGAGCTGTGTTTAGAGTCCATCGAATGGGCCAAGTCAGAGAAAAAGAACTTTCTTA
CGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACCAAGAGGTACCAGGAAGCATTGCATTTGGGT
TCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAGCTCTTTTGGTGGAAGTACAGCTTTTAGAAAGCAAA
ACATACCATGCCCTGAGCAACCTGCCGAAAGCCCGAGCTGCCTTAACTTCTGCTCGAACCACAGCAAAATGCCATC
TACTGCCCCCTAAATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGG
AAAAGTGGTACTCATACTTCTATGAGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCT
CTGAAGTACATGTTGCTGTGCAAAATCATGCTCAACACCCCAGAAGATGTCCAGGCTTTGGTGAGCGGGAAGCTT
GCACTTCGGTATGCAGGGAGGCAGACAGAAGCATTAATAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCA
GATTTTGAAGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCCAATCATCAGCACACACTTGGCCAAG
TTGTATGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAACCTCTCCAAGGCCGACGTGGAAAGGAAATTATCACAGATGATTCTTGACAAGAAATTCAT
GGGATTTTGGACCAGGGGGAGGGTGTCTGATTATTTTCGATGAACCCCCAGTAGATAAACTTACGAAGCTGCT
CTGGAAACAATTCAGAACATGAGCAAAGTAGTGGATTCCCTCTACAACAAAGCCAAGAACTGACATAG

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FIGURE 4779

MAAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLAKTGQAAELGGLLK YVRP
FLNSISKAKAARLVRSLLDLFLDMEAATGQEVELCLESIEWAKSEKRTFLRQALEARLVSLYFDTKRYQEALHLG
SQLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATLDMQSGIIHAAEEKDW
KTAYSIFYEAFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDEVQALVSGKLALRYAGRQTEALKCVAQASKNRS LA
DFEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLIRVIEPFSRVQIEHISSLIKLSKADVERKLSQMILDKKFH
GILDQGEGLIIFDEPPVDKTYEAALETIQNM SKVVDSLYNKAKKLT

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FIGURE 4780

GGCAGGCCCGCGCCCGCGCCCGGACTTTGCCATCGGCGGGGCAGTCGCGGGATGCGCCCGGGAGCCACAGCCTGA
GGCCCTCAGGTCTCTGCAGGTGTCTGAGGAACCTAGCACCTGCCATCCTCTTCCCCAATTTGCCACTTCCAGC
AGCTTTAGCCCATGAGGAGGATGTGACCGGGACTGAGTCAGGAGCCCTCTGGAAGCATGGGAGACTGTGGTGATTG
TTGCCATAGGTGTCTTGCCACCATCTTTCTGGCTTCGTTTGCAGCCTTGGTGCTGGTTTGCAGGCAGCGCTACT
GCCGCGCGCGAGACCTGCTGCAGCGCTATGATTCTAAGCCCATTGTGGACCTCATTGGTGCCATGGAGACCCAGT
CTGAGCCCTCTGAGTTAGAACTGGACGATGTCGTTATCACCAACCCCCACATTGAGGCCATTCTGGAGAATGAAG
ACTGGATCGAAGATGCCTCGGGTCTCATGTCCCACTGCATTGCCATCTTGAAGATTTGTCACACTCCGACAGAGA
AGCTTGTGGCATGACAATGGGCTCTGGGGCCAAGATGAAGACTTCAGCCAGTGTGACGACATCATTGTGGTGG
CCAAGCGGATCAGCCCCAGGGTGGATGATGTTGTGAAGTCGATGTACCCTCCGTTGGACCCCAAACCTCCTGGACG
CACGGACGACTGCCCTGCTCCTGTCTGTCAGTCACCTGGTGCTGGTGACAAGGAATGCCTGCCATCTGACGGGAG
GCCTGGACTGGATTGACCAGTCTCTGTCGGCTGCTGAGGAGCGTTTGGAAGTCCTTCGAGAAGCAGCCCTAGCTT
CTGAGCCAGATAAAGGCCTCCCAGGCCCTGAAGGCTTCTGTCAGGAGCAGTCTGCAATTTAGTGCCTACAGGCCA
GCAGCTAGCCATGAAGGCCCTGCCGCCATCCCTGGATGGCTCAGCTTAGCCTTCTACTTTTTCTATAGAGTTA
GTTGTTCTCCACGGCTGGAGAGTTCAGCTGTGTGTGCATAGTAAAGCAGGAGATCCCCGTCAGTTTATGCCTCTT
TTGCAGTTGCAAACCTGTGGCTGGTGAGTGGCAGTCTAATACTACAGTTAGGGGAGATGCCATTCACTCTCTGCAA
GAGGAGTATTGAAAACCTGGTGGACTGTCAGCTTTATTTAGCTCACCTAGTGTTTTCAAGAAAATTGAGCCACCGT
CTAAGAAATCAAGAGGTTTCACATTAAAATTAGAATTTCTGGCCTCTCTCGATCGGTCAGAATGTGTGGCAATTC
TGATCTGCATTTTCAGAAGAGGACAATCAATTGAACTAAGTAGGGGTTTCTTCTTTTGGCAAGACTTGTACTCT
CTCACCTGGCCTGTTTCATTTATTTGTATTATCTGCCTGGTCCCTGAGGCGTCTGGGTCTCTCCTCTCCCTTGCA
GGTTTGGGTTTGAAGCTGAGGAAC TACAAAGTTGATGATTTCTTTTTTATCTTTATGCCTGCAATTTTACCTAGC
TACCACTAGGTGGATAGTAAATTTATACTTATGTTTCCCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4781

METVVIVAIGVLATIFLASFAALVLVCRQRYCRPRDLLQRYDSKPIVDLIGAMETQSEPSELELDDVVITNPHE
AILENEDWIEDASGLMSHCIAILKICHTPTEKLVAMTMGSGAKMKTSAVSVDIIVVAKRISPRVDDVVKSMYPPL
DPKLLDARTTALLLSVSHLVLVTRNACHLTGGLDWIDQSLSAAEERLEVLREAALASEPDKGLPGPEGFLQEQSA
I

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FIGURE 4782

ATGCTGAAGCTCACACCCTTGCCCTCCAAGATGAAGGTTTCTGCAGCGCTTCTGTGCCTGCTGCTCATGGCAGCC
ACTTTCAGCCCTCAGGGACTTGCTCAGCCAGATTTCAGTTTCCATTCCAATCACCTGCTGCTTTAACGTGATCAAT
AGGAAAATTCCTATCCAGAGGCTGGAGAGCTACACAAGAATCACCAACATCCAATGTCCCAAGGAAGCTGTGATC
TTCAAGACCCAACGGGGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGATGGGTCAGGGATTCCATGAAGCATCTG
GACCAAATATTTCAAATCTGAAGCCATTGA

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FIGURE 4783

MLKLTPPSKMKVSAALLCLLLMAATFSPQGLAQPDVSIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVI
FKTQRGKEVCADPKERWVRDSMKHLDQIFQNLKP

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FIGURE 4784

CTGGAACCCGGAAGCGGCAGCGCGGCGGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCCGCAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGA CTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGGCCCTGGTTGCCCTGAGGCGGGTGCTGCTGGCTCAGTTCTCGGCTTTCCC
CGTGAATGGCGCTGATCTCCACGAGGAAGTGAAGACCTCTACTGCCATCCTGTCCACTGGCATTGGCAGTCTTGA
TAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGAAGTGAATTTAGGAGGCCCAGGTAGCGGCAAACTCA
GGTATGTCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGCAAAACGTCCTATATGTAGATTCCAATGGAGG
GCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCCAGGATGAGGAGGAACAGGCAGAAGCTCTCCG
GAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGC
CCAGCAGGTGACTGGTTCTTCAGGAAGTGTGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACT
TCTGGGAGGTGAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGCTGGCCCGAGAGCTGAAGACCCCTGGCCCGGGA
CCTTGGCATGGCAGTGGTGGTGACCAACCACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGG
ACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCG
GCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGG
GACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGACTGACTGTGCTGTTGTTTGGGAAACAGGGAAGCAT
TGGGGACCCCTCCCAACTTTTCTTCCAGTAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGT
TCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCCCTTGGCCTCACTCTCTGTAAGCATATAAAACCACAGCGGAAAG
AGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCACGTTTCCTTCCCTTATTTCTAACGTGTATGTT
TCTGGTGGAACCAAGTTCACCCTGGCTGGGAGCATCTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTG
TGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTG
CTGCTGCCTTTTTTTTTCTTTGTCTCTGCCTTTCCATTTGTTAGATGGGGGCCCACTCTTCCTTAGCTCTGTCTC
TGAGTTACTGGGTGGAATAAGCTTATAAATGAAATACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAA
AGGCAATTCCCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4785

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKALVALRRVLLAQFSAFPVNGADLHEEL
KTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLCMAANVAHGLQQNVLYVDSNGGLTASRLQLL
QAKTQDEEEQAEALRRIQVVHAFDIFQMLDVLQELRGTVAQQVTGSSGTVKVVVDSVTAVVSPLLGGQOREGLA
LMMQLARELKTLLARDLGMAVVVTNHITRDRDSGRLLKPALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSR
QPTGFQEMVDIGTWGTSEQSATLQGDQT

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FIGURE 4786

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCCTTGGTGCCGCTCCTCCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCTTGATAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGACTGAAA
TTGTAGGAGGCCCAGGTAGCGCAAAACTCAGGTATGTCTCTGTATGGCAGCAAATGTGGCCCATGGCCTGCAGC
AAAACGTCCTATATGTAGATTCCAATGGAGGGCTGACAGCTTCCCGCCTCCTCCAGCTGCTTCAGGCTAAAACCC
AGGATGAGGAGGAACAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCAGATGCTGG
ATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCCAGCAGGTGACTGGTTCTTCAGGAAGTGTGAAGGTGGTGGTTG
TGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGGCCTTGATGATGCAGC
TGGCCCGAGAGCTGAAGACCCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAAATCGAGACA
GGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTCGGATTCTCCTGGACA
CCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCCAACAGGTT
TCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGGTGATCAGACATGAC
CTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAGTAACGCCTGCTGTTT
ACTGCCACCTGGCACTGGTGAATACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGGGTTTCTTGGCCTCAC
TCTCTGTAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACTGGTGCCAC
GTTTCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAAACCAAGTTCACCCTGGCTGGGAGCATCTCTGATG
AGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGCAGTGGCCA
AGCCGGGAAAAGCCTCTAACTTGCCCTTGCTGCTGCTGCCTTTTTTTTTCTTTTGTCTCTGCCTTTCCATTTGTAG
ATGGGGGCCCCACTCTTCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAAATGAAATACTCTCT
TCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

5189/6881
FIGURE 4787

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

5190/6881
FIGURE 4788

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGCGGGCGGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAACATGGGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGTCTTGATAAACTGCTTGATGCTGGTCTCTATACTGGAGAAGTGAAGTGA
TTGTAGGAGGCCAGGTAGCGGCAAACTCAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACA
TCTTCCAGATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCCAGCAGGTGACTGGTTCTTCAGGAAGT
TGAAGGTGGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTCAGCAGAGGGAAGGCTTGG
CCTTGATGATGCAGCTGGCCCCGAGAGCTGAAGACCCTGGCCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACC
ACATAACTCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCCAGCACTC
GGATTCTCCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCC
GACAGCCAACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGG
GTGATCAGACATGACCTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCAACTTTTCTTCCCAG
TAACGCCTGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGG
GTTCTTGGCCTCACTCTCTGTAAGCATATAAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAAT
TCATACTGGTGCCACGTTTCCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAACCAAGTTCACCCTGGCTG
GGAGCATCTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCTGTGCTCCCTC
CTAGCGCAGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCTTTGCTGCTGCTGCCTTTTTTTTCTTTTGTCTCTGC
CTTTCCATTTGTTAGATGGGGGCCCACTCTTCCCTTAGCTCTGTCTCTGAGTTACTGGGTGGAATAAGCTTATAA
ATGAAATACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

5191/6881
FIGURE 4789

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKS

5192/6881
FIGURE 4790

CTGGAACCCGGAAGCGGCAGCGCGGCGCGACCCGGCGGGCGGGCTCTGGGCGCGGGAATCCCGGCGGATCCCGGG
CGGGCGGATGACCCCCAGCCCTACCCTTGGTGCCGCCTCCTCCTCTCTCCTTTCTCCTCCGGCAGCCAGCGCGCC
TGTGTCTCTCTAGGAAGGGGTAGGGGAGGGGCGTCTGGAGAGGACCCCCGCGAATGCCACGTGACGTGCAGT
CCCCCTGGGGCTGTTCCGGCCTGCGGGGAAC**ATG**GGCGTGCTCAGGGTCGGACTGTGCCCTGGCCTTACCGAGGA
GATGATCCAGCTTCTCAGGAGCCACAGGATCAAGACAGTGGTGGACCTGGTTTCTGCAGACCTGGAAGAGGTAGC
TCAGAAATGTGGCTTGTCTTACAAGGCAGAAGCTCTCCGGAGGATCCAGGTGGTGCATGCATTTGACATCTTCCA
GATGCTGGATGTGCTGCAGGAGCTCCGAGGCACTGTGGCCAGCAGGTGACTGGTTCTTCAGGAACTGTGAAGGT
GGTGGTTGTGGACTCGGTCACTGCGGTGGTTTCCCCACTTCTGGGAGGTGAGCAGAGGGGAAGGCTTGGCCTTGAT
GATGCAGCTGGCCCGAGAGCTGAAGACCCTGGCCCGGGACCTTGGCATGGCAGTGGTGGTGACCAACCACATAAC
TCGAGACAGGGACAGCGGGAGGCTCAAACCTGCCCTCGGACGCTCCTGGAGCTTTGTGCCAGCACTCGGATTCT
CCTGGACACCATCGAGGGAGCAGGAGCATCAGGCGGCCGGCGCATGGCGTGTCTGGCCAAATCTTCCCGACAGCC
AACAGGTTTCCAGGAGATGGTAGACATTGGGACCTGGGGGACCTCAGAGCAGAGTGCCACATTACAGGTGATCA
GACAT**TGA**CCTGTGCTGTTGTTTGGGAAACAGGGAAGCATTGGGGACCCCTCCCACTTTTCTTCCAGTAACGCC
TGCTGTTTACTGCCACCTGGCACTGGTGACTACAGACGTTCTCAGGCTGGCCAGAAGAGACATCTTGGGTTCCTT
GGCCTCACTCTCTGTAAAGCATATAAACCACAGGCGAAAGAGGATGCTGCATTGCGAGGACCCAGAAATTCATACT
GGTGCCACGTTTCCCTTCCCTTATTTCTAACGTGTATGTTTCTGGTGGAAACCAAGTTCACCCTGGCTGGGAGCAT
CTCTGATGAGGCATGCTGGCGACTGGATGGATAATCCTGTGCATCACCATTGTGTCCTGTGCTCCCTCCTAGCGC
AGTGGCCAAGCCGGGAAAGCCTCTAACTTGCCCTTGTGCTGCTGCCTTTTTTTCTTTTGTCTCTGCCTTTCCA
TTTGTTAGATGGGGGCCCACTCTTCTTAGCTCTGTCTCTGAGTTACTGGGTGGAAATAAGCTTATAAATGAAAT
ACTCTTCTTCATCTCTGTTTTGCTCTTAAAAATATAAAAAGGCAATTCCCCG

5193/6881
FIGURE 4791

MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKAEALRRIQVVHAFDIFQMLDVLQELRG
TVAQQVTGSSGTVKVVVDSVTAVVSPLLGGQQREGLALMMQLARELKTILARDLGMAVVVTNHITRDRDSGRLKP
ALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSRQPTGFQEMVDIGTWGTSEQSATLQGDQT

5194/6881
FIGURE 4792

GTGGGGACGCAGG**ATG**GCGGCAGCAGTGGCGGACGAGGCGGTGGCGCGCGATGTGCAGCGGTTGCTAGTGCAGTT
CCAGGATGAGGGCGGGCAGCTGCTGGGTTCCCCGTTTCGACGTGCCCCGTGGACATCACCCCGGACAGGCTGCAGCT
CGTGTGCAACGCGCTACTGGCCCAGGAGGATCCCCTGCCACTGGCTTTCTTTGTCCACGATGCTGAGATCGTCTC
CTCACTGGGGAAGACGTTGGAGTCCCAGGCAGTGGAGACAGAGAAGGTCTTAGACATCATCTACCAGCCACAGGC
TATCTTCAGAGTCCGGGCTGTGACTCGCTGCACCAGCTCCTTGGAGGGTCACAGTGAGGCAGTCATTTCTGTGGC
CTTCAGCCCTACGGGAAAGTACCTGGCCAGTGGCTCTGGAGACACCACCGTGCCTTCTGGGATCTCAGCACAGA
GACACCACATTTACATGCAAGGGACACAGACACTGGGTCTCTAGTATATCCTGGTCTCCAGATGGCAAGAAGCT
GGCCTCAGGCTGCAAGAATGGCCAGATTCTCCTCTGGGACCCAAGCACAGGGAAGCAGGTGGGCAGGACCCCTCGC
TGGCCACAGCAAGTGGATCACAGGCCTGAGCTGGGAGCCCCCTCCATGCGAACCCTGAGTGCCGCTATGTGGCCAG
CAGCTCCAAGGATGGCAGTGTGCGGATCTGGGACACAACCTGCAGGCCGCTGTGAGCGCATCTCACCAGGGCACAC
CCAGTCGGTCACCTGTCTCCGGTGGGGAGGGGACGGGCTTCTCTACTCTGCCTCCCAGGACCGCACCATCAAAGT
CTGGAGAGCTCATGACGGTGTGCTGTGCCGACTCTGCAAGGCCACGGCCACTGGGTGAACACCATGGCCCTCAG
CACTGACTATGCCCTGCGCACTGGGGCCTTTGAACCTGCTGAGGCCTCAGTTAATCCCCAAGACCTCCAAGGATC
CTTGCAAGGAGTTGAAGGAGAGGGCTCTGAGCCGATAACAACCTCGTGCGGGGCCAGGGTCCAGAGAGGCTGGTGT
TGGCTCCGACGACTTCACCTTATTCTGTGGTCCCCAGCAGAGGACAAAAAGCCTCTCACTCGGATGACAGGACA
CCAAGCTCTCATCAACCAGGTGCTCTTCTCTCTGACTCCCGCATCGTGGCTAGTGCCTCCTTTGACAAGTCCAT
CAAGCTGTGGGATGGCAGGACGGGCAAGTACCTGGCTTCCCTACGCGGCCACGTGGCTGCCGTGTACCAGATTGC
GTGGTCAGCTGACAGTCGGCTCCTGGTCAGCGGCAGCAGTGACAGCACACTGAAGGTGTGGGATGTGAAGGCCCA
GAAGCTGGCCATGGACCTGCCCGGCCACGCGGATGAGGTATATGCTGTTGACTGGAGTCCAGATGGCCAGAGAGT
GGCAAGTGGTGGGAAGGACAAATGCCTCCGGATATGGAGGAGAT**TGA**GACGCGCCCGAAGTTCTCTCTGACCCCCAC
CTCGACTCGGCCTCTGCCAGCTGCCTTCCCTGCCAGAGAACAAGGCTGAGATGGCAGTGACACACCCCTCCCCA
CCAGTGGGGACCTGAGAAATGCGTGTGGCCTGCTGTCTCGATAGACCGGAATGGGGTTTTCCACAGATCCCCGC
CTGTGGCACACCCCAGAGCCAGAAATCGAAGGTACAGGAAGTTGTCACTGAACTTGGCCCGTGTCTGCTACTCT
GTACCTTGCTGGTACAGACAGGGGTGGTGGGCAGCCAGGCTCTATGAGTGGGCCCTAGTGTGAGCTCTGTACAG
GGTCAGATCCCAGGTTCTATGACCAATAAGTAACTTAAGTTTTGTGTGTTGGGTTCTAATTCCTTGTCTAGAA
TCCCCATGACTCAATCAAGGACTGTGCTAAATGAGATTGTCCAGCCCCCGCCCTTGCCTGGACTACGCCAAAAC
CACACTGACCAGGCACTTGCCCTCCCTCTCTTCCCCCGTGTGGTAAGAGAGAGGCCAGTTGTGATAGTGGCCAA
GGAGAATCTAGGGCTGTATTGTTGTCCACTGCAGTAGGCACCGGCCACATGTGACTGCTGGCATGAAATAGAAGT
GCAGTTCCTCCATCGCACTGGGTAAAGGCCTCCAGTATTGGACAGCACACAGAAAGGTTTTATCATCAAGAGAGT
TCTGCTGGTCAGCCCTGCTCCAGGGGATGCCTCTGCCTTCGCATAGCACACTGCTTGAGGCCCTGCCAGGCACCA
AGCACTGCCCTGGGCCCCATGGGATAGAGCGGGGAAGGTGATGGCTCTTCCAGAGGATTCCTCAGATGGGGAGGC
AGCAGTATGAGCTCTGAGCAGAAGTGGGTATTGTTGATACAGAGGAAGTTCTTTGCCACGAGAACTTTCAAGCAG
TGAAAGGAATTCCCATCAGGACTCAGACCCCAGGCCGAGATCTTGCCCTGAATGTACCCTGCCTCTGCTTTCTCC
TGCATCCCATGCTAAGCAGGGTCATGGTCTGAACTACTCAGATTGGATTCCAAACCATCCTTGTATAAACTGCT
CAGAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4793

MAAAVADEAVARDVQRLLVQFQDEGGQLLGSPFDVPVDITPDRLQLVCNALLAQEDPLPLAFFVHDAEIVSSLGK
TLESQAVETEKVLDIIYQPQAIFRVRAVTRCTSSLEGHSEAVISVAFSPTGKYLASGSGDTTVRFWDLSTETPHF
TCKGHRHWVLSISWSPDGKKLASGCKNGQILLWDPSTGKQVGRTLGHGSKWITGLSWEPLHANPECRYVASSSKD
GSVRIWDTTAGRCERILTGHTQSVTCLRWGGDGLLYSASQDRTIKVWRAHDGVLCTRLQGHGHWVNTMALSTDYA
LRTGAFEPAEASVNPQDLQGSLQELKERALSRYNLVRGQGPERLVSGSDDFTLFLWSPAEDKKPLTRMTGHQALI
NQVLFSPDSRIVASASFDKSIKLWDGRTGKYLASLRGHVAAVYQIAWSADSRLLVSGSSDSTLKVWDVKAQKLAM
DLPGHADDEVYAVDWSPDGQRVASGGKDKCLRIWRR

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FIGURE 4794A

GTGCAGTGGCACGATCTTGGTTCACCACAATCTCGTCTCGAAGGCTCAGGTGATTCTCTCACCTCAGCCGCCTGA
GTAGCTGGGACCACAGTTTTAGCTGTGAGTTCAACATGGAGGCAAATCAGTGCCCCCTGGTTGTGGAACCATCTT
ACCCAGACCTGGTCATCAATGTAGGAGAAGTGACTCTTGGAGAAGAAAACAGAAAAAGCTGCAGAAAAATTCAGA
GAGACCAAGAGAAGGAGAGAGTTATGCGGGCTGCATGTGCTTTATTAACTCAGGAGGAGGAGTGATTGCAATGG
CCAAGAAGGTTGAGCATCCCGTGGAGATGGGACTGGATTTAGAACAGTCTTTGAGAGAGCTTATTCAGTCTTCAG
ATCTGCAGGCTTTCTTTGAGACCAAGCAACAAGGAAGGTGTTTTTACATTTTTGTAAATCTTGGAGCAGTGGCC
CTTTCCCTGAAGATCGCTCTGTCAAGCCCCGCTTTGCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCT
CTGTGCGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAGGAAGCCAAAAATCTTGGGAAGAAG
GACCTTTTCACAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCGGATCCTGCTGACCCAACTCGGATC
CTGCTGACCTAATTTTCCAAAAAGACTATCTTGAATATGGTGAATCCTGCCTTTTCTGAGTCTCAGTTAGTAG
AGTTTAAACAGTTCTCTACAAAACACTTCCAAGAATATGTAAAAAGGACAATTCCAGAATACGTCCCTGCATTTG
CAAACACTGGAGGAGGCTATCTTTTTATTGGAGTGGATGATAAGAGTAGGGAAGTCCTGGGATGTGCAAAAAGAAA
ATGTTGACCTGACTCTTTGAGAAGGAAAAATAGAACAAGCCATATACAACTACCTTGTGTTCAATTTTTGCCAAC
CCCAACGCCCCGATAACCTTCACACTCAAAATTGTGAATGTGTTAAAAAGGGGAGAGCTCTATGGCTATGCTTGCA
TGATCAGAGTAAATCCCTTCTGCTGTGCAGTGTTCTCAGAAGCTCCCAATTCATGGATAGTGAGGAGACAAGTACG
TCTGCAGCCTGACAACCGAGAAATGGGTAGGCATGATGACAGACACAGATCCAGATCTTCTACAGTTGTCTGAAG
ATTTTGAATGTCAGCTGAGTCTATCTAGTGGGCCTCCCCCTAGCAGACCAGTGTACTCCAAGAAAGGCCTGGAAC
ATAAAAAGGAACTCCAGCAACTTTTTATTTTTCAGTCCCACCAGGATATTTGCGATATACTCCAGAGTCACTCTGGA
GGGACCTGATCTCAGAGCACAGAGGACTAGAGGAGTTAATAAATAAGCAAATGCAACCTTTCTTTGGGGAATTT
TGATCTTCTCTAGAAGTTGGGCTGTGGACCTGAACCTTGCAAGGAGCCAGGAGTCACTGTGTATGCTCTGCTGA
TAGCACAGAACAGCACCCCCATTCTCTACACCATTCTCAGGGAGCAAGATGCAGAGGGCCAGGACTACTGCACTC
GCACCGCCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGGCTACACCGGGAAGGTGTGTGTGTCAGGGCCAAGG
TCCTCTGCCTGAGTCCCTGAGAGCAGCGCAGAGGCCTTGAGGGCTGCAGTGTCTCCGATGGATTACCCTGCGTCTC
ATAGCCTTGCAGGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTGATTGTCTTACTCGGCTTCAGGTCTC
TCTTGAGTGACCAGCTCGGCTGTGAGGTTTTAAATCTGCTCACAGCCCAGCAGTATGAGATATTCTCCAGAAGCC
TCCGCAAGAACAGAGAGTTGTTTGTCCACGGCTTACCTGGCTCAGGGAAGACCATCATGGCCATGAAGATCATGG
AGAAGATCAGGAATGTGTTTCACTGTGAGGCACACAGAATCTCTACGTTTGTGAAAACCAGCCTCTGAGGAACT
TTATCAGTGATAGAAATATCTGCCGAGCAGAGACCCGAAAACTTTCCTAAGAGAAAACTTTGAACACATTCAAC
ACATCGTCATTGACGAAGCTCAGAATTTCCGTACTGAAGATGGGGACTGGTATGGGAAGGCAAAAAGCATCACTC
GGAGAGCAAAGGGTGGCCCAGGAATTCTCTGGATCTTTCTGGATTACTTTCAGACCAGCCACTTGGATTGCAGTG
GCCTCCCTCCTCTCTCAGACCAATATCCAAGAGAAGAGCTCACCAGAATAGTTCGCAATGCAGATCCAATAGCCA
AGTACTTACAAAAAGAAATGCAAGTAATTAGAAGTAATCCTTCATTTAACATCCCCACTGGGTGCCTCGAGGTAT
TTCCTGAAGCCGAATGGTCCCAGGGTGTTCAGGGAACCTTACGAATTAAGAAATACTTGACTGTGGAGCAATAA
TGACCTGTGTGGCAGACACGTGCAGGCGCTTCTTTGATAGGGGCTATTCTCCAAAGGATGTTGCTGTGCTTGTCA
GCACCGCAAAAAGAGTGGAGCACTATAAGTATGAGCTCTTGAAAGCAATGAGGAAGAAAAGGGTGGTGCAGCTCA
GTGATGCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTGCGGATTCTCAGGCCTGGAAAGGAGCA
TAGTGTTTTGGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCCAATGTTCTGATCTGTCTGGCTTCCAGGG
CAAAACAACACCTGTATATTTTTCCGTGGGGTGGCCATTAGGAAGAACTCCAAATCAAATGCTATGTAAATGTC
TATGGGTGACAGTCTGCTGATGGTAGAAACCTTTCTTTTTAGTTTACAAGTCAGAGATTTGGACGGAGCTGACAC
AAAGAGTTTGGAGCTCCCCCATTTCTGGCTCTCCTTTAGGGGTTCTTCCCCAACCTTTTTCAGCAGCGGTGGCT
GCCCCCATTTCTGACCCCTGACTCTTCCAGCCAGAAAGATGGTGGTTTTCTAAAGGAACTTTAGCTGTCTGAC
AATGCCGATCTGTGCTTGCATTTTGGGTAAAAGCCATAAAAAATAAGAACTCAGCCTGTGGCCTTTCTTTCTTC
CAAGGCTGGGCTTCTTTTTTTAAGTGACTTCATGCAGTTTGTGCTTTTAAAAATTTGTCCAGAATCGTTTTCTG
CAGAAGCATGGTCTGTAGGAGCTTACTGGCCGTAGCAGAAGCAATTGTTTCTGAATTCTTGACATTTATCTTT
GCTGTATTCAATTTAGGGCTTGGGAGAGTCCGAAGATAATTCAGTCACTGTGAGATTAATAATTTTGTGAGACAA
AGAATACCGTTATGATTATTTAATCCTTTAAATTTGTGGTCTCCAGAGCTTGTCTCAGAATGGCCAGACCAAG
CCTTAATTGTGATAGTGAATATTAATGGTCACTTTAAGGAGAAATTATAGGCCAAGATGAAATGAACATAAACCT
GTTTGCCCTGGCTTTCAGTGGAAGATGATATTAGAGACCAAAATCTGGTTCTGAAGGTGTGTATCAGCCCTAAGG

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FIGURE 4794B

TGAACCAGACTTGGGAAAGATTGTCTTTAAAAATCAATGAGTTTATGTTTTAACTTCTCAGCTTAGTTCTATGCA
TTGCTCTATAACACACCTAGTTAAGTTTTATGTTATTCTTGAAGTGTGATTTTTTTTCTATTTACTTTTCATGGTT
TGGTGGGCCATTGTTATGGACTGAATGTTTGTGTCCCACCCTTCACCCCCAAATTCCCGTGTTGAAGCCCCAACCC
TGCACTGTGGAGCTGGGGCTGCTAAGGAAGTAATTAAGGTTACATGAAGTCATGGTGGGGCTCTGATCTGCTAAG
GTTGGTGTCTTATAGGGAGAGACCCCAGAGAGCTTGTTCCCTCCCTCCCTGTGCATGCAAACAAGAGGGCATGG
GAGCACACAGAGAGATGGCAGCCACCTACAAGCCAAGAGGAGAAGCCTCACAATCAAACCTCTCGCTGCTGGCGAG
AGTCTTGGACTCTGTCTTGGACTTCCAGCCTCCAGACTGTGAGAAACAAATTTCTGTTGTTTCAGCTTCTCAGTC
TCTGGTGTGTTTTGTTATTGTCAGCCTGAGAACACAGCTGTACGATTATTTGTCAAACAGAAAACACTGATACTTAAC
AATGCTAATGCAATTATTTATTTGCTTTTTCAGTCTCTACAAAACGTTCTAAAACACTAATCTAAATATTAACAGT
AAAATATTTGCATAACTAATGGAACTAAGAAATCATATGACCAATATTTCACTTATTGGTAATCTTACTCTACT
GATTTCCCCCAGACTGTGATTTTTTGAAGTTCCTTGCCCTTCTCCTGTCTTTCTGTGTTTATTCATGGAATTCCA
GTTATCTGGGCTTGAAATTGCAGGCTCTCCTAACTTAAGCAAAATCTGACAGATCAGCAAAATGAGATAAATGTT
TCTTTTTTCTTTCTGACTGCATTAAATCAGATACAACCTCAGCATTAAAAAGCTATCTTTGTAAATGTTGTTACTA
ATAAATTAGTCTTATAAGATCCCTGGACTTTGGAGTTGTTGCAATGTCTTTGAGAGTAATTCTTTAAAAAGTCTAA
TTTCGACTGGTTGTATCTCTTTATGATTTATTGCCCCACTAACAAATATTTGAAACAATATAATATTTTAAAAATGT
ATAAATAATTATGAATTTTTGTTTGAACAAAAGAGGATTACTGATATTTGTTTCCCTATGAATGGCAAAAGGTTT
AGCTTACTACTGCATTTCTGTTTTAAATAAAAAGTTGAGAGTTTGTGTCTCATTAAACTG

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FIGURE 4795

MEANQCPLVVEPSYPDLVINVGCVTLGGEENRKKLQKIQRDQEKERVMAACALLNSGGGVIRMAKKVEHPVEMGL
DLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSSGPFPEDRSVKPRLC SLSSSLYRRSETSVRSMDSREAF
FLKTKRKPKILEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILPFPESQLVEFKQFSTKHFQE
YVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCAKENVDPDSLRRKIEQAIYKLPCVHFCQPQRPITFTLKIV
NVLKRGELYGYACMIRVNPFCFAVFSEAPNSWIVEDKYVCSLTTEKWVGMMTDTDPDLLQLSEDFECQLSLSSGP
PLSRPVYSKKGLEHKKELQQLFSVPPGYLRYTPESLWRDLISEHRGLEELINKMQPFFRGILIFSRSWAVDLN
LQEKPGVICDALLIAQNSTPILYTLREQDAEGQDYCTRFTAFTLKQKLVNMGYTGKVCVRAKVLCLSPESAE
LEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLGFRSLLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGL
PGSGKTIMAMKIMEKIRNVFHCEAHRILYVCENQPLRNFISDRNICRAETRKTFLRENFEHIQHIVIDEAQNFRT
EDGDWYGKAKSITRRAKGGPGILWIFLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRS
NPSFNIPTGCLEVFPEAEWSQGVQGTLRICKYLTVEQIMTCVADTCRRFFDRGYSPKDVAVLVSTAKEVEHYKYE
LLKAMRKKRVVQLSDACDMLGDHIVLDSVRRFSGLEERSIVFGIHPRTADPAILPNVLICLASRAKQHLYIFPWGG
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FIGURE 4796A

AATTCTCGAGCTCGTCGACCGGTTCGACGAGCTCGAGGGTCGACGAGCTCGAGGGCGCGCGCCCGGCCCCACCCC
TCGACGACCCCCGCGCCCCGCGCCCTCCCAGCCGGGTCCAGCCGGAGCCATGAGGGGCGGAGCCGAGTGCAGCACC
ATGGAGCTGGCGGCCCTTGTGCCGCTGGGGGCTCCTCCTCGCCCTCTTGCCCCCGGAGCCGCGAGCACCCAAGTG
TGCACCGGCACAGACATGAAGCTGCGGCTCCCTGCCAGTCCCAGACCCACCTGGACATGCTCCGCCACCTCTAC
CAGGGCTGCCAGGTGGTGCAGGGAAACCTGGAACCTACCTACCTGCCCACCAATGCCAGCCTGTCTTCTCCTGCAG
GATATCCAGGAGGTGCAGGGCTACGTGCTCATCGCTCACAACCAAGTGAGGCAGGTCCCAGTGCAGAGGCTGCGG
ATTGTGCGAGGCACCCAGCTCTTTGAGGACAACCTATGCCCTGGCCGTGCTAGACAATGGAGACCCGCTGAACAAT
ACCACCCCTGTACAGGGGCTCCCCAGGAGGCCTGCGGGAGCTGCAGCTTCGAAGCCTCACAGAGATCTTGAAA
GGAGGGGTCTTGATCCAGCGGAACCCCCAGCTCTGCTACCAGGACACGATTTTGTGGAAGGACATCTTCCACAAG
AACAACCAGCTGGCTCTCACACTGATAGACACCAACCGCTCTCGGGCCTGCCACCCCTGTTCTCCGATGTGTAAG
GGCTCCCGCTGCTGGGGAGAGAGTTCTGAGGATTGTGAGAGCCTGACGCGCACTGTCTGTGCCGGTGGCTGTGCC
CGCTGCAAGGGGCCACTGCCACTGACTGCTGCCATGAGCAGTGTGCTGCCGGCTGCACGGGGCCCCAAGCACTCT
GACTGCCCTGGCCTGCCTCCACTTCAACCACAGTGGCATCTGTGAGCTGCACTGCCAGCCCTGGTCACCTACAAC
ACAGACACGTTTGAGTCCATGCCCAATCCCGAGGGCCGGTATACATTGGCGGCCAGCTGTGTGACTGCCTGTCCC
TACAACCTACCTTTCTACGGACGTGGGATCCTGCACCCCTCGTCTGCCCCCTGCACAACCAAGAGGTGACAGCAGAG
GATGGAACACAGCGGTGTGAGAAGTGAGCAAGCCCTGTGCCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTG
CGAGAGGTGAGGGCAGTTACCAGTGCCAATATCCAGGAGTTTGTGCGTGCAGAAGATCTTTGGGAGCCTGGCA
TTTCTGCCGGAGAGCTTTGATGGGGACCCAGCCTCCAACACTGCCCCGCTCCAGCCAGAGCAGCTCCAAGTGTTT
GAGACTCTGGAAGAGATCACAGGTTACCTATACATCTCAGCATGGCCGGACAGCCTGCCTGACCTCAGCGTCTTC
CAGAACCTGCAAGTAATCCGGGGACGAATTCTGCACAATGGCGCCTACTCGCTGACCTGCAAGGGCTGGGCATC
AGCTGGCTGGGGCTGCGCTCACTGAGGGAACCTGGGCAGTGGACTGGCCCTCATCCACCATAACACCCACCTCTGC
TTCGTGCACACGGTGCCCTGGGACCAGCTCTTTCGGAACCCGCACCAAGCTCTGCTCCACACTGCCAACCAGGCCA
GAGGACGAGTGTGTGGGCGAGGGCCTGGCCTGCCACCAGCTGTGCGCCCGAGGGCACTGCTGGGGTCCAGGGCCC
ACCCAGTGTGTCAACTGCAGCCAGTTCCTTCGGGGCCAGGAGTGCCTGGAGGAATGCCGAGTACTGCAGGGGCTC
CCCAGGGAGTATGTGAATGCCAGGCACTGTTTGCCGTGCCACCCTGAGTGTGAGCCCCAGAATGGCTCAGTGACC
TGTTTTGGACCGGAGGCTGACCAGTGTGTGGCCTGTGCCACTATAAGGACCCCTCCCTTCTGCGTGGCCCCGTGC
CCCAGCGGTGTGAAACCTGACCTCTCCTACATGCCCATCTGGAAGTTTCCAGATGAGGAGGGCGCATGCCAGCCT
TGCCCCATCAACTGCACCCACTCCTGTGTGGACCTGGATGACAAGGGCTGCCCGGCCGAGCAGAGAGCCAGCCCT
CTGACGTCCATCGTCTCTGCGGTGGTTGGCATCTGCTGGTCTGTTGGGGGTGGTCTTTGGGATCCTCATC
AAGCGACGGCAGCAGAAGATCCGGAAGTACACGATGCGGAGACTGCTGCAGGAAACGGAGCTGGTGGAGCCGCTG
ACACCTAGCGGAGCGATGCCCAACCAGGCGCAGATGCGGATCCTGAAAGAGACGGAGCTGAGGAAGGTGAAGGTG
CTTGGATCTGGCGCTTTTGGCACAGTCTACAAGGGCATCTGGATCCCTGATGGGGAGAATGTGAAAATTCCAGTG
GCCATCAAAGTGTTGAGGGAAAACACATCCCCCAAAGCCAACAAAGAAATCTTAGACGAAGCATACGTGATGGCT
GGTGTGGGCTCCCCATATGTCTCCCGCCTTCTGGGCATCTGCCTGACATCCACGGTGCAGCTGGTGACACAGCTT
ATGCCCTATGGCTGCCTCTTAGACCATGTCCGGGAAAACCGCGGACGCCTGGGCTCCCAGGACCTGCTGAACTGG
TGTATGCAGATTGCCAAGGGGATGAGCTACCTGGAGGATGTGCGGCTCGTACACAGGGACTTGGCCGCTCGGAAC
GTGCTGGTCAAGAGTCCCAACCATGTCAAAAATTACAGACTTCGGGCTGGCTCGGCTGCTGGACATTGACGAGACA
GAGTACCATGCAGATGGGGGCAAGGTGCCCATCAAGTGGATGGCGCTGGAGTCCATTCTCCGCCGGCGGTTACC
CACCAGAGTGATGTGTGGAGTTATGGTGTGACTGTGTGGGAGCTGATGACTTTTGGGGCCAAACCTTACGATGGG
ATCCCAGCCCGGGAGATCCCTGACCTGCTGGAAAAGGGGGAGCGGCTGCCCCAGCCCCCATCTGCACCATTGAT
GTCTACATGATCATGGTCAAATGTTGGATGATTGACTCTGAATGTGCGCCAAGATTCCGGGAGTTGGTGTCTGAA
TTCTCCCGCATGGCCAGGGACCCCCAGCGCTTGTGGTTCATCCAGAATGAGGACTTGGGCCCAGCCAGTCCCTTG
GACAGCACCTTCTACCGCTCACTGCTGGAGGACGATGACATGGGGGACCTGGTGGATGCTGAGGAGTATCTGGTA
CCCCAGCAGGGCTTCTTCTGTCCAGACCCTGCCCCGGGCGCTGGGGGCATGGTCCACCACAGGCACCGCAGCTCA
TCTACCAGGAGTGGCGGTGGGGACCTGACACTAGGGCTGGAGCCCTCTGAAGAGGAGGCCCCAGGTCTCCACTG
GCACCCCTCCGAAGGGGCTGGCTCCGATGTATTTGATGGTGACCTGGGAATGGGGGCAGCCAAGGGGCTGCAAGC
CTCCCCACACATGACCCAGCCCTCTACAGCGGTACAGTGAGGACCCACAGTACCCCTGCCCTCTGAGACTGAT
GGCTACGTTGCCCCCTGACCTGCAGCCCCCAGCCTGAATATGTGAACCAGCCAGATGTTCCGGCCCCAGCCCCCT

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FIGURE 4796B

TCGCCCCGAGAGGGCCCTCTGCCTGCTGCCCCGACCTGCTGGTGCCACTCTGGAAAGGGCCAAGACTCTCTCCCCA
GGGAAGAATGGGGTCGTCAAAGACGTTTTTGCCTTTGGGGGTGCCGTGGAGAACCCCGAGTACTTGACACCCCAG
GGAGGAGCTGCCCCCTCAGCCCCACCCTCCTCCTGCCTTCAGCCCAGCCTTCGACAACCTCTATTACTGGGACCAG
GACCCACCAGAGCGGGGGGCTCCACCCAGCACCTTCAAAGGGACACCTACGGCAGAGAACCCAGAGTACCTGGGT
CTGGACGTGCCAGTGTGAACCAGAAGGCCAAGTCCGCAGAAGCCCTGATGTGTCCTCAGGGAGCAGGGAAGGCCT
GACTTCTGCTGGCATCAAGAGGTGGGAGGGCCCTCCGACCACTTCCAGGGGAACCTGCCATGCCAGGAACCTGTC
CTAAGGAACCTTCCTTCCTGCTTGAGTTCCCAGATGGCTGGAAGGGGTCCAGCCTCGTTGGAAGAGGAACAGCAC
TGGGGAGTCTTTGTGGATTCTGAGGCCCTGCCCAATGAGACTCTAGGGTCCAGTGGATGCCACAGCCCAGCTTGG
CCCTTTCCTTCAGATCCTGGGTACTGAAAGCCTTAGGGAAGCTGGCCTGAGAGGGGAAGCGGCCCTAAGGGAGT
GTCTAAGAACAAAAGCGACCCATTGAGAGACTGTCCCTGAAACCTAGTACTGCCCCCATGAGGAAGGAACAGCA
ATGGTGTGAGTATCCAGGCTTTGTACAGAGTGCTTTTCTGTTTAGTTTTTACTTTTTTTGTTTTGTTTTTTTAAA
GACGAAATAAAGACCCAGGGGAGAATGGGTGTTGTATGGGGAGGCAAGTGTGGGGGTCTTCTCCACACCCACT
TTGTCCATTGCAAATATATTTTGAAAAAC

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FIGURE 4797

MELAAALCRWGLLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLP TNASLSFLO
DIQEVQGYVLIAHNQVRQVPLQRLRIVRGTLQFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILK
GGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRGWGESSEDCQSLTRTV CAGGCA
RCKGFLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACP
YNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCCKSKPCARVCYGLGMEHLREVRVITSANIQEFAGCKKIFGSLA
FLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPLDSVFNQLQVIRGRILHNGAYSLTLQGLGI
SWLGLRSLRELGSGLALIHNNHNLFCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGGLACHQLCARGHCWGPGP
TQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPCHPECQPQNGSVTCFGPEADQCVACAHYKDPFFCVARC
PSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIVSAVVGILLVVVLGVVFGILI
KRRQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPV
AIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSQDLLNW
CMQIAKGMSYLEDVRLVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVP IKWMALESILRRRFT
HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFREL VSE
FSRMARDPQRFVVIQNE DLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRS
STRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLPTHDPSPQLQRYSEDPTVPLPSETD
GYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERAKT LSPGKNGVVKDVFAFGGAVENPEYLT PQ
GGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLG LDVPV

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FIGURE 4798

CTTTCCTTTCGCTGCTGCGGCCGCAGCCATGAGTATGCTCAGGCTTCAGAAGAGGCTCGCCTCTAGTGTCTCTCCG
CTGTGGCAAGAAGAAGGCTCTGGTTAGACCCCAATGAGACCAATGAAATCGCCAATGCCAACTCCCGTCAGCAGAT
CCGGAAGCTCATCAAAGATGGGCTGATCATCCGCAAGCCTGTGACGGTCCATTCCCGGGCTCGATGCCGGAAAAA
CACCTTGGCCCGCCGGAAGGGCAGGCACATGGGCATAGGTAAGCGGAAGGGTACAGCCAATGCCCGAATGCCAGA
GAAGGTCACATGGATGAGGAGAATGAGGATTTTTCGCGCCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATCGA
TCGCCACATGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAAACAAGCGGATTCTCATGGAACA
CATCCACAAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGACCAGGCTGAGGCCCGCAGGTCTAAGAC
CAAGGAAGCACGCAAGCGCCGTGAAGAGCGCCTCCAGGCCAAGAAGGAGGAGATCATCAAGACTTTATCCAAGGA
GGAAGAGACCAAGAAATAAAACCTCCCACCTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATTA
AAATAAAACAAGCCTTAATCTGC

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FIGURE 4799

MSMLRLQKRLASSVLRGKKKVWLDPNETNEIANANSRQQIRKLIKDGLIIRKPFVTVHSRARCRCNTLARRKGRH
MGIGKRKGTANARMPEKVTWMRRMRILRRLLRRYRESKKIDRHMYHSLYLKVGKNVFNKRILMEHIHKLKADKA
RKKLLADQAEARRSKTKEARKRREERLQAKKEEIIKTLSKEEETKK

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FIGURE 4800A

AGCTCCAGCCGCCGTGCTGCTGCTGTGTAGTTGCAGCCGCGGCCGCTCCCGCCAGCTCGCCTCGGGGAACAG
GACGCGCGTGAGCTCCAGGGCXTCCCCGCCCCAGCTTTTTCTCGGAACCATGAACCCCAACTGCGCCCGGTGCGGC
AAGATCGTGTATCCCACGGAGAAGGTGAACTGTCTGGATAAGTTCTGGCATAAAGCATGCTTCCATTGCGAGACC
TGCAAGATGACACTGAACATGAAGAACTACAAGGGCTACGAGAAGAAGCCCTACTGCAACGCACACTACCCCAAG
CAGTCCTTCACCATGGTGGCGGACACCCCGGAAAACCTTCGCCTCAAGCAACAGAGTGAGCTCCAGAGTCAGGTG
CGCTACAAGGAGGAGTTTGAGAAGAACAAGGGCAAAGGTTTCAGCGTAGTGGCAGACACGCCCCGAGCTCCAGAGA
ATCAAGAAGACCCAGGACCAGATCAGTAACATAAAATACCATGAGGAGTTTGAGAAGAGCCGCATGGGCCCTAGC
GGGGGCGAGGGCATGGAGCCAGAGCGTCGGGATTACAGGACGGCAGCAGCTACCGGCGGCCCTGGAGCAGCAG
CAGCCTCACCACATCCCGACCAGTGCCCCGGTTTACCAGCAGCCCCAGCAGCAGCCGGTGGCCAGTCCTATGGT
GGCTACAAGGAGCCTGCAGCCCCAGTCTCCATACAGCGCAGCGCCCCCATCTGTCTTCAGCACATTCCACGGCAT
CGCATCCGTCTTGGGCGTGACCCGTCCATTCTTCAGTGTCTCTGTTTTTTTAAACCTGCGACAGCTTGTGATTCC
TACCCCTCTTCCAGCTTCTTTTGCCAACTGAAGCCTTCTTCTGCCACTTCTGCGGGCTCCCTCCTCTGGCAGGCT
TCCCCCTTGATCGACTTCTTGTTTTCTCTCTGGATGGAACGGGCATGGGCCTCTCTGGGGGAGGCAGGGCTGGA
ATGGGAGACCTGTTGGCCTGTGGGCCTCACCTGCCCCCTCTGTTCTCTCCCTCACATCCTCTGCCAGCTCCTC
ACATACCCACACATTCCAGGGCTGGGGTGAGCCTGACTGCCAGGACCCAGGTGAGGGGCTCCCTACATTCCCCA
GAGTGGGATCCACTTCTTGTTTCTGGGATGGCGATGGGGACTCTGCCGCTGTGTAGGGACAGTGGGATGGGCT
CTACCTCTCTTTCTCAAAGAGGGGGCTCTGCCACCTGGGGTCTCTCTCCCTACCTCCCTCCTCAGGGGCAACAA
CAGGAGAATGGGGTTCTTGCTGTGGGGCGAATTATCCCTCCCGCGCGTTCTTCGCACACTGTGATTTTGCC
CTCTGCCACGCAGACCTGCAGCGGGCAAAGAGCTCCCGAGGAAGCACAGCTTGGGTGAGGTTCTTGCCCTTCT
TAATTTTAGGGACAGCTACCGGAAGGAGGGGAACAAGGAGTTCTCTTCCGCAGCCCCCTTCCCCACGCCCCCCCC
CAGTCTCCAGGGACCTTGCCCTGCCCTCCTAGGCTGGAAGCCATGGTCCCAGAGTGAGGGCAAGGGTGCCCTCAGG
ACCTTTTGGTCTTCAGCCTCCCTCAGCCCCCAGGATCTGGGTAGGTGGCCGCTCCTCCCTGCTCCTCATGGGAA
GATGTCTCAGAGCCTTCCATGACCTCCCTCCCGAGCCCAATGCCAAGTGGACTTGGAGCTGCACAAAGTCAGCA
GGGACCACTAAATCTCCAAGACCTGGTGTGCGGAGGCAGGAGCATGTATGTCTGCAGGTGTCTGACACGCAAGTG
TGTGAGTGTGAGTGTGAGAGATGGGGCGGGGGTGTGTCTGTAGGTGTCTCTGGGCCTGTGTGTGGGTGGGGTTAT
GTGAGGGTATGAAGAGCTGTCTTCCCTGAGAGTTTCTCAGAACCCACAGTGAGAGGGGAGGGCTCCTGGGGCA
GAGAAGTTCCTTAGGTTTTCTTTGGAATGAAATTCCTCCTTCCCCCATCTCTGAGTGGAGGAAGCCCACCAATC
TGCCCTTTGCAGTGTGCAGGGTGGAAAGTAAAGAGGTTGGTGTGGAGTTGGGGCTGCCATAGGGTCTGCAGCCTGC
TGGGGCTAAGCGGTGGAGGAAGGCTCTGTCACTCCAGGCATATGTTTCCCCATCTCTGTCTGGGGCTACAGAATA
GGGTGGCAGAAGTGTACCCCTGTGGGTGTCTCCCTCGGGGGCTCTTCCCTTAGACCTCCCTCACTTACATAAA
GCTCCCTTGAAGCAAGAAAGCTCTCTGCTCATGGGTGGCTGTGACAACCCTGGCCTCACTTGATTATCTCTGGT
TTTCTTGCCACCCTCTGGGAGTCCCCATCCCATTTTATCCTGAGCCCAACCAGGCCCTGCCATTGGCCTCTTGT
CCCTTGGCACACTTGTACCCACAGGTGAGGGGAGGAGCCTGAAGGTATTGGCCTGTTCAACAATCAGTCATCATG
GGTGTTTTTGTCAACTGCTTGTTAATTGATTGGGGATGTTTGGCCCGAATGAGAGGTTGAGGAAAAGACTGTGG
GTGGGGAGGCCCTGCCTGACCCATCCCTTTTCTTCTGGCCCCAGCCTAGGTGGAGGCAAGTGGAAATATCTTAT
ATTGGGCGATTTGGGGGCTCGGGGAGGCAGAGAATCTTGGGAGTCTTGGGTGGCGCTGGTGCATTCTGTTTCC
TCTTGATCTCAAAGCACAATGTGGATTGGGGACCAAAGGTCAGGGACACATCCCTTAGAGGACCTGAGTTTGG
GAGAGTGGTGAAGGAGGAGGAGCAGCAAGAAGCAGCCTGTTTTCACTCAGCTTAATTCTCCTTCCAGATAA
GGCAAGCCAGTCATGGAATCTTGCTGCAGGCCCTCCCTCTACTCTTCTGTCTCTAAAAATAGGGGCGGTTTTCTT
ACACACCCCCAGAGAGAGGAGGGACTGTCACACTGGTGCTGAGTGACCGGGGGCTGCTGGGCGTCTGTTCTTTAC
CAAAACCATCCATCCCTAGAAGAGCACAGAGCCCTGAGGGGCTGGGCTGGGCTGGGCTGAGCCCTGGTCTTCTC
TACAGTTCACAGAGGTCTTTAGCTCATTTAATCCCAGGAAGAGGCATCAAAGCTAGAATGTGAATATAACTTT
TGTGGACCAATACTAAGAATAACAAGAAGCCCAGTGGTGAGGAAAGTGCGTTCTCCAGCACTGCCTCCTGTTTT
CTCCCTCTCATGTCCCTCCAGGGAAAATGACTTTATTGCTTAATTTCTGCCTTTCCCCCTCACACATGCACTTT
TGGGCCTTTTTTTATAGCTGGAAAAAACAATAACCACCTACAAACCTGTATTTAAAAAGAAACAGAAATGACC
ACGTGAAATTTGCCCTCTGTCCAAACATTTATCCGTGTGTATGTGTATGTGTGTGAGTGTGTGAAGCCGCCAGTT
CATCTTTTTATATGGGGTTGTTGTCTCATTTTGGTCTGTTTTGGTCCCTCCCTCGTGGGCTTGTGCTCGGGATC
AAACCTTTCTGGCCTGTTATGATTCTGAACATTTGACTTGAACCACAAGTGAATCTTTCTCCTGGTGACTCAAAT

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FIGURE 4800B

AAAAGTATAATTTTACCTGC

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FIGURE 4801

CTTTTTTCTTTTTTCCGGCGTTCAAGATGTCGAAGCGAGGACGTGGTGGGTCCTCTGGTGCGAAATTCCGGATT
CCTTGGGICTTCCGGTAGGAGCTGTAATCAATTGTGCTGACAACACAGGAGCCAAAAACCTGTATATCATCTCCG
TGAAGGGGATCAAGGGACGGCTGAACAGACTTCCCGCTGCTGGTGTGGGTGACATGGTGATGGCCACAGTCAAGA
AAGGCAAACCAGAGCTCAGAAAAAAGGTACATCCAGCAGTGGTCATTGACAACGAAAGTCATACCGTAGAAAAG
ATGGCGTGTTTCTTTATTTTGAAGATAATGCAGGAGTCATAGTGAACAATAAAGGCGAGATGAAAGGTTCTGCCA
TTACAGGACCAGTAGCAAAGGAGTGTGCAGACTTGTGGCCCCGGATTGCATCCAATGCTGGCAGCATTGCATTGAT
TCTCCAGTATATTTGTAAAAAATAAAAAAAACTAAACCCATT

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FIGURE 4802

MSKRGRGGSSGAKFRISLGLPVGAVINCADNTGAKNLYIISVKGIGRLNRLPAAGVGDMVMATVKKGKPELRKK
VHPAVVIRQRKSYRRKDGVFLYFEDNAGVIVNNKGEMKSAITGPVAKECADLWPRIASNAGSIA

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FIGURE 4803

TGCCAGCGGGGAGGCTGCAGCCGCGGGTTGTTACAGCTGCTGGAGCAGCAGCGGCCCCGCTCCCGGGAACCGTT
CCCGGGCCGTTGATCTTCGGCCCCACACGAACAGCAGAGAGGGGCAGCAGGATGAATGTGGGCACAGCGCACAGC
GAGGTGAACCCCAACACGCGGGTGATGAACAGCCGTGGCATCTGGCTCTCCTACGTGCTGGCCATCGGTCTCCTC
CACATCGTGCTGCTGAGCATCCCGTTTGTGAGTGTCCCTGTCGTCTGGACCCTCACCAACCTCATTACAAACATG
GGCATGTATATCTTCCTGCACACGGTGAAGGGGACACCCTTTGAGACCCCGGACCAGGGCAAGGCGAGGCTGCTA
ACCCACTGGGAGCAGATGGATTATGGGGTCCAGTTCACGGCCTCTCGGAAGTTCTTGACCATCACACCCATCGTG
CTGTACTTCCTCACCAGCTTCTACACTAAGTACGACCAGATCCATTTTGTGCTCAACACCGTGTCCCTGATGAGC
GTGCTTATCCCCAAGCTGCCCCAGCTCCACGGAGTCCGGATTTTGGGAATCAATAAGTACTGAGAGTGCAGCCCC
TTCCCTGCCCAGGGTGGCAGGGGAGGGGTAGGGTAAAAGGCATGTGCTGCAACACTGAAGACAGAAAAGAAG
CCTCTGGACACTGCCAGAGATGGGGTTGAGCCTCTGGCCTAATTTCCCCCTCGCTTCCCCCAGTAGCCAACTT
GGAGTAGCTTGAGTGGGGTTGGGGTAGGCCCCCTGGGCTCTGACCTTTTCTGAATTTTTTGATCTTTTCCTTTT
GCTTTTTGAATAGAGACTCCATGGAGTTGGTCATGGAATGGGCTGGGCTCCTGGGCTGAACATGGACCACGCAGT
TGCGACAGGAGGCCAGGGGAAAAACCCCTGCTCACTTGTTTGCCTCAGGCAGCCAAAGCACTTTAACCCTGCA
TAGGGAGCAGAGGGCGGTACGGCTTCTGGATTGTTTCACTGTGATTCTAGGTTTTTCGATGCCACGCAGTGTG
TGCTTTTGTGTATGGAAGCAAGTGTGGGATGGGTCTTTGCCCTTCTGGGTAGGGAGCTGTCTAATCCAAGTCCCA
GGCTTTTGGCAGCTTCTCTGCAACCCACCGTGGGTCTGGTTGGGAGTGGGAGGGTCAGGTTGGGGAAAGATGG
GGTAGAGTGTAGATGGCTTGGTTCXCAGAGGTGAGGGGGCCAGGGCTGCTGCCATCCTGGCCTGGTGGAGGTTGG
GGAGCTGTAGGAGAGCTAGTGAGTCGAGACTTAGAAGAATGGGGCCACATAGCAGCAGAGGACTGGTGTAAGGGA

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FIGURE 4804

MNVGTAHSEVNPNTNTRVMNSRGIWLSYVLAIGLLHIVLLSIPFVSVPVWTLTNLIHNMGMYIFLHTVKGTPFETP
DQGKARLLTHWEQMDYGVQFTASRKFLTITPIVLYFLTSTFYTKYDQIHFVLNTVSLMSVLIPKLPQLHGVRIFGI
NKY

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FIGURE 4805

GAATTTCGCGGCCGCTGGTTTGCAGCTGCTCCGTCATCGTTCGCGCCCGACGCTATCTCGCGCTCGTGTGCAGGCC
GGCTCGGCTCCTGGTCCCCGGTGCAGGGTTAACGCGAGGCCCGGCCCTCGGTCCCCGGAAGGCCGTGACCCC
GGGTGCC**ATGA**AGCAGGAGGGCTCGGCGCGGCGCCGCGGCGCGGACAAGGCGAAACCGCCCGCGGAGGAGA
ACAAGAACCCCCACCGCCGCGGCCCGCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCAAC
GGGGGAGGCAGACGGCAAGACGGCGGCGGCAGCGGTTGAGCACTCCAGCGAGAGCTGGACACAGTCACCTTGGA
GGACATCAAGGAGCACGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCTGTGCTGCGGGCCCT
GCGGATGCTGCCTTCCACATCACGCCGCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTC
AAATAATGCCACTCGAGACTTTTTGCTCCCTTCTGGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCG
TCCCCGCACGGGAAAAGCTGCGTCGACACCCCTCCTGCCTGAAGTGGAAGCCTATCTCCAACCTCCTCGTGGTCAT
CTTCATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCACTACTCA
GAACCGCCGGGCCCTAGACCTTGTAGCCGCAAAGTGTTACTATTATCACGCCCGGGTCTATGAGTTCTTGACAA
GCTGGATGTGGTGCAGCTTCTTGATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGC
CACCTGTGTAACCTCCTGCTGCGGAATTACCTACACTACAGCTTGACGACCAGGCTGAGAAGCTGGTGTCCAA
GTCTGTGTTCCAGAGCAGGCCAACAACAATGAGTGGGCCAGGTACCTCTACTACAGGGCGAATCAAAGCCAT
CCAGCTGGAGTACTCAGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTCCG
CTTCAAACAGACGGTGCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTT
CCGCCAGCCCTCCCTCAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTCAGGACAGGAAACCTAGC
CAAGTTCAACCAGGTCCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCT
GCGGCACAACGTGATTAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGC
CCAGAAGCTGCAGTTGGATAGCCCCGAAGATGCAGAGTTCATTGTTGCCAAGGCCATCCGGGATGGTGTCAATTGA
GGCCAGCATCAACCACGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCA
GCTAGCCTTCCACCAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCTC
CAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAA
GGAGATGGCAGAAGATGATGATGACAGCTTCCCT**TGA**AGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAG
GCTCTTTCCCCCTTGGGGGTCCCCTGCCAGGGCACTGTCCCCATTTTCCACACACAGCTCATATGCTGCATTC
GTGCAGGGGGTGGGGGTGCTGGGAGCCAGCCACCCTGACCTCCCCCAGGGCTCCTCCCCAGCCGGTGACTTACTG
TACAGCAGGCAGGAGGGTGGGCAGGCAACCTCCCCGGGCAGGGTCTTGCCAGCAGTGTGGGAGCAGGAGGGGAA
GGATAGTTCTGTGTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTTGAAGCT
TCGATTATGATTTTTAAACAATAAAAAGTTCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAGCGCCGCGAAT
TC

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FIGURE 4806

MKQEGSARRRGADKAKPPPGGGEQEPPPPAPQDVEMKEEAATGGGSTGEADGKTAAAAVEHSQRELDTVTLEDI
KEHVKQLEKAVSGKEPRFVLRALRMLPSTSRRLNHVLYKAVQGFFTSNNATRDFFLPFLEEPMDTEADLQFRPR
TGKAASTPLLPEVEAYLQLLVVFMMNSKRYKEAQKISDDLMOQKISTQNRALDLVAAKCYHHARVYEFLLDKLD
VVRSLHARLRATLRLHDADGQATLLNLLLRNYLHYSLYDQAEKLVSKSVFPEQANNNEWARYLYYTGRKAIQL
EYSEARRTMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLOFRQPSLKRSLMPYFLLTQAVRTGNLAKF
NQVLDQFGEKFQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDAEEFIVAKAIRDGVIEAS
INHEKGYVQSKEMIDIYSTREPQLAFHQRI SFCLDIHNMSVKAMRFPPKSYNKDLESAAEERREREQQDLEFAKEM
AEDDDDSFP

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FIGURE 4807

CTCCTCTCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACC**ATG**ACCACCTCCATCCGCCAGTTCACC
TCCTCCAGCTCCATCAAGGGCTCCTCCGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCGGCTGTCTGGCGGC
CTGGGTGCCGGCTCCTGCAGGCTGGGATCTGCTGGCGGCCTGGGCAGCACCTCGGGGGTAGCAGCTACTCCAGC
TGCTACAGCTTTGGCTCTGGTGGTGGCTATGGCAGCAGCTTTGGGGGTGTTGATGGGCTGCTGGCTGGAGGTGAG
AAGGCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCAAC
ACTGAGCTGGAGGTGAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCGCCCGTGACTACAGCCAGTAC
TACAGGACAATTGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACAGATT
GACAATGCCCCGTCTGGCTGCTGATGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGCGCCTGAGTGTGGAG
GCCGACATCAATGGCCTGCGCAGGGTGCTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCAGATTGAG
AACCTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCTGCGAGGCCAGGTGGGT
GGTGAGATCAATGTGGAGATGGACGCTGCCCCAGGCGTGACCTGAGCCGCATCCTCAACGAGATGCGTGACCAG
TATGAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGTTTCTTCAGCAAGACAGAGGAAGTGAACCGC
GAGGTGGCCACCAACAGTGAGCTGGTGCAGAGTGGCAAGAGTGAGATCTCGGAGCTCCGGCGCACCATGCAGGCC
TTGGAGATAGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGC
TACTGCGTGACGCTGTCCCAGATCCAGGGGCTGATTGGCAGCGTGAGGAGCAGCTGGCCCAGCTTCGCTGCGAG
ATGGAGCAGCAGAACCAGGAATACAAAATCCTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTAC
CGCCGCCTGCTGGAGGGAGAGGATGCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCCGTCAGGTGCGT
ACCATTGTGGAAGAGGTCCAGGATGGCAAGGTCATCTCCTCCCGCGAGCAGGTCCACCAGACCACCCGCT**AG**GA
CTCAGCTACCCCGGCCCGGCCACCCAGGAGGCAGGAGCAGCCGCCCATCTGCCCCACAGTCTCCGGCCTCTCCA
GCCTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCTTGCCTGATGACAATAAAGCTTGTTGACTCAGCTAAA
AAAAAAAAAAAA

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FIGURE 4808

MTTSIRQFTSSSSIKGSSGLGGGSSRTSCRLSGGLGAGSCRLGSAGGLGSTLGGSSYSSCYSGGGGYGSSFGG
VDGLLAGGEKATMQNLNDRLASYLDKVRAL EEANTELEVKIRDWYQRQAPGPARDYSQYYRTIEELQNKILTATV
DNANILLQIDNARLAADDFRTKFETE QALRLSVEADINGLRRVLDELTLARADLEMQIENLKEELAYLKKNHEEE
MNALRGQVGGEINVEMDAAPGV DLSRILNEMRDQYEKMAEKNRKDAEDWFFSKTEELNREVATNSELVQSGKSEI
SELRRMQALEIELEQSQLSMKASLEGNLAETENRYCVQLS QIQGLIGSVEEQLAQLRCEMEQQNQEYKILLDVKT
RLEQEIATYRRLLEGEDAHLTQYKKEPVTTRQVRTIVEEVQDGKVISSREQVHQTTR

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FIGURE 4809

ATGACCACCTGCAGCCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGAGGCGGCATCGGG
GGCGGCTCCAGCCGCATCTCCTCCGTCTGCGCGGAGGGTCTTGCCGTGCCCCAGCACCTACGGGGGCGGCCTG
TCTGTCTCCTCTCGCTTCTCCTCTGGGGGAGCCTGCGGGCTGGGGGGCGGCTATGGCGGTGGCTTCAGCAGCAGC
AGCAGCTTTGGTAGTGGCTTCGGGGGAGGATATGGTGGTGGCCTTGGTGCTGGCTTCGGTGGTGGCTTGGGTGCT
GGCTTTGGTGGTGGTTTTGCTGGTGGTGGTGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAAT
GACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGT
GACTGGTACCAGAGGCAGCGGCCCAGTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATCGAGGACCTGAGG
AACAAGATCATTGCGGCCACCATTGAGAATGCGCAGCCCATTTTGCAGATTGACAATGCCAGGCTGGCAGCCGAT
GACTTCAGGACCAAGTATGAGCACGAACTGGCCCTGCGGCAGACTGTGGAGGCCGACGTCAATGGCCTGCGCCGG
GTGTTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGATCGAAGGCCTGAAGGAGGAGCTGGCCTAC
CTGAGGAAGAACCACGAGGAGGAGATGCTTGCTCTGAGAGGTCAGACCGGCGGAGATGTGAACGTGGAGATGGAT
GCTGCACCTGGCGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGACCAGTACGAGCAGATGGCAGAGAAAAAC
CGCAGAGACGCTGAGACCTGGTTTCTGAGCAAGACCGAGGAGCTGAACAAAGAAGTGGCCTCCAACAGCGAACTG
GTACAGAGCAGCCGAGTGAGGTGACGGAGCTCCGGAGGGTGCTCCAGGGCCTGGAGATTGAGCTGCAGTCCCAG
CTCAGCATGAAAGCATCCCTGGAGAACAGCCTGGAGGAGACCAAAGGCCGCTACTGCATGCAGCTGTCCCAGATC
CAGGGACTGATTGGCAGTGTGGAGGAGCAGCTGGCCCAGCTACGCTGTGAGATGGAGCAGCAGAGCCAGGAGTAC
CAGATCTTGCTGGATGTGAAGACGCGGCTGGAGCAGGAGATTGCCACCTACCGCCGCTGCTGGAGGGCGAGGAT
GCCCACCTTTCTCCAGCAAGCATCTGGCCAATCCTATTCTTCCCGCGAGGTCTTCACCTCCTCCTCGTCCTCT
TCGAGCCGTCAGACCCGGCCCATCCTCAAGGAGCAGAGCTCATCCAGCTTCAGCCAGGGCCAGAGCTCCTAG

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FIGURE 4810

CGGGGGTTGCTCCGTCCGTGCTCCGCCTCGCC**ATGA**CTTCCTACAGCTATCGCCAGTCGTGCGCCACGTCGTCCT
TCGGAGGCCTGGGCGGCGGCTCCGTGCGTTTTGGGCCGGGGGTGCTTTTCGCGCGCCAGCATTACGGGGGCT
CCGGCGGCCGCGGCGTATCCGTGTCCTCCGCCCCGCTTTGTGTCCTCGTCCTCCTCGGGGGGCTACGGCGGCGGCT
ACGGCGGCGTCTTGACCGCGTCCGACGGGCTGCTGGCGGGCAACGAGAAGCTAACCATGCAGAACCTCAACGACC
GCCTGGCCTCCTACCTGGACAAGGTGCGCGCCCTGGAGGCGGCCAACGGCGAGCTAGAGGTGAAGATCCGCGACT
GGTACCAGAAGCAGGGGCTGGGCCCTCCCGCGACTACAGCCACTACTACACGACCATCCAGGACCTGCGGGACA
AGATTCTTGGTGCCACCATTGAGAACTCCAGGATTGTCTGTCAGATCGACAACGCCCGTCTGGCTGCAGATGACT
TCCGAACCAAGTTTGAGACGGAACAGGCTCTGCGCATGAGCGTGAGGCCGACATCAACGGCCTGCGCAGGGTGC
TGGATGAGCTGACCCTGGCCAGGACCGACCTGGAGATGCAGATCGAAGGCCTGAAGGAAGAGCTGGCCTACCTGA
AGAAGAACCATGAGGAGGAAATCAGTACGCTGAGGGGCCAAGTGGGAGGCCAGGTCAGTGTGGAGGTGGATTCCG
CTCCGGGCACCGATCTCGCCAAGATCCTGAGTGACATGCGAAGCCAATATGAGGTCATGGCCGAGCAGAACCGGA
AGGATGCTGAAGCCTGGTTCACCAGCCGACTGAAGAATTGAACCGGGAGGTCGCTGGCCACACGGAGCAGCTCC
AGATGAGCAGGTCCGAGTTACTGACCTGCGGCGCACCCCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGA
GCATGAAAGCTGCCTTGGAAGACACACTGGCAGAAACGGAGGCGCGCTTTGGAGCCCAGCTGGCGCATATCCAGG
CGCTGATCAGCGGTATTGAAGCCCAGCTGGCGGATGTGCGAGCTGATAGTGAGCGGCAGAATCAGGAGTACCAGC
GGCTCATGGACATCAAGTCGCGGCTGGAGCAGGAGATTGCCACCTACCGCAGCCTGCTCGAGGGACAGGAAGATC
ACTACAACAATTTGTCTGCCTCCAAGGTCCTC**TGAG**GCAGCAGGCTCTGGGGCTTCTGCTGTCCTTTGGAGGGTG
TCTTCTGGGTAGAGGGATGGGAAGGAAGGGACCCTTACCCCCGGCTCTTCTCCTGACCTGCCAATAAAAATTTAT
GGTCCAAGGG

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FIGURE 4811

MTSYSYRQSSATSSFGGLGGGSVRFPGVAFRAPSIHGGSGGRGVSVSSARFVSSSSSSGGYGGGYGGVLTASDGL
LAGNEKLTMQNLNDRLASYLDKVRALEAANGELEVKIRDWYQKQGPGPSRDYSHYYTTIQDLRDKILGATIENSR
IVLQIDNARLAADDFRTKFETEQALRMSVEADINGLRRVLDELTLARTDLEMQIEGLKEELAYLKKNHEEEISTL
RGQVGGQVSVEVDSAPGTDLAKILSDMRSQYEVMAEQNRKDAEAWFTSRTEELNREVAGHTEQLQMSRSEVTDLR
RTLQGLEIELQSQLSMKAALEDTLAETEARFGAQLAHIQALISGIEAQLADVLRADSERQNQEYQRLMDIKSRLEQ
EIATYRSLLLEGQEDHYNNLSASKVL

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FIGURE 4812

GGTACCTCCTGCCAGCACCTCTTGGGTTTGCTGAGAACTCACGGGCTCCAGCTACCTGGCC**ATG**ACCACCACATT
TCTGCAAACCTTCTTCCTCCACCTTTGGGGGTGGCTCAACCCGAGGGGGTTCCCTCCTGGCTGGGGGAGGTGGCTT
TGGTGGGGGGAGTCTCTCTGAGGGGAGGTGGAAGCCGAAGTATCTCAGCTTCTTCTGCTAGGTTTGTCTCTTCAGG
GTCAGGAGGAGGATATGGGGGTGGCATGAGGGTCTGTGGCTTTGGTGGAGGGGCTGGTAGTGTTTTCGGTGGAGG
CTTTGGAGGGGGCGTTGGTGGGGGTTTTGGTGGTGGCTTTGGTGGTGGCGATGGTGGTCTCCTCTCTGGCAATGA
GAAAATTACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTACGTGCCCTGGAGGAGGCCAA
TGCTGACCTGGAGGTGAAGATCCATGACTGGTACCAGAAGCAGACCCCAGCCAGCCAGAATGCGACTACAGCCA
ATACTTCAAGACCATTGAAGAGCTCCGGGACAAGATCATGGCCACCACCATCGACAACCTCCGGGTTCATCCTGGA
GATCGACAATGCCAGGCTGGCTGCGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGGGCGT
TGAGGCTGACATCAACGGCTTGCGCCGAGTCTGGATGAGCTGACCCTGGCCAGGACTGACCTGGAGATGCAGAT
CGAGGGCCTGAATGAGGAGCTAGCCTACCTGAAGAAGAACCACGAAGAGGAGATGAAGGAGTTCAGCAGCCAGCT
GGCCGGCCAGGTCAATGTGGAGATGGACGCAGCACCCGGGTGTGGACCTGACCCGTGTGCTGGCAGAGATGAGGGA
GCAGTACGAGGCCATGGCGGAGAAGAACCGCCGGGATGTGCGAGGCCTGGTTCTTCAGCAAGACTGAGGAGCTGAA
CAAAGAGGTGGCCTCCAACACAGAAATGATCCAGACCAGCAAGACGGAGATCACAGACCTGAGACGCACGATGCA
GGAGCTGGAGATCGAGCTGCAGTCCAGCTCAGCATGAAAGCTGGGCTGGAGAACTCACTGGCCGAGACAGAGTG
CCGCTATGCCACGCAGCTGCAGCAGATCCAGGGGCTCATTGGTGGCCTGGAGGCCAGCTGAGTGAGCTCCGATG
CGAGATGGAGGCTCAGAACCAGGAGTACAAGATGCTGCTTGACATAAAGACACGGCTGGAGCAGGAGATCGCTAC
TTACCGCAGCCTGCTCGAGGGCCAGGATGCCAAGATGGCTGGCATTGGCATCAGGGAAGCCTCTTCAGGAGGTGG
TGGTAGCAGCAGCAATTTCCACATCAATGTAGAAGAGTCAGTGGATGGACAGGTGGTTTCTTCCACAAGAGAGA
AATC**TAA**GTGTCTATTGCAGGAGAAACGTCCCTTGCCACTCCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCA
GAGGGCCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGGTCCCTCGGTCTTTTATTTTCAGGG
CTTTGCATGCGCTCTATTCCCCCTCTGCCTCTCCCCACCTTCTTTGGAGCAAGGAGATGCAGCTGTATTGTGTAA
CAAGCTCATTTGTACAGTGTCTGTTTCATGTAATAAAGAATTACTTTTCCTTTTGCAAAT

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FIGURE 4813

MTTTF LQ TSSST FGGGSTRGGSLLAGGGGF GGGSLSGGGGSR SISASSARFVSSGSGGGYGGGMRVCGFGGGAGS
VF GGGF GGGV GGGF GGGF GGGD GGLLSGNEKITMQNLNDR LASYL DKVRALEEANADLEV KIH DWYQKQTPASPE
CDYSQYFKTIEELRDKIMATTIDNSRVILEIDNARLAADDFRLKYENELALRQGV EADINGLRRVLD ETL LARTD
LEMQIEGLNEELAYLKKNHEEEMKEFSSQLAGQVNVEMDAAPGV DLTRVLAEMREQYEAMAEKNRRDVEAWFFSK
TEELNKEVASNTEMIQTSKTEITDLRRTMQELEIELQSQLSMKAGLENSLAETECRYATQLQQIQGLIGGLEAQL
SELRC EMEAQNQEYKMLLDIKTRLEQEIATYRS LLEGQDAKMAGIGIREASSGGGGSSNFHINVEESVDGQVVS
SHKREI

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FIGURE 4814

GGCCAAGCAAGCTTCTATCTGCACCTGCTCTCAATCCTGCTCTCACCATGAGCCTCCGCCTGCAGAGCTCCTCTG
CCAGCTATGGAGGTGGTTTCGGGGGTGGCTCTTGCCAGCTGGGAGGAGGCCGTGGTGTCTCTACCTGTTCAACTC
GGTTTGTGTCTGGGGGATCAGCTGGGGGCTATGGAGGCGGCGTGAGCTGTGGTTTTTGGTGGAGGGGCTGGTAGTG
GCTTTGGAGGTGGCTATGGAGGTGGCCTTGAGGTGGCTATGGAGGTGGCCTTGAGGTGGCTTTGGTGGGGGTT
TTGCTGGTGGCTTTGTTGACTTTGGTGCTTGTGATGGCGGCCCTCCTCACTGGCAATGAGAAGATCACCATGCAGA
ACCTCAACGACCGCCTGGCTTCTACCTGGAGAAGGTGCGCGCCCTGGAGGAGGCCAACGCTGACCTGGAGGTGA
AGATCCGTGACTGGCACCTGAAGCAGAGCCCAGCTAGCCCTGAGCGGGACTACAGCCCCTACTACAAGACCATTG
AAGAGCTCCGGGACAAGATCCTGACCGCCACCATTGAAAACAACCGGGTCATCCTGGAGATTGACAATGCCAGGC
TGGCTGTGGACGACTTCAGGCTCAAGTATGAGAATGAGCTGGCCCTGCGCCAGAGCGTGAGGGCCGACATCAACG
GCCTGCGCCGGGTGCTGGATGAGCTCACTCTGTCTAAGACTGACCTGGAGATGCAGATCGAGAGCCTGAATGAAG
AGCTAGCCTACATGAAGAAGAACCATGAAGAGGAGATGAAGGAATTTAGCAACCAGGTGGTTCGGCCAGGTCAACG
TGGAGATGGATGCCACCCCAGGCATTGACCTGACCCGCGTGCTGGCAGAGATGAGGGAGCAGTACGAGGCCATGG
CAGAGAGGAACCGCCGGGATGCTGAGGAATGGTTCCACGCCAAGAGTGCAGAGCTGAACAAGGAGGTGTCTACCA
ACACTGCCATGATTAGACCAGCAAGACAGAGATCACGGAGCTCAGGCGCACGCTCCAAGGCCTGGAGATTGAGC
TGCAGTCCCAGCTGAGCATGAAAGCGGGGCTGGAGAACACGGTGGCAGAGACGGAGTGCCGCTATGCCCTGCAGC
TGCAGCAGATCCAGGGACTCATCAGCAGCATCGAGGCCCAGCTGAGCGAGCTCCGCAGTGAGATGGAGTGCCAGA
ACCAAGAGTACAAGATGCTGCTGGACATCAAGACACGTCTGGAGCAGGAGATCGCCACCTACCGCAGCCTGCTCG
AGGGCCAGGACGCCAAGAAGCGTCAGCCCCCGTAGCACCTCTGTTACCACGACTTCTAGTGCTCTGTTACCACC
ACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCGTAGGCCCTTAAATCTGCCTGGCGTCCCCCTCCCTCTGTC
TTCAGCACCCAGAGGAGGAGAGAGCCGGCAGTTCCCTGCAGGAGAGAGGAGGGGCTGCTGGACCCAAGGCTCAGT
CCCTCTGCTCTCAGGACCCCTGTCCTGACTCTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTTCCGGTCGGA
TCTCTCTCCTCTCTGACCTGGATACGCTTTGGTTTCTCAACTTCTCTACCCCAAAGAAAAGATTATTCAATAAAG
TTTCCTGCCTTTCTGCAAACATAAAAA

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FIGURE 4815

MSLR LQSSSASYGGGFGGGSCQLGGGRGVSTCSTRFVSGGSAGGYGGGVSCGFGGGAGSGFGGGYGGGLGGGYGG
GLGGGFGGGFAGGFVDFGACDGGLLTGNEKITMQNLNDRLASYLEKVRAL E E A N A D L E V K I R D W H L K Q S P A S P E R
D Y S P Y Y K T I E E L R D K I L T A T I E N N R V I L E I D N A R L A V D D F R L K Y E N E L A L R Q S V E A D I N G L R R V L D E L T L S K T D L
E M Q I E S L N E E L A Y M K K N H E E M K E F S N Q V V G Q V N V E M D A T P G I D L T R V L A E M R E Q Y E A M A E R N R R D A E E W F H A K S
A E L N K E V S T N T A M I Q T S K T E I T E L R R T L Q G L E I E L Q S Q L S M K A G L E N T V A E T E C R Y A L Q L Q Q I Q G L I S S I E A Q L S
E L R S E M E C Q N Q E Y K M L L D I K T R L E Q E I A T Y R S L L E G Q D A K K R Q P P

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FIGURE 4816

ACCCGAGCACCTTCTCTTCACTCAGCCAACTGCTCGCTCGCTCACCTCCCTCCTCTGCACCATGACTACCTGCAG
CCGCCAGTTACCTCCTCCAGCTCCATGAAGGGCTCCTGCGGCATCGGGGGCGGCATCGGGGGCGGGCTCCAGCCG
CATCTCCTCCGTCCTGGCCGGAGGGTCCTGCCGCGCCCCAGCACCTACGGGGGCGGCCTGTCTGTCTCATCCTC
CCGCTTCTCCTCTGGGGGAGCCTACGGGCTGGGGGGCGGGCTATGGCGGTGGCTTCAGCAGCAGCAGCAGCAGCTT
TGGTAGTGGCTTTGGGGGAGGATATGGTGGTGGCCTTGGTGTGGCTTGGGTGGTGGCTTTGGTGGTGGCTTTGC
TGGTGGTGATGGGCTTCTGGTGGGCAGTGAGAAGGTGACCATGCAGAACCTCAATGACCGCTGGCCTCCTACCT
GGACAAGGTGCGTGCTCTGGAGGAGGCCAACGCCGACCTGGAAGTGAAGATCCGTGACTGGTACCAGAGGCAGCG
GCCTGCTGAGATCAAAGACTACAGTCCCTACTTCAAGACCATTGAGGACCTGAGGAACAAGATTCTCACAGCCAC
AGTGGACAATGCCAATGTCCTTCTGCAGATTGACAATGCCCGTCTGGCCGCGGATGACTTCCGCACCAAGTATGA
GACAGAGTTGAACCTGCGCATGAGTGTGGAAGCCGACATCAATGGCCTGCGCAGGGTGCTGGACGAACCTGACCCCT
GGCCAGAGCTGACCTGGAGATGCAGATTGAGAGCCTGAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGA
GGAGATGAATGCCCTGAGAGGCCAGGTGGGTGGAGATGTCAATGTGGAGATGGACGCTGCACCTGGCGTGGACCT
GAGCCGCATTCTGAACGAGATGCGTGACCAGTATGAGAAGATGGCAGAGAAGAACC GCAAGGATGCCGAGGAATG
GTTCTTCACCAAGACAGAGGAGCTGAACCGCGAGGTGGCCACCAACAGCGAGCTGGTGCAGAGCGGCAAGAGCGA
GATCTCGGAGCTCCGGCGCACCATGCAGAACCTGGAGATTGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCT
GGAGAACAGCCTGGAGGAGACCAAGGTGCTACTGCATGCAGCTGGCCCAGATCCAGGAGATGATTGGCAGCGT
GGAGGAGCAGCTGGCCCAGCTCCGCTGCGAGATGGAGCAGCAGAACCAGGAGTACAAGATCCTGCTGGACGTGAA
GACGCGGCTGGAGCAGGAGATCGCCACCTACCGCCGCTGCTGGAGGGCGAGGACGCCCACCTCTCCTCCTCCCA
GTTCTCCTCTGGATCGCAGTCATCCAGAGATGTGACCTCCTCCAGCCGCCAAATCCGCACCAAGGTCATGGATGT
GCACGATGGCAAGGTGGTGTCCACCCACGAGCAGGTCCCTTCGCACCAAGAACTGAGGCTGCCAGCCCCGCTCAG
GCCTAGGAGGCCCCCGTGTGGACACAGATCCCCTGGAAGATCCCCTCTCCTGCCCAAGCACTTCACAGCTGGA
CCCTGCTTCACCTCACCCTCACCCTCCTGGCAATCAATACAGCTTCATTATCTGAGTTGCAT

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FIGURE 4817

MTTCSRQFTSSSSMKGSCGIGGGIGGGSSRISSVLAGGSCRAPSTYGGGLSVSSSRFSSGGAYGLGGGYGGGFSS
SSSSFGSGFGGGYGGGLGAGLGGGFGGGFAGGDGLLVGSEKVTMQNLNDRLASYLDKVRALEEANADLEVKIRDW
YQRQRP AEIKDYSPYFKTIEDLRNKILTATVDNANVLLQIDNARLAADDFRTKYETELNLRMSVEADINGLRRVL
DETLARADLEMQIESLKEELAYLKKNHEEEMNALRGQVGGDVNVEMDAAPGVDL SRILNEMRDQYEKMAEKNRK
DAEEWFFTKTEELNREVATNSELVQSGKSEISELRRTMQNLEIELQSQLSMKASLENSLEETKGRYCMQLAQIQE
MIGSVEEQLAQLRCEMEQQNQEYKILLDVKTRLEQEIATYRRLLEGEDAHLSSSQFSSGSQSSRDVTSSSRQIRT
KVMDVHDGKVVSTHEQVLRITN

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FIGURE 4818

AGCCCCCTGCCCCCTCGCCGCCCCGCCGCTGCCTGGGCCGGGGCCGAGGATGCGGCGCAGCGCCTCGGCGGGCCAGGC
TTGCTCCCCCTCCGGCACGCCTGCTAACTTCCCCCGCTACGTCCCCGTTTCGCCGCGCGGGCCGCCCCGTCTCCCCG
CGCCCTCCGGGTCTGGTCTCTCCAGGAGCGCCAGGCGCTGCCGCCGTGTGCCCTCCGCGCTCGCCCCGCGCCCCG
CGCTCCCCGCTGCGCCAGCGCCCCGCGCCCGCGCCAGTCTCGGGCGGTCTATGCTGCCCCCTCTGCCTCGTGG
CCGCCCTGCTGCTGGCCGCCGGGCCCCGGGCCGAGCCTGGGCGACGAAGCCATCCACTGCCCCGCCCTGCTCCGAGG
AGAAGCTGGCGCGCTGCCGCCCCCGTGGGCTGCGAGGAGCTGGTGCGAGAGCCGGGCTGCGGCTGTTGCGCCA
CTTGCGCCCTGGGCTTGGGGATGCCCTGCGGGGTGTACACCCCCCGTTGCGGCTCGGGCCTGCGCTGCTACCCGC
CCCGAGGGGTGGAGAAGCCCCCTGCACACACTGATGCACGGGCAAGGCGTGTGCATGGAGCTGGCGGAGATCGAGG
CCATCCAGGAAAGCCTGCAGCCCTCTGACAAGGACGAGGGTGACCACCCCAACAACAGCTTCAGCCCCGTAGCG
CCCATGACCGCAGGTGCCTGCAGAAGCACTTCGCCAAAATTTCGAGACCGGAGCACCAGTGGGGGCAAGATGAAGG
TCAATGGGGCGCCCCGGGAGGATGCCCGGCTGTGCCCCAGGGCTCCTGCCAGAGCGAGCTGCACCGGGCGCTGG
AGCGGCTGGCCGCTTCACAGAGCCGCACCCACGAGGACCTCTACATCATCCCCATCCCCAACTGCGACCGCAACG
GCAACTTCCACCCCAAGCAGTGTACCCAGCTCTGGATGGGCAGCGTGGCAAGTGTGTTGGTGTGTGGACCGGAAGA
CGGGGGTGAAGCTTCCGGGGGGCCTGGAGCCAAAGGGGGAGCTGGACTGCCACCAGCTGGCTGACAGCTTTCGAG
AGTGAGGCCTGCCAGCAGGCCAGGGACTCAGCGTCCCCTGCTACTCCTGTGCTCTGGAGGCTGCAGAGCTGACCC
AGAGTGAGTCTGAGTCTGAGTCTGTCTCTGCCTGCGGCCAGAAAGTTTCCCTCAAATGCGCGTGTGCACGTGT
GCGTGTGCGTGCCTGT
TTGGTGTGTACACAGCCCAAGAGGACTGAGACTGGCACTTAGCCCAAGAGGTCTGAGCCCTGGTGTGTGTGTGTGT
CGATCCTGGATTCACTCACTCACTCACTCATTCTTCACTCATCCAGCCACCTAAAAACATTTACTGACCATGTACTAC
GTGCCAGCTCTAGTTTTAGCCCTTGGGAGGTTTTATTCTGACTTCCTCTGATTTTGGCATGTGGAGACACTCCTA
TAAGGAGAGTTCAAGCCTGTGGGAGTAGAAAAATCTCATTCCCAGAGTCAGAGGAGAAGAGACATGTACCTTGAC
CATCGTCTTCTCTCAAGCTAGCCAGAGGGTGGGAGCCTAAGGAAGCGTGGGGTAGCAGATGGAGTAATGGTCA
CGAGGTCCAGACCCACTCCCAAAGCTCAGACTTGCCAGGCTCCCTTTCTCTTCTTCCCCAGGTCCTTCCTTTAGG
TCTGGTTGTTGCACCATCTGCTTGGTTGGCTGGCAGCTGAGAGCCCTGCTGTGGGAGAGCGAAGGGGGTCAAAGG
AAGACTTGAAGCACAGAGGGCTAGGGAGGTGGGGTACATTTCTCTGAGCAGTCAGGGTGGGAAGAAAGAATGCAA
GAGTGGACTGAATGTGCCTAATGGAGAAGACCCACGTGCTAGGGGATGAGGGGCTTCCTGGGTCCTGTTCCCTAC
CCCATTGTGGTTCACAGCCATGAAGTCACCGGGATGAACCTATCCTTCCAGTGGCTCGCTCCCTGTAGCTCTGCC
TCCCTCTCCATATCTCCTTCCCCTACACCTCCCTCCCCACACCTCCCTACTCCCTGGGCATCTTCTGGCTTGAC
TGGATGGAAGGAGACTTAGGAACCTACCAGTTGGCCATGATGTCTTTTCTT

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FIGURE 4819A

CCCTTCACGACCGTCACCATGGAAGTGTCAACCATTGCAGCCTGTAAATGAAAATATGCAAGTCAACAAAATAAAG
AAAAATGAAGATGCTAAGAAAAGACTGTCTGTTGAAAGAATCTATCAAAAGAAAACACAATTGGAACATATTTTG
CTCCGCCCAGACACCTACATTGGTTCTGTGGAATTAGTGACCCAGCAAATGTGGGTTTACGATGAAGATGTTGGC
ATTAACCTATAGGGAAGTCACTTTTGTTCCTGGTTTGTACAAAATCTTTGATGAGATTCTAGTTAATGCTGCGGAC
AACAAACAAAGGGACCCAAAATGTCTTGTATTAGAGTCACAATTGATCCGGAACAAATTTAATTAGTATATGG
AATAATGGAAAAGGTATTCCTGTTGTTGAACACAAAGTTGAAAAGATGTATGTCCAGCTCTCATATTTGGACAG
CTCCTAACCTTAGTAACCTATGATGATGATGAAAAGAAAGTGACAGGTGGTTCGAAATGGCTATGGAGCCAAATTG
TGTAACATATTCAGTACCAAATTTACTGTGGAAACAGCCAGTAGAGAATACAAGAAAATGTTCAAAACAGACATGG
ATGGATAATATGGGAAGAGCTGGTGAGATGGAACCTCAAGCCCTTCAATGGAGAAGATTATACATGTATCACCTTT
CAGCCTGATTTGTCTAAGTTTTAAATGCAAAGCCTGGACAAAGATATTGTTGCACTAATGGTCAGAAGAGCATAT
GATATTGCTGGATCCACCAAAGATGTCAAAGTCTTTCTTAATGGAAATAAACTGCCAGTAAAAGGATTTCGTAGT
TATGTGGACATGTATTTGAAGGACAAGTTGGATGAAACTGGTAACTCCTTGAAAGTAATACATGAACAAGTAAAC
CACAGGTGGGAAGTGTGTTTAACTATGAGTGAAAAAGGCTTTCAGCAAATTAGCTTTGTCAACAGCATTGCTACA
TCCAAGGGTGGCAGACATGTTGATTATGTAGCTGATCAGATTGTGACTAACTTGTGATGTTGTGAAGAAGAAG
AACAAGGGTGGTGTGTCAGTAAAAGCACATCAGGTGAAAAATCACATGTGGATTTTTGTAAATGCCTTAATTGAA
AACCCAACCTTTGACTCTCAGACAAAAGAAAACATGACTTTACAACCCAAGAGCTTTGGATCAACATGCCAATTG
AGTGAAAAATTTATCAAAGCTGCCATTGGCTGTGGTATTGTAGAAAGCATACTAACTGGGTGAAGTTTAAGGCC
CAAGTCCAGTTAAACAAGAAGTGTTTCAAGCTGTAAAACATAATAGAATCAAGGGAATTCCAAACCTCGATGATGCC
AATGATGCAGGGGGCCGAAACTCCACTGAGTGTACGCTTATCCTGACTGAGGGAGATTTCAGCCAAAACCTTTGGCT
GTTTCAGGCCCTTGGTGTGGTTGGGAGAGACAAATATGGGGTTTTCCCTCTTAGAGGAAAAATACTCAATGTTCGA
GAAGCTTCTCATAAGCAGATCATGGAATGCTGAGATTAACAATATCATCAAGATTGTGGGTCTTCAGTACAAG
AAAAACTATGAAGATGAAGATTCATTGAAGACGCTTCGTTATGGGAAGATAATGATTATGACAGATCAGGACCAA
GATGGTTCCACATCAAAGGCTTGCTGATTAATTTTATCCATCACAACCTGGCCCTCTCTTCTGCGACATCGTTTT
CTGGAGGAATTTATCACTCCCATTTGTAAAGGTATCTAAAAACAAGCAAGAAATGGCATTTTACAGCCTTCCTGAA
TTTGAAGAGTGGAAGAGTTCTACTCCAAATCATAAAAAATGGAAAGTCAAATATTACAAAGGTTTGGGCACCAGC
ACATCAAAGGAAGCTAAAGAATACTTTGCAGATATGAAAAGACATCGTATCCAGTTCAAATATTCTGGTCTCTGAA
GATGATGCTGCTATCAGCCTGGCCTTTAGCAAAAAACAGATAGATGATCGAAAGGAATGGTTAACTAATTTTCATG
GAGGATAGAAGACAACGAAAGTTACTTGGGCTTCCTGAGGATTACTTGTATGGACAACTACCACATATCTGACA
TATAATGACTTCATCAACAAGGAACCTTATCTTGTCTCAAATTTCTGATAACGAGAGATCTATCCCTTCTATGGTG
GATGGTTTGAACCAGGTGAGAGAAAGGTTTTGTTTACTTGCTTCAAACGGAATGACAAGCGAGAAGTAAAGGTT
GCCCAATTAGCTGGATCAGTGGCTGAAATGTCTTCTTATCATCATGGTGAGATGTCCTAATGATGACCATTATC
AATTTGGCTCAGAATTTTGTGGGTAGCAATAATCTAAACCTCTTGACGCCCATTTGGTCAGTTTGGTACCAGGCTA
CATGGTGGCAAGGATTCTGCTAGTCCACGATACATCTTTACAATGCTCAGCTCTTTGGCTCGATTGTTATTTCCA
CCAAAGATGATCACACGTTGAAGTTTTTATATGATGACAACCAGCGTGTGAGCCTGAATGGTACATTTCCTATT
ATTCCCATGGTGCTGATAAATGGTGCTGAAGGAATCGGTACTGGGTGGTCTCTGCAAAATCCCCAACTTTGATGTG
CGTGAAATTGTAAATAACATCAGGCGTTTGATGGATGGAGAAGAACCTTTGCCAATGCTTCCAAGTTACAAGAAC
TTCAAGGGTACTATTGAAGAACTGGCTCCAAATCAATATGTGATTAGTGGTGAAGTAGCTATTCTTAATTCTACA
ACCATTGAAATCTCAGAGCTTCCCGTCAGAACATGGACCCAGACATACAAAGAACAAGTTCTAGAACCCATGTTG
AATGGCACCGAGAAGACACCTCCTCTCATAACAGACTATAGGGAATACCATACAGATACCACTGTGAAATTTGTT
GTGAAGATGACTGAAGAAAACTGGCAGAGGCAGAGAGAGTTGGACTACACAAAGTCTTCAAACCTCAAACCTAGT
CTCACATGCAACTCTATGGTGCTTTTTGACCACGTAGGCTGTTTAAAGAAATATGACACGGTGTTGGATATTCTA
AGAGACTTTTTTGAACCTCAGACTTAAATATTATGGATTAAGAAAAGAATGGCTCCTAGGAATGCTTGGTGCTGAA
TCTGCTAAACTGAATAATCAGGCTCGCTTTATCTTAGAGAAAATAGATGGCAAAATAATCATTGAAAATAAGCCT
AAGAAAGAAATTAATTAAGTTCTGATTGAGAGGGGATATGATTGCGATCCTGTGAAGGCCTGGAAAGAAGCCAG
CAAAAGGTTCCAGATGAAGAAGAAAATGAAGAGAGTGACAACGAAAAGGAACTGAAAAGAGTGACTCCGTAACA
GATTCTGGACCAACCTTCAACTATCTTCTTGATATGCCCTTTGGTATTTAACCAAGGAAAAAGAAAGATGAACTC
TGCAGGCTAAGAAATGAAAAGAACAAGAGCTGGACACATTAAGAAAGAAAGAGTCCATCAGATTTGTGGAAAGAA
GACTTGGCTACATTTATTGAAGAATTGGAGGCTGTTGAAGCCAAGGAAAAACAAGATGAACAAGTCGGACTTCCT

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FIGURE 4819B

GGGAAAGGGGGGAAGGCCAAGGGGAAAAAACACAAATGGCTGAAGTTTTGCCTTCTCCGCGTGGTCAAAGAGTC
ATTCCACGAATAACCATAGAAATGAAAGCAGAGGCAGAAAAGAAAAATAAAAAAGAAATTAAGAATGAAAATACT
GAAGGAAGCCCTCAAGAAGATGGTGTGGAAC TAGAAGGCCTAAAACAAAGATTAGAAAAGAAACAGAAAAGAGAA
CCAGGTACAAAGACAAAGAAACAAACTACATTGGCATTTAAGCCAATCAAAAAAGGAAAGAAGAGAAATCCCTGG
TCTGATT CAGAATCAGATAGGAGCAGTGACGAAAGTAATTTTGATGTCCCTCCACGAGAAACAGAGCCACGGAGA
GCAGCAACAAAAACAAAATTCACAATGGATTGGATT CAGATGAAGATTTCTCAGATTTTGATGAAAAAACTGAT
GATGAAGATTTTGTCCCATCAGATGCTAGTCCACCTAAGACCAAAACTTCCCCAAAACCTTAGTAACAAAGAAGT
AAACCACAGAAAAGTGTCGTGTCAGACCTGAAGCTGATGATGTTAAGGGCAGTGTACCCTGTCTTCAAGCCCT
CCTGCTACACATTTCCCAGATGAAACTGAAATTACAAACCCAGTTCCATAAAAAAGAAATGTGACAGTGAAGAAGACA
GCAGCAAAAAGTCAGTCTTCCACCTCCACTACCGGTGCCAAAAAAGGGCTGCCCCAAAAGGAACTAAAAGGGAT
CCAGCTTTGAATTCTGGTGTCTCTCAAAAGCCTGATCCTGCCAAAACCAAGAATCGCCGCAAAGGAAGCCATCC
ACTTCTGATGATTCTGACTCTAATTTTGAGAAAATTGTTTCGAAAGCAGTCACAAGCAAGAAATCCAAGGGGGAG
AGTGATGACTTCCATATGGACTTTGACTCAGCTGTGGCTCCTCGGGCAAATCTGTACGGGCAAAGAAACCTATA
AAGTACCTGGAAGAGTCAGATGAAGATGATCTGTTTTAAATGTGAGGCGATTATTTAAGTAATTATCTTACCA
AGCCCAAGACTGGTTTTAAAGTTACCTGAAGCTCTTAACCTCCTCCCCTCTGAATTTAGTTTGGGGAAGGTGTTT
TTAGTACAAGACATCAAAGTGAAGTAAAGCCCAAGTGTTCTTTAGCTTT

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FIGURE 4820

GCCATCTGGGCCCAGGCCCCATGCCCCGAGGAGGGGTGGTCTGAAGCCCACCAGAGCCCCCTGCCAGACTGTCTG
CCTCCCTTCTGACTGTGGCCGCTTGGCATGGCCAGCAACAGCAGCTCCTGCCCGACACCTGGGGGCGGGCACCTC
AATGGGTACCCGGTGCCTCCCTACGCCCTTCTTCTTCCCCCTATGCTGGGTGGACTCTCCCCGCCAGGCGCTCTG
ACCACTCTCCAGCACCAGCTTCCAGTTAGTGGATATAGCACACCATCCCCAGCCACCATTGAGACCCAGAGCAGC
AGTTCTGAAGAGATAGTGGCCAGCCCTCCCTCGCCACCCCTCTACCCCGCATCTACAAGCCTTGCTTTGTCTGT
CAGGACAAGTCCTCAGGCTACCACTATGGGGTCAGCGCCTGTGAGGGCTGCAAGGGCTTCTTCCGCCGCAGCATC
CAGAAGAACATGGTGTACACGTGTACCGGGACAAGAAGTGCATCATCAACAAGGTGACCCGGAACCGCTGCCAG
TACTGCCGACTGCAGAAGTGCTTTGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACAAGAAG
AAGGAGGTGCCAAGCCCGAGTGCTCTGAGAGCTACACGCTGACGCCGAGGTGGGGGAGCTCATTGAGAAGGTG
CGCAAAGCGCACCAGGAAACCTTCCCTGCCCTCTGCCAGCTGGGCAAATACACTACGAACAACAGCTCAGAACAA
CGTGTCTCTCTGGACATTGACCTCTGGGACAAGTTCAGTGAAGTCTCCACCAAGTGCATCATTAAGACTGTGGAG
TTCGCCAAGCAGCTGCCCGGCTTCAACACCTCACCATCGCCGACCAGATCACCTCCTCAAGGCTGCCTGCCTG
GACATCCTGATCCTGCGGATCTGCACGCGGTACACGCCCGAGCAGGACACCATGACCTTCTCGGACGGGCTGACC
CTGAACCGGACCCAGATGCACAACGCTGGCTTCGGCCCCCTCACCGACCTGGTCTTTGCCCTTCGCCAACCAGCTG
CTGCCCCCTGGAGATGGATGATGCGGAGACGGGGCTGCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGAC
CTGGAGCAGCCGGACCGGTGGACATGCTGCAGGAGCCGCTGCTGGAGGCGCTAAAGGTCTACGTGCGGAAGCGG
AGGCCCAGCCGCCCCCACATGTTCCCCAAGATGCTAATGAAGATTACTGACCTGCGAAGCATCAGCGCAAGGGG
GCTGAGCGGGTGATCAGCTGAAGATGGAGATCCCGGGCTCCATGCCGCTCTCATCCAGGAAATGTTGGAGAAC
TCAGAGGGCCTGGACACTCTGAGCGGACAGCCGGGGGGTGGGGGGCGGGACGGGGGTGGCCTGGCCCCCCCCGCCA
GGCAGCTGTAGCCCCAGCCTCAGCCCCAGCTCCAACAGAAGCAGCCCGGCCACCCACTCCCCGTGACCGCCACG
CCACATGGACACAGCCCTCGCCCTCCGCCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGC
CCTGCCCCCACCTGCCCTCCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCC
TTGGACAGAGGCCTGGGGCCTCAGTGGACTGCCTGCTCCACAGCCTGGGCTGACGTGAGGCGGAGGCCAGGA
ACTGAGTGAGGCCCTGGTCTGGGTCTCAGGATGGGTCTGGGGGCTCGTGTTTCATCAAGACACCCCTCTGCC
CAGCTCACCATCTTTCATCACCAGCAAACGCCAGGACTTGGCTCCCCATCCTCAGAACTCACAAGCCATTGCT
CCCCAGCTGGGGAACCTCAACCTCCCCCTGCCTCGGTTGGTGACAGAGGGGGTGGGACAGGGGCGGGGGTTC
CCCTGTACATACCCTGCCATACCAACCCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAATTTTTTGT
TTGATTTTTTTAATAAGAATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGGAGC
TGGATCCAGAGCTGGAGGGGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCACTCTCCTTTTCATGTCC
CTGTGCCCCCAGTTCTCCTCCTCAGCCTTTTCTCCTCAGTTTTCTTTAAACTGTGAAGTACTAACTTTCC
AAGGCCTGCCTTCCCCCTCCCTCCCACTGGAGAAGCCGCCAGCCCCCTTCTCCCTCTGCCTGACCACTGGGTGTGG
ACGGTGTGGGGCAGCCCTGAAAGGACAGGCTCCTGGCCTTGGCACTTGCCTGCACCCACCATGAGGCATGGAGCA
GGGCAGAGCAAGGGCCCCGGGACAGAGTTTTTCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCCA
CATCATCTAGGCTCCCCAGCCCCACTGTGAAGGGGTGGCCAGGGGCCGAGCTGCCCCACCCCCGGCCTCAG
CCACCAGCACCCCCATAGGGCCCCCAGACACCACACACATGCGCGTGCGCACACACACAAACACACACACACTGG
ACAGTAGATGGGGCCGACACACACTTGGCCCGAGTTCTCCATTTCCTGGCCTGCCCCCACCCCCAACCTGTCC
CACCCCCGTGCCCCCTCCTTACCCCGCAGGACGGGGCTACAGGGGGGTCTCCCTCACCCCTGCACCCCCAGCTG
GGGGAGCTGGCTCTGCCCCGACCTCCTTACCCAGGGGTTGGGGCCCCCTCCCTGGAGCCCGTGGGTGCACCTGT
TACTGTTGGGCTTTCCACTGAGATCTACTGGATAAAGAATAAAGTTCTATTTATTCT

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FIGURE 4821

MASNSSSCPTPGGGHLNGYPVPPYAFFFPMLGGLSPPGALTTLQHQLPVSGYSTPSPATIETQSSSSEEIVPSP
PSPPLPRIYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMVYTCHRDKNCIINKVTRNRCQYCRLQKCFE
VGMSKESVRNDRNKKKKEVPKPECSESYTLTPEVGELIEKVRKAHQETFPALCQLGKYTTNNSSEQRVSLDIDLW
DKFSELSTKCIIKTVEFAKQLPGFTTLTIADQITLLKAACLDILILRICTRYTPEQDTMTFSDGLTLNRTQMHNA
GFGPLTDLVFAFANQLLPLEMDDAETGLLSAICLICGDRQDLEQPDRVDMLEPLLEALKVYVRKRRPSRPHMFP
KMLMKITDLRSISAKGAERVITLKMEIPGSMPLIQEMLENSEGLDTLSGQPGGGGRDGGGLAPPPGSCSPSLSP
SSNRSSPATHSP

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FIGURE 4822

GCGCGGCGGGC**ATG**GCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGGGCGCAGTACGAGA
AGTACAGCTTCCGGGGCTTCCCGCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCACGCTCTGGAGCAGT
ACGAGGGAGAGAGCTGGCGCGAGAGCGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGGCTCCTGCGCGACA
GCGAGGCCCTTCTGCCACGCCAACTGCAGCGGGCCCCGCGCCGCGGCCAAGCCCGATCCCGACGGCGGCCGCGCAG
ACGAGTGGGCCTGCGAGCTGCGGCTCTTCGGCCGCGTCTTGAGCGAGCCGCTGCCTGCGGCGCTGCAAGCGGA
CGCTGCCCCGCTTCCAGGTGCCCTACCCGCGCGGCGAGCTGCTGCGTGACTTCCAGAGCCGCTGCCCTACCAGT
ACCTGCACTACGCGCTGTTCAAGGCTAACC GGCTGGAGAAGGCGGTGGCGGCGGCTACACCTTCTCCAGAGGA
ACCCGAAGCACGAGCTGACCGCCAAGTATCTCAACTACTATCAGGGGATGCTGGACGTCGCCGACGAGTCCCTCA
CGGACCTAGAGGCCCAGCCCTACGAGGCCGTGTTCTCCGGGCTGTGAAGCTCTACAACAGCGGGGATTTCGCA
GCAGCACGGAGGACATGGAGCGGGCCTTGTCAGAGTACCTGGCAGTCTTTGCCGCTGCTGGCCGGCTGTGAAG
GGGCCCCATGAGCAGGTGGACTTCAAGGACTTCTACCCGGCCATAGCAGATCTCTTTGCAGAGTCCCTGCAGTGCA
AGGTGGACTGTGAGGCCAATTTGACCCCAATGTGGGTGGCTACTTCGTGGACAAGTTCGTGGCCACCATGTACC
ACTACCTGCAGTTTGCCTACTATAAGTTGAATGATGTGCGCCAGGCTGCCCGCAGCGCCGCCAGCTACATGCTCT
TCGACCCCAAGGACAGCGTCATGCAGCAGAACCTGGTGTATTACCGTTCCACCGGGCTCGCTGGGGCCTGGAAG
AGGAGGACTTCCAGCCCCGGGAGGAGGCCATGCTCTACCACAACCAGACCGCCGAGCTGCGGGAGCTGCTGGAGT
TCACCCACATGTACCTGCAGTCAGATGATGAGATGGAGCTGGAGGAGACAGAACCGCCCCCTGGAGCCTGAGGATG
CCCTATCTGACGCCGAGTTTGAGGGGGAGGGTGACTACGAGGAGGGCAIGTATGCTGACTGGTGGCAGGAGCCGG
ATGCCAAGGGTGACGAGGCCGAGGCTGAGCCAGAGCCTGAACTCGCA**TGA**GAAGGGGACACCCACACCGCTCAA
GCTTGGGAAGCCTGGTGCCGATGGCCCCACCCTCACCAGCCTGGGCAGCAGCAAGAAGTATTTATTAATAAACTTA
AGATGGGCCAGGTGCGGTGGCTCACACCTGTAATCCCAGCATTTTGGGAGGCCAAGGTGGGTGGATCACTTGAGG
CCAGGAGTTCAAGACCAGCCTGGCCAACATGATGAGACCTCCGTCTCTACTAAAATACATAAATTAGCCGGGTGT
GGTGGCAGGCGCCTGAAATCCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAAAGGT
TGCGGTGAACTGAGATTGCGCCACCGCACTCCAGCCTGGGCGACAGAGCGAGACTCCATCTTTAAAAAAAAACAA
GACGGGCGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTGAGAGGCCGATCACTTGAGGTCAGGAGTTCAAGA
CCTGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATACAAAAATTAGCCAGGCATGGTGGCACACACC
TGTAATCGTAGCTGAGGCAGGAGAATCGCCTGAACCCAGGAGGCGGAGCTTGCACTGAGCCGAGATCGTGCCACT
GCACTCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAACTTAAGATGGACACAGCTGA
CTGGACCCCCATCCTGCCTCACCCATGGGTGCTGCACCCAGACCCATCCTGCCACTTCTATGTCTCTGGACCAC
AGGATGGTGGTGGCATTGCAGGTTGGCAAGTGGGCTGATGGGGTCCGCCCTCCTCACTGCTGAGCTCCTCACCTG
GACAGTCTCCTGGACAAGGAGTTTCCAGCTGCTGGCTGGAGTCTCAGGCCAAATTGCAGAGGGTCTCAGGGGTC
CTGAAGAGCACTGGACTAAGAGTCTAGTGGTTCCAGGGCCCTGACCAGTAGGTGCTCAATAAATGTTTGTGTTG
AATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 4823

MARVAWGILLWLLLSAGAQYEEKYSFRGFPPEDLMPLAAAYGHAEQYEGESWRESARYLEAALRLHRLLRDSEAF
CHANCSGPAPAAKPDGGRADWACELRLFGRVLERAACLRRCKRTLPAFQVPYPPRQLLRDFQSRLPYQYLHY
ALFKANRLEKAVAAAYTFLQRNPKHELTAKYLNYYQGMLDVADES LTDLEAQPYEAVFLRAVKLYNSGDFRSSTE
DMERALSEYLAVFARCLAGCEGAHEQVDFKDFYPAIADLFAESLQCKVDCEANLTPNVGGYFVDKFVATMYHYLQ
FAYYKLNDVRQAARSAASYMLFDPKDSVMQQNLVYYRFHRARWGLEEDFQPREEAMLYHNQTAE LRELLEFTHM
YLQSDDEMELEETEPPLEPEDALSDAEFE GEGDYEEGMYADWWQEPDAKGDEAEAEPEPELA

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FIGURE 4824

TCTTTCGCGGGCACTTCGAATTCTAGTCCCCCTCCAGGCAGGAGCCCCGGGCCGACGGAGAGGACTTAACGACACTA
TCGGACCCTCTGGGAAAAGAGGGGAGACGTCGTGACCCAGGCCCCGCCCCACCTTGCCGCTCGTGCCCGGGCGCT
AAGACCCAGCGGGCGCGCCGCCCGGGGGCCCGGCCCTGTCCCTTCCGTCCGCGGGGCAGCCAGCTCAGCTC
CGGAGAGCCGGCGGCGCGGCGGGCATGGCTCGGGTGGCGTGGGGGCTGCTGTGGTTGCTGCTGGGCAGCGCCGGG
GCGCAGTACGAGAAGTACAGCTTCCGGGGCTTCCCGCCGAGGACCTGATGCCGCTGGCCGCGGCGTACGGGCAC
GCTCTGGAGCAGTACGAGGGAGAGAGCTGGCGCGAGAGCGCGCTACCTGGAGGCGGCGCTGCGGCTGCACCGG
CTCCTGCGCGACAGCGAGGCCTTCTGCCACGCCAACTGCAGCGGCCCG

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FIGURE 4825

AGCTATGATCGCAACACCTTGGTGGCCATCGTGGTGGGTGTGGGGCGCCTCATCACTGGCATGGACCGAGGCCTC
ATGGGCATGTGTGTCAACGAGCGGCGACGCCCTCATTGTGCCTCCCCACCTGGGCTATGGGAGCATCGGCCTGGCG
GGGCTCATTCACCGGATGCCACCCTCTACTTCGATGTGGTTCTGCTGGATGTGTGGAACAAGGAAGACACCGTG
CAGGTGAGCACATTGCTGCGCCCGCCCCACTGCCCCCGCATGGTCCAGGACGGCGACTTTGTCCGCTACCACTAC
AATGGCACCCCTGCTGGACGGCACCTCCTTCGACACCAGCTACAGTAAGGGCGGCACTTATGACACCTACGTCGGC
TCTGGTTGGCTGATCAAGGGCATGGACCAGGGGCTGCTGGGCATGTGTCTGGAGAGAGAAGGAAGATTATCATC
CCTCCATTCTTGGCCTATGGCGAGAAAGGCTATGGGACAGTGATCCCCCACAGGCCTCGCTGGTCTTTCACGTC
CTCCTGATTGACGTGCACAACCCGAAGGACGCTGTCCAGCTAGAGACGCTGGAGCTCCCCCGGCTGTGTCCGC
AGAGCCGGGGCCGGGGACTTCATGCGCTACCACTACAATGGCTCCTTGATGGACGGCACCCCTCTTCGATTCCAGC
TACTCCCGCAACCACACCTACAATACCTATATCGGGCAGGGTTACATCATCCCCGGGATGGACCAGGGGCTGCAG
GGTGCTGCATGGGGGAACGCCGAGAAATTACCATCCCCCGCACCTCGCCTATGGGGAGAATGGAACCTGGAGAC
AAGATCCCTGGCTCTGCCGTGCTAATCTTCAACGTCCATGTCAATTGACTTCCACAACCCTGCGGATGTGGTGGAA
ATCAGGACACTGTCCCGCCATCTGAGACCTGCAATGAGACCACCAAGCTTGGGGACTTTGTTTCGATACCATTAC
AACTGTTCTTTGCTGGACGGCACCCAGCTGTTACCTCGCATGACTACGGGGCCCCCAGGAGGCGACTCTCGGG
GCCAACAAGGTGATCGAAGGCCTGGACACGGGCCTGCAGGGCATGTGTGTGGGAGAGAGGCGGCAGCTCATCGTG
CCCCCGCACCTGGCCACGGGGAGAGTGGAGCCCGGGAGTCCCAGGCAGTGCTGTGTCTGCTGTTTGAGGTGGAG
CTGGTGTCCCGGAGGATGGGCTGCCACAGGCTACCTGTTTGTGTGGCACAAGGACCCTCCTGCCAACCTGTTT
GAAGACATGGACCTCAACAAGGATGGCGAGGTCCCTCCGGAGGAGTTCTCCACCTTCATCAAGGCTCAAGTGAGT
GAGGGCAAAGGACGCCTCATGCCTGGGCAGGACCCTGAGAAAACCATAGGAGACATGTTCCAGAACCAGGACCGC
AACCAGGACGGCAAGATCACAGTCGACGAGCTCAAGCTGAAGTCAGATGAGGACGAGGAGCGGGTCCACGAGGAG
CTCTGAGGGGCAGGGAGCCTGGCCAGGCTTGAGACACAGAGGCCCACTGCGAGGGGGACAGTGGCGGTGGGACTG
ACCTGCTGACAGTCACCCTCCCTCTGCTGGGATGAGGTCCAGGAGCCAACTAAAACAATGGCAGAGGAGACATCT
CTGGTGTTCCCAACCACCCTAGATGAAAATCCACAGCACAGACCTCTACCGTGTTTCTCTTCCATCCCTAAACCAC
TTCCTTAAATGTTTGGATTTGCAAAGCCAATTTGGGGCCTGTGGAGCCTGGGGTTGGATAGGGCCATGGCTGGT
CCCCACCATAACCTCCCCTCCACATCACTGACACAGCTGAGCTTGTTATCCATCTCCCCAACTTTCTCTTTCTT
TGTACTTCTTGTCATCCCCACTCCCAGCCCCTTTTCTCTATGTGACAGCTCCCTAGGACCCCTCTGCCTTCCTC
CCCAATCCTGACTGGCTCCTAGGGAAGGGGAAGGCTCCTGGAGGGCAGCCCTACCTCTCCCATGCCCTTTGCCCT
CCTCCCTCGCCTCCAGTGGAGGCTGAGCTGACCCTGGGCTGCTGGAGGCCAGACTGGGCTGTAGTTAGCTTTTCA
TCCCTAAAGAAGGCTCCTTTCCCTAAGGAACCATAGAAGAGAGGAAGAAAACAAAGGGCATGTGTGAGGGAAGCT
GCTTGGGTGGGTGTTAGGGCTATGAAATCTTGGATTTGGGGCTGAGGGGTGGGAGGGAGGGCAGAGCTCTGCACA
CTCAAAGGCTAAACTGGTGTCACTCCTTTTTTCTTTGTTCCAAATAAAAGATTAAACC

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FIGURE 4826

GGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCGGGGCGCTT
CGAGCCCCCAGCTGGTCAACGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCTCGCGCACCCCGGCCCC
CGCCTCACACGCGCGCCCGAGCGAGCCCCGGGCTCCCCTCGGGCCCAGCGTGGCGCAGGGGTGAGTGGTTCTCTC
GGGTCTCGGGACAGGTGAGCACCTTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGCAGGAGATCG
TGGGCGCCCTCCGCAAGGGCGGCGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGAGCAGGTTTG
CATATAATGGAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGGAGTGTGGA
AAGAGCTCACAGCGCTCCTTCACTACTATTACCAATTGAGATCGACCCACACCGGACCGTCAAGGAGAAGCTAC
CTCATATGGTGAATGGTGGACCAAAGCACACAATCTCCTATGTCAGCAGAAGATTGAGAAGTTTCAGATAGCCC
AGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACCATAACAACA
TTCCCCTTTTTCATCTTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAGTGTTCACC
CCAACATCCACATCGTGTCTAACTACATGGATTTTAATGAAGATGGTTTTCTCCAGGGATTTAAGGGCCAGCTCA
TACACACATACAACAAGAACAGCTCTGCGTGTGAGAACTCTGGTTACTTCCAGCAACTTGAGGGCAAAACCAATG
TCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTCCTGGTGTGCAGAACATTCTCAAAA
TTGGCTTCCTGAATGACAAGGTGGAGGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGTGAGAAAGG
ACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGATGCAAGGCC
CCTGAAGGCGCAGGCTCCAGCCCCGGCTGCAGGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTGCTCCCCCGT
GAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCCCTCCGCGCCCCTCCGTCTCTCTTTCCCTGAGC
ACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCTGGTGAACCTTGGAC
CACAGCATGTCAGTGCTCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAAATTTTAAACATGGGAAGTTCAAA
CAAATATAATGTGTGAAACAG

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FIGURE 4827A

CCGGATTTTGC GGGGTTCTGTCGGGCCTGTGGAAGAAGCGCCGCGCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTCGGCCAAGGCAATTTTCAGAGCAGACGGGCAAAGAAGCTCCTTTACAAGTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCGCTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAAACCTGGTCTCGTT
GGGGTCAACCTCACTCTGGATGGGGTCAAGTCTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAAGCTTTCTGATCGAGCCCTTCGTCCCCCACAGTCAGGCTGAGGAGTTCTATGTCCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCTGTTCACCACGAGGGGGGTGTGGACGTGGGTGATGTGGACGCC
AAGGCCCAGAAGCTGCTTGTGGCGTGGATGAGAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCCTGAAGACAAGAAAGAAATTCTGGCCAGTTTTATCTCCGGCCTCTTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCCTTGTAGTGACCAAAGATGGAGTCTATGTCTTGACTTGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCCTCCCCCCTTCGGGCGGGAGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCCAA
GGGAGGATCTGGACCATGGTGGCCGGGGGTGGCGCCTCTGTCTGTACAGCGATAACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAACATATGGGGAGTACTCAGGCGCCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCCTCTCCCTCATGACCCGAGAGAAGCACCCAGATGGCAAGATCCTCATCATTGGAGGCAGCATCGCAAACCTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGGAAGACC
ACTGGGATCCCCATCCATGTCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCCTGGGCCACCGG
CCCATCCCCAACCAGCCACCCACAGCGGGCCCACTGCAAACCTCCTCCTCAACGCCAGCGGGAGCACATCGACG
CCAGCCCCCAGCAGGACAGCATCTTTTTCTGAGTCCAGGGCCGATGAGGTGGCGCCTGCAAAGAAGGCCAAGCCT
GCCATGCCACAAGATTAGTCCCAAGTCCAAGATCCCTGCAAGGAAAGAGCACCACCCTCTTCAGCCGCCACACC
AAGGCCATTGTGTGGGGCATGCAGACCCGGGCGCTGCAAGGCATGCTGGACTTTGACTATGTCTGCTCCCGAGAC
GAGCCCTCAGTGGCTGCCATGGTCTACCCCTTCACTGGGGACCACAAGCAGAAGTTTACTGGGGGACAAAGAG
ATCCTGATCCCTGTCTTCAAGAACATGGCTGATGCCATGAGGAAGCATCCGGAGGTAGATGTGCTCATCAACTTT
GCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACTATGCCCAGATCCGGACCATCGCCATCATA
GCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGGCGGACCAGAAGGGAGTGACCATCATCGGA
CCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACACAGGTGGGATGCTGGACAACATCCTG
GCCTCCAAACTGTACCGCCAGGCAGCGTGGCCTATGTCTCACGTTCCGGAGGCATGTCCAACGAGCTCAACAAT
ATCATCTCTCGGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGGTGGGGACAGGTACCCGGGCTCCACATTC
ATGGATCATGTGTACGCTATCAGGACACTCCAGGAGTCAAAATGATTGTGGTTCTTGGAGAGATTGGGGGCACT
GAGGAATATAAGATTTGCCGGGGCATCAAGGAGGGCGCCTCACTAAGCCCATCGTCTGCTGGTGCATCGGGACG
TGTGCCACCATGTTCTCCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACCAGGCTTCTGAACTGCA
GTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGA/GTGTGTTGTGCCCGGAGCTTTGATGAGCTTGGAGAGATCATC
CAGTCTGTATACGAAGATCTCGTGGCCAATGGAGTCAATTGTACCTGCCAGGAGGTGCCGCCCCCAACCGTGCCC
ATGGACTACTCCTGGGCCAGGGAGCTTGGTTTGATCCGCAAACCTGCCTCGTTTCATGACCAGCATCTGCGATGAG
CGAGGACAGGAGCTCATCTACCGGGCATGCCCATCACTGAGGTCTTCAAGGAAGAGATGGGCATTGGCGGGGTC
CTCGGCCTCCTCTGGTTCCAGAAAAGGTTGCCTAAGTACTCTTGCCAGTTTCATTGAGATGTGTCTGATGGTGACA
GCTGATCACGGGCCAGCCGTCTCTGGAGCCCAACACCATCATTTGTGCGCGAGCTGGGAAAGACCTGGTCTCC
AGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTTGGGGGTGCCTTGATGCAGCAGCCAAGATGTTTCAGT
AAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAAGCTGATCATGGGC
ATTGGTCACCGAGTGAAGTCGATAAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTACGTCAGGCAGCAC
TTCCCTGCCACTCCTCTGCTCGATTATGCACTGGAAGTAGAGAAGATTACCACCTCGAAGAAGCCAAATCTTATC
CTGAATGTAGATGGTCTCATCGGAGTCGATTTGTAGACATGCTTAGAACTGTGGGTCTTTACTCGGGAGGAA
GCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGGTTTCATTGGACAC
TATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGTATCGTCATCCGTGGGATGATATTTTCATATGTTCTTCCGGAA
CACATGAGCATGTAACAGAGCCAGGAACCCTACTGCAGTAACTGAAGACAAGATCTCTTCCCCCAAGAAAAAGT
GTACAGACAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCTGGAATGTAAACAGCCACTGGGGTACAGGCA
CCGAAGACCAACATCCACAGGCTAACACCCCTTCAGTCCACACAAAGAAGCTTCATATTTTTTTTATAAGCATAG

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FIGURE 4827B

AAATAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAGCATCTAAGTAC
TGTCAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTCCATTAGTTAAACATTTTTTTC
TCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATAACATTTAAAGCACCCCAATGTCTCTCTTT
TTTTTTTTTTACTTCCCTTTCTTCTTCTTATATAACATGAAGAACATTGTATTAATCTGATTTTTTAAAGATCTT
TTTGTATGTTACGTGTAAAGGGCTTGTTTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCAGAGTCTGTTTAT
GTCAGGGGGATGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACTTAATATGTAAAGTT
GTAACATACATACATTTAAATGGAAATGCAGAAAGCTGTGAAATGTCTTGTGTCTTATGTTCTCTGTATTTATG
CAGCTGATTTGTCTGTCTGTAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTGTAATCCACAAAG
ATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTATATAGTAACA

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FIGURE 4828

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLGLVGVN
LTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAE EFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQ
KLLVGVDEKLN PEDIKKHL LVHAPEDKKEILASFISGLFN FYEDLYFTYLEINPLVVTKDGVYVLDLAAKV DATA
DYICKVKWGDIEFPPPF GREAYPEEAYIADLDAKSGASLKL TLLNPKGRIWTMVAGGGASVVYSDTICDLGGVNE
LANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILI IGGSIANFTNVAATFKGIVRAIRDYQG PLKEHEVTI
FVRRGGPNYQEGLRVMGEVGKTTGIP IHVFGTETHMTAIVGMALGHRP IPNQPP TAAHTANFLLNASGSTSTPAP
SRTASFSESRADEVAPAKKAKPAMPQDSVPSPRSLQ GKSTTLFSRHTKAIVWGMQTRAVQGM LDFDYVCSRDEPS
VAAMVYPFTGDHKQKFYWG HKEILIPVFKNMADAMRKHPEVDVLINFASLSAYDSTMETMNYAQIR TIAIIAEG
IPEALTRKLIK KADQKGV TII GPATVGGIKPGCFKIGNTGGMLDNILASKLYRPGSVAYVSRSGGMSNELNNIIS
RTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKICRGIKEGRLSTPVVCWCIGTCAT
MFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEIIQSVYEDLVANGVIVPAQEVPPP TVPMDY
SWARELG LIRKPASFMTSICDERGQELIYAGMPITEVFKEEMGIGGVLG LLWFQKRLPKYSCQFIEMCLMVTADH
GPAVSGAHNTIICARAGKDLVSSLTSGLLTIGDRFXGCLGCSSQDVQ

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FIGURE 4829

GGCTGAGGGGAGGGCCGTTGGCCGGGGCCCTGCGGTACGCCGCTTCAGTGAGGGACGCCACTGCGGCCACCCGGCT
TGCTGCCCTTCTTGGGCGCCACTCCCCAGGCGACCCGACGCGACGCGCCAGCAGCGCAGCACCATTCTCTCGG
GCTCTTGGGCGCTGCTCTGAGCAGCGTCACCCCTTTACACCAGAAAGCTGGCGGGCACTATGGGGAAAAACAAAA
CAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAAGAGGAATATGTGGTGAAAAAGTTCTCGACCGTCGAGT
GGTAAAGGGCAAAGTGGAGTACCTCCTAAAGTGAAGGGATTCTCAGATGAGGACAACACATGGGAGCCAGAAGA
GAACCTGGATTGCCCCGACCTCATTGCTGAGTTTCTGCAGTCACAGAAAACAGCACATGAGACAGATAAAATCAGA
GGGAGGCAAGCGCAAAGCTGATTCTGATTCTGAAGATAAGGGAGAGGAGAGCAAACCAAAGAAGAAGAAAGAAGA
GTCAGAAAAGCCACGAGGCTTTGCTCGAGGTTTGGAGCCGGAGCGGATTATTGGAGCTACAGACTCCAGTGGAGA
GCTCATGTTCCCTGATGAAATGAAAAACTCTGATGAGGCTGACCTGGTCCCTGCCAAGGAAGCCAATGTCAAGTG
CCCACAGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCTCGGAGGATGATGACAAAAA
AGATGACAAGAATAACGCTCCTGAGTACCAGCCCCCTGTCACATCTGACTGTGGGTTTCAAGTGGGAAGGGAAGG
AGTTCTACTTGTCTTGACACCATAGAGGTGGCTTGAGAAGATGTCCTTTGAAGAGCCAGTATAGTTTCTGTGCCC
TGCAGCAGCCCAAGTGCTTTAAAGCCGTTTCAAGCTGTATAGTTTGCACACCCATCCCAGTGGAGGGGAAAGGGG
ATAAGTGTTTCAAGGCAACCTTTTCTGCACITTTGCTGCGAAAAGCAAAGGGCCTTCTATGAAGGACAAAACCTTG
AGAATTGGGTGTGTGGGAGAGCAAAAAAATACTGTAGATCTTCAAAGAGCATCTCCACAACCCACAGCCTTCTTC
CCAATAGTGTTAACTCTGCATTTTTTACAGCGTAGCATGTGTGTAGTTTTTGGCTATTACTGGTGTATTATTGGG
GGAGGGAGGGATGGGGAGGGGAGAAAGGGAGATGGGTAGCATCATTTTGATTAACTTTGGGGCCTGATAGGGGA
AATGGTGAAGCAATGGAAAAGAACAGACAATAATGATTGCTTCTATGTCCAGAATATTTTACCTTTAAAAAAA
TGTCATTGGCACCATAAATAAGGACTGTGAGAGACTGTTTAAAAGCTGTGAAAGTCTGAAACCTATAAGCCAAGG
TGTTCCCTGCCATAAATTATTGCTGTTCCACAAAGGACTAAGCCTGTTTATAAGTTACCAAAGTTGCCATTTTG
GAGATGGAAATTGACGAGGAGGGAAGGTCTTTTATTGGAGAGTATACAGTACAAGCAGATCATTCTGCCTTAGAG
GTGCTAATTCCCGAAATTAGAAGACCCTTTCTTTTCCAGTAACGAAGTTATAAATATCAGCTTGTTTCATCCAAGC
CACTGGCTGAGGTGTTAGGAAGAGGAAGAGGGTGGTAGAGGAGGTAAGACAGTAGGGAAAGACAAGGGCCCATGC
TCTTAGTGGGGAAAACCTCTTGGAGCCGTTTACTTTGAGCTTTGAACACTGAAACCATTGTTGGCAGGGTTCAGTC
ACTGACAGCACAAAGTTTCACTGAATTGATCCAAGAGTTTAGTGATTTCAAAGCCTTGGTCTCAGGAGAAGATTA
AACTTTTCATATTGGGCAGTGGTTCACCTTTAAAACACACACATACACACAAAACAATTTTTTAAGAAATCCTAA
TAAGTAACATACCCAAAATGCTCTGTCTTGAGTCATGAGAACCATCAGTTCTTGATATTGTCTAGACTTGCATCT
AGAGCTACGTTGTAAAATTCCTTTAGGCATGTGTTAGATTTCTGTGTAACTTTGTTTAAATGTAACTTCATAC
TACATTGTCTAGTTTTTGTCTTAATAAACTATAGATTTAT

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FIGURE 4830

CTGAAGCGGAAGTGGAGGAAAGATGGAGGACCATCAGCACGTGCCCATCGACATCCAGACCAGCAAGCTGCTCGA
TTGGCTGGTGGACAGAAGGCACTGCAGCCTGAAATGGCAGAGTCTGGTGCTGACGATCCGCGAGAAGATCAATGC
TGCCATCCAGGACATGCCAGAGAGCGAAGAGATCGCCAGCTGCTGTCTGGGTCTACATTCACTACTTTCACTG
CCTAAGAATCCTGGACCTTCTCAAAGGCACAGAGGCCTCCACGAAGAATATTTTTGGCCGATACTCTTCACAGCG
GATGAAGGATTGGCAGGAGATTATAGCTCTGTATGAGAAGGACAACACCTACTTAGGTAAAGTGGCCCCGGCTGG
GAGCCCTGGTATCCATGGGGAAGCCCACTCTCAGAGTTCTGAGATAACCAGGCTTATAGGAGGCACAGTCTGTGAG
TGGGAAGAGACTGGAGTGTAGATGTTGCCATTTGTAGGTGGTAAAATCAATTGTTTTTGATGGAATTGATTTTC
CCTGAGTGGAGTGTCTGGGGGAAGGAGGAGGTCCAGGCCGGTAGTGGCCATTGCGCGTGCCTCAGCGAGCAGGTGT
GTGTGGGTCTCCACCACTCACCTCTTGGTTAGCGGGAGTGTGCTGCCCCACCCCCACCCCCGACCCCCATTTC
TACACAAGGCAGAAGAGGCACGGGTTTTCTGGGAGCGAATATCAAGTGCCTGAGAGCAACTACAGGACTAACTG
TGTTTGGGTTGGGTGTAGTATAAATAATAATAATGGCTAATATTTCTGAGCATCTACTAAATGCAAGGAATTGT
GCTTGGTGTGTCACTGTGGATTCTCTCTTGCATCTTCATGATAAATGTTATTGTGCTGTGTTTACCGATGAGGGTT
GGATTAGAGGGGTAAACAACCTGTCTTAGGCTCCACAGCTGGGAACAAGTGGGGCTGGGAAGCTGACTTCGTGC
TCTTACCACCACAAAGGATGTTGTGTGCATCCTGGGGCATGCCTGCCTCATGTGGGGGTGTCTGGGCTGAATTT
CCTGGGCACCTTCTCAGTGGAACTCTCTAGCCTCCTGGTTCGGAATGTCAACTATGAGATCCCCTCACTGAAGAAG
CAGATTGCCAAGTGCCAGCAGCTGCAGCAAGAATACAGCCGCAAGGAGGAGGAGTGCAGGCAGGGGCTGCCGAG
ATGCGGGAGCAGTTCTACCACTCCTGCAAGCAGTATGGCATCACGGGCGAAAATGTCCGAGGAGAACTGCTGGCC
CTGGTGAAGGACCTGCCGAGTCAGCTGGCTGAGATTGGGGCAGCGGCTCAGCAGTCCCTGGGGGAAGCCATTGAC
GTGTACCAGGCGTCTGTGGGGTTTGTGTGTGAGAGCCCCACAGAGCAGGTGTTGCCAATGCTGCGGTTCTGTGCAG
AAGCGGGGAACTCAACGGTGTACGAGTGGAGGACAGGGACAGAGCCCTCTGTGGTGGAAACGACCCACCTCGAG
GAGCTTCTGAGCAGGTGGCAGAAGATGCGATTGACTGGGGCGACTTTGGGGTAGAGGCAGTGTCTGAGGGGACT
GACTCTGGCATCTCTGCCGAGGCTGCTGGAATCGACTGGGGCATCTTCCCGGAATCAGATTCAAAGGATCCTGGA
GGTGATGGGATAGACTGGGGAGACGATGCTGTTGCTTTGCAGATCACAGTGCTGGAAGCAGGAACCCAGGCTCCA
GAAGGTGTTGCCAGGGGCCAGATGCCCTGACACTGCTTGAATACACTGAGACCCGGAATCAGTTTCTTGATGAG
CTCATGGAGCTTGAGATCTTCTTAGCCCAGAGAGCAGTGGAGTTGAGTGAGGAGGCAGATGTCTGTCTGTGAGC
CAGTTCCAGCTGGCTCCAGCCATCCTGCAGGGCCAGACCAAAGAGAAGATGGTTACCATGGTGTCTGCTGAGG
GATCTGATTGGCAAGCTTACCAGTCTTCAGCTGCAACACCTGTTTATGATCCTGGCCTACCAAGGTATGTGGAC
CGAGTGACTGAATTCCTCCAGCAAAAGCTGAAGCAGTCCAGCTGCTGGCTTTGAAGAAAGAGCTGATGGTGCAG
AAGCAGCAGGAGGCACTTGAGGAGCAGGCGGCTCTGGAGCCTAAGCTGGACCTGCTACTGGAGAAGACCAAGGAG
CTGCAGAAGCTGATTGAAGCTGACATCTCCAAGAGGTACAGCGGGCGCCCTGTGAACCTGATGGGAACCTCTCTG
TGACACCCTCCGTGTTCTTGCTGCCCATCTTCTCCGCTTTTGGGATGAAGATGATAGCCAGGGCTGTTGTTTTG
GGGCCTTTCAAGGCAAAAGACCAGGCTGACTGGAAGATGGAAAGCCACAGGAAGGAAGCGGCACCTGATGGTGAT
CTTGGCACTCTCCATGTTCTCTACAAGAAGCTGTGGTGATTGGCCCTGTGGTCTACCAGGCGAAAACACAGATT
CTCCTTCTAGTTAGTATAGCGGACTTAATAAAAGAGGAAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4831

MCVHPGACLP HVGVSWAEFPGHFSVELSSLLVRNVN YEIPSLKKQIAKCQQLQQEYSRKEEECQAGAAEMREQFY
HSCKQYGITGENVRGELLALVKDLPSQLAEIGAAAQQSLGEAIDVYQASVG FVCESPTQVLPMLRFVQKRGNST
VYEWRTGTEPSVVERPHLEELPEQVAEDAIDW GDFGVEAVSEGTDSGISAEAAGIDWGIFPESDSKDPGGDGIDW
GDDAVALQITVLEAGTQAP EGVARGPDALT LLEYTETR NQFLDELMELEIFLAQRAVELSEEADVLSVSQFQLAP
AILQGQTKEKMTMVS VLEDLIGKLTSLQLQH LFMILASPRYVDRVTEFLQQKLKQS QLLALKKELMVQKQQEAL
EEQAAL EPKLDL LLEKTKELQK LIEADISK RYSGRPVNLMTSL

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FIGURE 4832

GAAGAGGGTCGGGTATCTGGGCATGCGCAGGGCCGCAGGACTCTTGGTGGGGTAGCGAGGGGGACGGTCCCACGA
CTGCTCCGAAGGGCCGGGACTCCAGTGGGGGCGGGACCCCCGGAGTGCCCGCCTGCGGACTCCCAAGCCTGGAG
CCTGGGGAGAGGGTGGGCACCTCCGTTCCCGCACACCCGTCCATGGTGTGTGCGCCGAGCGTCCAGGAGCCACGG
CGGTGTCTTCCTTGCGCGTCTTTTACACGTGTGGGGGTAGGCTGCTCCTCGGGGCTGAGCCGTGGCCAGGGTTAT
GGAGAGGCCCCGCTCTCCCCAGATGGCGTCGTGAGCCCTGACTCCCCATGTTTCTGCGACTGCTTTGTCTCCGT
GCCCCCGGCTCAGCCATCCCGGCTGTGATCTTTGCCAAGAACTCGGACCGACCCCGGGACGAGGTGCAGGAGGT
GGTGTTCGTCCCCGCAGGCACTCACACTCCTGGGAGCCGGCTCCAGTGCACCTACATTGAAGTGGAAACAGGTGTC
GAAGACGCACGCTGTGATTCTGAGCCGTCCTTCTTGGCTATGGGGGGCTGAGATGGGCGCCAACGAGCATGGTGT
CTGCATTGGCAACGAGGCTGTGTGGACGAAGGAGCCAGTTGGGGAGGGGGAAGCCCTGCTGGGCATGGACCTACT
CAGGCTGGCTTTGGAACGGAGCAGCTCTGCCCAGGAGGCCTTGCAATGTGATCACAGGGTTACTGGAGCACTATGG
GCAGGGGGGCAACTGCCTGGAGGATGCTGCGCCATTCTCCTACCATAGCACCTTCCTGCTGGCTGACCGCACTGA
GGCGTGGGTGCTGGAGACAGCTGGGAGGCTCTGGGCTGCACAGAGGATCCAGGAGGGGGCCCGCAACATCTCCAA
CCAGCTGAGCATTTGGCACGGACATCTCGGCCCAACACCCGGAGCTGCGGACTCATGCCCAGGCCAAGGGCTGGTG
GGATGGGCAGGGTGCCTTTGACTTTGCTCAGATCTTCTCCCTGACCCAGCAGCCTGTGCGCATGGAGGCTGCCAA
GGCCCCGCTTCCAGGCAGGGCGGGAGCTGCTGCGGCAACGGCAAGGGGGCATCACGGCAGAGGTGATGATGGGCAT
CCTCAGAGACAAGGAGAGTGGTATCTGTATGGACTCGGGAGGCTTTCGCACCACGGCCAGCATGGTGTCTGTCCT
GCCCCAGGATCCCACGCAGCCCTGCGTGCACCTTTCTTACCGCCACGCCAGACCCATCCAGGTCTGTGTTCAAACC
TTTCATCTTCGGGATGGGGGTGGCCAGGCCCCCCAGGTGCTGTCCCCACTTTTGGAGCACAAAGACCCTGTTTCG
GACCCTGCCCCGATTCCAGACTCAGGTAGATCGTCGGCATAACCTCTACCGTGGACACCAGGCAGCCCTGGGGCT
GATGGAGAGAGATCAGGATCGGGGGCAGCAGCTCCAGCAGAAACAGCAGGATCTGGAGCAGGAAGGCCTCGAGGC
CACACAGGGGGCTGCTGGCCGGCGAGTGGGCCCCACCCCTCTGGGAGCTGGGCAGCCTCTTCCAGGCCTTCGTGAA
GAGGGAGAGCCAGGCTTATGCGTAAGCTTCATAGCTTCTGCTGGCCTGGGGTGGACCCAGGACCCCTGGGGCCTG
GGTGCCCTGAGTGGTGGTAAAGTGGAGCAATCCCTTCACGCTCCTTGCCATGTTCTGAGCGGCCAGCTTGGCCT
TTGCCTTAATAAATGTGCTTTATTTTC

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FIGURE 4833

MASSSPDSPCSCDCFVSVPPASAIPAVIFAKNSDRPRDEVQEVVFPAGTHTPGSRLQCTYIEVEQVSKTHAVIL
SRPSWLWGAEMGANEHGVCIGNEAVWTKEPVGEGEALLGMDLLRLALERSSSAQEALHVITGLLEHYGQGGNCLE
DAAPFSYHSTFLLADRTEAWVLETAGRLWAAQRIQEGARNISNQLSIGTDISAQHPELRTHAQAKGWWDGQGAFD
FAQIFSLTQQPVRMEAAKARFQAGRELLRQRQGGITAEVMMGILRDKESGICMDSGGFRTTASMVSVLPQDPTQP
CVHFLTATPDPSRSVFKPFIFGMGVAQAPQVLSPTFGAQDPVRTLPRFQTQVDRRHTLYRGHQAALGLMERDQDR
GQQLQQKQQDLEQEGLEATQGLLAGEWAPPLWELGSLFQAFVKRESQAYA

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FIGURE 4834

TCTCCCTCCGCCTCCCGAGCACCAGCGCGCTCTGAGCTGCCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCATT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCCGCCCCCACCCACCCCTCCCTTCCCACCCGACCCCAACCCCATCCCCAGTTCGAGCCGCC
GCCCCAAAGGCCGGGCCGTCGTCTTAGGAGGAGTCGCCGCCGCCACCTCCGCC**ATG**GAGCTGATCACCATT
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGCGGCCGTGGAGA
ACCTGCCCACCTTTCTTGTGGAAGTGTCCAGAGTGCTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAACTATGTTTTGCAGACATTGGGTACAGAACTTACCGGCCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAACTCATTCCCTC
AGCTGGTGGCCAATGTCACAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAG
CAAACCTTTGATAAAGAGTCTGAAAGGCACCTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAATA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCATGTCTCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGTGGCTTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCCAAGTGTAGTTGTTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGTGTAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCTGCATATGAATCTC
TGATGGAATTTGTGAAAAACAGTGCCAAGGATTGTTATCCTGCTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTAAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAAGTGTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCTTCTCTGGGCATTG
GATTAATAAATTATGCTGAATACCAGGTTTGTGGTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAAAATTTGGGGAATGAGAACGTCCACA
GGTCTGTGAAGCCGAGATTCTGTGAGTGTGGTGTATTTGCCCTTGTCTATTGGAGGAGAGTTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAAGCTGCTTGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCTTGCTACATGGGCAACAAAAGAACTGAGGAACTGAAGAACCAAGCT**TGAT**CTGTTACCATTG
GGATGATAACCTGAGGACCCCCACTGGAAATCTCCCATCTTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGAGCCGCCAACAGCAGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATAACATCGGC
CATCTTGGAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAA

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FIGURE 4835

MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAI DANARREVKNYVLQTLGTETYRPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAI IQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPAIFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPCAAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEEAAYEADVADDQEEPATYCLSSSFELIVQKLLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHODA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLAAVGLVG
DLCRALQSNII PFCDEV MQLLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDV LKLV EARP MIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 4836

CCCTCCCCCTCCGCCCCCTTCCCCGTAGGCAGCCCGCCCCGCCAGTCCGCCCCGCACCGCCTCCTTCCCAGCCCCCTAG
CGCTCCGGGTGGGTCTCTCCCCCGCCCCCAGGCTCCCCCGGTGCTCTCCTCCGGCGGTGCGCCGCGCTCGGTG
GATGTGGCTGGCAGCTGCCGCCCCCTCCCTCGCTCGCCGCCTGCTCTTCCCTCGGCCCTCCGCCTCCTCCCCCTCCT
CCTTCTCGTCTTCAGCCGCTCCTCTCGCCGCCGCTCCACAGCCTGGGCCTCGCCGCGATGCCGGAGAAGAGGCC
CTTCGAGCGGCTGCCTGCCGATGTCTCCCCCATCAACTACAGCCTTTGCCTCAAGCCCCGACTTGCTGGACTTTCAC
CTTCGAGGGCAAGCTGGAGGCCGCCGCCAGGTGAGGCAGGCGACTAATCAGATTGTGATGAATTGTGCTGATAT
TGATATTATTACAGCTTCATATGCACCAGAAGGAGATGAAGAAATACATGCTACAGGATTTAACTATCAGAATGA
AGATGAAAAAGTCACCTTGTCTTTCCCTAGTACTCTGCAAACAGGTACGGGAACCTTAAAGATAGATTTTGTGG
AGAGCTGAATGACAAAATGAAAGGTTTCTATAGAAGTAAATATACTACCCCTTCTGGAGAGGTGCGCTATGCTGC
TGTAACACAGTTTGAGGCTACTGATGCCCCGAAGGGCTTTTCTTGCTGGGATGAGCCTGCTATCAAAGCAACTTT
TGATATCTCATTGGTTGTTCCATAAGACAGAGTAGCTTTATCAAACATGAATGTAATTGACCGGAAACCATACCC
TGATGATGAAAAATTTAGTGGAAGTGAAGTTTGCCCGCACACCTGTTATGTCTACATATCTGGTGGCATTGTGTGT
GGGTGAATATGACTTTGTAGAAACAAGGTCAAAAGATGGTGTGTGTGTCCGTGTTTACACTCCTGTTGGCAAAGC
AGAGCAAGGAAAAATTTGCGTTAGAGGTTGCTGCTAAAACCTTGCCTTTTTATAAGGACTACTTCAATGTTCCCTTA
TCCTCTACCTAAAAATTGATCTCATTGCTATTGCAGACTTTGCAGCTGGTGCCATGGAGAAGTGGGGCCTTGTTAC
TTATAGGGAGACTGCATTGCTTATTGATCCAAAAAATTCCTGTTCTTCATCCCGCCAGTGGGTTGCTCTGGTTGT
GGGACATGAACCTCGCCCATCAATGGTTTGGAATCTTGTTACTATGGAATGGTGGACTCATCTTTGGTTAAATGA
AGGTTTTGCATCCTGGATTGAATATCTGTGTGTAGACCACTGCTTCCAGAGTATGATATTTGGACTCAGTTTGT
TTCTGCTGATTACACCCGTGCCAGGAGCTTGACGCCTTAGATAACAGCCATCCTATTGAAGTCAGTGTGGGCCA
TCCATCTGAGGTTGATGAGATATTTGATGCTATATCATATAGCAAAGGTGCATCTGTCATCCGAATGCTGCATGA
CTACATTGGGGATAAGGACTTTAAGAAAGGAATGAACATGTATTTAACCAAGTTCCAACAAAAGAATGCTGCCAC
AGGTAATCTCTTAATAGCTTGAGATAGAAATGGAGAGAAAGTATTGTCACCTCTATCCAGGCTGGGACATTTTATTT
TTGTTCTGAATACTTAAGGTCAGGATCCATGTAATAAATAAATTAGCCTTATTTG

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FIGURE 4837

MWLAAAAPSLARRLLFLGPPPPPLLLLVSRSRRRLHSLGLAAMPEKRPFERLPADVSPINCSLCLKPDLLDFT
FEGKLEAAQVRQATNQIVMNCADIDIITASYAPEGDEEIHATGFNYQNEDEKVTLSFPSTLQTGTGTLKIDFVG
ELNDKMKGFYRSKYTTSPGEVRYAAVTQFEATDARRAFPCWDERAIKATFDISLVVPKDRVALSNMNVIDRKPYP
DDENLVEVKFARTPVTSTYLVAFVVGEYDFVETRSGDGVCCVCVYTPVGKAEQGKFALEVAAKTLPFYKDYFNVPY
PLPKIDLIAIADFAAGAMENWDLVITYRETALLIDPKNSCSCSSRQWVALVVGHELAHQWFGNLVTMEWWTHLRLNE
GFASWIEYLCVDHCFPEYDIWTQFVSADYTRAQELDALDNSHPIEVSVGHPSEVDEIFDAISYSGASVIRMLHD
YIGDKDFKKGMNMYLTKFQQNAAAGNL

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FIGURE 4838

CGCCCCGGGCAGGTCTCCCGGAAGTGGCCGGTCCAGAGCTGTGGGGTGCCTCCGCGCGGTCTCTGGCGGATCGGGG
AATCGGATCAAGGCGAGAGGATCCGGCAGGGAAGGAGCTTCGGGGCCGGGGGTGGGCCGCACATTTACGTGCGC
GAAGCGGAGTGACCGGGAGCTGGTGACG**ATG**GCGGGGCCGAGCCCCCTGGCGCTGCAACTGGAACAGTTGTTGA
ACCCGCGACCAAGCGAGGCGGACCCCTGAAGCGGACCCCGAGGAAGCCACTGCTGCCAGGGTGATTGACAGGTTTG
ATGAAGGGGAAGATGGGGAAGGTGATTTCCCTAGTAGTGGGTAGCATTAGAAAAGTGGCATCAGCCTCCCTCTTGG
ACACGGACAAAAGGTATTGCGGCAAAAACACCTCTAGAAAAGCATGGAATGAAGACCATTGGGAGCAGACTCTGC
CAGGATCGTCTGATGAGGAAATATCTGATGAGGAAGGGTCTGGAGATGAAGATTCAGAGGGACTGGGTCTGGAGG
AATATGATGAGGACGACCTGGGTGCTGCTGAGGAACAGGAGTGTGGTGATCACAGGGAGAGCAAGAAGAGCAGAA
GCCACTCTGCAAAAACACCGGGCTTCAGTGCTCCAGAGTATCAGTGACTTTGAGAAAATTTACCAAGGGAATGGATG
ACCTTGGGAGCAGTGAGGAGGAGGAAGACGAAGAGAGTGGCATGGAAGAAGGGGATGACGCGGAAGACTCCCAAG
GCGAGAGTGAGGAAGACAGGGCTGGAGATAGAAACAGTGAGGATGATGGTGTGGTGATGACCTTCTCTAGTGTCA
AAGTTTCTGAGGAAGTGAGAAAAGGAAGAGCCGTGAAGAACCAGATAGCACTGTGGGACCAGCTCTTGAAGGAA
GGATCAAACCTACAAAAGCTCTGTTGACCACCAACCAGCTTCCTCAACCAGATGTTTTCCCATTTGTTCAAGGACA
AAGGTGGCCCAGAATTTTCCAGTGCCCTGAAAAATAGTCACAAGGCACTTAAAGCATTGTTGAGGTCATTGGTAG
GTCTTCAGGAAGAGTTGCTTTTCCAGTACCCAGACACTAGATATCTAGTAGATGGGACAAAGCCCAATGCGGGAA
GTGAGGAGATTTCTAGTGAAGATGATGAGCTGGTAGAAGAGAAGAAGCAGCAACGAAGAAGGGTCCCTGCAAAGA
GGAAGCTGGAGATGGAGGACTATCCAGCTTCATGGCAAAGCGCTTTGCCGACTTTACAGTCTACAGGAACCGCA
CACTTCAGAAATGGCACGATAAGACCAAACCTGGCTTCTGGAAGTGGGGAAGGGTTTTGGTGCCCTTTGAACGCT
CAATCTTGACTCAGATCGACCATATTCTGATGGACAAAGAGAGATTACTTCGAAGGACACAGACCAAGCGCTCTG
TCTATCGAGTTCTTGGCAAACCTGAGCCAGCAGCTCAGCCTGTCCCAGAGAGTTTGCCAGGGGAACCGGAGATCC
TTCTCAAGCCCCTGCTAATGCTCATCTGAAGGACTTGATGAAGAAATCTTTGATGATGATGACTTTTACCACC
AGCTCCTTCGAGAACTCATAGAACGGAAGACCAGCTCCTTGGATCCCAACGATCAGGTGGCCATGGGAAGGCAGT
GGCTTGCAATCCAGAAGTTACGAAGCAAAATCCACAAAAAAGTAGATAGGAAAGCCAGCAAAGGCAGGAAACTTC
GGTTTCATGTCCTTAGCAAGCTACTGAGTTTCATGGCACCTATTGACCATACTACAATGAATGATGATGCCAGGA
CAGAACTGTACCGCTCTCTTTTTGGCCAGCTCCACCTCCCGACGAAGGCCACGGGGAT**TGAC**ATCGCCCCACCTC
CGACACCCAGTGGGCGCCTTGGCTGGTGCGGCTGCTGGTCCAGATGGAGGAAACCAGTGACTTTATGGGGCTGAG
CTAGTAGGGAAGCCCCTGGAAAGATGCTGCGTTCCGAACCTGTGCCTAATACACGCAAGGGCGCTGTCCCGCCCA
ACCCCGCCTTTAAACGCCACAAATAAAGAGCATTGTTACCGCCAAAAAAAAAAAAA

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FIGURE 4839

MAGPQPLALQLEQLLNPRPSEADPEADPEEATAARVIDRFDEGEDGEGDFLVVGSIRKILASASLLDSDKRYCGKT
TSRKAWNEDHWEQTLPGSSDEEISDEEGSGDEDSEGLGLEEYDEDDLGAEEQECGDHRESKKSRSHTSAKTPGFS
VQSISDFEKFTKGMDLGSSEEEDEESGMEEGDDAEDSQGESEEDRAGDRNSEDDGVVMTFSSVKVSEEEVEKGR
AVKNQIALWDQLLEGRIKLQKALLTTNQLPQPDVFPFLFKDKGGPEFSSALKNSHKALKALLRSLVGLQEELLFQY
PDTRYLVDGTPNAGSEEISSEDELVEEKKQQRVRVPAKRKLEMEDYPSFMAKRFAFTVYRNRTLQKWHDKTK
LASGKLGKGFAGAFERSILTQIDHILMDKERLLRRTQTKRSVYRVLGKPEPAAQVPESLPGEPEILPQAPANAH
KDLDEEIFDDDDFYHQLLRELIERKTSSLDPNQVAMGRQWLAIQKLRSKIHKKVDRKASKGRKLRFHVLSKLLS
FMAPIDHTTMNDDARTELYRSLFGQLHPPDEGHGD

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FIGURE 4840

CTTCCCGCCGCTGACCTGGCCCCCGCCCTTTCCAGTCTGGCCGGGCGGGGCTGAAGCACGGCGCTCGGGCGT
GGGACCGTGTTACACCCCTTTCCAGAAATCTTGGCTGGTAACCGCGAAACCGACTGGAGCAGGAGCTGGGAGAA
CTGGAGAAAAGTCTCTAATCTCACTTGACTCCAGCTAGGAGCTGATGCTGCATCGTAATAACATTTGCAGAGCG
CTTTCACAGGCGCTGGAGTGACTTGTCTGAGATTCTCCAGAACTGAGCCCTTTGTTGGAACCATACCCAGCCC
ATGGTCCCATGACTAGGTGGATAGTACTCCTTGTACCTCCTGCAACCCAGAACCCTGGCTGACCACCTTTGAAGGA
GGATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGACCTGC
AGGAGTTCCTGGGTGGGGAGGTCTGCTGTACAACTGGATGACCTACCAGGGTGAATCCTGTGACACTAGAGA
CAGTCTTGAGGTGCCTGCAGGCCCCGTACATGGCAGACACATTCTACACCAATGCTGGCTGCACCCTGGTAGCCT
TGAACCCCTTCAAGCCTGTTCTCAGCTCTACTCGCCCGAGCTAATGAGAGAGTACCATGCTGCGCCTCAGCCCC
AGAACTGAAGCCCCATGTGTTCACTGTGGGTGAACAGACCTACAGGAATGTCAAGAGCCTGATTGAACCAGTCA
ACCAGTCTATTGTTGTGTCAGTGGAGAGAGTGGTGTGAGAAAGACATGGACGTCTCGCTGCCTAATGAAGTTCTATG
CTGTGGTGGCCACCTCACCTGCATCTTGGGAGAGCCACAAGATTGCAGAGAGGATAGAACAGAGGATCCTGAAC
CCAACCTGTCTATGGAAGCTTTTGGGAATGCGTGTACACTGAGGAATAACAACAGCAGTCGCTTTGGGAAGTTCA
TCCAGCTCCAGCTGAACAGGGCTCAGCAAATGACTGGAGCCGAGTCCAGACCTACCTCCTAGAGAAAACTCGAG
TGGCCTGCCAGGCTTCCAGTGAGAGGAACCTCCACATCTTCTATCAGATTTGCAAAGGAGCCAGTGAGGACGAGA
GGCTCCAGTGGCACCTTCTGAGGGAGCTGCCTTCTCCTGGCTGCCCCAACCCAGAGAGGAGCTTAGAAGAGGATT
GTTTTGAGGTGACCAGAGAGGCCATGCTCCATTTGGGCATTGACACCCCTACCCAGAACAACATCTTTAAGGTCC
TAGCTGGACTGCTGCACCTTGGCAATATCCAGTTTGTCTGCTCCGAGGATGAAGCCAGCCCTGCCAGCCGATGG
ATGATGCCAAGTACTCTGTGTCAGGACGGCAGCCTCGCTGCTGGGGCTCCAGAGGACGTGCTGCTGGAGATGGTGC
AGATTAGAACCATCAGGGCAGGCAGACAGCAGCAGGTGTTCCGGAAGCCCTGCGCCCGAGCCGAGTGTGACACCC
GTAGAGACTGCCTGGCCAACTGATCTATGCGCGGTTGTTTACTGGCTGGTATCAGTGATCAACAGCAGCATCT
GTGCAGACACCGACTCGTGGACCACTTTTCATAGGCCTGCTGGATGTGTATGGATTTGAATCATTTTCTGACAACA
GTCTGGAACAGTTGTGCATCAACTACGCCAATGAGAAGCTGCAGCTGGAGGCCTGTGGCCTCGTGGAGACCATCC
ATATCAGTGCTGCTGGCTTCCCCATCCGGGTCTCTCACCGAAAACCTTTGTAGAACGATACAAGTTACTAAGAAGGC
TTCATCCTTGACATCCTCTGGCCCCGACAGCCCATATCCTGCCAAAGGGCTCCCTGAATGGTGTCCACACAGCG
AGGAAGCCACGCTTGAACCTCTCATCCAGGACATTCTCCACACTCTGCCGGTCTAACTCAGGCAGCAGCCATAA
CTGGTGACTCGGCTGAGGCCATGCCAGCCCCCATGCACTGTGGCAGGACCAAGGTGTTTCATGACTGACTCTATGC
TGGAGCTTCTGGAATGTGGGCGTGCCCGGGTGTGAGAGCAGTGTGCCCGCTGCATCCAGGGTGGCTGGAGGCGAC
ACCGGCACCGAGAGCAGGAGCGGCAGTGGCGGGCCGTGATGCTCATCCAGGCAGCCATTGCTTCTGGTTAACTC
GGAAACACATCCAGAGGCTGCATGCAGCTGCCACAGTCATCAAGCGTGCATGGCAGAAGTGGAGAATCAGAATGG
CCTGCCTTGCTGCTAAAGAGCTGGATGGTGTGGAAGAAAAACACTTCTCTCAAGCTCCCTGTTCCCTGAGCACCT
CGCCGCTGCAGACCAGGCTCCTGGAGGCAATAATCCGCCTCTGGCCCCCTGGGACTGGTCTGGCCAATACGGCTA
TGGGTGTAGGCAGCTTTCAGAGGAAATTAGTGGTCTGGGCTTGCTCCAGCTCCCCAGGGGCAGCCCCAGTAGCT
ACACTGTCCAGACAGCACAAAGACCAGGCTGGTGTACGTCCATCCGAGCGCTGCCTCAGGGATCGATAAAGTTTC
ACTGCAGAAAGTCTCCACTGCGGTATGCTGACATCTGCCCTGAACCTTCACCTACAGCATTACAGGCTTTAATC
AGATTCTGCTGGAAGACACAGGCTGATCCACGTGACCTCTTCTGCCTTCACTGGGCTGGGGTGATCCTTGGTGC
CTTTGTTTTCCACAAGGCCCTTTTCTGCCCCCTGCCTTGCCAAAGACATTTAATCAGCACACAGCTGCCAGACTAT
TCCCACAGTGCTCCAAATGCACATGAACAACAGTGACGGCTCCAGCCTTCGACCCAGAGCCCCGTGCCAGTGCG
TCAGTGGGCTGGGGTTCCAGGCTACATCAAGCACTGATGGTGTGAGGGCTGGTAGTTACCAAATCAGGGTTAAG
AAACATCAGGGCCACATTTCACTACCTTACAGATCAAACCTCAGCAGCAGTCATGACTGTCTGTCACTACACTGG
GGATCCCAATTCACATAAGCACTTTTGGGAAGAAAACAGCCAAAGTTGGCCTAAAATTGGCGCTGGAATTTGGGC
TGGGAAAAATCTTGTGGTTATTTCTTTAAAAAGGAACAAAACCTTTAGTATTTAATTAGTTGATTTATTTAATGT
AATTTCAAACAATTAAATTATGAATAATGCAATGT

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FIGURE 4841

ATGGACATGGCGGATGAGCCACTCAATGGAAGCCACACATGGCTATCCATTCCATTTGACCTCAATGGCTCTGTG
GTGTCAACCAACACCTCAAACCAGACAGAGCCGTACTATGACCTGACAAGCAATGCAGTCCTCACATTCATCTAT
TTTGTGGTCTGCATCATTGGGTTGTGTGGCAACACACTTGTCATTTATGTCATCCTCCGCTATGCCAAGATGAAG
ACCATCACCAACATTTACATCCTCAACCTGGCCATCGCAGATGAGCTCTTCATGCTGGGTCTGCCTTTCTTGGCT
ATGCAGGTGGCTCTGGTCCACTGGCCCTTTGGCAAGGCCATTTGCCGGGTGGTCATGACTGTGGATGGCATCAAT
CAGTTCACCAGCATCTTCTGCCTGACAGTCATGAGCATCGACCGATACCTGGCTGTGGTCCACCCCATCAAGTCG
GCCAAGTGGAGGAGACCCCGGACGGCCAAGATGATCACCATGGCTGTGTGGGAGTCTCTCTGCTGGTCATCTTG
CCCATCATGATATATGCTGGGCTCCGGAGCAACCAGTGGGGGAGAAGCAGCTGCACCATCAACTGGCCAGGTGAA
TCTGGGGCTTGGTACACAGGGTTCATCATCTACACTTTCACTTCTGGGGTTCCTGGTACCCCTCACCATCATCTGT
CTTTGCTACCTGTTTATTATCATCAAGGTGAAGTCCTCTGGAATCCGAGTGGGCTCCTCTAAGAGGAAGAAGTCT
GAGAAGAAGGTCACCCGAATGGTGTCCATCGTGGTGGCTGTCTTCATCTTCTGCTGGCTTCCCTTCTACATATTC
AACGTTTCTTCCGTCTCCATGGCCATCAGCCCCACCCAGCCCTTAAAGGCATGTTTGACTTTGTGGTGGTCCTC
ACCTATGCTAACAGCTGTGCCAACCCCTATCCTATATGCCCTTCTTGTCTGACAACCTCAAGAAGAGCTTCCAGAA
GTCCTCTGCTTGGTCAAGGTGAGCGGCACAGATGATGGGGAGCGGAGTGACAGTAAGCAGGACAAATCCCGGCTG
AATGAGACCACGGAGACCCAGAGGACCCTCCTCAATGGAGACCTCCAAACCAGTATCTTGA

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FIGURE 4842

MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYDLTSSNAVLTFIYFVVCIIIGLCGNTLVIYVILRYAKMK
TITNIYILNLAIADELFMLGLPFLAMQVALVHWPFGKAICRVVMTVDGINQFTSIFCLTVMSIDRYLAVVHPIKS
AKWRRPRTAKMITMAVWGVSLLVILPIMIIYAGLRSNQWGRSSCTINWPGESGAWYTGFIITYTFILGFLVPLTIIC
LCYLFIIIKVKSSGIRVGSSKRKKSEKKVTRMVSIIVAVFIFCWLPFYIFNVSSVSMAISPTPALKGMFDFVVVL
TYANSCANPILYAFLSDNFKKSFQNVLCCLKVSGTDDGERSDSKQDKSRLNETTETQRTLLNGDLQTSI

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FIGURE 4843

CAGCGAGCCGCAGCGCAATCCCGGCGCTCGCCCAAGGACCCTGGAAGCTACCGTTACCCCGCCGGCAGCGTGGGC
GCC**ATG**AGCAGCTCGGGACTGAATTTCGGAGAAGGTAGCTGCTCTGATACAGAACTGAATTCCGACCCCCAGTTC
GTACTTGCCCAGAATGTCGGGACCACCCACGACCTGCTGGACATCTGTCTGAAGCGGGCCACGGTGCAGCGCGCG
CAGCATGTGTTCCAGCACGCCGTGCCCCAGGAGGGCAAGCCAATCACCAACCAGAAGAGCTCAGGGCGATGCTGG
ATCTTTTCTTGTCTGAATGTTATGAGGCTTCCATTTCATGAAAAAGTTAAATATTGAAGAATTTGAGTTTAGCCAA
TCTTACCTGTTTTTTTTGGGACAAGGTTGAACGCTGTTATTTCTTCTTGAGTGCTTTTGTGGACACAGCCCAGAGA
AAGGAGCCTGAGGATGGGAGGCTGGTGCAGTTTTTGTCTTATGAACCCTGCAATGATGGTGGCCAATGGGATATG
CTTGTTAATATTGTTGAAAAATATGGTGTATCCCTAAGAAATGCTTCCCTGAATCTTATACAACAGAGGCAACC
AGAAGGATGAATGATATTCTGAATCACAAGATGAGAGAATTCTGTATACGACTGCGGAACCTGGTACACAGTGGA
GCAACCAAAGGAGAAATCTCGGCCACACAGGACGTCATGATGGAGGAGATATTCGAGTGGTGTGCATCTGTTTG
GGTAATCCACCAGAGACATTACCTGGGAATATCGAGACAAAGATAAAAATTATCAGAAAATTGGCCCCATAACA
CCCTTGAGTTTTTACAGGGAACATGTCAAGCCACTCTTCAATATGGAAGATAAGATTTGTTTAGTGAATGACCTT
AGGCCCCAGCACAAGTACAACAACTTTACACAGTGGAATACTTAAGCAATATGGTTGGTGGGAGAAAACTCTA
TACAACAACCAGCCCATTGACTTCCTGAAAAAGATGGTTGCTGCCTCCATCAAAGATGGAGAGGCTGTGTGGTTT
GGCTGTGATGTTGGAAAACACTTCAATAGCAAGCTGGGCCTCAGTGACATGAATCTCTATGACCATGAGTTAGTG
TTTGGTGTCTCCTTGAAGAACATGAATAAAGCGGAGAGGCTGACTTTTGGTGAGTCACTTATGACCCACGCCATG
ACCTTCACTGCTGTCTCAGAGAAGGATGATCAGGATGGTGTCTTACAAAATGGAGAGTGGAGAATTCATGGGGT
GAAGACCATGGCCACAAAGGTTACCTGTGCATGACAGATGAGTGGTTCTCTGAGTATGTCTACGAAGTGGTGGTG
GACAGGAAGCATGTCCCTGAAGAGGTGCTAGCTGTGTTAGAGCAGGAACCCATTATCCTGCCAGCATGGGACCCC
ATGGGAGCTTTGGCTGAG**TG**ATACTGCCCTCCAGCTCTTTCCTCCTTCCATGGAACCTGACGTAGCTGCAAAGGA
CAGATCCAGGGACTGAAGCCAAAGTTATGCAAGGGACTGTGTGTTGCCACAGGACACAGTCAGATTTCCAGTCTC
CACCAGGAACCTCTTCAGAAAGTGTGCTTTATGCTGAAACAGAATACTGTTAAAGGAAAAAAAAAGAGGGGGGAAG
ATCAGGTCATACTATCTACTCTCCTCATCTCTAACAGCTCAGGATCTCTTAGCATTTTAATTAGATGTAATTGTT
TGTCTTTAACTGTCAAAAAGTTTGGTTCTGTGTCTGTGTTTTAATAAGACGAGAGGACGAGCGATTGAGGTGTAT
GGAGAGAAAACAGACCTAATGCTCCTTGTTCCCTAGAGTAGAGTGGAGGGAGGGTGGCCTAAGAGTTGAGCTCTCG
GAACTGCATGCTGCTGGACAGTATCACTGTCTTTCCCTAGATGGCAGTCACTGAATTC

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FIGURE 4844

MSSSGLNSEKVAALIQKLNSDPQFVLAQNVGTTHDLLDICLKRA TVQRAQHVFQHAVPQEGKPI TNQKSSGRCWI
FSCLNVMRLPFMKKLNIEEFESQSYLFFWDKVERCYFFLSAFVDTAQRKEPEDGRLVQFLLMNPANDGGQWDML
VNIVEKYGVIPKKCFPESYTTTEATTRMNDILNHKMREFCIRLRNLVHSGATKGEISATQDVMMEEIFRVVCICLG
NPPETFTWEYRDKDKNYQKIGPITPLEFYREHVKPLFNMEDKICLVNDPRPQHKYNKLYTVEYLSNMVGGRTLY
NNQPIDFLKKMVAASIKDGEAVWFGCDVGKHFNSKLGLSDMNLYDHELVFGVSLKNMNKAERLTFGESLMTHAMT
FTAVSEKDDQDGAFTKWRVENSWGEDHGKGYLCMTDEWFSEYVYEVVDRKHPPEEVLAVLEQEPIILPAWDPM
GALAE

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FIGURE 4845

GTAGTCTGAGCGCTACCCGGTTGCTGCTGCCCCAAGGACCGCGGAGTCCGGACGCAGGCAGACCATGTGGACCCCTGG
TGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGGAACGCGGTGCCAGATGGTCAGTTCTGCCCTGTGGCCT
GCTGCCTGGACCCCGGAGGAGCCAGCTACAGCTGCTGCCGTCCCCCTTCTGGACAAATGGCCACAACACTGAGCA
GGCATCTGGGTGGCCCCCTGCCAGGTTGATGCCCCTGCTCTGCCGGCCACTCCTGCATCTTTACCGTCTCAGGGA
CTTCCAGTTGCTGCCCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCACTGCTGCCCACGGGGCTTCCACT
GCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGGTAACAACCTCCGTGGGTGCCATCCAGTGCCCTGATAGTC
AGTTCGAATGCCCCGACTTCTCCACGTGCTGTGTTATGGTCGATGGCTCCTGGGGGTGCTGCCCCATGCCCCAGG
CTTCTGCTGTGAAGACAGGGTGCACTGCTGTCCGCACGGTGCCCTTCTGCGACCTGGTTCCACACCCGCTGCATCA
CACCCACGGGCACCCACCCCTGGCAAAGAAGCTCCCTGCCCAGAGGACTAACAGGGCAGTGGCCTTGTCCAGCT
CGGTCACTGTGTCCGGACGCACGGTCCCGGTGCCCTGATGGTTCTACCTGCTGTGAGCTGCCAGTGGGAAGTATG
GCTGCTGCCCCAATGCCCAACGCCACCTGCTGCTCCGATCACCTGCACTGCTGCCCCCAAGACACTGTGTGTGACC
TGATCCAGAGTAAGTGCCTCTCCAAGGAGAAGCTACCACGGACCTCCTCACTAAGCTGCCTGCGCACACAGTGG
GGGATGTGAAATGTGACATGGAGGTGAGCTGCCCAGATGGCTATACCTGCTGCCGTCTACAGTCGGGGGCTGGG
GCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGACCACATACACTGCTGTCCCGCGGGGTTTACGTGTGACA
CGCAGAAGGGTACCTGTGAACAGGGGCCCCACCAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGC
CAGACCCACAAGCCTTGAAGAGAGATGTCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATACCTGCTGCC
AACTCACGTCTGGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTGCTCGGACCACCAGCACTGCTGCC
CCCAGGGCTACACGTGTGTAGCTGAGGGGAGTGTGAGCGAGGAAGCGAGATCGTGGCTGGACTGGAGAAGATGC
CTGCCCCCGGGCTTCCCTTATCCACCCCAGAGACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGGCAGA
CCTGCTGCCCCGAGCCTGGGTGGGAGCTGGGCCTGCTGCCAGTTGCCCCATGCTGTGTGCTGCGAGGATCGCCAGC
ACTGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAAGGAAGTGGTCTCTGCCAGCCTG
CCACCTTCCCTGGCCCGTAGCCCTCACGTGGGTGTGAAGGACGTGGAGTGTGGGGAAGGACACTTCTGCCATGATA
ACCAGACCTGCTGCCGAGACAACCGACAGGGCTGGGCCTGCTGTCCCTACCGCCAGGGCGTCTGTTGTGCTGATC
GGCGCCACTGCTGTCTGCTGGCTTCCGCTGCGCAGCCAGGGGTACCAAGTGTGTTGCGCAGGGAGGCCCCGCGCT
GGGACGCCCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTGTGAGGGGACAGTACTGAAGACTCTGCAGCCCTCGG
GACCCCACTCGGAGGGTGCCCTCTGCTCAGGCCTCCCTAGCACCTCCCCCTAACCAAATTCTCCCTGGACCCCAT
TCTGAGCTCCCCATACCATGGGAGGTGGGGCCTCAATCTAAGGCCTTCCCTGTCAGAAGGGGGTTGTGGCAAAA
GCCACATTACAAGCTGCCATCCCCTCCCCGTTTCACTGGACCCCTGTGCCAGGTGCTTTTCCCTATCCACAGGGG
TGTTTGTGTGTGTGCGCGTGTGCGTTTCAATAAAGTTTGTACACTTCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 4846

MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTTLSRHLGGPCQVDAHCSAGHSCIF
TVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGRSCFQSRGNNSVGAIQCPDSQFECPDFSTCCVMVDGSGWCC
PMPQASCCEDRVHCCPHGAFCDLVHTRCITPTGTHPLAKKLPAQRTNRAVALSSSVMCPDARSRCPDGSTCCELP
SGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLSKENATDLLTKLPAHTVGDVKCDMEVSCPDGYTCCRLQ
SGAWGCCPFTQAVCCEDHIHCCPAGFTCDTQKGTCEQGPHQVPWMEKAPAHLSLPDPQALKRDVPCDNVSSCPSS
DTCCQLTSGEWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGSEIVAGLEKMPARRASLSHPRDIGCDQHTSC
PVGQTCPPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCNVKARSCEKEVSAQPATFLARSPHVGVKDVECGEGH
FCHDNQTCCRDNRQGWACCPYRQGVCCADRRHCCPAGFRCAARGTKCLRREAPRWDAPLRDPALRQLL

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FIGURE 4847

GGCTAGGTGCGCTGCGAGCGCGCGGAGCCACGAGGGCGGACGGACGTAATGGGCCCCGCTGGCCCTGGGCGCCGC
GCCGCACGAGCACCAGCCTAGAGCCAGGACTGAAGCTTCAAG**ATGG**CTGACCAGGACCCCTGCGGGCATCAGCCCC
CTCCAGCAAATGGTGGCCTCAGGCACCGGGGCTGTGGTTACCTCTCTCTTCATGACACCCCTGGACGTGGTGAAG
GTTTCGCCTGCAGTCTCAGCGGCCCTCCATGGCCAGCGAGCTGATGCCTTCCTCCAGACTGTGGAGCCTCTCCTAT
ACCAAATGGAAGTGCCTCCTGTATTGCAATGGTGTCTCTGGAGCCTCTGTACCTGTGCCCAAATGGTGGCCGCTGT
GCCACCTGGTTTCAAGACCCTACCCGCTTCACTGGCACCATGGATGCCTTCGTGAAGATCGTGAGGCACGAGGGC
ACCAGGACCCCTCTGGAGCGGCCCTCCCCGCCACCCTGGTGATGACTGTGCCAGCTACCGCCATCTACTTCACTGCC
TATGACCAACTGAAGGCCTTCCTGTGTGGTCGAGCCCTGACCTCTGACCTCTACGCACCCATGGTGGCTGGCGCG
CTGGCCCGCTGGGCACCGTGA CTGTGATCAGCCCCCTGGAGCTTATGCGGACAAAGCTGCAGGCTCAGCATGTG
TCGTACCGGGAGCTGGGTGCCTGTGTTTCAACTGCAGTGGCTCAGGGTGGCTGGCGCTCACTGTGGCTGGGCTGG
GGCCCCACTGCCCTTCGAGATGTGCCCTTCTCAGCCCTGTACTGGTTCAACTATGAGCTGGTGAAGAGCTGGCTC
AATGGGTTCAAGCCGAAGGACCAGACTTCTGTGGGCATGAGCTTTGTGGCTGGTGGCATCTCAGGGACGGTGGCT
GCAGTGCTGACTCTACCCTTTGACGTGGTAAAGACCCAACGCCAGGTGCTCTGGGAGCGATGGAGGCTGTGAGA
GTGAACCCCTGCATGTGGACTCCACCTGGCTGCTGCTGCGGAGGATCCGGGCCGAGTCGGGCACCAAGGGACTC
TTTGAGGCTTCCTTCCTCGGATCATCAAGGCTGCCCCCTCCTGTGCCATCATGATCAGCACCTATGAGTTCGGC
AAAAGCTTCTTCAGAGGCTGAACCAGGACCGGCTTCTGGGCGGC**TGA**AAGGGGCAAGGAGGCAAGGACCCCGTC
TCTCCACGGATGGGGAGAGGGCAGGAGGAGACCCAGCCAAGTGCCTTTTCTCAGCACTGAGGGAGGGGGCTTG
TTTCCCTTCCCTCCCGGCGACAAGCTCCAGGGCAGGGCTGTCCCTCTGGGCGGCCAGCACTTCCTCAGACACAA
CTTCTTCCTGCTGCTCCAGTCGTGGGGATCATCACTTACCCACCCCCCAAGTTCAAGACCAAATCTTCAGCTGC
CCCCTTCGTGTTTCCCTGTGTTTGCTGTAGCTGGGCATGTCTCCAGGAACCAAGAAGCCCTCAGCCTGGTGTAGT
CTCCCTGACCCTTGTTAATTCTTAAGTCTAAAGATGATGAACCTTCAAAAAAAAAA

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FIGURE 4848

MADQDPAGISPLQQMVASGTGAVVTSLFMTPLDVVKVRLQSQRPMSASELMPSSRLWSLSYTKWKCLLYCNGVLE
PLYLCPNGARCATWFQDPTRFTGTMDAFVKIVRHEGTRTLWSGLPATLVMTVPATAIYFTAYDQLKAFLCGRALT
SDLYAPMVAGALARLGTVTVISPLELMRTKLQAQHVSYRELGACVRTAVAQGGWRSLWLGWGPTALRDVPFSALY
WFNYELVKSWLNGFRPKDQTSVGMSFVAGGISGTVA AVLTLFPD VVKTORQVALGAMEAVRVNPLHVDSTWLLLR
RIRAESGTKGLFAGFLPRIIKAAPSCAIMISTYEFGKSFFQRLNQDRLLGG

FIGURE 4849

A

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FIGURE 4850A

GCGGAGCCGGAGGAGCCGCCGCAAAGATGGAGGAGCCGTCGAGGAGGTGCTGCCGCCGCTGCCGCCGCCGCTGCT
GCCGCCGCCGCCGCCGGAAGCCGGAGCTCGAGCCGCAGCGGGGATGCCGTTCTGAGTGCCCTGACTGCCCTGCCCCCG
AAGGATGGCCTCGGATGGGCATTAGAGGCACGGCGGGCCCCGGGCTCCCGTCCCGTCCGTCTGTCTGTTATCGTCT
GTCTCTCTTGACATCACCGCAGCTCCACCCCTCCCGTCCCAGCCCCAACGCCAGCTTCCTGCAGGCCAGAGC
CGGC**ATG**AACTCTCCCAACGAGTCGGATGGGATGTCAGGTCGGGAACCATCCTTGAAATCCTGCCGCCGACTTC
TCTGCACAGCATCCCTGTGACAGTGGAGGTGAAGCCGGTGCTGCCAAGAGCCATGCCAGTTCCATGGGGGGTGG
GGGTGGAGGCGAGCCCCAGCCCTGTGGAGCTACGGGGGGCTCTGGTGGGCTCTGTGGACCCACACTGCGGGAGCA
GCAACTGCAGCAGGAGCTCCTGGCGCTCAAGCAGCAGCAGCAGCTGCAGAAGCAGCTCCTGTTGCTGAGTTCCA
GAAACAGCATGACCACCTGACAAGGCAGCATGAGGTCCAGCTGCAGAAGCACCTCAAGCAGCAGCAGGAGATGCT
GGCAGCCAAGCAGCAGCAGGAGATGCTGGCAGCCAAGCGGCAGCAGGAGCTGGAGCAGCAGCGGCAGCGGGAGCA
GCAGCGGCAGGAAGAGCTGGAGAAGCAGCGGCTGGAGCAGCAGCTGCTCATCCTGCGGAACAAGGAGAAGAGCAA
AGAGAGTGCCATTGCCAGCACTGAGGTAAAGCTGAGGCTCCAGGAATTCTCTTGTGCAAGTCAAAGGAGCCAC
ACCAGGCGGCCTCAACCATTCCCTCCACAGCACCCCAAATGCTGGGGAGCCACCATGCTTCTTTGGACCAGAG
TTCCCTTCCCAGAGCGGCCCCCTGGGACGCCTCCCTCTACAACTGCCTTTGCCTGGGCCCTACGACAGTCG
AGACGACTTCCCCCTCCGCAAAACAGCCTCTGAACCCAACTTGAAAGTGCGTTCAAGGCTAAAACAGAAGGTGGC
TGAGCGGAGAAGCAGTCCCTCTGCGTCGCAAGGATGGGACTGTTATTAGCACCTTTAAGAAGAGAGCTGTTGA
GATCACAGGTGCCGGGCTGGGGCGTCTGTCGTGTAACAGCGCACCCGGCTCCGGCCCCAGCTCTCCCAACAG
CTCCACAGCACCATCGCTGAGAATGGCTTTACTGGCTCAGTCCCCAACATCCCCACTGAGATGCTCCCTCAGCA
CCGAGCCCTCCCTCTGGACAGCTCCCCAACAGTTTACGCTCTACACGTCTCCTTCTCTGCCAACATCTCCCT
AGGGCTGCAGGCCACGGTCACTGTACCAACTCACACCTCACTGCCTCCCCGAAGCTGTGACACAGCAGGAGGC
CGAGAGGCAGGCCCTCCAGTCCCTGCGGCAGGGTGGCACGCTGACCGGCAAGTTCATGAGCACATCCTCTATTCC
TGGCTGCCTGCTGGGCGTGGCACTGGAGGGCGACGGGAGCCCCACGGGCATGCCTCCCTGCTGCAGCATGTGCT
GTTGCTGGAGCAGGCCCGGCAGCAGACACCTCATTGCTGTGCCACTCCACGGGCAGTCCCCACTAGTGACGGG
TGAACGTGTGGCCACCAGCATGCGGACGGTAGGCAAGCTCCCGCGGCATCGGCCCTGAGCCGCACTCAGTCCCT
ACCGCTGCCGCAGAGTCCCCAGGCCCTGCAGCAGCTGGTTCATGCAACAACAGCACCCAGCAGTTCTTGAGAAGCA
GAAGCAGCAGCAGCTACAGCTGGGCAAGATCCTCACCAAGACAGGGGAGCTGCCAGGCAGCCACCACCCACCC
TGAGGAGACAGAGGAGGAGCTGACGGAGCAGCAGGAGGTCTTGCTGGGGGAGGGAGCCCTGACCATGCCCCGGGA
GGGCTCCACAGAGAGTGAGAGCACACAGGAAGACCTGGAGGAGGAGGACGAGGAAGAGGATGGGGAGGAGGAGGA
GGATTGCATCCAGGTTAAGGACGAGGAGGGCGAGAGTGGTGTGAGGAGGGGCCGACTTGAGGAGCCCTGGTGC
TGGATACAAAAAACTGTTCTCAGATGCCAGCCGCTGCAGCCTTTGCAGGTGTACCAGGCGCCCTCAGCCTGGC
CACTGTGCCCCACCAGGCCCTGGGCCGTACCCAGTCTCTCCCTGCTGCCCTGGGGGCATGAAGAGCCCCCAGA
CCAGCCCGTCAAGCACCTTTTACCACAGGTGTGGTCTACGACACGTTTCATGCTAAAGCACCACTGTCATGTGCGG
GAACACACACGTGCACCCTGAGCATGCTGGCCGATCCAGAGCATCTGGTCCCGGCTGCAGGAGACAGGCCTGCT
TAGCAAGTGCAGCGGATCCGAGGTGCAAAAGCCACGCTAGATGAGATCCAGACAGTGCCTCTGAATACCACAC
CTGCTCTATGGGACCAGTCCCTCAACCGGCAGAAGCTAGACAGCAAGAAGTTGCTCGGCCCATCAGCCAGAA
GATGTATGCTGTGCTGCCTTGTGGGGGCATCGGGGTGGACAGTGACACCGTGTGGAATGAGATGCACTCCTCCAG
TGCTGTGCGCATGGCAGTGGGCTGCCTGCTGGAGCTGGCCTTCAAGGTGGCTGCAGGAGAGCTCAAGAATGGATT
TGCCATCATCCGGCCCCCAGGACACCACGCCGAGGAATCCACAGCCATGGGATTCTGCTTCTTCAACTCTGTAGC
CATCACCGCAAAACTCCTACAGCAGAAGTTGAACGTGGGCAAGGTCTCATCGTGGACTGGGACATTACCATGG
CAATGGCACCCAGCAGGCGTTCTATAATGACCCCTCTGTGCTCTACATCTCTCTGCATCGCTATGACAACGGGAA
CTTCTTTCCAGGCTCTGGGGCTCCTGAAGAGGTTGGTGGAGGACCAGGCGTGGGGTACAATGTGAACGTGGCATG
GACAGGAGGTGTGGACCCCCCATTTGGAGACGTGGAGTACCTTACAGCCTTCAGGACAGTGGTGATGCCCATTGC
CCACGAGTTCTCACCTGATGTGGTCTTAGTCTCCGCCGGGTTTGATGCTGTTGAAGGACATCTGTCTCTCTGGG
TGGCTACTCTGTACCCGCCAGATGTTTTGGCCACTTGACCAGGCAGCTGATGACCTTGGCAGGGGGCCGGGTGGT
GCTGGCCCTGGAGGGAGGCCATGACTTGACCGCATCTGTGATGCCTCTGAGGCTTGTGTCTCGGCTCTGCTCAG
TGTAGAGCTGCAGCCCTTGGATGAGGCAGTCTTGAGCAAAAGCCCAACATCAACGCAGTGGCCACGCTAGAGAA
AGTCATCGAGATCCAGAGCAAACACTGGAGCTGTGTGAGAAAGTTGCGCGCTGGTCTGGGCCGGTCCCTGCGAGA
GGCCCAAGCAGGTGAGACCGAGGAGGCCGAGACTGTGAGCGCCATGGCCTTGCTGTGCGTGGGGGCCGAGCAGGC

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FIGURE 4850B

CCAGGCTGCGGCAGCCCGGGAACACAGCCCCAGGCCGGCAGAGGAGCCCATGGAGCAGGAGCCTGCCCTG**TGACG**
CCCCGGCCCCCATCCCTCTGGGCTTCACCATTTGTGATTTTGTTTATTTTTTCTATTAAAAACAAAAAGTCACACA
TTC

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FIGURE 4851

MNSPNESDGMMSGREPSLEILPRTSLHSIPVTVEVKPVLPRAMPSSMGGGGGGSPSPVELRGALVGSVDPTLREQQ
LQQELLALKQQQQQLQKQLLFAEFQKQHDHLTRQHEVQLQKHLKQQQEMLAALKQQQEMLAALKRQQELEQQRQREQQ
RQEELEKQRLEQQLLILRNKEKSKESAIASTEVLRLQEFLLSKSKEPTPGGLNHSPLQHPKCWGAHHASLDQSS
PFQSGPFGTPPSYKLPPLPGPYDSRDDFPLRKTASEPNLKVRSRLKQKVAERRSSPLLRRKDGTIVISTFKKRAVEI
TGAGPGASSVCNSAPGSGPSSPNSSHSTIAENGFTGSVPNIPTMLPQHRALPLDSSPNQFSLYTSPSLPNISLG
LQATVTVTNSHLTASPKLSTQQEAERQALQSLRQGGTLTGKFMSTSSIPGCLLGVALEGDGSPHGHASLLQHVL
LEQARQQSTLIAVPLHGQSPLVTGERVATSMRTVGKLP RHRPLSRTQSSPLPQSPQALQQLMQQQHQQFLEKQK
QQQLQLGKILTKTGELPRQPTTHPEETEEELTEQQEVLLGEGALTMPREGSTESESTQEDLEEDEEEEDGEEED
CIQVKDEEGESGAEEGPDLEEPGAGYKKLFSDAQPLQPLQVYQAPLSLATVPHQALGRTQSSPAAPGGMKSPDQ
PVKHLFTTGVVYDTFMLKHQCMCGNTHVHPEHAGRIQSIWSRLQETGLLSKCERIRGRKATLDEIQTIVHSEYHTL
LYGTSPINRQKLD SKLLGPISQKMYAVLPCGGIGVSDTVWNEMHSSSAVRMAVGCLLELAFKVAAGELKNGFA
IIRPPGHHAEEESTAMGFCFFNSVAITAKLLQQKLNVGKVLIVDWDIHHGNGTQQAFYNDPSVLYISLHRYDNGNF
FFPGSGAPEEVGGPGVGYNVNVAVWTGGVDPPIGDVEYLTAFTVVMPIAHEFSPDVVLVSAGFDAVEGHLSPGG
YSVTARCFGHLTRQLMTLAGGRVVLALLEGHDLTAICDASEACVSALLSVELQPLDEAVLQQKPNINAVATLEKV
IEIQSKHWSCVQKFAAGLGRSLREAQAGETEEAETVSAMALLSVGAEQAAAREHSPRPAEEPMEQEPAL

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FIGURE 4852

CGGAGGAGAGCGCAGGAGGAAACAGTACCGGCTGGAGGCCGGTCTTGCAGGAGCGGGGGACTGCTGGGGGCGGGG
CTTGGTGGTGA CTGCTGGCGGGGCGGGGCTGGGGCTCAGAGGGGTGGGCTTTGGAGATCAGAGGGTCGACGCTG
CTTCGTTGCCCTGGACTCTGGTTTCCGCCCTGGAGCAAGCCGGGGCCTGGTCGGCAGCTGGGGCCGCC**ATGG**AGTCC
ACGCTGGGCGCGGGCATCGTGATAGCCGAGGCGCTACAGAACCAGCTAGCCTGGCTGGAGAACGTGTGGCTCTGG
ATCACCTTTCTGGGCGATCCCAAGATCCTCTTTCTGTTCTACTTCCCCGCGGCCTACTACGCCTCCCGCCGTGTG
GGCATCGCGGTGCTCTGGATCAGCCTCATCACCGAGTGGCTCAACCTCATCTTCAAGTGGTTTCTTTTTGGAGAC
AGGCCCTTTTGGTGGGTCCATGAGTCTGGTTACTACAGCCAGGCTCCAGCCCAGGTTACACAGTTCCCTCTTCT
TGTGAGACTGGTCCAGGCAGCCCTTCTGGACACTGCATGATCACAGGAGCAGCCCTCTGGCCCATAATGACGGCC
CTGTCTTCGCAGGTGGCCACTCGGGCCCGCAGCCGCTGGGTAAGGGTGATGCCTAGCCTGGCTTATTGCACCTTC
CTTTTGGCGGTTGGCTTGTGCGGAATCTTCATCTTAGCACATTTCCCTCACCAGGTGCTGGCTGGCCTAATAACT
GGCGCTGTCTGGGCTGGCTGATGACTCCCCGAGTGCCTATGGAGCGGGAGCTAAGCTTCTATGGGTTGACTGCA
CTGGCCCTCATGCTAGGCACCAGCCTCATCTATTGGACCCTCTTTACACTGGGCCTGGATCTTTCTTGGTCCATC
AGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGATAGCCGGCCCTTTGCCTCCCTGAGCCGT
GACTCAGGGGCTGCCCTGGGCCTGGGCATTGCCTTGCACTCTCCCTGCTATGCCCAGGTGCGTCGGGCACAGCTG
GGAAATGGCCAGAAGATAGCCTGCCTTGTGCTGGCCATGGGGCTGCTGGGCCCCCTGGACTGGCTGGGCCACCCC
CCTCAGATCAGCCTCTTCTACATTTTCAATTTCTCAAGTACACCCTCTGGCCATGCCTAGTCTGGCCCTCGTG
CCCTGGGCAGTGCACATGTTCAAGTGGCCAGGAAGCACCGCCCATCCACTCTTCC**TGAC**CTTCTTGTGTGCCTCCCT
TTCCTTTCCCTCCCACAAAGCCAACACTCTGTGACCACCACACTCCAGGAGGCAGCCCCATCCCCTTCCAGCCCC
TAAGTAGGCCCTCCCCTCCCTAAATCTGCTTCCGCACCACCTGGTCTTAGCCCCAAAGATGGGCCTTCTCTCTCC
CAGATAAGTTGGTCCTCCCTCTGCCTTTCTCTCAAGCCCCAAAGAGCAAAGGCAACAGCAAGACCAGCGGGTT
CTTGCAACACTGTGAGGGGCAGCCAGGGCGGGCCCAATAAAGCCCTTGAATACTT

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FIGURE 4853

MESTLGAGIVIAEALQNQLAWLENVWLWITFLGDPKILFLFYFPAAYYASRRVGI AVLWISLITEWLNLI FKWFL
FGDRPFWWVHESGYYSQAPAQVHQFPSSCETGPGSPSGHCMITGAALWPIMTALSSQVATRARSRWVRVMP SLAY
CTFLLAVGLSRIFILAHFPHQVLAGLITGAVLGWLMTPRVPMERELSFYGLTALALMLGTSLIYWTLFTLGLDLS
WSISLAFKWCERPEWIHVDSRPFASLSRDSGAALGLGIALHSPCYAQVRRACLGNQKIACLVLAMGLLGPLDWL
GHPPQISLFYIFNFLKYTLWPCLVLALVPWAVHMFSAQEAPPIHSS

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FIGURE 4854

GGCACGAGGCCGCGAGCGGACTGCCCTTTCCCAAGATGGCGTCGAAGATAGGTTTCGAGACGGTGGATGTTGCAGCT
GATCATGCAGTTGGGTTTCGGTGCTGCTCACACGCTGCCCCTTTTGGGGCTGCTTCAGCCAGCTCATGCTGTACGC
TGAGAGGGCTGAGGCACGCCGAAGCCCGACATCCCAGTGCCTTACCTGTATTTTCGACATGGGGGCAGCCGTGCT
GTGCGCTAGTTTTCATGTCCTTTGGCGTGAAGCGGCGCTGGTTTCGCGCTGGGGGCCGCACTCCAATTGGCCATTAG
CACCTACGCCGCCTACATCGGGGGCTACGTCCACTACGGGGACTGGCTGAAGGTCCGTATGTACTCGCGCACAGT
TGCCATCATCGGCGGCTTTCTTGTTGGCCAGCGGTGCTGGGGAGCTGTACCGCCGAAACCTCGCAGCCGCTC
CCTGCAGTCCACCGGCCAGGTGTTCTGGGTATCTACCTCATCTGTGTGGCCTACTCACTGCAGCACAGCAAGGA
GGACCGGCTGGCGTATCTGAACCATCTCCAGGAGGGGAGCTGATGATCCAGCTGTTCTTCGTGCTGTATGGCAT
CCTGGCCCTGGCCTTTCTGTGAGGCTACTACGTGACCCTCGCTGCCCAGATCCTGGCTGTACTGCTGCCCCCTGT
CATGCTGCTCATTGATGGCAATGTTGCTTACTGGCACAACACGCGCGTGTTGAGTTCTGGAACCAGATGAAGCT
CCTTGGAGAGAGTGTGGGCATCTTCGGAAGTCTGTGTCATCCTGGCCACTGATGGCTGAGTTTTATGGCAAGAGGC
TGAGATGGGCACAGGGAGCCACTGAGGGTCACCCTGCCTTCCTCCTTGCTGGCCAGCTGCTGTTTTATTTATGCT
TTTTGGTCTGTTTGTTTGATCTTTTGCTTTTTTAAATTGTTTTTTGCAGTTAAGAGGCAGCTCATTGTCCAAA
TTTCTGGGCTCAGCGCTTGGGAGGGCAGGAGCCCTGGCACTAATGCTGTACAGGTTTTTTTTCTGTTAGGAGAGC
TGAGGCCAGCTGCCCAGTCTCCTGTCCCTGAGAAGGGAGTATGGCAGGGCTGGGATGCGGCTACTGAGAGT
GGGAGAGTGGGAGACAGAGGAAGGAAGATGGAGATTGGAAGTGAGCAAAATGTAAAAATTCTCTTTGAACCTGG
CAGATGCAGCTAGGCTCTGCAGTGCTGTTTGGAGACTGTGAGAGGGAGTGTGTGTGTTGACACATGTGGATCAGG
CCCAGGAAGGGCACAGGGGCTGAGCACTACAGAAGTCACATGGGTTCTCAGGGTATGCCAGGGGCAGAAACAGTA
CCGGCTCTCTGTCACTCACCTTGAGAGTAGAGCAGACCCTGTTCTGCTCTGGGCTGTGAAGGGGTGGAGCAGGCA
GTGGCCAGCTTTGCCCTTCCTGCTGTCTCTGTTTCTAGCTCCATGGTTGGCCTGGTGGGGGTGGAGTTCCCTCCC
AAACACCAGACCACACAGTCCTCCAAAAATAAACATTTTATATAGACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4855

MASKIGSRRWMLQLIMQLGSVLLTRCPFWGCFSQLMLYAERAEARRKPDIPVPYLYFDMGAAVLCASFMSFGVKR
RWFALGAALQLAISTYAAYIGGYVHYGDWLKVRMYSRTVAIIGGFLVLASGAGELYRRKPRSRSLQSTGQVFLGI
YLICVAYSLQHSKEDRLAYLNHLPGGELMIQLFFVLYGILALAFLSGYVTLAAQILAVLLPPVMLLIDGNVAYW
HNTRRVEFWNQMKLLGESVGIFGTAVILATDG

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FIGURE 4856

AAAGGACCGAGGCGTGACGCGGACAGCAGATGGATCCCGCGGCCAGCAGCTGCATGAGGAGCCTCCAGCCCCCAG
CCCCTGTCTGGGGCTGCCTTCGAAACCCCCACTCGGAAGGCAATGGGGCCTCAGGGCTACCCCACTACCCGCCCA
CCCCGTTCTCCTTCCACCAGAAACCAGACTTCCTGGCGACAGCGACGGCAGCGTACCCTGACTTCTCAGCCTCCT
GCCTGGCAGCCACCCACACAGCCTGCCCCAGGAGGAGCACATCTTCACTGAGCAGCACCCCGCTTTCCACAGT
CCCCCAACTGGCACTTCCCTGTCTCAGACGCCCCGGCGCAGGCCCAACTCAGGCCCGGCAGGGGGTTCCAAGGAAA
TGGGGACCAGCAGCCTGGGCCTGGTGGACACCACAGGAGGCCCAGGCGATGACTACGGGGTGCTTGGGAGCACTG
CCAATGAGACAGAGAAGAAATCATCCAGGCGGAGAAAGGAGAGTTAGACAACCAGGAGAACAGAGGGAAGCCGG
AGGGCAGCAGCAAAGCCCCGAAGGAGAGGACGGCCTTCACCAAGGAGCAGCTGCGAGAGCTGGAGGCAGAGTTTG
CCCATCATAACTACCTGACTCGGCTCCGCAGATATGAGATTGCGGTAAACCTGGACCTCTCTGAGCGCCAGGTCA
AAGTGTGGTTCCAGAACC GAAGGATGAAGTGGAAAGCGTGTGAAGGGAGGTGAGCCCATCTCCCCCAATGGGCAGG
ACCCTGAGGATGGGGACTCCACAGCCTCTCCAAGTTCAGAGTGAGATTCTGCATGGAGGAAAAATGACTAAGGAC
TGAGCCCCCTACCCAACTACCCCCACCCCAATCCACCTTCACCCTCTTCTTCCCCAGCCAGGGCAGCCTCTCC
ACATCTTTCCTGACTCTTGGATATGAAACTGCCCAGCATTCTTGGGAGTCTTAGGATTTTCTAGGAAGTTCTGT
CCAGCCTCTTAGCAGCCTCTTCCCTAGGGCCTTTGCTCCCACACTCTCATGGAATCAGACAGAGATCCTACCGGG
CCGGATGAATCTGGAACAGCTTCAGAGATACTGCTTCTCAGCGTCTCTTGGCTGCCACCCATGCCTCCTCCTAC
CGCTGTTCTCCTAGGTCAGCCAGGCCTCCTCCTGGTCTGGACACCACCTGGCCTGGTGGGAGAGGAGCTTTGGAA
CCAGCTGGCGACTCGGAAAGTAAATGCTTCAAAAAGGAAGGAAATGACAGAGACACACGCCCTTGCCACCTTCCT
CTGTAGGCTGCACATCTGAGGCTTTGGGGCCCCCTTAGTTGTCCCGAAACCCCAAGAAAAATCAGAATGAGGAGAG
TCAAGGACAGCAACTCAGCTGCTGCAAGCCAGAAACACATCCCTGTCTCAAATTTGTTGGCTAAGTGGAGACAC
TTCTGAGAACTGACTAGAGAAGACAGAAAAATAGCCCGATGTAGGTTTCGGTGTCCCCATATAGGCCCGTCCACA
CAGGCTTGACTGGGTGGACAAGAATGAACCCATGACAGCACCTGCTGCTTCAAATCAAATCAATTTAGGGATA
CAGCAGGGGCTGTTGGGCTGTGCTCCAGAGAAAAGGAGCAGCTACTCCTTTTAAATCCACGATTTCTGGATTGAA
AACCTGTCCAGATGCTGAGTTGTTGGGCTGAACAACCTAGGAGCTGAAAACAACGTAGAGGCTGGAAAGTGTCCCC
TGCATTCTGGAGGGGAGGGGAGATAATAAGGAGGGCTGCTGGGTGAGGGCCTGGAGATGTGGAACCTGGAGTGG
AAGGTTCTCCAGTGACAGTGTCTGTGACTGCAAAAGGGGACAAGAAAATCCCTCTTCCCTCCATGGGATGGATTT
AAGCTCTTGCTGTGTGTTCTACAAATGCTGTTATTGTGGGAGGAAATGCTAGGTTTTTGTGTGTGGACTGCCCAG
ACCTCAGCCAGGTCTTCTGGAGATGACATTTGAGGACTGATGGCCAAAGAGCATGGGGGACTGAAGCCCTGGCTG
CCTCAGCGCTCTGTCTCCCAACACCAGCTGGTGTGTCAGAGGGAGGTCAACGTGAGTTTGGATCTCTTGTACGCA
GATGTAATCATTCACATGTAAAAATAACCCACCTCCCCACCCCAAAAAGGGCAAGAGCTGTGGAATAATGATTGC
CAAATGAGATGGCTGGTTAGAGCATGATTTTTTCTAAAGCATACTTCATATATTTTCTTAAGATTACATCAAGCT
AATTGTGCGAGCTCAATTCACTTTGTAAGAAAACCTCTCGGAGAAATAAAATCAATAAAAAGC

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FIGURE 4857

GAGCGGCCCCGAGGAGGACGCAGCGGCGCTGGAGCTTTCGTCGGACGAGGCGGTGGAGGTTGAGGAGGTTATTGAG
GAGTCCCGCGCAGAGCGTATCAAGCGCAGACACTGCGGCGCGTGGACGACTTCAAGAAGGCCTTCTCCAAGGAGA
AGATGGAGAAGACCAAGGTGCGTACCCGCGGAGAACCTGGAGAAGACGCGCCTCAAGACCAAGGAAAACCTGGAGA
AGACGCGGCACACCCTGGAGAAGCGCATGAACAAGCTGGGCACGCGCCTGGTGCCCGCCGAGCGGCGCGAGAAAC
TGAAGACGTCGCGGGACAAGTTGCGCAAATCCTTCACGCCCCGACCACGTGGTGACGCGCGCTCCAAGACCGCGG
TCTACAAGGTGCCACCCTTCACCTTCCACGTCAAGAAGATCCGCGAGGGCCAGGTGGAAGTGCTCAAGGCCACCG
AGATGGTGGAGGTGGGCGCCGACGACGACGAGGCGGCGGAGCGCGGGGAGGCCGCGCACCTGCGGCGCGGGAGC
AGCCCCGACGTGCACGCGCTGCTGGAGATCACCGAGGAGTCGGACGCCGTGCTGGTGGACAAGAGCGACAGCGAC
TGAGCCGCCCCCGCTGCCACCCACCCATTCTCGCTCCTTCCGAACCTTCTCTTTTCGATTCTCTCTCGGCTCG
AGCTGGCTGAGATTTTTCTAAATTGAAAACACGCCCCCTCCCCACACCTCCAGGAACTCCACTCCCAGTCTTAG
AGCTGTTAGGACCCGATGGGGAGGCAGCCCCCGCAGTGACAGCCCCCGCTTGGACACAGTCCGAGTGGAATGGG
AAGGGAATGGTCAATCCCTGTCCTGGTTGTCCAAGTCGGGATCTCAGAGGAAATTGCAGTGATTCCACGGTTAGG
CCCCCTGGGGGGGCTGCCTTCCCCTCAGCCTCTCCCCACACCACCCACCCAGCTGCTGTCATTCCGCTCACTGA
GCTCTTCTTCAATTCTCACCCTGATCCCTGGGGGACTCAAAGCCAAAACCTGCCAAAGAGGAAAGATTGAATCCTA
AAGGGGATCCTTGCCCCCATGGGAGGCCCCCTACTAGAAGGACGTGAAAGCAGCTTTTGGGGGAAACTGAGGCAG
TGGGGAAGACAGAGCAGAATGAGCCCTCACCCTGGCTGGGGGTCCAGCACAGGCTGTATCTGCAGAGGGTCCCAG
AGGAACGCTGGAGCCAAGAGAAGCCCTGGGAAGGAGGGGTGGGGAACGACATGCATGTGAGGGATGGCACACTGA
TGTGTTTATGCACCTGTACACAGGAGCGCATGGCCATGGCTTTGGAAAGGAGAATGAAAAATAGAAGAAGGTCTG
GCCGGGCTTGGTGGCTTATGCCTGTAACCCAGCACTTTGGGAGGCCGAGGTGGGCGGATCACCTGAGGTCAGGA
GTTTCGGGACCAGCCTGGCAAACACCCCATCTCTACTAAGCGAAAACCCATCTCTACTAAAATTACAAAAATTAGC
TGGGCATGATTGCGCATGCCTGTAATCCAGCTACTTTGGAGGCTGAGGTGGGAGAATTGCTTGAACCTGGGAG
GTGGAGGTTGCAGTGAGCCAAGGTGCGGACACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCCATCTCAACAG
AAGGAAAAAAAAGGAAAATAGGAGAAGGTGGAATGGGTGAAGAGAGAAGTCCCTCACTAGCTGCATGAGAAAT
CTATCTTACTGTGGTTCTCCATGGGCAGCAGGACCATTTTTCAGAATCAAGAGGGAGGACAGTGTGAGAAGGCGA
TGATCCAAAGAAGACAGAGAGGTGAGCCCCACCCGATCCCTCAAATGGGCTCTTGGAGGCACCCCCAGGGGCAGC
CCATTTCTCAAAGTCCAGAAAATTAGGGTCCAGAGGGGGCAGCAGCAGGCTGGGAGTTAGGAGGGAGAGCAGG
GTGCCGGCCCTGCCACCAAGTTGAGAGCTGGAGGGGAGGTGGGGAGAGAACATCACAGAGCAGCCAGCCCTGGTT
CACTCCTGGCAGTTTCTTCTCAAGCTCCTTCCCTAGGAGCATGGTGGCACGTGCCTGTGGTCTCAGCTACTTGGG
AGGCTGAGGCGGGAGGATCGCCAGAGCCCAGGAGTTTGAGGCTGCAGTGAGCTATGAGGGTGCCTCTGTGTCTCA
TCCTAGGCAACAGAGTGAGACGCTGTTTAAAAAGGAAAAAATCCTTCCCTAGAGCTAGTATCCTAAAGCTGCAGA
GCTAGCCCAGACCTCATTGGTTTCCCTTGCTTGGGGTGCTTTTCTGAATCTTTGGGGGTGAAGGGAGTGTTGC
TCCCAGTCCAGAGGCCTGATTCTGTTTCGGACTGGGTTCTCAAGACACGACCAGGTTCTCAAGACACGAGTCCCCT
TGTTCTTCCCCATTAAAGGGGGTTTGTGAGAAGCAAGAACAGCCCCCTCTCCCCAGTCACAGCCTGAAGGGAGGCC
CCGAGAGCTTCCCTCCTTCCCCCACCCTGCTCCTTACCTTCTCTGCCCTGCTTTTTAGAACTGCAGTTTCATTGTTT
TAAGGGATTGGGGGAGGGAGCCTGGGGACACAAACCTTTTATACAATACAAAGCTTTTGCTTTTTTTTTTTTTTTC
TTCCTTTTCCCTTTCTCGGTTCTTCTCTCCTCTGAATGGCTGAAGACCCCTCTGCCGAGGGAGGTTGGGGATT
GTGGGACAAGGTCCCTTGGTGCTGATGGCCTGAAGGGGCTGAGCTGTGGGCAGATGCAGTTTTCTGTGGGCTTG
GGGAACCTCTCACGTTGCTGTGTCTGGTGAGCAGCCCGACCAATAAACCTGCTTTTCT

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FIGURE 4858

MEKTKVVRTRENLEKTRLKTKENLEKTRHTLEKRMNKLGTRLVPAERREKLKTSRDKLRKSFTPDHVVYARSKTAV
YKVPPTTFHVKKIREGQVEVLKATEMVEVGADDDEGGGARGGRRPAAREQPRRARAAGDHRGVGRRAGGQERQRL
SRPRCHPPHSSLLPNFLFRILSRLELAEIFLN

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FIGURE 4859

ATGGCCGTATTCCGGTCGGGTCTCCTGGTGCTGACGACGCCGCTGGCCTCCCTAGCCCCTCGCCTGGCCTCCATC
CTGACCTCGGCGGCCCCGGCTGGTGAATCACACACTCTATGTTACCTGCAGCCGGGCATGAGCCTGGAGGGCCCCG
GCTCAGCCCCAGTACAGCCCCGTGCAGGCCACGTTTGAGGTTCTTGATTTTCATCACGCACCTCTATGCTGGCGCC
GACGTCCACAGGCACCTTGGACGTCAGAATCCTACTGACCAATATCCGAACCAAGAGCACCTTTCTCCCTCCCCTG
CCCACCTCAGTCCAGAATCTCGCCCCACCCGCCAGAAGTCGTGTTGACAGATTTCCAGACCCTGGATGGAAGCCAG
TACAACCCGGTCAAACAGCAGCTAGTGC GTTACGCCACCAGCTGTTACAGCTGTTGTCCGCGACTGGCCTCGGTG
CTGCTATACTCCGATTATGGGATAGGAGAAGTGCCCGTGGAGCCCCCTGGATGTCCCCCTTACCCTCCACGATCAGG
CCAGCTTCCCCCGTGGCCGGGTCTCCAAAGCAGCCGGTGC GTTGGCTACTACCGTGGCGCTGTCCGTGGCACGTTT
GACCGCCTGCACAACGCCCAAGGTGTTGCTCAGTGTGCGGTGCATCCTGGCCCAGGAGCAGCTTGTGGTGGGA
GTAGCAGACAAAGATCTGTTGAAGAGCAAGTTGCTCCCTGAGCTGCTCCAACCTTATACAGAACGTGTGGAACAT
CTGAGTGAATTCTGGTGGACATCAAGCCCTCCTTGACTTTTGATGTCATCCCCCTGCTGGACCCCTATGGGCCC
GCTGGCTCTGACCCCTCCCTGGAGTTCCTGGTGGTCAGCGAGGAGACCTATCGTGGGGGGATGGCCATCAACCGC
TTCCGCCTTGAGAATGACCTGGAGGAAGTTGCTTTGTACCAGATCCAGCTGCTGAAGGACCTCAGACATACGGAG
AATGAAGAGGACAAAGTCAGCTCCTCCAGCTTCGCCAGCGAATGTTGGGGAACCTGCTTCGGCCTCCATATGAA
AGGCCAGAGCTCCCCACATGTCTCTATGTAATTGGGCTGACTGGCATCAGTGGCTCTGGGAAGAGCTCAATAGCT
CAGCGACTGAAGGGCCTGGGGGCGTTTGTCATTGACAGTGACCACCTGGGTCATCGGGCCTATGCCCCAGGTGGC
CCTGCCTACCAGCCTGTGGTGGAGGCCTTTGGAACAGATATTCTCCATAAAGATGGCATCATCAACAGGAAGGTC
CTAGGCAGCCGGGTGTTTGGGAATAAGAAGCAGCTGAAGATACTCACGGACATTATGTGGCCAATTATCGCAAAG
CTGGCCCGAGAGGAGATGGATCGGGCTGTGGCTGAGGGAAAGCGTGTGTGTGTGATTGATGCCGCTGTGTTGCTT
GAAGCCGGCTGGCAGAACCTGGTCCATGAGGTGTGGACTGCTGTTCATCCAGAGACTGAGGCTGTAAAGACGCATT
GTGGAGAGGGATGGCCTCAGTGAAGCCGCGGCTCAAAGCCGGCTGCAGAGCCAGATGAGCGGGCAGCAGCTTGTG
GAACAGAGCCACGTGGTGCTCAGCACCTTGTGGGAGCCGCATATCACCCAACGCCAGGTGGAGAAAGCCTGGGCC
CTCTTGCAAGCGCATTCCTCAAGACTCATCAGGCCCTCGACTGA

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FIGURE 4860

MAVFRSGLLVLTTPLASLAPRLASILTSAARLVNHTLYVHLQPGMSLEGPAQPQSSPVQATFEVLDFITHLYAGA
DVHRHLDVRILLTNIRTKSTFLPPLPTSVQNLAHPPPEVLTDFQTLDG SQYNPVKQQLVRYATSCYSCCPRLASV
LLYSDYGIGEV PVEPLDVPLPSTIRPASPVAGSEPKQPVRGYYRGAVGGTFDRLHNAHKVLLSVACILAEQQLVVG
VADKDLLKSKLLPELLQPYTERVEHLSEFLVDIKPSLTFDVIPLDPYGPAGSDPSLEFLVVSEET YRGGM AINR
FRLENDLEELALYQIQLLKDLRHTENEEDKVSSSSFRQRM LGNLLRPPYERPELPTCLYVIGLTGISGSGKSSIA
QRLKGLGAFVIDSDHLGHRAYAPGGPAYQPVVEAFGTDILHKDGI INRKVLGSRVFGNKKQLKILTDIMWPIIAK
LAREEMDRAVAEGKRVCVIDAAVLLEAGWQNLVHEVWTAVIPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLV
EQSHVVLSTLWEPHITQRQVEKAWALLQKRIPKTHQALD

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FIGURE 4861

CCTCGCCGCAGGGGGCCCGCCGCTGGCCCGTTTCCGGTCCGGTGGGTACAAG**ATG**ACGGAGCCGGGCGCCTCTC
CCGAGGACCCTTGGGTCAAGGCAAGCCCCGTGGGCGCGCACGCCGGCGAGGGGAGGGCGGGTCCGGGCTCGTGCAC
GTAGGGGGGCCGGAAGACGAGGGGCTTCCCTCCTGTCCCCAAAGTCCCCACGCTCTCCGTGCCCGGGGCTGCA
GAGAAGACAGCTCTCACCCCGCTGTGCCAAGGTGGAGTATGCCTACAGCGACAACAGCCTGGACCCCGGGCTTT
TTGTAGAAAGCACCCGCAAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGGTTCCACCAGTGCCTCTTCTGTCC
CCAACACAGATGATGAGGACAGTGATTACCACCAGGAGGCCTACAAGGAGTCCTACAAAGACCGGCGGCGGCGCG
CACACACTCAGGCTGAGCAGAAGAGGAGGGACGCCATCAAGAGAGGCTATGATGACCTTCAGACCATCGTCCCCA
CTTGCCAGCAGCAGGACTTCTCCATTGGCTCCCCAAAAGCTCAGCAAAGCCATCGTTCTACAAAAGACCATTGACT
ACATTCAGTTTTTTGCACAAGGAGAAGAAAAAGCAGGAGGAGGAGGTGTCCACGTTACGCAAGGATGTCACCGCCC
TAAAGATCATGAAAGTGAAGTATGAGCAGATTGTGAAGGCACACCAGGACAACCCCCATGAAGGGGAGGACCAGG
TCTCTGACCAGGTCAAGTTCAACGTGTTTTCAAGGCATCATGGATTCCCTGTTCCAGTCCTTCAATGCCTCCATCT
CAGTGGCCAGCTTCCAGGAGCTGTCAGCGTGTGTCTTCAGCTGGATCGAGGAGCACTGTAAGCCTCAGACCCTGC
GGGAGATTGTGATTGGCGTCTGACCAATTGAAAAACCAGCTTTAC**TGAC**CGGTTCTTGAAACCTGGAGAACA
GCCAACAAGAGGCCCTTGAATCTCTACGTGGCCACTGAACTGCTGGGCCCGGAGACTGGACTACAACACCTCAC
ACTGGTCAGCTGGTTTTCTACTTGGTGTGTTGGTTTTTCCCAGCCCCATTTTATCTTCAGCGGAGCCGCGGTGTTG
TTTTGTGAAAGCTTCTGATTAATTTATTATATTGACGATAAAACTCAAACCTACCCAGCCTTCCCCCACTCCAT
GGAAGTCCTTGGGATGGGCGTCTGCTCTGGACACCCCAAAGAGCTCCTGCCCTCTCAGCCCTTTATTCAAGCCTC
AGATTTCTGCTCATGATCTACATAGATTTGGAACTGTTTTCTCTGTTTTGGTCTCTTGGGCAACATTTTTGGC
CCAAGTTTGGGCAACATTTGGCCCAAGTTTGGGCATTTTGGCAGTAGCTGTATGGGAGAAAAAGAGTAAGAGGAA
ATATTCCACAGCCATGAAGGGTGAAAGGGCACCTTGTGCCCTAGACTAGGGCTGCCTGGTCAGTCCAGGTGAGG
CCAAGGGCTTTCTGGCCATCTCAGGGAGGGGCCACCAGGTTCCCTCCCCTCACCCCATATTCCATCACCTTCCTCC
TCTGCTCTGGGTGGTAAGGGAAGCCCTCCCGGTTCCACAGGCTATGATGCTGCATGGCAGAGGCAGGTATAACA
CAGCACTACATATTGGAAATTTTTTATTTTTCTAAATACCAATGCAGTTTTGCTACGGTTACAATTTTGAAATAT
TAACTGAGCCTCAAAATCACCTTTCTGTCAAGCATATCTTGGCCTCTCCCATGTCTCAGTGTGCTGCATTTTC
TCCCAGGACTTGGGGGTGGGGTGAAAAGCGTACAAAAGATACTTAAAGGGCTCCTGGGGTACACAAGCCCAGCA
GGTCCTGAGTGAAGCCGTGGGCCCTCCAAATGCTCGTTTTATAGCAACCTCTCTCTACCCTAGTTCTCCAAATTC
ACTTCTGCCTTCCTCAGGTTTGATATCTGGCAGGTTTGACTATCCAGAGGAAATTAATATTTTTATATAAAATT
AAATTATAATAAATATTGCCAAATGCTTTCCTTTAGCATTGTTCCAAGTCTAAATGTTAACCTCAAGCTACTGCA
ATTTAGACAATGAAATGGGCTGGGTCTACCCCCAGCCACCAGCCCTCATCCTCTCTACCCAGTGCCTCTGGTTTAT
GCTTGTCTCCTGACTGCTCTGCTTAAAGGTGAAAGTAGCAGGAACAACAACAAAAGCCAACCAAAAAACAAGGTAG
CCAGTGCAAGACATCTCACTCTTCTGACATCCTGCAGTCCCCACCAGTCTTGACCGTGGGCCCCCTCAGGGGTCTG
GGAGTGTGACGTTGTAATCTTCATCCGTCTCTATCCCAACTTCCTCCTGTGAGACAGGGAGACAAGTGAATGAGA
TGTCAACCAGGATAAGACCACAGGGAAGCAAAGAAGGAAGAGAGCTCCACTTACAAAGAACTGCTTCTTGCTCTTG
GGGTATCCTTCAAGTATTGCATCAGACAGCTCTGTAGCCTGACAAGAAATAAAACCACCCGTTTTTCAGATGGGCA
GCACIGGGCACTGCCTGTCAGTTTATGATATTGTGT

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FIGURE 4862

MTEPGASPEDPWVKASPVGAHAGEGRAGRARARRGAGRRGASLLSPKSPTLSVPRGCREDSHPACAKVEYAYS
NSLDPGLFVESTRKGSVVS RANSIGSTSASSVPNTDDESDYHQEAYKESYKDRRRRAHTQAEQKRRDAIKRGYD
DLQTIVPTCQQQDFSIGSQKLSKAIVLQKTIDYIQFLHKEKKKQEEEVSTLRKDV TALKIMKVNYEQIVKAHQDN
PHEGEDQVSDQVKFNVFQGIMDSL FQSFNASISVASFQELSACVFSWIEEHCKPQTLREIVIGVLHQLKNQLY

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FIGURE 4863

CAACTACAACGTCCGGCTTTCTGAGTTGGGTGGCGGGAAAGGCGATGAGTAAAGGCCGGGCAGAAGCTGCGGTAG
CCGCCGGGATCCTCCTGAGGTACCTGCAGGAGCAGAACCGGCCCTACAGCTCCCAGGATGTGTTTCGGGAACCTAC
AGCGGGAAACACGGAAGCAAGGCGGTGGTGGTGAAGACGCTGGAGCAGCTGGCGCAACAAGGCAAGATCAAAG
AGAAGATGTACGGCAAGCAGAAGATCTATTTTGC GGATCAGGACCAGTTTGACATGGTGAGTGATGCTGACCTTC
AAGTCCTAGATGGCAAATCGTGGCCCTCACTGCTAAGGTGCAGAGCTTGCAGCAGAGCTGCCGCTACATGGAGG
CTGAGCTCAAGGAATTATCTAGTGCCCTGACCACACCAGAGATGCAGAAAGAAATCCAGGAGTTAAAGAAGGAAT
GCGCTGGCTACAGAGAGAGATTGAAGAACATTAAAGCAGCTACCAATCATGTGACTCCAGAAGAGAAAGAGCAGG
TGTACAGAGAGAGGCGAGAAGTACTGTAAGGAGTGGAGGAAGAGGAAGAGGATGGCTACAGAGCTGTCTGATGCAA
TACTTGAAGGATACCCCAAGAGCAAGAAGCAGTTCTTTGAGGAAGTTGGGATAGAGACGGATGAAGATTACAACG
TCACACTCCCAGACCCCTGAGGGGCCCACGGTCAGGACTGGTGGGGACTGCAGGATGTCAGAAGAGTGAGATGTC
TTGCACTGGCTACCTTGTTTTTGGTTGGCTTTTTGTTGTTGTTCTTGCTACTTTACCTTTAAGCAGAGCAGTCAG
GAGACAAGCATAAACCAGAGCACTGGGTAGAGAGGATGAGGGCTGGTGGCTGGGGGTAGACCCAGCCCATTTCAT
TGTCTAAATTGCAGTAGCTTGAGGTTAACATTTAGACTTGGAACAATGCTAAAGGAAAGCATTGGCAATATTTA
TTATAATTTAATTTTATATAAAAAATATTTAATTTCTCTGGATAGTCAAACCTGCCAGATATCAAACCTGAGGAA
GGCAGAAGTGAATTTGGAGAAGTGGGTAGAGAGAGGTTGCTATAAAACGAGCATTGGAGGGGCCACGGCTTCA
CTCAGGACCTGCTGGGCTTGTGTACCCAGGAGCCCTTTTAAGTATCTTTGTACGCTTTTACCCCAACCCCAA
GTCCTGGGAGAAATGCAGGCAACACTGAGACATGGGAGAGGCCAAGATATGCTTGACAGAAAGGGTGATTTTGAG
GCTCAGTTAATATTTCAAATTTGTAACCGTAGCAAAACTGCATTGGTATTTAGAAAAATAAAAAATTTCCA

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FIGURE 4864

GGGCGGACGGCACAGAGGGAGGGAGCGAGCGAGCAGTGAGTAAGCCAGCAAGGGCGGTTCGGGTCCCGAGGTCAGC
CGAGATTTCTCAGGTCCCTCCGGCCCCCTCCCTGGAGTCCACAGCGCCTCCGGTGTCCAGAGGATCGGACACGGC
CCGGCCCCGGCCATGGCCTCGTTGCTGAAGGTGGATCAGGAAGTGAAGCTCAAGGTTGATTCTTTTCAGGGAGCGGA
TCACAAGTGAGGCAGAAGACTTGGTGGCAAATTTTTTCCCAAAGAAGTTATTAGAACTTGATAGTTTTCTGAAGG
AACCAATCTTAAACATCCATGACCTAACTCAGATCCACTCTGACATGAATCTCCAGTCCCTGACCCCATTTCTTC
TCACCAATAGCCATGATGGACTGGATGGTCCCACTTATAAGAAGCGAAGGTTGGATGAGTGTGAAGAAGCCTTCC
AAGGAACCAAGGTGTTTGTGATGCCCAATGGGATGCTGAAAAGCAACCAGCAGCTGGTGGACATTATTGAGAAAAG
TGAAACCTGAGATCCGGCTGTTGATTGAGAAAATGTAACACGCCTTCAGGCAAAGGTCTCATATATGTTTTGACC
TCCAGGTCAAAAATGTGGGTACAGCTCCTGATTCCCAGGATAGAAGATGGAAACAACCTTTGGGGTGTCCATTCAGG
AGGAAAACAGTTGCAGAGCTAAGAACTGTTGAGAGTGAAGCTGCATCTTATCTGGACCAGATTCTAGATATTATA
TTACAAGAGCCAAATTGGTTTTCTAAAATAGCTAAATATCCCCATGTGGAGGACTATCGCCGCACCGTGACAGAGA
TTGATGAGAAAGAATATATCAGCCTTCGGCTCATCATATCAGAGCTGAGGAATCAATATGTCACTCTACATGACA
TGATCCTGAAAAATATCGAGAAGATCAAACGGCCCCCGAGCAGCAATGCAGAGACTCTGTACTGAGGCCAGGGCC
AGGGCCAGGGGACTCTGTGAGTCTGGCTCAAGACCGACATTGCCTTGGTTTGTACATGACTATCGTGATGGGGA
AACTGGCTGGAAATAGTAATCACACCTCTCTGTTTTTAGTTAGAGTCTAATGAAACTCTCATCTAGTTCTGTGAT
GTGTTTACCTCTTTTTTCAGGCCTCAGGAACCTCTCTATTTCCCTAATACCCACACCCAACCTGTCGTAA
TTTCTGGAGAACTCCAGGTTTGTGTGTGCAGGATGTTGGCACAAAAATACCTGTGTTTTTATTCTCCCCCTCTCT
CCCTCCTGTGCTTGGCCTTTATGTTTTCTTCCGTTTGATAATTAGTTGGTTAAAAGCTGAGGGAACCGGAAGGA
AAGTGCTAGGTGTTTTTTAGGAACTAGGGTGGCGGGGGGACGAACTTCTCTTCCCTCACATGAGGTTACTGTTTCT
TTCCTCTGTGGGGCATTGGATCCTCCCACAGTTGCCCTGGTGATGACTTAGGGCTTCCCATCTGTGTACATCCCA
CTTTGAATCTTGATCGTGACAAGAAATACCTTAGGCCTTCAGTCAATTCCGAAGCTCCTTCAGTTGTTTTTATAA
TGGGCGTTTTTCATATGCACATATGTGTATGCATGTATACGCCCATACAGACATGCACACACAGACTCCTACTCCA
TTAGCTAACATAACCTCCCTCTCCACAACCCCTGTACATACCTTTCAGGAGGTGACAGTTGTCTTAGTTGTCTAT
CTACCCAGACAAACGTCCTGGGCCGTCCTCCCTCCTGATACTGTAGCCTCTTGGTACCCAGGGTGAGTTGGTGG
AGAACAGAGAGATGAGAAGCAGAGGGCTTGGGGAAAGCCTGTTCTCTCTGACTCAGCCCTTTTTTGGCATTATTG
CAAGAGCTTGACTCCTGGTTGCCTTTTCCCAGCCAGTTTTTCAGTTGGGGTGAAGGTTTCTGCAAGTGTGAGGTCC
AGATGCTGCTGCTCATGTTGGGCTTTTCTTTTTGGGAACTATTTCTCTTTATTTATAGTGTGGGCTTCCGGGGAA
AGCAATCATTTGGTGTGTATGTGTATGTGCATGCACACACGTCATATACACATTTGTGTATGTGGAAATGTGCTG
GGCAAGTCAAAACTATAGAAGAGTTGCCTCCTGTCTCTCGAATCTTCCAGAGATATCACTTAATTGTTAACAGCT
TTTGTGTAAATCCCCCTCAGCCCCCTAGCTCTTTTATTCTACACGGCTGGAGAGTTGATACCTGCAGTCAGCCTG
CCAGTGACTCTTAGTGTCTGTTTCTGACTTATTTTTTCTGTCTCTGTCTTCCAACCCCCAATAATATTTCCACCG
GGGATGCATCATTTTTTACTCCCAATATTCTGTAGAGAGGGAGTCAGGATGCTGTCTTCCCACGAATAGTACTCAG
TAACAAACCAATTGCATTTTAGTTGGGCAGTGCTCCCACCCACCCTCCAGATCCCTTCCAGCTAAAACCCCTCCC
CCTTCCCTCCATGTGTTTCTCAGTTTCCCGTTTCGTTTGTGGACTGTTCCACTGCCCCCTCCTCCTCACCCCTATC
ACCCATGGATCGTAATGTAAAATTCTTTTACCATGTCAAGAAATTATTAAAAATACAGGTACTTTGACCTCTTTC
TAAAGCCGCAGACCCCTGGTGCAATGCTCTGGTGGCTAGGGATGTACTCATGCTCATATGTGTGCACGCTTGGACA
CCCACCTCCATGGACACCTAGCCACCCTGTTGTGTGTCTTATGCCAGTTGAGCTGAATCTTTTCCCAGTATAG
TGGAAGACTGAGGCTTCTGCCTACTGAGCAAGGTTGGGTGCTTCATTTGTGTTTCAGTCTGAATTATGGGAAAGT
TAGCTCTTCCCAGACCTAAGCTGCCTTCTCTCCCTACTTTTCAG

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FIGURE 4865

GCTGAAGACAGAGCGATGGTAGTTCTGGAGGCCTCGCTCCGGGGCCGACCCGAGGCCACAGTGCCTCCGCGGTAG
ACCGGACTTGGGTGACGGGCTCCGGGCTCCCGAGGTGAAGAGCATCGGGGGCTGAGGG**ATC**GAAAGGGTCTAAGAC
GTCCAACAACAGCACCATGCAGGTGAGCTTCGTGTGCCAGCGCTGCAGCCAGCCCCTGAAACTGGACACGAGTTT
CAAGATCCTGGACCGTGTCAACCATCCAGGAACTCACAGCTCCATTACTTACCACAGCCCAGGCGAAACCAGGAGA
GACCCAGGAGGAAGAGACTAACTCAGGAGAGGAGCCATTTATTGAAACTCCTCGCCAGGATGGTGTCTCTCGCAG
ATTCATCCCCCAGCCAGGATGATGTCCACAGAAAGTGCCAAACAGCTTCACTCTGATTGGGGAGGCATCTGATGG
CGGCACCATGGAGAACCTCAGCCGAAGACTGAAGGTCACTGGGGACCTTTTTGACATCATGTCGGGCCAGACAGA
TGTGGATCACCCACTCTGTGAGGAATGCACAGATACTCTTTTAGACCAGCTGGACACTCAGCTCAACGTCACTGA
AAATGAGTGTCAGAACTACAAACGCTGTTTGGAGATCTTAGAGCAAATGAATGAGGATGACAGTGAACAGTTACA
GATGGAGCTAAAGGAGCTGGCACTAGAGGAGGAGAGGCTGATCCAGGAGCTGGAAGACGTGGAAAAGAACCGCAA
GATAGTGGCAGAAAATCTCGAGAAGGTCCAGGCTGAGGCTGAGAGACTGGATCAGGAGGAAGCTCAGTATCAGAG
AGAATACAGTGAAATTTAAACGACAGCAGCTGGAGCTGGATGATGAGCTGAAGAGTGTTGAAAACAGATGCGTTA
TGCCAGACGCAGCTGGATAAGCTGAAGAAAACCAACGCTCTTAATGCAACCTTCCACATCTGGCACAGTGGACA
GTTTGGCACAATCAATAACTTCAGGCTGGGTGCGCTGCCAGTGTTCCCGTGGAAATGGAATGAGATTAATGCTGC
TTGGGGCCAGACTGTGTTGCTGCTCCATGCTCTGGCCAATAAGATGGGTCTGAAATTTTCAAGATACCGACTTGT
TCCTTACGAAAACCATTCATATCTGGAGTCTCTGACAGACAAATCTAAGGAGCTGCCGTTATACTGTTCTGGGGG
GTTGCGGTTTTTCTGGGACAACAAGTTTGACCATGCAATGGTGGCTTTCCTGGACTGTGTGCAGCAGTTCAAAGA
AGAGGTTGAGAAAGGCGAGACACGTTTTTGTCTTCCCTACAGGATGGATGTGGAGAAAGGCAAGATTGAAGACAC
AGGAGGCAGTGGCGGCTCCTATTCCATCAAAACCCAGTTTAACTCTGAGGAGCAGTGGACAAAAGCTCTCAAGTT
CATGCTGACGAATCTTAAGTGGGGTCTTGCTTGGGTGTCCTCACAATTTTATAACAAAT**TGA**CTTTTTTCTTAGG
GGGAGGTTTGCTTAAAGGCTTTTAATTTGTTTTGTTTGCAAACATGTTTTAAATTAAATTCGGGTAATATTAA
ACAGTACATGTTTACAATACCAAAAAAGAAAAATCCACAAAAGCCACTTTATTTTAAATATCATGTGACAGAT
ACTTTCCAGAGCTACAACATGCCATCTATAGTTGCCAGCCCTGGTCAGTTTTGATTCTTAACCCCATGGACTCCT
TTCCCTTTCTTCTCTGAAAAAACTAATTTAAATTTGCTTTTCTTTTTTTAACTGAGTTGAATTGAGATTGATG
TGTTTTCACTGGATTTTTATCTCTCTCAACTTCCTGCACTTAACAATATGAAATAGAACTTTTTGTCTTTACTGA
GATGAGGATATGTTTGAGATGCACAGTTGGATAATGTGGGAAAATGACATCTAAGCTTTACCTGGTACCATGTG
ATGTGATCAGATGCTTGAAATTTAACACTTTTCACTTGGTTCTTATACTGAATGCCGACTCTGCTCTGTGTTAGA
GATATGAAATGGTGTGTTGATACTGTTTGAGACATTATGGAGAGATTTAATTATTTGTAATAAAAGATTTGCTGCA
GTCTGAAAAC**TG**AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4866

MEGSKTSNNSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGETQEEETNSGEEFFIETPRO
DGVSRRFIPPARMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLFDIMSGQTDVDHPLCEECDTLLDQLD
QLNVTENECQNYKRCLEILEQMNEDDSEQLQMELEKELALEEERLIQELEDVEKNRKIVAENLEKVQAEAERLDQE
EAQYQREYSEFKRQQLDDELKSVENQMRYAQTQLDKLKKTNVFNATFHIWHSGQFGTINNFRGLRPSVPVEW
NEINAAWGQTVLLLHALANKMGLKFQRYRLVPYGNHSYLESITDKSKELPLYCSGGLRFFWDNKFHAMVAFDC
VQQFKEEVEKGETRFCLPYRMDVEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLKWGLAWVSSQFYNK

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FIGURE 4867

TTGGAGGTCCCCCTCCCCACTAAGTGCCTCTTTGCATAGCACCAGTCCCCACCCGCACGCTCTCTGGACCACTAC
AGCTGGACGGGCAATGGCGGGTCGGGGAGGCGCAGCACGACCCAATGGACCAGCTGCTGGGAACAAGATCTGTCA
ATTTAAGCTGGTTCTGCTGGGGGAGTCTGCGGTAGGCAAATCCAGCCTCGTCCTCCGCTTTGTCAAGGGACAGTT
TCACGAGTACCAGGAGAGCACAATTGGAGCGGCCTTCCTCACACAGACTGTCTGCCTGGATGACACAACAGTCAA
GTTTGAGATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCCATGTACTATCGGGGGGGCCCAGGC
TGCCATCGTGGTCTATGACATCACCAACACAGATACATTTGCACGGGCCAAGAAGTGGGTGAAGGAGCTACAGAG
GCAGGCCAGCCCCAACATCGTCATTGCACTCGCGGGTAACAAGGCAGACCTGGCCAGCAAGAGAGCCGTGGAATT
CCAGGAAGCACAAGCCTATGCAGACGACAACAGTTTGCTGTTTCATGGAGACATCAGCAAAGACTGCAATGAACGT
GAACGAAATCTTCATGGCAATAGCTAAGAAGCTTCCCAAGAACGAGCCCCAGAATGCAACTGGTGCTCCAGGCCG
AAACCGAGGTGTGGACCTCCAGGAGAACAACCCAGCCAGCCGGAGCCAGTGCTGCAGCAACTGAGCCCCCTTGC
CTGCCCCGCTGCCCCCGCCTCCTCCGCTGAATGACCCGACTGGAATCCACTCTAACCAATCGCACTTAACGACTC
GGGCCACCACTGGGGGGGACAGGGGGAGGGGTCCACCATGATTTCTCCATATAATTTTGATCATAGCCGGAGTGA
GTCATTCCACCTGCACCTTTCTGTACAAATACTAATTCAATTTTAAAGTCTTAAGTCACTTTTTAAATATATATGA
TCTTCTGCTCTTCCCACCTTCTCCCTTTCTACTGCTCTCCCATTTTCCCTTGCTGGGAGTAGCCACATGCTCTT
GCCCCCAACCCTTGATATAGGGGACAGTGGGGTCAGTGCAGCTACCCTTTCTTTCCCTCCTGCGGAACAGCGGA
CCCAGCAAGAGCATCCACATCCTCACTTTGTTTCGGAGTGGTCTTTGGTTTGGGCGGTGGGGCAGACCTTGGGAAG
GGGCTTAGGAAGGGAGAGGCAGCTCTTCCTTCAGCTGGCTCTCATCAGGCTGCAGCCCCCTCCCCGCTCCACCT
CCCTGCTGGGAAACCACAGCATTATCACAGCATTATTGTGACAGCCACGAACCCATTGCCCACAACCCCTCCACC
CTCGGTCACCCCAACCTCTGGCTCTGAGCCCTGTTCTGACCAAATCATGATGATGAGTATTTGGGGGTGGGTGGG
TAAGGGGGGGAGTGGGAGGGGACGGAACCAACTTTTCTGTATTTTGTATTGTATGTTTTCTTCAACATGTAACC
AATCAGTATCTTGTCAATATAGTCAGCCGATCGATCGACCTC

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FIGURE 4868

MAGRGGGAARPNPAGNKCQFKLVLLGESAVGKSSVLRFVKGQFHEYQESTIGAAFLTQTVCLDDTTVKFEIW
DTAGQERYHSLAPMYRGAQAIVVYDITNTDTFARAKNWVKELQRQASPNIVIALAGNKADLASKRAVEFQEAQ
AYADDNSLLFMETSAKTAMNVNEIFMAIAKKLPKNEPQNATGAPGRNRGVDLQENNPASRSQCCSN

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FIGURE 4869

CCGCTCTCCGCTGCGGGGAGGCC**ATG**GCGGAACCTTCCCAGGCCCGACCCCGGCCCGGCTGCGCAGCCCCGG
CCCCCTCAGTCCCCAGCCCCCTGCCCCAACTCCGACTCCTGCACCCAGCCCGGCTTCAGCCCCGATTCCGACTCCC
ACCCCGGCACCAGCCCCCTGCCCCAGCTGCAGCCCCAGCCGGCAGCACAGGGACTGGGGGGCCCGGGGTAGGAAGT
GGGGGGGCCGGGAGCGGGGGGGATCCGGCTCGACCTGGCCTGAGCCAGCAGCAGCGCGCCAGTCAGAGGAAGGCG
CAAGTCCGGGGGCTGCCGCGCGCCAAGAAGCTTGAGAAGCTAGGGGTCTTCTCGGCTTGCAAGGCCAATGAAACC
TGTAAGTGTAATGGCTGGAAAAACCCCAAGCCCCCCTGACCCCGCATGGATCTGCAGCAGCCAGCTGCCAAC
CTGAGTGAGCTGTGCCGAGTTGTGAGCACCCCTTGCGTGACCACGTATCCCACTTGAGAGATGTGTGAGAGGAT
GAGATAAACCGACTGCTGGGGATGGTGGTGGATGTGGAGAATCTCTTCATGTCTGTTTACAAGGAAGAGGACACA
GACACCAAGCAGGTCTATTTCTACCTCTTCAAGCTACTGCGGAAATGCATCCTGCAGATGACCCGGCCTGTGGTG
GAGGGGTCCCTGGGCAGCCCTCCATTTGAGAAAACCTAATATTGAGCAGGGTGTGCTGAACCTTGTGTCAGTACAAG
TTTAGTCACCTGGCTCCCCGGGAGCGGCAGACGATGTTGAGCTCTCAAAGATGTTCTTGCTCTGCCTTAACCTAC
TGGAAGCTTGAGACACCTGCCAGTTTCGGCAGAGGTCTCAGGCTGAGGACGTGGCTACCTACAAGGTCAATTAC
ACCAGATGGCTCTGTTACTGCCACGTGCCCCAGAGCTGTGATAGCCTCCCCGCTACGAAACCACTCATGTCTTT
GGGCGAAGCCTTCTCCGGTCCATTTTACCGTTACCCGCCGGCAGCTGCTGGAAAAGTTCCGAGTGAGGAAGGAC
AAATTGGTGCCCGAGAAGAGGACCCTCATCTCACTCACTTCCCCAAATTCTGTCCATGCTGGAGGAGGAGATC
TATGGGGCAAACCTCTCCAATCTGGGAGTCAGGCTTCACCATGCCACCCTCAGAGGGGACACAGCTGGTTCCCCGG
CCAGCTTCAGTCAGTGCAGCGGTTGTTCCAGCACCCCATCTTCAGCCCCAGCATGGGTGGGGGCAGCAACAGC
TCCCTGAGTCTGGATTCTGCAGGGGCCGAGCCTATGCCAGGCGAGAAGAGGACGCTCCAGAGAACCTGACCCTG
GAGGATGCCAAGCGGCTCCGTGTGATGGGTGACATCCCCATGGAGCTGGTCAATGAGGTGATGCTGACCATCACT
GACCCTGCTGCCATGCTGGGGCCTGAGACGAGCCTGCTTTCGGCCAATGCGGCCCGGGATGAGACAGCCCGCCTG
GAGGAGCGCCGCGGCATCATCGAGTTCCATGTGATCGGCAACTCACTGACGCCCAAGGCCAACCGGCGGGTGTG
CTGTGGCTCGTGGGGCTGCAGAATGTCTTTTCCACCAGCTGCCGCGCATGCCTAAGGAGTATATCGCCCGCCTC
GTCTTTGACCCGAAGCACAAAGACTCTGGCCTTGATCAAGGATGGGCGGGTCATCGGTGGCATCTGCTTCCGCATG
TTTCCCACCCAGGGCTTCACGGAGAATTGTCTTCTGTGCTGTACCTCGAATGAGCAGGTCAAGGGTTATGGGACC
CACCTGATGAACCACCTGAAGGAGTATCACATCAAGCACAACTTCTCTACTTCCCTACCTACGCCGACGAGTAC
GCCATCGGCTACTTCAAAAAGCAGGGTTTCTCCAAGGACATCAAGGTGCCAAGAGCCGCTACCTGGGCTACATC
AAGGACTACGAGGGAGCGACGCTGATGGAGTGTGAGCTGAATCCCCGCATCCCCTACACGGAGCTGTCCCACATC
ATCAAGAAGCAGAAAGAGATCATCAAGAAGCTGATTGAGCGCAAACAGGCCAGATCCGCAAGGTCTACCCGGGG
CTCAGCTGCTTCAAGGAGGGCGTGAGGCAGATCCCTGTGGAGAGCGTTCCTGGCATTGAGAGACAGGCTGGAAG
CCATTGGGGAAGGAGAAGGGGAAGGAGCTGAAGGACCCCGACCAGCTCTACACAACCCTCAAAAACCTGCTGGCC
CAAATCAAGTCTCACCCAGTGCCTGGCCCTTCATGGAGCCTGTGAAGAAGTCGGAGGCCCCCTGACTACTACGAG
GTCATCCGCTTCCCCATTGACCTGAAGACCATGACTGAGCGGCTGCGAAGCCGCTACTACGTGACCCGGAAGCTC
TTTGTGGCCGACCTGCAGCGGGTCATCGCCAACCTGTCGCGAGTACAACCCCGGACAGCGAGTACTGCCGCTGT
GCCAGCGCCCTGGAGAAGTTCTTCTACTTCAAGCTCAAGGAGGGAGGCCTCATTGACAAG**TAG**CCCCATCTTTGG
GCCGAGCCCTGACCTGGAATGTCTCCACCTCGGATTCTGATCTGATCCTTAGGGGGTGCCCTGGCCCCACGGAC
CCGACTCAGCTTGAGACACTCCAGCCAAGGGTCCTCCGACCCGATCCTGCAGCTCTTCTGGACCTTCAGGCAC
CCCCAAGCGTGACGCTCTGTCCCAGCCTTCACTGTGTGTGAGAGGTCTCCTGGGTGGGGCCAGCCCTCTAGA
GTAGCTGGTGGCCAGGGATGAACCTTGCCAGCCGTGGTGGCCCCAGGCCTGGTCCCCAAGAGCTTTGGAGGCT
TGGATTCTGGGCTGGCCAGGTGGCTGTTTCCCTGAGGACCAGAACTGCTCATTTTAGCTTGAGTGATGGCTT
CAGGGGTTGGAAGTTCAGCCCAAACCTGAAGGGGGCCATGCCTTGTCCAGCACTGTTCTGTGAGTCTCCCCAGGG
GTGGGGGTATGGGGACCATTCAATCCCTGGCATTAAATCCCTTAGAGGGAATAATAAAGCTTTTTATTCTCTG

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FIGURE 4870

MAEPSQAPTPAPAAQPRPLQSPAPAPTPTPAPSPASAPIPTPTPAPAPAPAAAPAGSTGTGGPGVGSGGAGSGGD
PARPGLSQQQRASQRKAQVRGLPRAKKLEKLGVSACKANETCKCNGWKNPKPPTAPRMDLQQPAANLSELCRSC
EHPLADHVSHLENVSEDEINRLLGMVVDVENLFMSVHKEEDTDTKQVYFYLFKLLRKCILQMTRPVVEGSLGSP
FEKPNIEQGVLNFVQYKFSLAPRERQTMFELSKMFLCLNYWKLETPAQFRQRSQAEDVATYKVNYTRWLCYCH
VPQSCDSLPRYETTHVFGSLLRSIFTVTRRQLEKFRVEKDKLVPEKRTLILTHFPKFLSMLEEEIYGANSPIW
ESGFTMPPESEGTQLVPRPASVSAAVVPSTPIFSPSMGGGSNSSLSDSAGAEMPGEKRTL PENLTLED AKRLRV
MGDIPMELVNEVMLTITDPAAMLGPETSLLSANAARDETARLEERRGII EFHVIGNSLTPKANRRVLLWLVLQ
VFSHQLPRMPKEYIARLVFDPKHKTALIKDGRVIGGICFRMFPTQGFTEIVFCAVTSNEQVKGYGTHLMNHLKE
YHIKHNIYFLTYADEYAIGYFKKQGF SKDIKVPKSRYLGYIKDYEGATLMECELNPRIPTYELSHI IKKQKEII
KKLIERKQAQIRKVYPGLSCFKEGVRQIPVESVPGIRETGWKPLGKEKGKELKDPDQLYTTLKNLLAQIKSHPSA
WPFMEPVKKSEAPDYEEVIRFPIDLKTMTERLRSRYVTRKLFVADLQRVIANCREYNPPDSEYCRCASALEKFF
YFKLKEGGLIDK

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FIGURE 4871

GGCACGAGGCGCGAGCTCGGAGGGCCCCGGCTGGTGCTGCGGGGGCCCCGGGAGGTTGAAAAC TAAGC**ATG**GGGAA
GAGCTGCAAGGTGGTCGTGTGTGGCCAGGCGTCTGTGGGCAAACTTCAATCCTGGAGCAGCTTCTGTATGGGAA
CCATGTAGTGGGTTTCGGAGATGATCGAGACGCAGGAGGACATCTACGTGGGCTCCATTGAGACAGACCGGGGGGT
GCGAGAGCAGGTGCGTTTCTATGACACCCGGGGGCTCCGAGATGGGGCCGAAGTGCCCCGACACTGCTTCTCTTG
CACTGATGGCTACGTCCTGGTCTATAGCACAGATAGCAGAGAGTCTTTTCAGCGTGTGGAGCTGCTCAAGAAGGA
GATTGACAAATCCAAGGACAAGAAGGAGGTACCATCGTGGTCCTTGGCAACAAGTGTGACTTACAGGAGCAGCG
GCGTGTAGACCCAGATGTGGCTCAGCACTGGGCCAAGTCAGAGAAGGTGAAGCTGTGGGAGGTGTCAGTGGCGGA
CCGGCGCTCCCTCCTGGAGCCCTTTGTCTACTTTGGCCAGCAAGATGACGCAACCCCAAGCAAGTCTGCCTTCCC
CCTCAGCCGGAAGAACAAGGGCAGCGGCTCCTTGGATGGC**TGAA**GAGCTGCCGTTCTCTTTACGATCCCAGCC
CCATTTTCACTGTCTGGGGCTCTGGTAGATGTGTTGAGGGCAAAGTAGAGGACAAGCTGTCTTTCCAGTCAGCCA
GGGAGCTCCCCGCCAGGCCACGCCCCAGCCACTTTGCTCCCTCTCACCTCTGGGAAGTGCAAATACTCTTGTTG
ACATCCCCCTTCTCAGCCCTCCCAGCCTACTCCCCATCCCAGCTTTTAGAGGATCTGCTCCACTGTCTCCTGGGG
CAGTTGTGGGTCAGTGTCCCTTCCAGCTGCCCCAGACAGGAAGCAGAGTCACCACGCAGCAGTGTCCCTTCTTGG
GTCTGAGTTTCTATTATAGGTAGGGGCCCCACCCTCTGGGCTTCCCATCAGCGACACACACACTTATGGCACC
AGCCTGGACTCCAGAAAAAGGGTGTCCAGGTATTGTGTGTATGCATTTAGTTGTGCACACACAAATATGCTCCTA
TACTGGCATTAGGCGTCTCCTCATCCCTCACCTTGACCTTTCTCCTGTCCTTTTCTTGGCTGGAAGAAGTTGGCC
TCCTGGGAGTGTAGTTTTCTGTTTTAAATCCCCCACCCTGGCTGGGCTCAGTGGCTCACCCCTGTAATCCCAGC
ACTTTGGGAGGCCAAGGCGGGTCGATTACTTGAGGTGAGGAGTTCACGACCAGCCTGGCCAACATTGTGAAACCC
CATCTCTGCCAAAAATACAAAAGTTAGCCGGGCGTAGTGGCACATGCCTGTAATCCCAGCTACCCGGGGAGGCTG
AGGCAGGAGAATTGCTTGAAGTCAGAAGGCGGAGGCTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGG
TCAACAGAGCAAGACTCCATCTCGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4872

MGKSCKVVVCGQASVGKTSILEQLLYGNHVVGSEMIETQEDIYVGSJETDRGVREQVRFYDTRGLRDGAELPRHC
FSCIDGYVLVYSTDSRESFORVELLKKEIDKSKDKKEVTIVVLGNKCDLQEQRRVDPDVAQHWAKSEKVKLWEVS
VADRRSLLEFFVYLASKMTQPQSKSAFPLSRKNKGSGSLDG

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FIGURE 4873

GGGAAGATGGCGGCTGTCTGAAGCGGCTGCAGAGCCGCTAACGGTGGTGGCGGCTGTTGGGCCAAAGGCGAAAGAC
GAAGAGGAGGAGGAAGAGGAGCCGCTGCCACCGTGCAGAGCGGTGCGCTGGGCCCCAGTGGGGGCGGTGGCGGAG
GCCCCGGCCTGGGGCAACCGCTTTTATAGAAGAGGCGACGGCCGAGGAGCCTGGCGCGGCCCGGGCTCCCCGCCG
GATTCGCGGGGCCGACGCTGCGGCGGCTGCGGGCAGAGCGGCGGCGGCTGGACTCGGCGCTGCTGGCGCTGTCC
TCGCACTTCGCGCAGGTGCAGTTCCGCCTGCGCCAGGTGGTGCAGCGGGCGCCGGCGGAGCAGCAGCGCCTTCTG
CGGGAGCTCGAAGACTTCGCCTTCCGCGGCTGCCCTCACGTCCTAGGTTACGAAGGGCCCCGCGACCCCCGCCAGC
GATGAGGGCGATGGGCTGCCAGGGGACCGGCCATGGTTGCGGGGCGAGGACCAGAGTGAGCAGGAAAAGCAAGAG
CGTCTGGAACCCAAAGGGAGAAGCAGAAAAGAACTGATACTGCAGCTCAAGACCCAGCTAGATGACCTGGAAACG
TTTGCCTATCAAGAGGGCAGTTATGACTCGCTGCCACAGTCCGTGGTGGTGGAAAAGACAGCGGGTGATCATAGAT
GAGTTAATAAAGAACTGGACATGAATCTGAATGAGGACATCAGTTCCCTGTCCACTGAAGAGCTTCGTCAGCGT
GTAGATGCAGCAGTGGCTCAGATCGTCAACCCAGCCGAGTCAAAGAACAGTTGGTTGAGCAACTGAAAACCTCAG
ATCCGAGACCTTGAGATGTTTATCAACTTCATCCAAGATGAAGTGGAAGCCCCCTTGACAGCAGGTGGTGGACAC
TGTGAGTGCAAGGCCGGTGGGAAGACAGGAAATGGCTGCAGCAGAACAGGCAGCAGCAGAACGCCTCCAGGAAAC
AGCAAAACAAAGGCAGAGGATGTGAAGAAAGTCCGGGAGACGGGGCTGCACCTGATGCGGCGAGCGCTGGCCGTG
CTCCAGATCTTTGCTGTTAGCCAGTTTGGTTGTGCCACAGGCCAGATCCCTCCAACCTGTGGCAGAGGGTCCAG
GCTGACAGAGACTACTCTCCCTTGCTGAAGAGGCTGGAGGTGTCAGTGGACAGAGTGAAGCAGCTAGCCTTGAGG
CAGCAGCCACATGACCATGTCTACCTCTGCCAACCTCCAGGACCTCTCTCTGGGAGGCAAGGATGAGCTGACT
ATGGCTGTGCGGAAGGAGCTAACGGTGGCTGTGAGGGACCTGCTGGCCCATGGACTGTATGCCTCCTCCCCAGGG
ATGAGCCTTGTTATGGCTCCTATTGCTTGTGTTGCTGCCAGCCTTCTCCTCGGCCCCAGAGGCCATGCACCCGTGG
GAGCTCTTTGTAAAGTACTACCATGCTAAGAACGGCCGTGCTTATGTGGAATCCCCAGCCCGGAAGCTCTCCCAG
TCCTTCGCCCTTCTGTACGGGAGGCACTGTTGTCACCCCCAAACAGAGCCTACTGACAGCCATCCACATGGTG
CTGACAGAGCATGACCCTTTTAAGCGCAGTGCAGACTCAGAATTGAAGGCCTTGGTGTGCATGGCACTGAATGAG
CAGCGTCTGGTGTCTTGGGTGAACCTCATCTGCAAGTCCGGGTCACTCATCGAGCCTCACTACCAGCCCTGGAGC
TACATGGCACACACAGGCTTTGAGAGTGCCCTCAACCTGCTCAGTCGCCTCAGCAGCCTCAAGTTTTAGCCTCCCT
GTAGATCTGGCTGTGCGCCAGCTCAAAAACATCAAAGATGCCTTTTTGATGAGAGTGCCCTAACCCCCAGACAAGCT
CCTTGTTCACTAGGGATAGATGTGCTAGTCTTCTAGCATAGGAGCAAGGAATCAGAGGTGGGGTTAAAGGCATT
TTCCCAGACCCTGCTCAGGCAGTCGGCCAAATGAGTGCAAAGTCTGTTTTCCCCACCAACTTAGCTCTCGGAAAG
ATGTGCTGGAGGGACCCTCTTGTTAAGAAGGTTCTGCCAGGCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCCGAGGCGGGCGGATCACAAGGTCAGGAGTTCGAGACCATCCTGTCTAACACGGTGAAACCCCAT
CTCTACTAAAAATACAAAAAATTAGTCGGACATGGTGGCAGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAG
GCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGACAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCTGGGC
GACAGAGTGAGACTCCGTCTC

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FIGURE 4874

MAAVEAAAEPVTVVAAVGP KAKDEEEEEEEPLPPCEAVRWAPVGAVAEARPGATAFLEEATAEEPGAAPGSPPDS
PGRTLRRRLRAERRRLDSALLALSSHFAQVQFRLRQVVRGAPAEQQRLLRELEDFAFRGCPHVLGYEGPGDPASDE
GDGLPGDRPWL RGEDQSEQEKQERLETQREKQKELILQLKTQLDDLET FAYQEGSYDSL PQSVVLERQ RVIIDEL
IKKLD MNLNEDISSLSTEELRQ RVDAAVAQIVNPARVKEQLVEQLKTQIRDLEMFINFIQDEVGSP LQTGGGHCE
CKAGGKTGNGCSRTGSSRTPPGNSKTKAEDVKKVRETGLHLMRRALAVLQIFAVSQFGCATGQIPPTLWQ RVQAD
RDYSPL LKRLEVSVD RVKQLALRQQPHDHVITSANLQDLSLGGKDELTMAVRKELTVAVRDLLAHGLYASSPGMS
LVMAPIACL LPAFSSAPEAMHPWELFVKYYHAKNGRAYVESPARKLSQSFALPVTGGTVVTPKQSL LTAIHMVLT
EHDPFKRSADSELKALVCMALNEQRLVSWVNLICKSGSLIEPHYQPWSYMAHTGFESALNLLSRLSSLKFSLPVD
LAVRQLKNIKDAF

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FIGURE 4875

CTTCCCCAGCTGTGCACTCTCCATCCAGCTGTGCGCTCTCGTCGGGAGTCCCAGCCATGTCCGACGAGAGAGAGG
TAGCCGAGGCAGCGACCGGGGAAGACGCCTCTTCGCCGCCTCCGAAAACCGAGGCAGCGAGCGACCCCCAGCATC
CCGCGGCCCTCCGAAGGGGCCCGCCGCCGCCGCCCTCGCCGCCACTGCTGCGCTGCCCTAGTGCTCACCGGCTTTG
GAGGCTACGACAAGGTGAAGCTGCAGAGCCGGCCGGCAGCGCCCCCGGCCCTGGGCCCGGCCAGCTGACGCTGC
GTCTGCGGGCCTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCTCTGC
CTGTCACTCCGGGCATGGAGGGCGCGGGTGTGTGATCGCAGTGGGCGAGGGAGTCAGCGACCGCAAGGCAGGAG
ACCGGGTGATGGTGTGAACCGGTCAGGGATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCCTGA
TTCCTGAGGCCATGACCTTTGAGGAAGCTGCTGCCCTTGCTCGTCAATTACATTACAGCCTACATGGTCCTCTTTG
ACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGGTGTGGGTATGGCTGCCGTGC
AGCTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACGGCCTCGGCCAGCAAGCACGAGGCACTGAAGGAGA
ATGGGGTACACATCCCATCGACTATCACACGACTGACTACGTGGATGAGATCAAGAAGATTTCCCCTAAAGGAG
TGGACATTGTCTATGGACCTCTGGGTGGGTGAGATACTGCCAAGGGCTACAACCTCCTGAAACCCATGGGCAAAG
TCGTCACCTATGGAATGGCAACCTGCTGACGGGCCCAAACGGAACCTGATGGCCCTGGCCCGGACATGGTGA
ATCAGTTCAGCGTGACAGCTCTGCAGCTGCTGCAGGCCAACCGGGCTGTGTGTGGCTTCCACCTGGGCTACCTGG
ATGGTGAGGTGGAGCTGGTCAGTGGTGTGGTGGCCCGCTCCTGGCTCTGTACAACCAGGGCCACATCAAGCCCC
ACATTGACTCAGTCTGGCCCTTCGAGAAGGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTGGCA
AGGTCCTCCTGGTTCCAGGGCCAGAGAAGGAGAACTAGGGCAAGTGGCTGTGAGACCCTAGAGACCAGCGAAGGG
AGAAGTTGGGAAGCTACGTTCTGTTGGCCACCAGACTTGCAATTCAGCCTCTGTGATAATGCTCTGCCCTCCCTC
CCCCGAAGTTCTCTGTGGTGATGACCGCTCTCCCTGCCCTCCCCGCTTCTGACCTCTGAAGAGGTTGGGAAG
TGACCATTTGGATGTCTGGGCCCTGCCAAGGCGACAGGGAGGGTCAGAGGGAGGCCGGCTGCTTCTGCCCCAC
CCTTTCCCCGGGCCTGCTGTGCTGCTTTTGTGCCAAGGTTAGCCAGTCCCCCTGTTGTGTTCATGTGCTTTCA
CCTCTGCCTCATCTTTCTCCCTGCCCTGCCCGCCACCTCCCCAAGAATTGAAACGTCAGCTCAGGATATGGG
GCCAATCTCTGTGAGTCCAGCATGTACCTGTCTCTCCCTAGTGTCCCTTCAGCCTGGGCTGACCAGTGCCCGCT
CTGGGCTTGACCACTTCCCAATCTCGTCCCTGTGCCCAACTTCTTAAGCACAATTGGGCTTCTTCCATCTCCAG
GTTTTCTGCCATTCTTAACCAAGGCTGCCTCTTCCAACAGGGCGGGAATCAGACCTACTCCCTAGGTCACT
CTGGGAAGGATACAGAGCCCCCACCCTTCACTGAGTTCTCTGGATTTGTTCTCAGTGCCTTAGCAACGAAAACCT
GTGCTTGTGTGTGTGTGGCGGCGGGGAGGGAGGATCCTGTTTCCACCTCCTTCTCCTCCCCTGTACTCCCCAGT
GCCTTCCTTGTCTGTTGGTGGAGCTGGGGTTTCTCTCCTCCCAGTCCCACAACACTGCCAAAAATCTGTGTATGTG
CCATTGGGTGGGGCAGCCCCAAGCCTCCTGGGGAGGCAGGGCAAAAACAGGTGCCCTCATCGTGGTCTGTGCCAT
GTCCCGTCTCTATGGTGGTTGAGGAGAAAGCGGGGAAGCTTCCTCAGCCTTGAGATATGTGTGGCATTACTA
GCCAGAGCTCTGAAAGGCAGTGCTGTCTGTTTCTGTACTGGGACCAAAGTAAAAATCCAAGCACATTCCCCTTG
CAGTTAGGGGAGGCCCTACTGCCTTCTCAAAGCAGAGAGGCAGCTTATCAAACCTAGCCCCAAAACCTGTGTTTACA
TGGGTGGGGAGATGGAGCAGGGAAGTACAGAGTGGGATGGTCAGGACCTGGGCCATTGCAACCAAAAATGGGGACT
TCCTGGGTAGGGAGGTCACTCCCTTACTCACTGAGCTAGGATTAGGGAGGGTTATTGCCCCAACCATTGCAATG
GGAGGTGGAGGGACAGGCTCAGCCTCCTCATTGTCTAAATGAGGCCTAAATGTGTGAAGTGCGATTTCTGCTTTT
GTGTACCCCAACCCCATTAACACAGCTGCCTTTGTGTGTTTGTGTCAATAAAAAGCCAAACCTGGGAAAAAA
AA

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FIGURE 4876

MSDEREVAEAAATGEDASSPPPKTEAASDPQHAAASEGAAAAAASPPLLRLCLVLTGFGGYDKVKLQSRPAAPPAPG
PGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTPGMEGAGVVIAGGEGVSDRKAGDRVMVLNRSGMWQEEVTVP
SVQTFLIPEAMTFEEAAALLVNYITAYMVLFDGFLNLPQGHSLVHMAAGGVGMAAVQLCRTVENVTVFGTASASK
HEALKENGVTHTPIDYHTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLMA
LARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHKPHIDSVWPFKQVADAMKQMQ
EKKNVGKVLLVPGPEKEN

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FIGURE 4877

ATGGAGGGGCAGAGCGCCGCTGCAAGATCGTGGTGGTGGGAGACGCAGAGTGCGGCAAGACGGCGCTGCTGCAG
GTGTTCCGCAAGGACGCCTATCCCGGGAGTTATGTCCCCACCGTGTTTGAGAACTACACTGCGAGCTTTGAGATC
GACAAGCGCCGCATTGAGCTCAACATGTGGGACACTTCAGGTTCTCTTACTATGATAATGTCCGGCCTCTGGCC
TATCCTGATTCTGATGCTGTGCTCATCTGCTTCGACATTAGCCGACCAGAAACACTGGACAGTGTCTCAAGAAG
TGGCAAGGAGAGACTCAAGAGTTCTGCCCCAATGCCAAGGTTGTGCTGGTTGGCTGTAAACTGGACATGCGGACT
GACCTGGCCACACTGAGGGAGCTGTCCAAGCAGAGGCTTATCCCTGTTACACATGAGCAGGGCACTGTGCTGGCC
AAGCAGGTGGGGGCTGTGTCCTATGTTGAGTGCTCCTCCCGTCTCTGAGCGCAGCGTCAGGGATGTCTTCCAT
GTGGCTACAGTGGCCTCCCTTGGCCGTGGCCATAGGCAGCTGCGCCGAAGTACTCACGCCGGGGAATGCAGCGA
TCCGCTCAGCTGTCAGGACGGCCAGACCGGGGAATGAGGGCGAGATACACAAGGATCGAGCCAAAAGCTGCAAC
CTCATGTGA

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FIGURE 4878

MEGQSGRCKIVVVGDAECGKTALLQVFAKDAYPGSYVPTVFENYTASFEIDKRRIELNMWDTSGSSYYDNVRPLA
YPDSDAVLICFDISRPETLDSVLKKWQGETQEFCPNAKVVLVGCKLDMRTDLATLRELSKQRLIPVTHEQGTVLA
KQVGAVSYVECSSRSSERSVRDVFHVATVASLGRGHRQLRRTDSRRGMQSAQLSGRPDRGNEGEIHKDRAKSCN
LM

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FIGURE 4879A

GGCGGAAGCACGATCTCCGGCAGCGGCCTGGGAACCTCTTAGCTGAGCAGGCGAGAGCATCATGGATACCGACTTA
TATGATGAGTTTGGGAATTATATTGGACCAGAGCTTGATTCTGATGAAGATGATGATGAATTGGGTAGAGAGACC
AAAGATCTTGATGAGATGGATGATGATGACGACGACGATGACGTAGGAGATCATGACGATGACCACCTGGGATG
GAGGTGGTGTGTCATGAGGACAAGAAGTACTACCCAACAGCCGAGGAGGTGTATGGTCCTGAGGTGGAGACCATA
GTTCAAGAGGAAGACACTCAGCCTCTCACAGAACCCATTATTAAGCCAGTGAAAACCAAGAAATTCACCTCTGATG
GAGCAGACATTACCTGTTACGGTGTATGAGATGGATTCTTGGCGGATCTGATGGATAACTCAGAGCTCATCAGA
AATGTGACCCCTTTGTGGACATCTCCACCATGGCAAGACATGTTTTGTGGATTGTTTAATTGAACAGACTCACCCG
GAAATCAGAAAGCGCTATGACCAAGATCTGTGCTATACTGACATCCTCTTCACAGAGCAAGAGAGAGGTGTAGGC
ATCAAAAAGCACTCCTGTGACAGTGGTCTTGCCAGACACCAAAGGAAAATCTTATCTCTTCAATATCATGGACACT
CCAGGACATGTGAATTTCTCTGATGAGGTACAGCTGGCTTGCGCATCTCAGATGGAGTGGTCTTTTTCATTGAT
GCTGCTGAGGGGTGATGCTGAACACAGAGCGGCTGATCAAGCATGCGGTGCAGGAGAGGCTGGCAGTCACTGTG
TGCATCAACAAGATTGACCGGCTGATCCTGGAGCTGAAGCTGCCTCCAAGTATGCTTATTACAAGCTGCGCCAC
ATTGTGGATGAGGTCAATGGATTAATAAGCATGTATTCCACTGATGAGAACCTGATCCTTTCCCCACTCCTGGGT
AACGTCTGCTTCTCCAGCTCCAGTACAGCATCTGCTTCACGCTGGGCTCCTTTGCCAAGATCTATGCCGACACC
TTTGGTGACATTAATTACCAAGAATTTGCTAAAAGACTCTGGGGTGACATCTACTTCAACCTAAGACGCGAAAG
TTCACCAAAAAGGCCCAACTAGCAGCTCCAGAGAAGTTTCGTGGAGTTTATCTTGGAGCCTCTTTATAAGATC
CTCGCCAGGTTGTAGGTGACGTGGACACCAAGCCTCCACGGACCCTAGACGAGCTTGGCATCCACCTGACGAAG
GAGGAGCTGAAGCTGAACATCCGCCCCCTTGCTCAGGCTGGTCTGCAAAAAGTTCTTTGGCGAGTTCACAGGCTTT
GTGGACATGTGTGTGCAGCATATCCCTTCTCAAAGGTGGGCGCCAAGCCCAAGATTGAGCACACCTACACCGGT
GGTGTGGACTCCGACCTCGGCGAGGCTATGAGTGACTGTGACCCTGATGGCCCCCTGATGTGCCACACTACTAAG
ATGTACAGCACAGATGATGGAGTCCAGTTTCACGCCTTTGGCCGGGTGCTGAGTGGCACCATTATGCTGGGCAG
CCTGTGAAGGTACTGGGGGAGAACTACACCTGGAGGATGAGGAAGACTCCCAGATATGCACCGTGGGCGCCTT
TGGATCTCTGTGGCCAGGTACCACATCGAGGTGAACCGTGTTCCTGCTGGCAACTGGGTCTGATTGAAGGTGTT
GATCAACCAATTGTGAAGACAGCAACCATAACCGAACCCCGAGGCAATGAGGAGGCTCAGATTTCCGACCCTTG
AAGTTCAATACCACATCTGTTATCAAGATTGCTGTGGAGCCAGTCAACCCCTCAGAGCTGCCCAAGATGCTTGAT
GGCCTGCGCAAGGTCAACAAGAGCTATCCATCCCTCACCACCAAGGTGGAGGAGTCTGGCGAGCATGTGATCCTG
GGCACTGGGGAGCTCTACCTGGACTGTGTGATGCATGATTGCGGAAGATGTACTCAGAGATAGACATCAAGGTG
GCTGACCCAGTTGTACGTTTTGTGAGACGGTGGTGGAAACATCCTCCCTCAAGTGCTTTGCTGAAACGCCTAAT
AAGAAGAACAAGATCACCATGATTGCTGAGCCTCTTGAGAAGGGCCTGGCAGAGGACATAGAGAATGAGGTGGTC
CAGATTACGTGGAACAGGAAGAAGCTGGGAGAGTTCTTCCAGACCAAGTACGATTGGGATCTGCTGGCTGCCCGT
TCCATCTGGGCTTTTGGCCCTGATGCGACTGGCCCCAACATTCTGGTGGATGATACTCTGCCCTCTGAGGTGGAC
AAGGCTCTTCTTGGTTCAAGTGAAGGACAGCATCGTTCAAGGTTTCCAGTGGGGAACAGGGAGGGCCCCCTCTGT
GATGAATTGATTCCGAATGTCAAGTTTAAGATCCTGGATGCGGTGGTTGCCAGGAGCCCCCTGCACCGGGGCGGG
GGCCAGATCATCCCCACAGCCAGGAGAGTCGTCTACTCTGCCTTCCTCATGGCTACTCCTCGTCTGATGGAGCCT
TACTACTTTGTAGAGGTCCAGGCCCTGCAGATTGCGTCTCTGCAGTTTATACCGTCTTGCCAGGCGCAGGGGG
CACGTGACTCAGGATGCACCCATCCAGGCTCCCTCTGTACACCATCAAAGCTTTTATCCCGGCCATCGACTCT
TTTGGCTTTGAGACTGATCTCCGACTCACACCCAGGACAAGCCTTTTCTCTGTCTGTCTTCCACCACTGGCAG
ATTGTGCCTGGTGATCCCTGGACAAGAGCATTTGTATCCGCCCTTGGAGCCACAGCCAGCTCCTCACCTGGCC
CGGGAATTCATGATCAAAACCCGCGTAGGAAGGGCCTCAGTGAAGATGTGAGCATCAGCAAATCTTCGATGAT
CCTATGTTGCTGGAACCTTGCCAAACAGGATGTTGTGCTCAATTACCCCATGTGAGTGCGTGGACTCCTGGGAGCT
CCTGCTCCCTACAGTGGGCTGCAACTCCTGTACTTGAAGCTGAGACCTCATATGACGTGGCCTTCGTGTTGTGAG
AGAGTGTCTGGAAGCTGCTGTTGCCATCTTGAACAACCTACCAACCTCCAACCCAGAGCCCCAGTGAGAGAGGAG
CATTTGGCCTCCTGCTTCCTTCTGTGGCCTCTGCCGGGCTCCATTCCCAAGGAAAAGAGAGGAGCTGGGCTCAC
AGAAAGAGAAGGGGATGAAACCCCAAGGGCCCTATCTTTGGGATTTACATGGAATTTTATTTTCTACAAGTTTG
ACCTTAGCCATGGTTTGAAGTGAACAGAACATTCTGACCTCTGTCTTGTCTGCTCCTTTTCATCCTCGTCTCCC
CTGCCCCATCTGGTGCTTACATTCTGAATATATGTCATCTCCAAGAGGCTTCACTGCCTCTGCTTCCAGCTGCA
GCCTCCTTCTGCTGGGTCCCCAGGGAAGCCGCTGCCTTTTAATTCAGTGTTCCCATGAGCGCCAAGGCCCA
TTATTGCCCCCTTGCTCCCACTCCATGCTGCTTCTGGGTGGGACCTAAGATGGCTTGGGAGTTGTTGGGTTCCTG

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FIGURE 4879B

CGATCAGAAGTCTACCCACACCTCCTCAGGAACTGCTGCCTCCCCTAAGAATCTTCCTTGCCCTGGAGTAGG
GGGCCAGAGCACTTTGATTTCAGCCATTTACTCCAAGTCCTCTCCCAGCTACCACCAGTCCCTTACTCTGTTC
TCCCCAGTGAAAAAGAGTCTGTTGATTTTCCTC

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FIGURE 4880

AGAGCCAGAGCAGGATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCCTCAGGGGAGATGA
TGGTGGGGGGCCTGGCTCCTGGCCGCCGTCTGGGTCTTGGCACC CGCTCTCCCTGGCTCGAATGCCCCCTCCXA
CTCCCGACCCGGGTGGATTTCTCCCTGGCTGGGGCACTCAATGCTGGCTTCAAGGAGACCCGGGCCAGTGAGCGG
GCAGAGATGATGGAGCTCAATGACCGCTTTGCCAGCTACATCGAGAAGGTTTCGCTTCTTGGAACAGCAAAACAAG
GCGCTGGCTGCTGAGCTGAACCAGCTGCGGGCCAAGGAGCCCACCAAGCTGGCAGACGTCTACCAGGCTGAGCTG
CGAGAGCTGCGGCTGCGGCTCGATCAACTCACCGCCAACAGCGCCCGGCTGGAGGTTGAGAGGGACAATCTGGCA
CAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAACCTGAGGCTGGAAGCCGAGAACAACCTGGCT
GCCTATAGACAGGAAGCAGATGAAGCCACCCTGGCCCCGTCTGGATCTGGAGAGGAAGATTGAGTCGCTGGAGGAG
GAGATCCGGTTCTTGAGGAAGATCCACGAGGAGGAGGTTTCGGGAACCTCAGGAGCAGCTGGCCCCGACAGCAGGTC
CATGTGGAGCTTGACGTGGCCAAGCCAGACCTCACCGCAGCCCTGAAAGAGATCCGCACGCAGTATGAGGCAATG
GCGTCCAGCAACATGCATGAAGCCGAAGAGTGGTACCCTCCAAGTTTGACAGACCTGACAGACGCTGCTGCCCCG
AACGCGGAGCTGCTCCGCCAGGCCAAGCACGAAGCCAACGACTACCGGCGCCAGTTGCAGTCCTTGACCTGCGAC
CTGGAGTCTCTGCGCGGCACGAACGAGTCCCTGGAGAGGCAGATGCGCGAGCAGGAGGAGCGGCACGTGCGGGAG
GCGGCCAGTTATCAGGAGGCGCTGGCGCGGCTGGAGGAAGAGGGGCAGAGCCTCAAGGACGAGATGGCCCCGCCAC
TTGCAGGAGTACCAGGACCTGCTCAATGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTA
GAGGGCGAGGAGAACCGGATCACCATTCCCGTGCAGACCTTCTCCAACCTGCAGATTGAGAAACAGCCTGGAC
ACCAAGTCTGTGTGAGAAGGCCACCTCAAGAGGAACATCGTGGTGAAGACCGTGGAGATGCGGGATGGAGAGGTC
ATTAAGGAGTCCAAGCAGGAGCACAAGGATGTGATGTGAGGCAGGACCCACCTGGTGGCCTCTGCCCCGTCTCAT
GAGGGGCCCCGAGCAGAAGCAGGATAGTTGCTCCGCCTCTGCTGGCACATTTCCCCAGACCTGAGCTCCCCACCAC
CCCAGCTGCTCCCCCTCCCTCCTCTGTCCCTAGGTGAGCTTGCTGCCCTAGGCTCCGTGAGTATCAGGCCTGCCAG
ACGGCACCCACCCAGCACCCAGCAACTCCAATAACAAGAACTCACCCCCAAGGGGCAGTCTGGAGGGGCGATGG
CCAGCAGCTTGCGTTAGAATGAGGAGGAAGGAGAGAAGGGGAGGAGGGCGGGGGGCACCTACTACATCGCCCTCC
ACATCCCTGATTCTGTGTTATGGAACCTGTTGCCAGAGATGGAGGTTCTCTCGGAGTATCTGGGAACTGTGCC
TTTGAGTTTCTCAGGCTGCTGGAGGAAAACCTGAGACTCAGACAGGAAAGGGAAGGCCCCACAGACAAGGTAGCC
CTGGCCAGAGGCTTGTTTTGTCTTTTGGTTTTTATGAGGTGGGATATCCCTATGCTGCCTAGGCTGACCTTGAAC
TCCTGGGCTCAAGCAGTCTACCCACCTCAGCCTCCTGTGTAGCTGGGATTATAGATTGGAGCCACCATGCCCCAGC
TCAGAGGGTTGTCTCCTAGACTGACCCTGATCAGTCTAAGATGGGTGGGGACGTCCTGCCACCTGGGGCAGTCA
CCTGCCCAGATCCCAGAAGGACCTCCTGAGCGATGACTCAAGTGTCTCAGTCCACCTGAGCTGCCATCCAGGGAT
GCCATCTGTGGGCACGCTGTGGGCAGGTGGGAGCTTGATTCTCAGCACTTGGGGGATCTGTTGTGTACGTGGAGA
GGGATGAGGTGCTGGGAGGGATAGAGGGGGGCTGCCTGGCCCCCAGCTGTGGGTACAGAGAGGTCAAGCCCAGGA
GGA CTGCCCCGTGCAGACTGGAGGGGACGCTGGTAGAGATGGAGGAGGAGGCAATTGGGATGGCGCTAGGCATAC
AAGTAGGGGTTGTGGGTGACCAGTTGCACTTGGCCTCTGGATTGTGGGAATTAAGGAAGTGACTCATCCTCTTGA
AGATGCTGAAACAGGAGAGAAAGGGGATGTATCCATGGGGGCAGGGCATGACTTTGTCCATTCTAAAGGCCTC
TTCCTTGCTGTGTATACACAGGCGCCCCAGCCTCTGAGCCCCCTGGGACTGCTGCTTCTTAACCCAGTAAGCCA
CTGCCACACGTCTGACCCCTCTCCACCCCATAGTGACCGGCTGCTTTTCCCTAAGCCAAGGGCCTCTTGCGGTCCC
TTCTTACTCACACACAAAATGTACCCAGTATTCTAGGTAGTGCCCTATTTTACAATTGTAAAACCTGAGGCACGAG
CAAAGTGAAGACACTGGCTCATATTCTGCAGCCTGGAGGCCGGGTGCTCAGGGCTGACACGTCCACCCCACTGTC
ACCCACTCTGCTTTGACTGAGCAGACTGGTGAGCAGACTGGTGGGATCTGTGCCAGAGATGGGACTGGGAGGGC
CCACTTCAGGGTTCTCCTCTCCCCTCTAAGGCCGAAGAAGGGTCTTCCCTCTCCCCAAGACTTGGTGTCTTTTC
CCTCCACTCCTTCTGCCACCTGCTGCTGCTGCTGCTGCTAATCTTCAGGGCACTGCTGCTGCCTTTAGTCGCTG
AGGAAAAATAAAGACAAATGCTGCGCCCTT

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FIGURE 4881

CCTCTCTCCGGGCGGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGGCGTGCCAAAAAGGGCCGCGGCCA
CCTGCAACCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCG
AAACATAGTGGAGGCCGCAACAGTCAGGGACATTTCTGAAGTGAGCGTCTTCGATGCCTATGTGCTTCCCAAAC
GTAIGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCAGGTCCCCACCAAAGCCCATGTAAGG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 4882

MTKKRRNNGRAKKGRGHLQPIRWTNCARCVPKDKGIKKFVIRNIVEAATVRDISEVSVFDAYVLPKLYVKLHYCV
SCAIHSKVVRNRSREARKDRTPPFRFRPAGAAPGPPPKPM

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FIGURE 4883A

GGCACGAGGCTGCTCTCGCAACTCAAGATGCGGACGAGAGTGAGACAGCAGTGAAGCCGCCGGCACCTCCGCTG
CCGCAGATGATGGAAGGGAACGGGAACGGCCATGAGCACTGCAGCGATTGCGAGAATGAGGAGGACAACAGCTAC
AACCAGGGGTGGTTTGGAGTCCAGCCAATGACACTGGAGCCAAAAAGAAGAAAAAGAAACAAAAAGAAAGAA
AAAGGCAGTGAGACAGATTGAGCCAGGATCAGCCTGTGAAGATGAACTCTTTGCCAGCAGAGAGGATCCAGGAA
ATACAGAAGGCCATTGAGCTGTTCTCAGTGGGTGAGGGACCTGCCAAAACCATGGAGGAGGCTAGCAAGCGAAGC
TACCAGTTCTGGGATACGCAGCCCGTCCCCAAGCTGGGCGAAGTGGTGAACACCCATGGCCCCGTGGAGCCTGAC
AAGGACAATATCCGCCAGGAGCCCTACACCCTGCCCCAGGGCTTCACCTGGGATGCTTTGGACTTGGGCGATCGT
GGTGTGCTAAAAGAACTGTACACCCTCCTGAATGAGAACTATGTGGAAGATGATGACAACATGTTCCGATTTGAT
TATTCGCCGAGTTTCTTTTGTGGGCTCTCCGGCCACCCGGCTGGCTCCCCCAGTGGCACTGTGGGGTTCGAGTG
GTCTCAAGTCGGAATTGGTTGGGTTTCATTAGCGCCATCCAGCAAACATCCATATCTATGACACAGAGAAGAAG
ATGGTAGAGATCAACTTCTGTGTGTCCACAAGAAGCTGCGTTCCAAGAGGGTTGCTCCAGTTCTGATCCGAGAG
ATCACCAGGCGGGTTCACCTGGAGGGCATCTTCCAAGCAGTTTACACTGCCGGGGTGGTACTACCAAAGCCCGTT
GGCACCTGCAGGTATTGGCATCGGTCCCTAAACCCACGGAAGCTGATTGAAGTGAAGTTCTCCACCTGAGCAGA
AATATGACCATGCAGCGACCATGAAGCTCTACCGACTGCCAGAGACTCCCAAGACAGCTGGGCTGCGACCAATG
GAAACAAAGGACATTCCAGTAGTGCACAGCTCCTCACCAGGTACTTGAAGCAATTTACCTTACGCCCGTCATG
AGCCAGGAGGAGGTGGAGCACTGGTTCTACCCCCAGGAGAATATCATCGACACTTTCGTGGTGGAGAACGCAAAC
GGAGAGGTGACAGATTTCTGAGCTTTTATACGCTGCCCTCCACCATCATGAACCATCCAACCCACAAGAGTCTC
AAAGCTGCTTATTTCTTCTACAACGTTACACCCAGACCCCTCTTCTAGACCTCATGAGCGACGCCCTTGTCTC
GCCAAAATGAAAGGGTTTGATGTGTTCAATGCACTGGATCTCATGGAGAACAAAACCTTCTGGAGAAGCTCAAG
TTTGGCATAGGGGACGGCAACCTGCAGTATTACCTTTACAATTGGAAATGCCCCAGCATGGGGGCGAGAGAAGGT
GGACTGGTGCTACAATAACAGTCACCAAGTGCAGTTCTGGATAAAGCCACTGAAAATTGGAACAGGAAATGGAA
CCCCACCACTGTTGGTCCAATTTTACACACGCTGAGAATCCCTGGCAAAGGGAGCAGAACTGAACCGGCTTTACC
AAACCGCCAGCGAACTTGACAATTGTATTGCGATGGCGTGGGCTGCGTGACGTCACCTCCGGTCTGTCTCTGGT
CTCCGTGTTTTCCAGTTAATTACATCCTCATGCAGCCGTGATCAAGGGAATGTAAGTCTGTAAGTCTGCTGAAA
ACTAGCTCGTG
ATTGGCATATAATGGAGTTAACGGGTGAATAATAAAAGTATATATATATATATATATATATATATATATATAT
ATCTTTTCATGTTCCAAATGTACAAGGATGTTTGGTCTTTAATGAAAAGCTGAATCTAGATCATTCTCAGAAATGA
GGACCCGAGGACAGTGGCAGACAGACGCGTTGGCACAGTTTCATGGTTTTCTCCAGAGGAGACATTGGCTTATCAT
GGGGAAAAAGAGGATCTGGAGAACCTCATCCAGCTCCCCCTTCTGAATCAGCTGGGATGACTGGCTTTGAGAAGGA
AGGGAAGATGGAACAGGCTCAGATCTCATGGGATAGCACGTGGAGCTCTTGGCTGGGGCTGACCCTGGGCAGGGA
CTTTCTGCAGGGCCAGACCTGCCTGCATTCTGAGACAAAGCAATGGACGGTCCGCAGAAGCAGACCTCATTGAT
TGAGTCCCTTTCTTCCATCCCCCTTGGCCTGCTCCCTGTAGGAAGTCATCCTGCCAACTGATTTAAAGGGCTCTTT
AGCCAGTTGTTGCCAACCTTATAGGGATGAGTCCCCTGTGAGATTTTGCTTTTCCACTGCCTGGGATGATGCAGT
TTGAAGAGGCCCTTGGACCTCCTTGTAACATCAGGGACCTTTGGAGACCATTATCAGTGTAAGCCCTGCTTAGCT
CATCTTAGAGCAAAGAGCCAGCACCTGATGTCCCTGGGGTGGCTAGGCAGGAGTGGCGTGGGGCCAATACCCAG
ACCCCTTCAGCCACCAGCCCTGGCCTGTGCCTTCCAACCCATTAGCCATTTCTTGTGTGCCCCCTTTCCAAGAT
ACAGCCTGCAAGTGGTAGCAAGAAGTGATTAGAGGCAGATCTGGACTTGGCAACAGAAGTGGTTTCCCATCTCCA
TTGTCTGAGTCTGATTTTCTGCTGATGCTGTTTTGTGGATTTTTGTGGTAGTGATGGTTGTGAGTGTGCCAGTTT
CCCAAAACGTAATCAAGCCTCTGGTCACATGGCTGTGATGTAGGCATTCTGGAGTGGTGTTCAGCCAAGTGACC
GGGCAAAATTGGGCTGTGAAATTGTACTTCCAGGCTTGGATGTAATTTTGTCTTAGAGAGAAGCAAGTGGTGGG
AAGGAGGTAGCATGACGTGTGGTGTGCGGGTTTTCTTGTGCGCTCACCTCTCCGCTCATAACAGGAATGAAGCCT
TAGCCAGGAGGCCAGGCTCAGCCCTGTGCCACTACCGAAGCCACTTTCTACAGGCCAGCAGGGGCTTGTTCAG
GCTGTGGGTTTTGGTGTGGTTTTGTGAGGCTAATTCTGCAGAGTTTCCAAAACCAGAAGACATCGTATGCTTGG
GATGGGGGCCGTGCCACCCGTGGGAATGCTGCCCGCTCTGCAGACTGCTGCTAGAGCCAGCAACTCCACTAAGGT
GGATTTTCATCAGGGGCTGCAGGGCCCTCCCTTTTCCATTGTTCTGCGCTGCAATTGCAGGCCCCAGCAAT
CGTGAAGTACGTTTGTCTCTTGAAGTCCAAAGAACTGAGACCAAAGAAGCTGCTGTTCTTAGCAAGATGCGCACTG
CATTCCACAGGTGGGAGGAGTCGGAGAGGCAGGGGCTTGGCTTTGCAGCCCCACAGACAACAGTTGCACAGTGCCT
CAAGCCCCAGAGTGGCTCACCTGTCCAGACCTTTGAGGATATCAAAGGACAAAGTGCCCAAGTCTTTCTACCT
TGGGGGAACCTGGAACCTTGAAAGGCTCCCTGTCTAGTCTTGATCTGTTCTGGGCCAGGTCCCAGCTTGAGCTG

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FIGURE 4883B

CCTCTGAGATTTGGGCTGTGCGGATCTCTGGAGTGAGCTCTGTTTCGGTTGACCCAGGTCATGGAATGGAAACGG
TGAGGCCCCAGTGGCTGTTCTGGAAGAAACAGATCTCCTGGCAAAGGCCCCAGCATCTCCCTCACTGAAACCAGG
TGGCCGGCTCCTCGGACTCTGCTTTATGTTGCGGTGAGAACTCTGCCCAGGTGTGCAGGGTTTGGCTTGTGGGCT
GCTTGCTGCTCATCTGATTTTTGTCCCAGTAGTCCCTGCGTTCCTTCATTCAACCCCTTCTGGGACTTCAGCTCAG
AGAGCACCATCCCGGGGGTCAGGGCCTCCCCACAGGAGCCCTGCAGTGTGGTAGCGCCATGGCTGTCTCAAACCA
AGCAAAGGAAGGACCCTGAGGCCTTCACGCTAACCATCCTCGAGCAACTGCTGTTGGAAGGCCTCCCTGGGCCTG
GCCCCACCTCTGCCACCCAGTCTCCAGCTGCCATGTTTTCAAAGACGACCTTTACCTCCTGCCTTTGGATTG
ACTCTGCATTTGACCACGGACTCCAGTCTGTGTGTAGGGAGAGAGCTGAGTAGGAGGCCTCCACTCCGGATCGAG
GCCTGTATAGGGCTCGTTTTCCCCACACATGCCTATTTCTGAAGAGGCTTCTGTCTTATTTGAAGGCCAGCCCACA
CCCAGCTACTTTAACACCAGGTTTATGAAAAATGTCAGGCCTTCCCCACAACCTCCTGTCTAACTGCTGTCGCCCC
CCTACTTGCTGGCTCTCAGAAGCCTAGGGGAGTCCCTGTGGTCCTGAATTCTTTCCCCAAAGACGACCAGCATTT
AACCAACCTAAGGGCCCCAAAGGCCTTGGACAACCTGCATGGAGCTGCACTCTAGGAGAAGGAGGGGAACCAGATGT
TAGATCAGGGGAGGGAGCAGGAGTGTCCCTCCCGTCAGTGCCTACCCACCTGTGAGGCAGCCTTCTGATGGCCTG
GCCACCTTCCCCAGAACCAGGGGAGGCCTGAGGCTTCAGTTTTACTCTGCTGCAAATGAAGGCGGGCCTGCAA
GCCGACTACACCTACGGAGGCTGTTGAGGACAATTCATTCCATTAAATTAAAAATACTGACTGGCTGGCAGGC
AGGTGCCATGTCTGGGAACAGGGACGGGGAGCTTCACCTTTTTGTCTTGGCTTTTCTTTGGGCTGTGGGGGGGC
ATCCATTTCCAGGGTCGGGGAGGAAATACCAATGCATTGTTGTTCTGCTCAATACATCTCACTTGTCTTAATA
AAGAAAGCAGCTGAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4884

MADESETAVKPPAPPLPQMMEGNGNGHEHCSDCENEEDNSYNRGGLSPANDTGAKKKKKKQKKKKEKGSETDSAQ
DQPVKMNSLPAERIQEIQKAIELFSVGQGPAKTMEEASKRSYQFWDTPQVPKLGEVVNTHGPVEPKDNIRQEPY
TLPQGGFTWDALDLGDRGVLKELYTLLNENYVEDDDNMFRFDYSPEFLLWALRPPGWLPQWHCGVRVVSRRKLVGF
ISAIPANIHIYDTEKKMVEINFLCVHKKLRSKRVAPVLIREITRRVHLEGIFQAVYTAGVVLPKPVGTCRYWHR
LNPRKLIIEVKFSLSRNMTMQRTMKLYRLPETPKTAGLRPMETKDIPVVHQLLTRYLKQFHLTPVMSQEEVEHWF
YPQENIIDTFVVENANGEVTDFLSFYTL PSTIMNHPTHKSLKAAYSFYNVHTQTPLLDLMSDALVLAKMKGFDVF
NALDLMENKTFLEKLKFGIGDGNLQYYLYNWKCP SMGAEKVGLVLQ

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FIGURE 4885

TTCGCTCGCCGCCTCGCTCAGAGCCGGGGCCGGGCCAGAGCGGGCGCCCCGCTGCCCTGTCCCCGCGTGACAGACCC
CGGGCCCGGCCCCGGCCCCCGCCAAGCC**ATG**CTGTGCGGCCGCTGGAGGCGTTGCCGCCGCCGCCGAGGAGC
CCCCGGTGGCCGCCAGGTGCGAGCCCAAGTCGCGGCCCGGTGCTCTCCCGTCCCCGCCGACTCCCTCCGATG
GCGGCACCAAGAGGCCCGGGCTGCGGGCGCTGAAGAAGATGGGCCTGACGGAGGACGAGGACGTGCGCGCCATGC
TGCGGGGCTCCCCGGCTCCGCAAGATCCGCTCGCGCACGTGGCACAAGGAGCGGCTGTACCGGCTGCAGGAGGACG
GCCTGAGCGTGTGGTTCCAGCGGCGCATCCCGCGTGCGCCATCGCAGCACATCTTCTTCGTGCAGCACATCGAGG
CGGTCCGCGAGGGCCACCAGTCCGAGGGCCTGCGGGCGCTTCGGGGGTGCCTTCGCGCCAGCGCGCTGCCTACCA
TCGCCTTCAAGGGCCGCCGCAAGAACCTGGACCTGGCGGCGCCACGGCTGAGGAAGCGCAGCGCTGGGTGCGCG
GTCTGACCAAGCTCCGCGCGCGCCTGGACGCCATGAGCCAGCGCGAGCGGCTAGACCACTGGATCCACTCCTATC
TGCACCGGGCTGACTCCAACCAGGACAGCAAGATGAGCTTCAAGGAGATCAAGAGCCTGCTGAGAATGGTCAACG
TGGACATGAACGACATGTACGCCTACCTCCTCTTCAAGGAGTGTGACCACTCCAACAACGACCGTCTAGAGGGGG
CTGAGATCGAGGAGTTCTGCGGCGGCTGCTGAAGCGGCCGGAGCTGGAGGAGATCTTCCATCAGTACTCGGGCG
AGGACCGCGTGTGAGTGCCCCTGAGCTGCTGGAGTTCTGGAGGACCAGGGCGAGGAGGGCGCCACACTGGCCC
GCGCCCAGCAGCTCATTAGACCTATGAGCTCAACGAGACAGCCAAGCAGCATGAGCTGATGACACTGGATGGCT
TCATGATGTACCTGTTGTCGCCGGAGGGGGCTGCCTTGGACAACACCCACACGTGTGTGTTCCAGGACATGAACC
AGCCCCTTGCCCCTACTTTCATCTCTTCTCCACAACACCTATCTGACTGACTCCCAGATCGGGGGGGCCAGCA
GCACCGAGGCCTATGTTAGGGCCTTTGCCCAGGGATGCGCGTGCCTGGAGCTGGACTGCTGGGAGGGGGCCAGGAG
GGGAGCCCGTCATCTATCATGGCCATACCCTCACCTCCAAGATTCTCTTCCGGGACGTGGTCCAAGCCGTGCGCG
ACCATGCCTTCACGCTGTCCCTTACCCTGTCTATCCTATCCCTGGAGAACCCTGCGGGCTGGAGCAGCAGGCTG
CCATGGCCCGCCACCTCTGCACCATCCTGGGGGACATGCTGGTGACACAGGCGCTGGACTCCCCAAATCCCGAGG
AGCTGCCATCCCCAGAGCAGCTGAAGGGCCGGGTCTTGGTGAAGGGAAAGAAGTTGCCCGCTGCTCGGAGCGAGG
ATGGCCGGGCTCTGTGCGATCGGGAGGAGGAGGAGGAGGATGACGAGGAGGAAGAAGAGGAGGTGGAGGCTGCAG
CGCAGAGGCGGCTGGCCAAGCAGATCTCCCGGAGCTGTGCGCCCTGGCTGTGTACTGCCACGCCACCCGCTGC
GGACCCTGCACCCTGCCCCCAACGCCCCACAACCCTGCCAGGTCAGCTCCCTCAGCGAGCGCAAAGCCAAGAAAC
TCATTGGGGAGGCAGGGAACAGCTTTGTGAGGCACAATGCCCGCCAGCTGACCCGCGTGTACCCGCTGGGGCTGC
GGATGAACTCAGCCAACCTACAGTCCCCAGGAGATGTGGAACCTGGGCTGTCAGCTGGTGGCCTTGAACCTCCAGA
CGCCAGGCTACGAGATGGACCTCAATGCCGGGCGCTTCTAGTCAATGGGCAGTGTGGCTACGTCTCTAAACCTG
CCTGCCTGCGGCAACCTGACTCGACCTTTGACCCCGAGTACCCAGGACCTCCAGAACCACTCTCAGCATCCAGG
TGCTGACTGCACAGCAGCTGCCAAGCTGAATGCCGAGAAGCCACACTCCATTGTGGACCCCTGGTGCGCATTG
AGATCCATGGGGTGCCCGCAGACTGTGCCCGGCAGGAGACTGACTACGTGCTCAACAATGGCTTCAACCCCGCT
GGGGGCAGACCTGCACTTCCAGCTGCGGGCTCCGGAGCTGGCACTGGTCCGGTTTGTGGTGAAGATTATGACG
CCACCTCCCCCAATGACTTTGTGGGGCAGTTTACACTGCCTCTTAGCAGCCTAAAGCAAGGGTACCGCCACATAC
ACCTGCTTTCCAAGGACGGGGCCTCACTGTACCCAGCCACGCTCTTCATCCAAATCCGCATCCAGCGCTCC**TGAG**
TAGCTGGGACTACAGGCACAGGCCACCACACCTGGCTAATGTTTAAATTTTATGTAGAGATGGCGGGGGGGGCGG
GGGTCTCCCTATGCTGCCAGGCTGGTCTCGAGCTCCTGACCTCAAGTGATCCTCCTGCCCCAGCATTCCAAAGT
GCTGGGATTACAGGTGTGAGCCACTGCCTGGCCTGGCCGTAGGTTTGTAACTGTTTCATAGAAGAGCCCTGGAGA
AGACAGTAGAATGAGCCTATCTAGTTTAAAAAATAAAGAAGCACGTTGATTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4886

MLCGRWRRRCRRPPEEPPVAAQVAAQVAAPVALPSPPTPSDGGTKRPGLRALKKMGLTEDEDVRAMLRGSRRLRKIR
SRTWHKERLYRLQEDGLSVWFQRRIPRAPSQHIFVQHI EAVREGHQSEGLRRFGGAFAPARCLTIAFKGRRKNL
DLAAPTAEAAQRWVRGLTKLRARLDAMSQRERLDHWIHSYLHRADSNQDSKMSFKEIKSLRMVNVDNMNDMYAYL
LFKECDHSNNDRLEGAEIEEFLRRLKRP ELEEIFHQYSGEDRVLSAPELLEFLEDQGEEGATLARAQQLIQTYE
LNETAKQHELM TLDGFMMYLLSPEGAALDNHTCTCFQDMNQPLAHYFISSSHNTYLTDSQIGGPSSTEAYVRAFA
QGCRCVELDCWEGPGGEPVIYHGHTLTSKILFRDVVQAVRDHAFTLSPYPVILSLENHCGLEQQAAMARHLCTIL
GDMLVTQALDSPNPEELPSPEQLKGRVLVKGKKLPAARSEDGRALSDREEEEDDEEEEEEVEAAAQRR LAKQIS
PELSALAVYCHATRLRTLHPAPNAPQPCQVSSLSEKAKKLIREAGNSFVRHNARQLTRVYPLGLRMNSANYSPQ
EMWNSGCQLVALNFQTPGYEMDLNAGRFLVNGQCGYVLKPACLRQPDSTFDPEYPGPPRTTLSIQVLTAAQLPKL
NAEKPHSIVDPLVRIEIHGVFADCARQETDYVLNNGFNPRWGQTLQFQLRAPELALVRFVVEDYDATSPNDFVGQ
FTLPLSSLKQGYRHIHLLSKDGASLSPATLFIQIRIQRS

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FIGURE 4887

CGGCCACGAGGCGGAATCCCTTCTGCTCTCCAGCGCAGCGCCGCCCGCCCGCCCCCTCCAGCTTCCCGGACCATG
GCCAACCTGGAGCGCACCTTCATCGCCATCAAGCCGGACGGCGTGCAGCGCGGCCTGGTGGGCGAGATCATCAAG
CGCTTCGAGCAGAAGGGATTCCGCCTCGTGGCCATGAAGTTCCTCCGGGCTCTGAAGAACACCTGAAGCAGCAC
TACATTGACCTGAAAGACCGACCATTCTTCCCTGGGCTGGTGAAGTACATGAACTCAGGGCCGGTTGTGGCCATG
GTCTGGGAGGGGCTGAACGTGGTGAAGACAGGCCGAGTGATGCTTGGGGAGACCAATCCAGCAGATTCAAAGCCA
GGCACCATTCTGTGGGACTTCTGCATTCAAGTTGGCAGGAACATCATTATGGCAGTGATTCAAGTAAAAAGTGCT
GAAAAAGAAATCAGCCTATGGTTTAAGCCTGAAGAACTGGTTGACTACAAGTCTTGTGCTCATGACTGGGTCTAT
GAATAAGAGGTGGACACAACAGCAGTCTCCTTCAGCACGGCGTGGTGTGTCCCTGGACACAGCTCTTCATTCCAT
TGACTTAGAGGCAACAGGATTGATCATTCTTTTATAGAGCATATTTGCCAATAAAGCTTTTGAAGCCGG

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FIGURE 4888

MANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNSGPVVA
MVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEELVDYKSCAHDWV
YE

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FIGURE 4889

TGCTGCGAACCACGTGGGTCCCGGGCGCGTTTCGGGTGCTGGCGGCTGCAGCCGGAGTTCAAACCTAAGCAGCTG
GAAGGAACC**ATG**GCCAACTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTTGGGA
GAGATTATCAAGCGTTTTGAGCAGAAAGGATTCCGCCTTGTTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTT
CTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCACTCAGGGCCG
GTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTCGGGGAGACCAACCCTGCA
GACTCCAAGCCTGGGACCATCCGTGGAGACTTCTGCATACAAGTTGGCAGGAACATTATACATGGCAGTGATTCT
GTGGAGAGTGCAGAGAAGGAGATCGGCTTGTGGTTTACCCTGAGGAAGTGGTAGATTACACGAGCTGTGCTCAG
AACTGGATCTATGAAT**TGA**CAGGAGGGCAGACCACATTGCTTTTACATCCATTTCCCCTCCTTCCCATGGGCAGA
GGACCAGGCTGTAGGAAATCTAGTTATTTACAGGAAGTTCATCATAATTTGGAGGGAAGCTCTTGGAGCTGTGAG
TTCTCCCTGTACAGTGTTACCATCCCCGACCATCTGATTAAATGCTTCCTCCCAGC

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FIGURE 4890

MANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRVLVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHS GPVVA
MVWEGLVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNW I
YE

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FIGURE 4891

GACAACTTGAGCTGAAAGCGAAAACTATGCTGACCAGATTAGCAGACTTGAAGAAAGAGAAGCAGAACTGAAGA
AGGAATATAATGCATTACATCAAAGACACACTGAGATGATCCATAATTATATGGAACATTTAGAAAGAACAAAAC
TTCATCAGCTCTCAGGGAGTGATCAACTAGAAATCCACAGCTCATAGTAGAATTAGAAAAGAAGCCCTATATCAT
TAGGAATTTTCCATTACCTGCTGGAGATGGATTGCTTACACCTGATGCTCAGAAAGGAGGAGAGACCCCTGGAT
CTGAGCAATGGAAATTTCAAGGAATTAAGTCAACCACGTTCTCATAACCAGCCTGAAGGATGAGCTTTCTGATGTTA
GCCAAGGCGGATCTAAAGCTACCACTCCAGCATCAACAGCTAATTAGATGTGGCAACAATTCCTACTGATACTC
CCTTAAAGGAAGAAAACGAAGGATTTGTGAAGGTTACAGATGCGCCAAATAAATCAGAGATAAGCAAACACATTG
AAGTACAGGTAGCCAGGAACTAGAAATGTATCTACTGGCTCTGCTGAAAATGAAGAAAAGTCAGAAGTTCAAG
CAATCATCGAATCTACTCCTGAGCTGGATATGGACAAAGATCTCAGTGGATATAAAGGTTCAAGCACTCCACCA
AAGGCATAGAGAACAAAGCTTTTGATCGCAATACAGAATCTCTCTTTGAAGAACTGTCTTCAGCTGGCTCAGGCC
TAATAGGAGATGTGGATGAAGGAGCAGATTTACTAGGAATGGGTGCGGGAAGTTGAGAATCTTATATTAGAAAATA
CACAACCTGTTGGAAACCAAAAATGCTTTGAACATAGTGAAGAATGATTTGATAGCAAAAGTGGATGAACCTGACCT
GTGAGAAAGATGTGCTGCAAGGGGAATTGGAGGCTGTGAAGCAAGCCAAACTGAACTAGAGGAAAAGAACAGAG
AATTGGAGGAAGAGCTTAGGAAAGCTCGGGCAGAAGCTGAAGATGCAAGGCCAAAAGCAAAAGATGACGATGATA
GTGATATTCCACAGCCCAGAGGAAACGGTTTACTAGAGTAGAAATGGCCCGTGTTCTCATGGAGCGAAACCAGT
ATAAAGAGAGATTGATGGAGCTTCAGGAAGCTGTTTCGATGGACAGAGATGATTCGGGCATCACGAGAAAATCCAG
CCATGCAGGAAAAAAAAGGTCAAGCATTGTCAGTCTTTTTCAGCCGACTTTTCAGCTCCTCAAGTAACACGACTA
AGAAGCCTGAACCACCTGTAAATCTGAAGTACAATGCACCCACGTCTCATGTTACTCCGTCCGTCAAGAAAAGAA
GCAGCACCTTATCTCAGCTCCCTGGGGATAAGTCCAAAGCCTTTGATTTCCCTTAGTGAAGAACTGAAGCTAGTT
TAGCCTCACGCAGAGAACAAAAGAGAGAGCAGTATCGTCAGGTAAGACACATGTTTCAAGGAAGACGGTAGAG
TGCAGGCTTTTGGCTGGAGTCTGCCTCAGAAGTACAAACAGGTAACCAATGGTCAAGGTGAAAATAAGATGAAAA
ATTTACCTGTGCCTGTCTATCTCAGACCTCTGGATAAAAAAGATACATCAATGAAGCTGTGGTGTGCTGTTGGAG
TCAATTTATCTGGTGGGAAGACCAGAGATGGTGGTTCTGTTGTTGGAGCAAGTGTATTTTACAAGGATGTTGCTG
GTTTGGATACAGAAGGCAGTAAACAGCGAAGTGCCTCTCAGAGTAGTTTAGATAAGTTAGATCAGGAACCTAAGG
AACAGCAGAAGGAGTTAAAAAATCAAGAAGAATTATCCAGTCTAGTTTGGATCTGTACCAGCACTCATTCCGGCTA
CAAAAGTTCTTATTATTGATGCTGTTCAACCTGGCAACATCCTAGACAGTTTCACTGTTTGCAACTCTCATGTTT
TGTGCATTGCAAGTGTGCCAGGTGCACGAGAAACAGACTACCCCTGCAGGAGAAGATCTTTCAGAATCTGGTCAGG
TAGACAAAGCATCTTTATGTGGAAGTATGACAAGCAACAGCTCAGCAGAGACAGACAGCCTGTTAGGAGGCATCA
CAGTGGTTGGTTGTTCTGCAGAAGGTGTGACGGGAGCTGCCACTTCCCCTAGTACAAATGGTGCTTCTCCAGTGA
TGGATAAAACCACCAGAAATGGAAGCAGAAAATAGTGAGGTTGATGAAAATGTTCCAACAGCAGAAGAAGCAACTG
AAGCTACAGAAGGGAATGCGGGGTGAGCTGAAGACACAGTGGACATCTCCCAAAGTGGCGTCTACACAGAGCATG
TCTTTACAGATCCTTTGGGAGTTTCAAGTCCCAGAAAGACCTCTCCCCAGTGTATCAGTCGAGGTATAATAATGGGT
CATCAACTTAGGCAACTGGGTGAAGTGCACAAATAAAAGGAACCAAAATAATCTCAAACAGTCAAAAGATTTCCA
CTAATTAGTGTCACTGTGGTGGATTAAAGATACCTATTCTTGTGATA

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FIGURE 4892

MIHNYMEHLERTKLHQLSGSDQLESTAHSRIRKERPISLGIFPLPAGDGLLTPDAQKGGETPGSEQWKFQELSOP
RSHTSLKDELSQGGSKATTPASTANSVDATIPDTPLKEENEGFVKVTDAPNKSEISKHIEVQVAQETRNV
TGSANEKSEVQAI IESTPELMDMDKDLGSGYKGSSTPTKGIENKAFDRNTESLFEELSSAGSLIGDVDEGADLL
GMGREVENLILENTQLLETKNALNIVKNDLIAKVELTCEKDVLOGELEAVKQAKLKLEKNRELEEEELRKARAE
AEDARQKAKDDDDSDIPTAQRKRFRVEMARVLMERNQYKERLMELQEAVRWTEMIRASRENPAEQEKKRSSIWQ
FFSRLFSSSSNTTKKPEPPVNLKYNAPTSHVTPSVKKRSSTLSQLPGDKSKAFDFLSEETEASLASRREQKREQY
RQVKAHVQKEDGRVQAFGWSLPQKYKQVTNGQGENKMKNLPVPVYLRPLDKKDTSMKLWCAVGVNLSGGKTRDGG
SVVGASVFYKDVAGLDTEGSKQRSASQSSLDKLDQELKEQQKELKNQEELSSLVWICTSTHSATKVLIIIDAVQPG
NILDSTVCNSHVLCIASVPGARETDYPAGEDLSESGQVDKASLCGSMTSNSSAETDSSLGGITVVGCSAEGVTG
AATSPSTNGASPVMDKPPPEMEAENSEVDENVPTAEEATEATEGNAGSAEDTVDISQTGVYTEHVFTDPLGVQIPE
DLSPVYQSRYNNGSST

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FIGURE 4893A

CTCCGGCGCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGCAGCCGCGCCTCGGCCCC**ATGGA**
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTGCGCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATTTGTCGTGGCTACATCATCCTCTCCACCTGTCCAAGCTCAAGATGGTCTGGG
TGTCTGTGTGGTGCCTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCCTGC
CCCTGTTTTCTTTGTACCCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGTCTCATTATCTTCTGGTTCTGTGTGGTCTGCGCCATCGTCCCAT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTGCCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCCTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTTCTGGTGGTTCACAAAGCTGCT
AAACCCTGACCCCTCTGCGGGGCTGCCTGCCGGGCTTCACCTCCCCCAGGATGGCCATCTATGGCTACCGGCATC
CCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCAGATGGTGGTGCAGCAGCTGCTGGAGG
CATGGAGGAAGCAGGAAAAGCAGACGGCACGACACAAGGCTTCAGCAGCACCTGGGAAAAATGCCTCCGGCGAGG
ACGAGGTGCTGCTGGGTGCCCGGCCAGGCCCCGGAAGCCCTCCTTCTGAAGGCCCTGCTGGCCACCTTCGGCT
CCAGCTTCCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCATCAATCCACAGCTGCTCAGCA
TCCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGTGGCTGGGCTGATGTTCTGT
GCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACATCTTTGTGACTGGGGTGAAGTTTCGTACTG
GGATCATGGGTGTCATCTACAGGAAGGCTCTGGTTATCACCAACTCAGTCAAACGTGCGTCCACTGTGGGGGAAA
TTGTCAACCTCATGTGAGTGGATGCCAGCGCTTCATGGACCTTGCCCCCTTCTCAATCTGCTGTGGTGCAGCAC
CCCTGCAGATCATCCTGGCGATCTACTTCTCTGGCAGAACCTAGGTCCCTCTGTCTGGCTGGAGTGCCTTTCA
TGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCAGGTAAAGCAAATGAAATTGA
AGGACTCGCGCATCAAGCTGATGAGT**TGAGAT**CTTGGACGGCATCAAGGTGCTGAAGCTGTACGCCTGGGAGCCCCA
GCTTCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCCCCAGCTGCTGCGCACGGCGGCCTACCTCCACACCA
CAACCACCTTCACCTGGATGTGCAGCCCCCTTCTGGTGACCTGATCACCTCTGGGTGTACGTGTACGTGGACC
CAAACAATGTGCTGGACGCCGAGAAGGCCTTTGTGTCTGTGTCTTGTTTAATATCTTAAGACTTCCCCCTCAACA
TGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGATCCAGCAATTCTTGAGCCAAG
AGGAACTTGACCCCCAGAGTGTGGAAAGAAAGACCATCTCCCCAGGCTATGCCATCACCATACACAGTGGCACCT
TCACCTGGGCCCAGGACCTGCCCCCACTCTGCACAGCCTAGACATCCAGGTCCCGAAAGGGGCACTGGTGGCCG
TGGTGGGGCCTGTGGGCTGTGGGAAGTCTCCCTGGTGTCTGCCCTGCTGGGAGAGATGGAGAAGCTAGAAGGCA
AAGTGCACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAACTGCACTCTTCAGGAAAACG
TGCTTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTGTGCCTTGCTAGCTGACCTGG
AGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACTGTCTGGGGGCCAGCGGCAGCGGG
TCAGTCTGGCTCGAGCTGTTTACAGT**GAT**GCCGATATTTTCTTGCTGGATGACCCACTGTCCGCGGTGGACTCTC
ATGTGGCCAAGCACATCTTTGACCACGTATCGGGCCAGAAGGCGTGCTGGCAGGCAAGACGCGAGTGCTGGTGA
CGCACGGCATTAGCTTCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGGACAGGTGTCTGAGATGGGCC
CGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACTTTCTCTGCAACTATGCCCCCGATGAGGACCAAG
GGCACCCTGGAGGACAGCTGGACCGCTTGGAAAGGTGCAGAGGATAAGGAGGCACTGCTGATTGAAGACACACTCA
GCAACCACACGGATCTGCAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCAGTTTATGAGACAGCTGAGTG
CCCTGTCTCAGATGGGGAGGGACAGGGTCCGGCTGTACCCCGGAGGCACCTGGGTCCATCAGAGAAGGTGCAGG
TGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGGCACTGTGGAGCTCAGTGTGT
TCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCTGTATGTGGGTCAAAGTGC GG
CTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGACAGTAGACAGAACAACACTT
CCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGATGCTGGCAGCCATGGCCATGG
CAGCGGGTGGCATCCAGGCTGCCCCTGTGTTGCCACAGGCACCTGCTGCACAACAAGATACGCTCGCCACAGTCTT
TCTTTGACACCACACCATCAGGCCGATCCTGAAGTCTTCTCCAAGGACATCTATGTCGTTGATGAGGTTCTGG
CCCCTGTATCTCTATGCTGCTCAATTCCTTCTTCAACGCCATCTCCACTCTTGTGGTCAATCATGGCCAGCACGC
CGCTCTTCACTGTGGTCACTGCTGCTGCTTACACCTTAGTGACAGCGCTTCTATGCAGCCACATCAC
GGCAACTGAAGCGGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTTCGGAGACAGTGACTGGTGCCA

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FIGURE 4893B

GTGTCAATCCGGGCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAAGGTGGATGCCAACCAGAGAA
GCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCCGCCTCCCTCGCTCCCTGCTCCTCCAGGAATTCCCAGC
AGGCTCTCTGGTGTTTCAGGGTCCTTGTCCCTCCTTTCCCCTAAGCAGAAAACCTGGCCCTGCCCTGCCCTGCCCC
ATTTCTCCTCATCTGATCCCCATAGGTGGCTGAGCATCGGAGTGGAGTTCGTGGGGAACCTGCGTGGTGCTCTT
TGCTGCACTATTTGCCGTCATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGCCTTTCTGTGTCTACTCCTT
GCAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATCTAACATCGTGGCTGTGGAGAG
GGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGGAAGGCAGCCGCCCTCCCGAAGGTGGCC
CCCACGTGGGGAGGTGGAGTTCGGAATTATTCTGTGCGCTACCGGCCGGGCCTAGACCTGGTGCTGAGAGACCT
GAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCTGGCAAGTCTTCCATGACCCT
TTGCCTGTTCCGCATCCTGGAGGCGGCAAAGGTGAAATCCGCATTGATGGCCTCAATGTGGCAGACATCGGCCT
CCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCCATCCTGTTCTCGGGGACCCTGCGCATGAACCT
GGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTCCCACCTGCACACGTTTGTGAG
CTCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGCGTGGGCCAGAGGCAGCTCGT
GTGCCTGGCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCCACAGCTGCCATCGACCTGGA
GACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCCTGTCTGACCATCGCACACCGGCT
TAACACTATCATGGACTACACCAGGGTCCTGGTCCTGGACAAAGGAGTAGTAGCTGAATTTGATTCTCCAGCCAA
CCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCCTAAAATATATTCTGAGATT
TCCTCCTGGCCTTTCTGGTTTTTCATCAGGAAGGAAATGACACCAAATATGTCCGCAGAATGGACTTGATAGCAA
ACACTGGGGGCACCTTAAGATTTTGACCTGTAAAGTGCCTTACAGGGTAACTGTGCTGAATGCTTTAGATGAGG
AAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAGTTAGACTAGTCCCCCGGTCT
CCCGATTCCCAACTGAGTGTTATTTGCACACTGCCTGTTTTCAAATAACGATTTTATGAAATGACCTCTGTCTCT
CCCTCTGATTTTTTCATATTTTCTAAAGTTTCGTTTCTGTTTTTAATAAAAAGCTTTTTCTCCTGGAACAGAA
GACAGCTGCTGGGTCAGGCCACCCCTAGGAACTCAGTCCTGTACTCTGGGGTGCTGCCTGAATCCATTAAAAATG
GGAGTACTGATGAAATAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4894

MDALCGSGELGSKFWDSNLSVHTENPDLTPCFQNSLLAWVPCIYLVVALPCYLLYLRRHHCRCGYIILSHLSKLMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSALILACFREKPPFFSAKNVDPNYPETSAGFLSRLFFWWFTK
LLNPDPLRGCLPGFTSPQDGLWLPASPGGEGPLVPKGRGQIPDGGAAAAGGMEEAGKADGTTQGFSSSTWEKCLR
RGRGAAGCPAQAPEALLPEGPAGHLRLQLPHQCLLQAYPGPALLHQSTAAQHPDQVYLQPHGPLLVLPGGWADV
PVLHDAVADLTLLPLHLCDWGEVSYWDHGCHLQEGSGYHQLSQTCVHCGGNCQPHVSGCPALHGPCPLPQSAVV
STPADHPGDLLPLAEPRSLCPGWSRFHGLADSTQRSCGREDARLPGKANEIEGLAHQADE

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FIGURE 4895A

CTCCGGCGCCCCGCTCTGCCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGCAGCCGCGCCTCGGCCCC**ATGGA**
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTGCGCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATTTGTCGTGGCTACATCATCCTCTCCACCTGTCCAAGCTCAAGATGGTCTGGG
TGTCCTGCTGTGGTGCGTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGCCCCCTGC
CCCTGTTTTCTTTGTACCCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTGGGGGTCTCATTATCTTCTGGTTCTGTGTGTGGTCTGCGCCATCGTCCCAT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCCGCTTACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTACCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCCTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTTCTGGTGGTTTCAAAAGATGGC
CATCTATGGCTACCGGCATCCCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCCAGATGGT
GGTGCAGCAGCTGCTGGAGGCATGGAGGAAGCAGGAAAAGCAGACGGCACGACACAAGGCTTCAGCAGCACCTGG
GAAAAATGCCCTCCGGCGAGGACGAGGTGCTGCTGGGTGCCCGGCCAGGCCCGGAAGCCCTCCTTCCTGAAGGC
CCTGCTGGCCACCTTCGGCTCCAGCTTCCTCATCAGTGCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCAT
CAATCCACAGCTGCTCAGCATCCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGT
GGCTGGGCTGATGTTCTGTGCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACATCTTTGTGAC
TGGGGTGAAGTTTCGTACTGGGATCATGGGTGTCATCTACAGGAAGGCTCTGGTTATCACCAACTCAGTCAAACG
TGCGTCCACTGTGGGGGAAATTGTCAACCTCATGTGAGTGATGCCAGCGCTTCATGGACCTTGCCCCCTTCCT
CAATCTGCTGTGGTCAGCACCCCTGCAGATCATCTGGCGATCTACTTCCTCTGGCAGAACCTAGGTCCCTCTGT
CCTGGCTGGAGTCGCTTTTCATGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCA
GGTAAAGCAAATGAAATTGAAGGACTCGCGCATCAAGCTGATGAGTGAGATCCTGAACGGCATCAAGGTGCTGAA
GCTGTACGCTGGGAGCCCAGCTTCCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCTCCAGCTGCTGCGCAC
GGCGGCTTACCTCCACACCACAACCACCTTACCTGGATGTGCAGCCCCCTTCCTGGTGACCCTGATCACCTCTG
GGTGTACGTGTACGTGGACCCAAACAATGTGCTGGACGCCGAGAAGGCCTTTGTGTCTGTGTCTTGTTTAATAT
CTTAAGACTTCCCTCAACATGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAACGGAT
CCAGCAATTCTGAGCCAAGAGGAACCTTGACCCCCAGAGTGTGGAAAGAAAGACCATCTCCCCAGGCTATGCCAT
CACCATACACAGTGGCACCTTACCTGGGCCCAGGACCTGCCCCCCTCTGTCACAGCCTAGACATCCAGGTCCC
GAAAGGGGCACTGGTGGCCGTGGTGGGGCCTGTGGGCTGTGGGAAGTCTCCCTGGTGTCTGCCCTGCTGGGAGA
GATGGAGAAGCTAGAAGGCAAAGTGCACATGAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAA
CTGCACTCTTCAGGAAAACGTGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTG
TGCCCTTGCTAGCTGACCTGGAGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAAACCTGTC
TGGGGGCCAGCGGCAGCGGGTCAGTCTGGCTCGAGCTGTTTACAGTGATGCCGATATTTTCTTGCTGGATGACCC
ACTGTCCGCGGTGGACTCTCATGTGGCCAAGCACATCTTTGACCACGTCTATCGGGCCAGAAGGCGTGTGTCAGG
CAAGACGCGAGTGTGGTGACGCACGGCATTAGCTTCCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGG
ACAGGTGTCTGAGATGGGCCCCGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACCTTCTCTGCAACTA
TGCCCCCGATGAGGACCAAGGGCACCTGGAGGACAGCTGGACCGCGTTGGAAGGTGCAGAGGATAAGGAGGCACT
GCTGATTGAAGACACACTCAGCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCA
GTTTATGAGACAGCTGAGTGCCCTGTCTCAGATGGGGAGGGACAGGGTCGGCCTGTACCCCGGAGGCACCTGGG
TCCATCAGAGAAGGTGCAGGTGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGG
CACTGTGGAGCTCAGTGTGTTCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCT
GTATGTGGGTCAAAGTGCAGGTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGA
CAGTAGACAGAAACAACACTTCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGAT
GCTGGCAGCCATGGCCATGGCAGCGGTGGCATCCAGGCTGCCCGTGTGTTGCACCAGGCACTGCTGCACAACAA
GATACGCTCGCCACAGTCCTTCTTTGACACCACACCATCAGGCCGCATCCTGAAGTCTTCTCCAAGGACATCTA
TGTCGTTGATGAGGTTCTGGCCCCCTGTCTCCTCATGCTGCTCAATTCCTTCTTCAACGCCATCTCCACTCTTGT
GGTCATCATGGCCAGCACGCCGCTCTTCACTGTGGTCATCCTGCCCTGGCTGTGCTCTACACCTTAGTGACGG
CTTCTATGCAGCCACATCACGGCAACTGAAGCGGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCCACTTTTC
GGAGACAGTGAAGTGGTCCAGTGTCTATCCGGGCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAA

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FIGURE 4895B

GGTGGATGCCAACCAGAGAAGCTGCTACCCCTACATCATCTCCAACCGGTCAGAAGCCGCCTCCCTCGCTCCCTG
CTCCTCCAGGAATTCCCAGCAGGCTCTCTGGTGTTCAGGGTCCTTGTCCCTCCTTTCCCCTAAGCAGAAAACCTGG
CCCTGCCCTGCCCCTGCCCCATTTCCCTCCTCATCTGAATCCCCCATAGGCGGCTGAGCATCGGAGTGGAGTTTCGTG
GGGAAGTGCCTGGTGTCTTTGCTGCACTATTTGCCGTGTCGAGGAGGAGCAGCCTGAACCCGGGGCTGGTGGGC
CTTTCTGTGTCTACTCCTTGCAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATCT
AACATCGTGGCTGTGGAGAGGGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGGAAGGCAGC
CGCCCTCCCGAAGGTTGGCCCCACGTGGGGAGGTGGAGTTCCGGAATTATTCTGTGCGCTACCGGCCGGGCCTA
GACCTGGTGTCTGAGAGACCTGAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGCT
GGCAAGTCTTCCATGACCCTTTGCCGTTCGCGCATCCTGGAGGCGGCAAAGGGTGAAATCCGCATTGATGGCCTC
AATGTGGCAGACATCGGCCTCCATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCCTGTTCTCG
GGGACCCTGCGCATGAACCTGGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTCC
CACCTGCACACGTTTGTGAGCTCCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAGC
GTGGGCCAGAGGCAGCTCGTGTGCCTGGCCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGCC
ACAGCTGCCATCGACCTGGAGACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGTC
CTGACCATCGCACACCGGCTTAACACTATCATGGACTACACCAGGGTCCTGGTCCTGGACAAAGGAGTAGTAGCT
GAATTTGATTCTCCAGCCAACCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGCC
TAAAATATATTCCTGAGATTTCTCCTGGCCTTTCTGTTTTCATCAGGAAGGAAATGACACCAAATATGTCCG
CAGAATGGACTTGATAGCAAACACTGGGGGCACCTTAAGATTTTGACCTGTAAAGTGCTTACAGGGTAACTGT
GCTGAATGCTTTAGATGAGGAAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCAG
TTAGACTAGTCCCCCGGTCTCCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATTT
TATGAAATGACCTCTGTCCTCCCTCTGATTTTTTCATATTTTCTAAAGTTTCGTTTCTGTTTTTAAATAAAAAGC
TTTTTCTCCTGGAACAGAAGACAGCTGCTGGGTGAGGCCACCCCTAGGAACTCAGTCCTGTACTCTGGGGTGTCT
GCCTGAATCCATTAAAAATGGGAGTACTGATGAAATAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4896

MDALCGSGELGSKFWDSNLSVHTENPDLTFCFQNSLLAWVPCIYLVVALPCYLLYLRRHHCRGYIILSHLSKLMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSTLILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
MAIYGYRHPLEEKDLWSLKEEDRSQMVVQQLLEAWRKQEKQTARHKASAAPGKNASGEDEVLLGARPRPRKPSFL
KALLATFGSSFLISACFKLIQDLLSFINPQLLSILIRFISNPMAPSWWGFLVAGLMFLCSMMQSLILQHYYHYIF
VTGVKFRTGIMGVIYRKALVITNSVKRASTVGEIVNLMSVDAQRFMDLAPFLNLLWSAPLQIILAIYFLWQNLGP
SVLAGVAFMVLLIPLNGAVAVKMRAFOVKQMKLKDSRIKLMSEILNGIKVLKLYAWEPSFLKQVEGIRQGELOLL
RTAAYLHTTTTTFTWMCSPFLVTLITLWVYVYVDPNNVLDAEKAFVSVSLEFNILRLPLNMLPQLISNLTQASVSLK
RIQQFLSQEELDPQSVERKTISPGYAITIHSGTFTWAQDLPTLHSLDIQVPKGALVAVVGPEVGCSSLSVSALL
GEMEKLEKGVHMKGSVAYVPQQAWIQNCTLQENVLF GKALNPKRYQQTLEACALLADLEMLPGGDQTEIGEKGIN
LSGGQRQVRVSLARAVYSDADIFLLDDPLSAVD SHVAKHIFDHVIGPEGVLAGKTRVLVTHGISFLPQTDFIIVLA
DGQVSEMGPYPALLQRNGSFANFLCNYAPDEDQGHLEDSWTALEGAEDKEALLIEDTLNHTDLDNDPVTYVVQ
KQFMRQLSALSSDGEGQGRPVPRRHLGPSEKVQVTEAKADGALTQEEKAAIGTVELSVFWDYAKAVGLCTTLAIC
LLYVGQSAAGANVWLSAWTNDAMADSRQNNTSLRLGVYAALGILQGFLVMLAAMAMAAGGIQAARVLHQALLH
NKIRSPQSFFDTPSGRILNCF SKDIYVVDEV LAPVILMLLNSFFNAISTLVVIMASTPLFTVVILPLAVLYTLV
QRFYAATSRQLKRLESVSRSPIYSHFSETVTGASVIRAYNRSRDFEIIISDTKVDANQRSCYPYIISNRSEAASLA
PCSSRNSQQALWCSSLSLLSPKQKTGPALPLPHFLLI

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FIGURE 4897

GTGCTGCCTGGCGCTGGCTAGGAGGCAAACGCACGCGGGAAGAGCTGCTACCCATTCCAGGGACCCTGCCGCTGC
CCCTCTGAGGGGTCTGCACCTCCTGGGAGCAGGTGGGTCTCTGGGACGAGGGTCCATGGTGGATGGCTCTGGAGA
CGCTCCCGAGGCTGTGCCGTCCCGCTGCTGCACAGGTCGGAGGGTCACCGCAGAGGCTACTCGGGCTGGGGCTGG
GGCCGAGGGAGCCCGCACTGGAGCCCCATGTGGAACCCAAGGATGCAGCTGCTCTGCTAACACGGCAGCCCATCC
TTCAAGACTGTGACCTCGCCACAGTGGCCCTCAGCCCTCCACCTCCGGCGGGGGCGAGGGCCACCCACCTCCAAG
TCTCCAGCCATGACGACCTCCGCACTCCGGCGCCAGGTGAAGAACATCGTGCACAATACTACTCCGAGGCAGAAATC
AAGGTGCGCGAGGCCACCAGCAATGACCCCTGGGGCCCCCTAGTTCGCTCATGTCCGAGATCGCTGACCTGACC
TTCAACACAGTGGCCCTTCACCGAAGTCATGGGCATGCTGTGGCGGCGGCTCAATGACAGCGGCAAGAAGTGGCGG
CACGTGTACAAGGCTCTAACATTGCTGGACTACCTGCTCAAGACGGGCTCCGAGCGGGTGGCCCCACCACTGCCGC
GAGAACCTCTACACCATCCAGACACTCAAGGACTTCCAGTACATCGACCGCGACGGCAAGGACCAGGGCGTCAAC
GTGCGCGAGAAGGTCAAGCAGGTGATGGCCCTGCTCAAGGATGAGGAGCGGCTGCGGCAGGAGCGAACCCACGCC
CTCAAGACCAAGGAGCGCATGGCACTGGAGGGCATCGGCATTGGCAGTGGGCAGCTGGGCTTCAGCCGCCGCTAC
GGCGAGGACTACAGCCGCTCCCGGGGCTCCCGTCTCTCACTCCTCCTCTTCGTACCCCCGCTATACCTCC
GACCTGGAGCAGGCCCCGGCCTCAGACGTCAGGGGAAGAGGAAGTGCAGCTGCAGCTGGCCCTCGCCATGAGCCGT
GAGGAGGCAGAGAAGCCTGTCCCCCAGCCTCCACAGGGACGAGGACCTGCAGCTGCAGCTGGCTCTGCGCCTG
AGCCGGCAGGAGCACGAGAAGGAGGTGAGGTCTTGGCAGGGTGATGGCTCCCCATGGCCAATGGTGCAGGGGCC
GTGGTCCACCATCAGCGGGACAGAGAGCCTGAGAGAGAAGAGAGAAAGGAGGAGGAGAAGCTAAAAACAGCCAG
TCCTCCATCCTGGACTTGGCTGACATCTTCGTACCTGCCCTGGCCCCGCCCTCCACACACTGCTCTGCTGACCCA
TGGGACATCCCAGGTTTTAGGCCGAACACAGAGGCCAGTGGATCCTCCTGGGGGCCTTCTGCAGACCCCTGGTCT
CCGATCCCCCTCAGGAACCGTCTGTCCCGAAGCCAGCCCTGGGATCTGACTCCCATGCTCTCCTCCTCTGAGCCC
TGGGGCAGGACCCCACTGCTGCTGCTGGGCCCCCACCACAGACCCCTGGGGCCTGAACTCTCCCCACCACAAA
CTCCCCAGCACTGGGGCTGACCCTTGGGGAGCCTCCCTGGAGACCTCCGACACACCTGGTGGTGCCTCGACCTTT
GACCCATTTGCCAAACCTCCAGAATCCACAGAGACCAAGGAGGGGCTGGAGCAGGCCCTGCCCTCTGGGAAGCCC
AGCAGCCCTGTGGAGCTGGACCTGTTTGGAGACCCAGCCCCAGTTCCAAGCAAAATGGCACGAAGGAGCCAGAT
GCCCTGGACCTGGGCATACTAGGGGAAGCACTAACCAGCCAAGCAAAAGAGGCCCGAGCTTGCCGGACTCCCGAG
TCCTTCCTGGGTCCCTCAGCTTCCTCCTTGGTCAACCTTGACTCGTTGGTCAAGGCACCCAGGTTGCAAAGACC
CGGAACCCCTTCCTGACAGGTCTCAGCGCTCCGTCCCCACCAACCCGTTTCGGCGCGGGCGAGCCGGGCAGGCCG
ACGCTAAACCAGATGCGCACCGGCTCGCCGGCGCTGGGCCTGGCAGGCGGGCCTGTGGGGGCGCCCCCTGGGCTCC
ATGACCTACAGCGCCTCTCTGCCCCCTCCCGCTCAGCAGCGTGCCAGCTGGCTTGACCTCCCGCCTCGGTTAGC
GTCTTCCCGCAGGCCGGAGCCTTCGCACCGCAGCCGCTGCTGCCCACGCCGAGCTCAGCCGGGCGCGGCCCCCG
CCCCCGCAGACCGGCACCAACCCCTTCCTCTGAGCCCCGCCCGTCCCATACCGGCTGCGCCTGCGCCGGACGC
TCCGCGGCCCGCCTCCGGACCCGGGGCTGGGCGGGGCGCCGCTGCTAGTGAACGCCGAGCCAGTGGCGGCTGG
TATCCCGCGGCGGCTCTGGAAGCTGGACGCGGACCACGGCCCGGGAGCTAGAACTGAACGCCCGCATAATAAAG
ACTGGAACCCCTCGTTCTCAGCTCTCACCAAGTGGACTTTTTGCGGGGTGTGGCGGCCGGGTCTCGACCACAGCGT
GGATCACCGGCTGTTTAGGAAACTGCAGCTGCACAACGTGGGGTGCAAACTGCCCGCTTCCTTTACAGCTCTT
CTCAACCTCACCTCCATCCCCCGTCACCCAGGCACCTTCGCTTCAGATGCTGCCAGGCTGTCACTCAATTCCG
TCATTTCAATTCATTTATCACACATGGGCACTGGGGTTGGGCTAACAGCAAGAGACAATAGGCCTTTGTTCTATT
TATTGGGTACTGCTTACGTGCTAAGCAGATCAGTTTATTTAATGCTTGCAACGACTCTCTGAGGTAGAAAATATT
GTTAATTCCGTTCAGGATCCCGGCTACATAATCTGTGGGGCTCAATACAAAATAAAAAATGTAGGGGCTCCTTGTT
C

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FIGURE 4898

GTGATCCCTGCGCGCGTCTCCTGCTCGGGTCAGTGCGCCGCGCTGCGCTGGGCGCC**ATGG**CGCTCCCCGGAGCCC
GGGCTCGCGGGCTGGGCGGCAGCAGCCAGAGCGGGCCAGAGGCGCCGCGCGTGGAGAACGCAGGAGGGTCCCCGA
GTCCTGAGCCTGCGGGCCGGCGCGCGGCGCTTTACGTACACTGGCCTTACTGCGAGAAGCGCTGCAGTTACTGCA
ACTTCAACAAGTACATCCCTCGCCGCTGGAGGAGGCTGCCATGCAGAAGTGTCTGGTGACCGAAGCTCAGACGC
TGCTGCGGCTCAGCGGGGTGCAACGGGTGGAGTCTGTGTTCTTTGGTGGGGGACCCCCAGTCTAGCCAGTCCCC
ACACGGTGGCTGCTGTCTGGAGGCTGTGGCACAGGCAGCCACCTGCCTGCAGACTTGGAAGTCACATTGGAGG
CTAATCCTACTTCAGCTCCGGGCTCCAGACTGGCAGAGTTTCGGGGCAGCAGGGGTAAACAGGTTGTCTATAGGCC
TCCAGTCCCTAGATGACACTGAGCTCCGGCTGTTGGGACGGACGCACTCGGCCTGCGATGCTCTGCGGACGCTGG
CAGAGGCCCCGGCGCCTCTTTCCCGGGCGCGTGTCTGTAGACTTGATGCTGGGGCTGCCGGCACAGCAGGTGGGGC
CGTGCTTGGGCAGCTGCAGGAAGTGTGCACCACTGTGATGACCACCTCTCCCTCTACCAGCTGTCCCTGGAGC
GGGGCACCGCACTCTTCGCCCAGGTGCAGCGGGGTGCCCTTCCAGCCCCCTGACCCGGAGCTCGCAGCTGAGATGT
ACCAGAGGGGGCCGGGCTGTCTTCGGGAGGCTGGCTTCCACCAGTATGAGGTCTCCAACCTTTGCCCCGAATGGGG
CGCTCAGTACCCACAATTGGACTTACTGGCAGTGTGGTCAGTACCTTGGCGTTGGGCCTGGGGCCCATGGACGAT
TTATGCCCCAGGGGGCTGGAGGCCACACCCGGGAGGCTCGGATCCAGACACTGGAGCCTGACAACTGGATGAAGG
AGGTGATGCTGTTTGGCCATGGCACCCGGAAGCGTGTCCCCCTGGGCAGGCTGGAGCTGCTGGAGGAAGTTTGG
CCCTGGGGCTACGCACCGATGTGGGGATCACTCACCAGCACTGGCAGCAGTTTGAGCCCCAGCTGACCCCTGTGGG
ATGTGTTTGGAGCGAACAAGGAGGTGCAGGAGCTGCTGGAGCGGGCCTACTGCAGCTGGATCACAGGGGTCTTC
GGTGTTCCTGGGAGGGTCTGGCTGTGCTGGACTCTCTCTGCTGACCCTCCTGCCTCAGCTCCAAGAAGCCTGGC
AGCAGAGAACCCCCCTCCCTGTGCCAGGAGGAT**TGAC**AAAAATGTTCTGTGTTCCAGGGTAATGCCAGGTGGGTT
TTGAGAGCTGGGTCGGTACTGCAGACATCTCTTCTCCGTTGTGCGGGTGCCGTCTCTGCTCCTTGTGGTTATTGCT
CAGCCCTGGCATCCCCAGGGGAATGGCAGCAGTGAGGTAGATGGGAGGACATTTCTGGTCAGGGAAGTGGCATCC
CATTGAGCATCTCAGGACTCACAGGCCAACATGTGTTCCATGGCTGGGAATTGCCTACCACCCACATCAGCTTCT
GTTTACCTTTTTGGCATCAAATAATGAACAGTGTGTTGAAATCTTTCTACAGGCAATTACCTCCCCAAGAGAAGC
CTTCCTTATTTTGGAGTAAGGTCCTAAGATAGCTGGATGAATCAGGAAAACCATGTCCCTCTAGGTATTATTAA
TATTAGCAGGAAGGGATCTACTATAGGAATGAAGTATTTATAAACCACTGAAAGGGATAGAGAAGTGAACATTGG
AGAAAGCCAGTAGCAACTGTGAGAAATCAGCAACTTGCCAGGAGGCACAGAAAACCTCCTGCTGATGGTCTCAGCTT
CCAGCAGCACAAAAGCAGATGATGTACTGGAAAATGCTCAGAAGATGCTACAAAACCTCATGCCTACTGTCTGCC
ACTGCTGGAGAAGGAATCATGGTTTCTAGAAGTGCCTCTCATTAGTGGAATTTAAAGCAAATCCTGGCTGGCAGG
AAATTCTGAGGAATATAGCTCTTAGGCTTCCAGCCTCTACCATGCAGGAGAGAACACAGAAGGACTGATGTATGT
TGGTGGATCCATGTATGTGTCCAGCACAGCGCCTGCTGGACTCTGAGAACTGGGAAAGATCAGAGCAAGCCTTG
CCTCTTATCTTCGGGAAACCAGAATAIGTTTGGGGTGGTAGGAGCCACACAGACTCTTCTGAGCCCCCTCACTCA
CTTCCTTCCCCCTGTGCCTTTCCCTTTGAGAGTGAAGGTGGGTGGAGTTGACCAGAGAAAGGGGAGAGAATTGGG
AAAGACCCAAAGTGTGTTGTAATCTTCTTTGTCCTTTTACCTACAGAAATGGTCACATGGTCTATTTAAATAGC
CTAATAACACATCTGGAGCCTGT

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FIGURE 4899

MALPGARARGWAAAAAAQRRRRVENAGGSPSPPEPAGRRAALYVHWPYCEKRCSYCNFNKYIPRRLEEAAMQKCL
VTEAQTLRLRLSGVQRVESVFFGGGTPSLASPHTVAAVLEAVAQAHLPADLEVTLLEANPTSAPGSRLAEFGAAGV
NRLSIGLQSLDDTELRLGRTHSACDALRTLAEARRLFPGRVSVDLMLGLPAQQVGPWLGQLQELLHHCDDHLSL
YQLSLERGTALFAQVQRGALPAPDPPELAAEMYQRGRAVLREAGFHQYEVSNFARNGALSTHNWTYWQCGQYLGVG
PGAHGRFMPQGAGGHTREARIQTLEPDNWMKEVMLFGHGTRKRVPLGRLELLEEVLAALGLRTDVGITHQHWQQFE
PQLTLWDVFGANKEVQELLERGLLQLDHRGLRCSWEGLAVLDSLLLTLLPQLQEAWQQRTSPSPVPGG

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FIGURE 4901

MKAVQADQERERQRRLEVEREAEKKREAKQRAKEAQERELRKREKAEFEKERRRKEYDALKAAKREQEKKPKKEAN
QAPKSKSGSRPRKPPPRKHTRSWAVLKLLLLLLLFVAGGLVACRVTELQQPLCTSVNTIYDNAVQGLRRHEIL
QWVLQTDSSQ

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FIGURE 4902A

AGGTGAACAGGTCTCTACGCCCAGCTCCGCGCCCTCACGCGCTCTCGCCGGGACCCCGCTTCCGCTGGCAGCCAT
GGGCCCCGGCCCCAGCCGCGCGCCCCGCGCCCCACGCCTGATGCTCTGTGCGCTCGCCTTGATGGTGGCGGCCGG
CGGCTGCGTCTCTCCGCTTCAACCTGGATAACCGATTCTTGGTAGTGAAGGAGGCCGGGAACCCGGGCAGCCT
CTTCGGCTACTCGGTGCGCCTCCATCGGCAGACAGAGCGGCAGCAGCGCTACCTGCTCCTGGCTGGTCCCCCGG
GGAGCTCGCTGTGCCCAGTGGCTACACCAACCGGACTGGTGTGTGTACCTGTGCCCCTACTGCCACACAAGGA
TGACTGTGAGCGGATGAACATCACAGTGAATAATGACCCTGGCCATCACATTATTGAGGACATGTGGCTTGGAGT
GACTGTGGCCAGCCAGGGCCCTGCAGGCAGAGTTCTGGTCTGTGCCCACCGCTACACCCAGGTGCTGTGGTCAGG
GTCAGAAGACCAGCGGCGCATGGTGGGCAAGTGTACGTGCGAGGCAATGACCTAGAGCTGGACTCCAGTGATGA
CTGGCAGACCTACCACAACGAGATGTGCAATAGCAACACAGACTACCTGGAGACGGGCATGTGCCAGCTGGGCAC
CAGCGGTGGCTTACCCAGAACACTGTGTACTTCGGCGCCCCCGGTGCTTACAACCTGGAAAGGAAACAGCTACAT
GATTCAGCGCAAGGAGTGGGACTTATCTGAGTATAGTTACAAGGACCCAGAGGACCAAGGAAACCTCTATATTGG
GTACACGATGCAGGTAGGCAGCTTCATCCTGCACCCCAAAAACATCACCAATTGTGACAGGTGCCCCACGGCACCG
ACATATGGGCGCGGTGTTCTTGTCTGAGCCAGGAGGCAGGCGGAGACCTGCGGAGGAGGCAGGTGCTGGAGGGCTC
GCAGGTGGGCGCCTATTTTGGCAGCGCCATTGCCCTGGCAGACCTGAACAATGATGGGTGGCAGGACCTCCTGGT
GGGCGCCCCCTACTACTTCGAGAGGAAAGAGGAAGTAGGGGGTGCCATCTATGTCTTCATGAACCAGGCGGGAAC
CTCCTTCCCTGCTCACCCCTCACTCCTTCTTCATGGCCCCAGTGGCTCTGCCTTTGGTTTATCTGTGGCCAGCAT
TGGTGACATCAACCAGGATGGATTTCAGGATATTGCTGTGGGAGCTCCGTTTGAAGGCTTGGGCAAAGTGTACAT
CTATCACAGTAGCTCTAAGGGGCTCCTTAGACAGCCCCAGCAGGTAATCCATGGAGAGAAGCTGGGACTGCCTGG
GTTGGCCACCTTCGGCTATTCCCTCAGTGGGCAGATGGATGTGGATGAGAACTTCTACCCAGACCTTCTAGTGGG
AAGCCTGTGACACCACATTGTGCTGCTGCAGGGCCCGGCCGTCATCAACATCGTCCACAAGACCTTGGTGCCCA
GGCCAGCTGTGCTGGACCCCTGCACTTTGCACGGCCACCTCTTGTGTGCAAGTGAGCTGTGCTTTGCTTACAACC
AGAGTGCCGGGAACCCCAACTACAGGCGAAACATCACCCCTGGCCTACACTCTGGAGGCTGACAGGGACCGCCGGC
CGCCCCGGCTCCGCTTTGCCGGCAGTGAGTCCGCTGTCTTCCACGGCTTCTTCTCCATGCCCGAGATGCGCTGCC
AGAAGCTGGAGCTGCTCCTGATGGACAACCTCCGTGACAAACTCCGCCCCATCATCATCTCCATGAACCTACTCTT
TACCTTTGCGGATGCCCCGATCGCCCCGGCTGGGGCTGCGGTCCCTGGACGCTACCCGATCCTCAACCAGGCAC
AGGCTCTGGAGAACCACACTGAGGTCCAGTTCCAGAAGGAGTGCGGGCTGACAACAAGTGTGAGAGCAACTTGC
AGATGCGGGCAGCCTTCGTGTCAGAGCAGCAGCAGAAGCTGAGCAGGCTCCAGTACAGCAGAGACGTCCGGAAAT
TGCTCCTGAGCATCAACGTGACGAACACCCGACCTCGGAGCGCTCCGGGGAGGACGCCACGAGGCGCTGCTCA
CCCTGGTGGTGCTTCCCGCCCTGCTGCTGTCTCCTCAGTGCGCCCCCCCCGGGGCTGCCAAGCTAATGAGACCATCT
TTTGCGAGCTGGGGAACCCCTTCAAACGGAACAGAGGATGGAGCTGCTCATCGCCTTTGAGGTCTCGGGGTGA
CCCTGCACACAAGGGACCTTCAGGTGCAGCTGCAGCTCTCCACGTCGAGTCACCAGGACAACCTGTGGCCCATGA
TCCTCACTCTGCTGGTGGACTATACACTCCAGACCTCGCTTAGCATGGTAAATCACCGGCTACAAAGCTTCTTTG
GGGGACAGTGATGGGTGAGTCTGGCATGAAAATGTGGAGGATGTAGGAAGCCCCCTCAAGTATGAATTCCAGG
TGGGCCCCAATGGGGGAGGGGCTGGTGGGCCTGGGGACCTGGTCCTAGGTCTGGAGTGGCCCTACGAAGTCAGCA
ATGGCAAGTGGCTGCTGTATCCACGGAGATCACCGTCCATGGCAATGGGTCTGGCCCTGCCGACCACCTGGAG
ACCTTATCAACCCCTCTCAACCTCACTCTTTCTGACCCTGGGGACAGGCCATCATCCCCACAGCGCAGGCGGGCAG
AGCTGGATCCAGGGGAGGCCAGGGCCCCCACCTGTCACTCTGGCTGCTGCCAAAAAGCCAAGTCTGAGACTG
TGCTGACCTGTGCCACAGGGCGTGCCCACTGTGTGTGGCTAGAGTGCCCCATCCCTGATGCCCCGTTGTACCA
ACGTGACTGTGAAGGCACGAGTGTGGAACAGCACCTTCATCGAGGATTACAGAGACTTTGACCGAGTCCGGGTAA
ATGGCTGGGCTACCCTATTCTCCGAACCAGCATCCCCACCATCAACATGGAGAACAAAGACCACGTGGTTCTCTG
TGGACATTGACTCGGAGCTGGTGGAGGAGCTGCCGGCCGAAATCGAGCTGTGGCTGGTGTGGTGGCCGTGGGTG
CAGGGCTGCTGCTGCTGGGGCTGATCATCCTCCTGCTGTGGAAGTGTGACTTCTTTAAGCGGACCCGCTATTATC
AGATCATGCCCAAGTACCACGCAGTGGGATCCGGGAGGAGGAGCGCTACCCACCTCCAGGGAGCACCTGCCCA
CCAAGAAGCACTGGGTGACCAGCTGGCAGACTCGGGACCAATACTACTGACGTCCTCCCTGATCCCACCCCTCC
TCCCCAGTGTCCTTTCTTCTATTTATCATAAGTTATGCCTCTGACAGTCCACAGGGGCCACACCTTTGGC
TGGTAGCAGCAGGCTCAGGCACATACACCTCGTCAAGAGCATGCACATGCTGTCTGGCCCTGGGGATCTTCCCAC
AGGAGGGCCAGCGCTGTGGACCTTACAACGCCGAGTGCACTGCATTCTGTGCCCTAGATGCACGTGGGGCCAC
TGCTCGTGGACTGTGCTGGTGCATCACGGATGGTGCATGGGCTCGCCGTGTCTCAGCCTCTGCCAGCGCCAAAAC

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FIGURE 4902B

AAGCCAAAGAGCCTCCCACCAGAGCCGGGAGGAAAAGGCCCTGCAATGTGGTGACACCTCCCCCTTTCACACTG
GATCCATCTTGAGCCACAGTCACTGGATTGACTTTGCTGTCAAACTACTGACAGGGAGCAGCCCCGGGCGCT
GGCTGGTGGGCCCCCAATGACACCCATGCCAGAGAGGTGGGGATCCTGCCTAAGGTTGTCTACGGGGGCATTGG
AGGACCTGGCGTGCTCAGACCCAACAGCAAAGGAACTAGAAAAGGAGCCAGAACGGCTTGCTTTCTGCATCT
CTGTGAAGCCTCTCTCCTTGGCCACAGACTGAACTCGCAGGGAATGCAGCAGGAAGGAACAAAGACAGGCAAACG
GCAACGTAGCCTGGGCTCACTGTGCTGGGGCACGGCGGGATCCTCCACAGAGAGGAGGGGACCAATTCTGGACAG
ACAGATGTTGGGAGGATACAGAGGAGATGCCACTTCTCACTCACCCTACCAGCCAGCCTCAGAAGGCCCCAGAG
AGACCTTGCAAGACCACGGAGGGAGCGACACTTGAATGTAGAATAGGCAGGGGGCCCTGCCCCACCCCATCCAGC
CAGACCCACGCTGACCATGCGTCAGGGGCCTAGAGGTGGAGTTCTTAGCTATCCTTGGCTTTCAGAGCCAGCCT
GGCTCTGCCCCCTCCCCATGGGCTGTGTCTAAGGCCCATTTGAGAAGCTGAGGCTAGTTCCAGAAAACCTCTC
CTGACCCCTGCCTGTTGGCAGGCCCACTCCCCAGCCCCAGCCCCTTCCATGGTACTGTAGCAGGGGAATTCCCTC
CCCCCTCCTTGTGCCTTCTTTGTATATAGGCTTCTCACGGCGACCAATAAACAGCTCCCAGTTTGT

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FIGURE 4903

GACAATATCAGGTGAGCTGTGGAGGTGGGGTCCTTGAAGCTGGATGACAGCAGCTGGCAAGGGGATAAGAGAGC
AGTGAGCCCCCTCCCTCAAGGAGGTCTGGCTTTATCCATAGACAGGGCCCTCTGAGGTGGGGCTGAGGTACAAAGG
GGGATTGAGCAGCCCAGGAGAAGAGAGATGAGGGGGTTCCCTTCTTCTCTTCTCTCAGATGCATGGTGGACTTAGGA
CCTTGCTGGGGCTGGGGGTCTCACTGCAGAGATGAAGCTGCTTCTGGCCCTAGCAGGGCTCCTGGCCATTCTGGCC
ACGCCCCAGCCCTCTGAAGGTGCTGCTCCAGCTGTCTGGGGGAGGTGGACACCTCGTTGGTGTGAGCTCCATG
GAGGAGGCCAAGCAGCTGGTGGACAAGGCCTACAAGGAGCGGCGGAAAGCATCAAGCAGCGGCTTCGCAGCGGC
TCAGCCAGCCCCATGGAATCCTATCCTACTTCAAGCAGCCGGTGGCAGCCACCAGGACGGCGGTGAGGGCCGCT
GACTACCTGCACGTGGCTCTAGACCTGCTGGAGAGGAAGCTGCGGTCCCTGTGGCGAAGGCCATTCAATGTCAT
GATGTGCTGACGCCCCGCCAGCTGAATGTGTTGTCCAAGTCAAGCGGCTGCGCCTACCAGGACGTGGGGGTGACT
TGCCCGGAGCAGGACAAATACCGCACCATCACCGGGATGTGCAACAACAGACGCAGCCCCACGCTGGGGGCTCC
AACCGTGCCTTTGTGCGCTGGCTGCCGGCGGAGTATGAGGACGGCTTCTCTCTTCCCTACGGCTGGACGCCCGG
GTCAAGCGCAACGGCTTCCCGGTGGCTCTGGCTCGCGCGGTCTCCAACGAGATCGTGCCTTCCCCACTGATCAG
CTGACTCCGGACCAGGAGCGCTCACTCATGTTTATGCAATGGGGCCAGCTGTTGGACCACGACCTCGACTTCACC
CCTGAGCCGGCCGCCCGGGCCTCCTTCGTCACCTGGCGTCAACTGCGAGACCAGCTGCGTTCAGCAGCCGCCCTGC
TTCGCCGCTCAAGATCCCGCCCAATGACCCCCGCATCAAGAACCAAGCCGACTGCATCCCGTTCTTCCGCTCCTGC
CCGGCTTGCCCCGGGAGCAACATCACCATCCGCAACCAGATCAACGCGCTCACTTCCTTCGTGGACGCCAGCATG
GTGTACGGCAGCGAGGAGCCCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGGCTGCTGGCCGTCAAC
CAGCGCTTCCAAGACAACGGCCGGGCCCTGCTGCCCTTTGACAACCTGCACGATGACCCCTGTCTCCTACCAAC
CGCTCAGCGCGCATCCCCCTGCTTCCTGGCAGGGGACACCCGTTCCAGTGAGATGCCCGAGCTCACCTCCATGCAC
ACCCTCTTACTTCGGGAGCACAACCGGCTGGCCACAGAGCTCAAGAGCCTGAACCCTAGGTGGGATGGGGAGAGG
CTCTACCAGGAAGCCCCGAAGATCGTGGGGGCCATGGTCCAGATCATCACTTACCGGGACTACCTGCCCTGGTG
CTGGGGCCAACGGCCATGAGGAAGTACCTGCCACGTACCGTTCTTACAATGACTCAGTGGACCCACGCATCGCC
AACGTCTTACCAATGCCTTCCGCTACGGCCACACCCTCATCCAACCCTTCATGTTCCGCTGGACAATCGGTAC
CAGCCCATGGAACCCAACCCCGTGTCCCCCTCAGCAGGGTCTTTTTTGCCTCCTGGAGGGTCGTGCTGGAAGGT
GGCATTGACCCCATCCTCCGGGGCCTCATGGCCACCCCTGCCAAGCTGAATCGTCAGAACCAATTGCAGTGGAT
GAGATCCGGGAGCGATTGTTTGTGAGCAGGTGATGAGGATTGGGCTGGACCTGCCTGCTCTGAACATGCAGCGCAGC
AGGGACCACGGCCTCCAGGATACAATGCCCTGGAGGCGCTTCTGTGGGCTCCCGCAGCCTGAAACTGTGGGCCAG
CTGGGCACGGTGCTGAGGAACCTGAAATTGGCGAGGAACTGATGGAGCAGTATGGCACGCCCAACAACATCGAC
ATCTGGATGGGCGCGTGTCCGAGCCTCTGAAGCGCAAAGGCCGCGTGGGCCCCACTCCTCGCCTGCATCATCGGT
ACCCAGTTTCAGGAAGCTCCGGGATGGTGATCGGTTTTTGGTGGGAGAACGAGGGTGTGTTTACAGCATGCAGCAGCGA
CAGGCCCTGGCCAGATCTCATTGCCCCGGATCATCTGCGACAACACAGGCATCACCAACCGTGTCTAAGAACAAC
ATCTTCATGTCCAACCTCATATCCCCGGGACTTTGTCAACTGCAGTACACTTCCTGCATTGAACCTGGCTTCTCTGG
AGGGAAGCCTCCTAGAGGCCAGGTAAGGGGGTGCAGCAGTGAGGGGTATATCTGGGCTGGCCAGTTGGAACCAG
GAGATCTCCTTGCCCTAGATGAGCCAGCCCTGTTCTGGGTGCAGCTGAGAAAATGAGTGAAGTACTAGACGTTTCAATTT
GTGTGCTCATGTATGTGCGAAGTATATAAATTGGCTTTTTTATGCGTGTGTGTTGTCTGAACATGGGGAGTGTTC
ATGGGTTATGTGTATGTGCCATTTATGTGAGTGTGTGTTTGTGCTGATGAGAATACTGAGTATGTGGAAGGCAGC
AGAGCGGACTGGTGAGGAGCACAGCTCAGGAAGTAGACTGCCTGGGTTCCAATCCTGGCTCTGTGGCTTGCTAGC
TATGTGACCTTGAGCAAATTACCCTCCTTAAACAAGAGTTTTTCTTCTTGTAAATTACATCTGTCTATGGTTTTCTT
GGAGGGCCCACTTGTATCCTCTGGTTCTTCAATTTATTGAGCACCTACTACATGCAAGGCACTGTACTAGGCGTGA
GAAGCATATAGAGGCAAGAAAGAGATACCAAGATGCCATCTGTGTCTGTTAGCAGAGCTGGACCAGTGGTGCC
TTGGAGGGATAAGCCAGCTGCAGCTGGGCTGTGTGTTGACTTATGGGCCCAGCCAGCCAGGCTCAGGCCATGGC
TCCCCTTTTTCTTCTCACCTGATTTCTTGCTTATTCACTGAAGTTCTCCTGAAGAGGAAGTGGGCTGTGGC
CTTTCTGTACCATTTATTTGCTCCCAATGTTTATGATAATAAAGGCACCGCTGATGGGGACCTCC

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FIGURE 4904

MGVPPFFSSLRCMVDLGPCWAGGLTAEMKLLALAGLLAILATPQPSEGAAPAVLGEVDTSLVLSSMEEAKQLVDK
AYKERRESIKQRLRSGSASPMELLSYFKQPVAAATRTAVRAADYLHVALDLLERKLRSLWRRPFNVTDVLTTPAQLN
VLSKSSGCAYQDVGVTCPEDKYRTITGMCNNRRSPTLGASNRAFVRWLP AEYEDGFSLPYGWTPGVKRNGFPVA
LARAVSNEIVRFPTDQLTPDQERSLMFMQWGQLLDHDLDTPEPAARASFVTGVNCETSCVQQPPCFPLKIPPND
PRIKNQADCIPFFRSCPACPGSNITIRNQINALTSFVDASMVYGSEELARNLRNMSNQLGLLAVNQRFQDNGRA
LLPFDNLHDDPCLLTNRSARIPCFLAGDTRSEMPELTSMHTLLLREHNRLATELKS LNPRWDGERLYQEARKIV
GAMVQIITYRDYLPVLGPTAMRKYLPTYRSYNDSDPRIANVFTNAFRYGH TLIQPFMFRLDNRYQPMENPRV
PLSRVFFASWRVLEGGIDPILRGLMATPAKLN RQNQIAVDEIRERLFEQVMRIGLDLPALNMQRSDHGLPGYN
AWRRFCGLPQPETVGQLGTVLRNLKLARKLMEQY GTPNNIDIWMGGVSEPLKRKGRVGPLLACIIGTQFRKLRDG
DRFWWENEGVFSMQQRQALAQISLPRIICDNTGITTVSKNNIFMSNSYPRDFVNCSTLPALN LASWREAS

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FIGURE 4905

TTCTTCCGCTCCTGCCCCGGCTTGCCCCGGGAGCAACATCACCATCCGCAACCAGATCAACGCGCTCACTTCCTTC
GTGGACGCCAGCATGGTGTACGGCAGCGAGGAGCCCCCTGGCCAGGAACCTGCGCAACATGTCCAACCAGCTGGGG
CTGCTGGCCGTCAACCAGCGCTTCCAAGACAACGGCCGGGCCCTGCTGCCCTTTGACAACCTGCACGATGACCCC
TGTCTCCTCACCAACCGCTCAGCGCGCATCCCCTGCTTCCTGGCAGGTCAGCTTTGGGGTGGGGACCAGAGGTGG
CATAGGAGATGTTCCCTGTTGGAGCCACAGGGACACCCGTTCCAGTGAGATGCCCGAGCTCACCTCCATGCACAC
CCTCTTACTTCGGGAGCACAAACGGCTGGCCACAGAGCTCAAGAGCCTGAACCCTAGGTGGGATGGGGAGAGGCT
CTACCAGGAAGCCCGGAAGATCGTGGGGGCCATGGTCCAGGTAGGCCGTCTTGAACACCGGGCACACGGGATCCA
GATGTGTCCCTGCAACATCCTAGCTGTGTGACCTTGGGCAAGTTCCTAACGCTCCTGAGCCTTGCCTTCTTCATC
CATGAGGCTGTAAGGATTATAATACATATATGAAAAACACCTTTCAGATAGTAAGTGCTTGACAAAAGCCTCCTTCC
CTTCCCTCTCCTTCTTCGCAGGTTTGCTCCCTGCAGTCTTCTTTCCCTGTGGGTCTGTTATTGGTGTGGGAGGGT
TGAATGTTTGGTTTAGCGCCCAAGTAGCTGTTTCAGTAAATTCTTCTTCCCTCCATCTCACTGTCACTCTTAGCTC
CTTTACCCACTCACCTCTTCTTTTTTAAATTAATAAAAAATTATAGGGCTGGGCGCGGTGGCTCATGCCTGTAATCC
CAGCACTTTGGGAGGCGGAGGCGGGTGGATCACGAGGTCAGGAGATCAAGACCATGCTGGCTAACACGGTGAAAC
CCCATCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATGGCGTGAACCTGGCTGGAGTGCAGTGGTGCATCTTGGCTCACTGCAACCTCCACCTTTCAG
GCTCAAGCCATTCTCCC

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FIGURE 4906

AGCCAGTTTGAAGTAGATCTGTACCAAAATGAAACAGCCTGTCAGAGTCCTTTGGATTATCAGTACCGTCAGGAG
ATCCTGAAGCTGGAGAATTCGGGTGGCAAGAAAAACCGACGAATCTTTACCTACACTGACTCTGATAGATACACC
AATTTGGAGGAGCACTGTCAGAGAATGACCACTGCAGCCAGCGAGGTGCCTTCATTCTTGGTCGAGCGAATGGCA
AATGTCAGGCGTCGCCGGCAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACGCATCGTCACCTGGGAG
CCCTCAGAAGAGTTTGTGTCAGGAACAACCACGTCATTAACACCCCTCTTCAGACAATGCACATCATGGCAGACCTG
GGGCCCTATAAAAAGCTTGGCTATAAGAAGTATGAACATGTCTGTGTACTCTGAAGGTGGATAGCAATGGTGTG
ATCACAGTAAAGCCTGACTTCACGGGCCTCAAAGGACCCCTACAGGATTGAGACGGAGGGGGAGAAGCAGGAGCTG
TGGAAATATACGATCGACAATGTTTCCCCCACGCACAGCCGGAGGAGGAGGAGCGGGAACGGCGAGTGTTCAAG
GATCTTTATGGCCGGCACAAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGATGACTGTCCAGGTGCC
CTCCGGCTCTTTGTAAATGGAGAGGTGCTTTAGCCCCAAGGCTATGAGTATGACAATCTCTACGTCCACTTCTTT
GTAGAATTGCCAACTGCTCACTGGTCAAGCCCAGCATTCCAGCAGCTCTCAGGAGTAACACAGACCTGCACCACC
AAGTCCCTGGCAATGGACAAGGTGGCTCACTTCTCCTACCCATTACGTTTGAAGCCTTCTTCTCCATGAGGAT
GAATCTTCTGATGCACTCCCGGAGTGGCCTGTGCTCTACTGTGAGGTCTCTCGCTGGACTTCTGGCAGAGGTAC
CGTGTTGGAAGGCTATGGGGCTGTGGTGCTGCCTGCCACTCCAGGCTCACACACCCTGCAGTCTCCACGTGGAGA
CCTGTGGAGCTTGGCACGGTGGCTGAGCTGAGGAGGTTTTTCATTGGCGGTTCTCTGGAACCTGGAGGACCTCTCC
TATGTACGGATACCAGGATCCTTCAAGGGGGAACGCCTGAGCCGCTTTGGACTCCGCACAGAGACCACAGGCACT
GTCACCTTCCGCTTGCACTGTCTGCAGCAGTCCAGGGCCTTCATGGAATCGAGCTCCCTTCAGAAAAGGATGCGG
AGTGTGTTGGACCGTCTGGAAGGGTTAGCCAGCAGAGTTCCATTACAATGTGCTAGAGGCCTTCCGTCGAGCC
CGGCGCCGCATGCAGGAGGCCCGGGAAGCCTCCCGCAGGACCTAGTGAGCCCCTCTGGAACCCTGGTCTCCTAG

CTCACAGCAGCCCTGGCCACAGTGCAAGAGGACAAGATGGGGGATATCTGAGGCCAGTGCTCTCCTGCCTCTTC
GTCTTTCTGATTAGAGACCACGTTGGTCTGCTGAGAACCAGAAAAGCTGGGAAATTCGCCGGCTGGCCCCCTCTGCC
TAGCCTTCTGCAGGGTCTTCTCCCTACCCTGTGGAAATAAAGCCAGAGACCCTGTGGCCCCCCCCCTTTATATTGTC
AGCCACTGTCAGATGGGCATCACAGCAAGGCAGGCTTTTTGATCTGAAGCTGTTTGGGGTGACCCCATAGTGAGT
CTGGCCTTGACTCACTTTTCTGGCTTGTA CTACAGTAGCAGGGGATCTGCTGTTCTCCACCCTTTAAAAATGGA
GCCTTTTCATCTTCCAAGACCAAGAAGGAAGGAAGGTGGACGGTGAGAGGGTCTTAAATCCCCAGCCTGTGAGTC
TCAGCCTCTTTCCAGGGAAGCCTCATTCTACTGCTTGGGGCTTGCTGAGGTTGAGATATGAGTTATTTCTGAGTA
AGTGAAGGCTGAAGGCAGTGCTGAGTCCTTTCTGCTAGCTGGGTGGTATCTTTTACTGTGTTTTTTTGTGTTT
GTTTTTTTTGTTTTTTGTACATAAACCCCTTTTATTTTGGAAAAAAAAAAAAAAAAA

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FIGURE 4907

MTTAASEVPSFLVERMANVRRRRQDRRGMEGGILKSRIVTWEPSEEFVRNNHVINTPLQTMHIMADLGPYKKLG
KKYEHVLCTLKVD SNGVITVKPDFTGLKGPYRIETEGEKQELWKYTIIDNVSPHAQPEEEERERRVFKDLYGRHKE
YLSSLVGTDFEMTVPGALRLFVNGEVVSAQGYEYDNLVHFFVELPTAHWSSPAFQQLSGVTQTCTTKSLAMDKV
AHFSYPFTFEAFFLHEDESSDALPEWPVLYCEVLSLDFWQRYRVEGYGAVVLPATPGSHTLTIVSTWRPVELGTVA
ELRRFFIGGSLELEDLSYVRIPGSFKGERLSRFGRLRTETTGTVTFRHLCLQQSRAFMESSSLQKRMRSVLDRL
EGFSQQSSIHNVL EAFRRARRRMQEARESLPQDLVSPSGTLVS

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FIGURE 4908

GGCCTGTTCTCGAGTCCGCGCTTTTCGTCACCGCCATGTCGGGAGGTGGTGTGATTGCGTGCCCCGCAGGGAACA
ACGATTGCCGCATCTACGTGGGTAACTTACCTCCAGACATCCGAACCAAGGACATTGAGGACGTGTTCTACAAAT
ACGGCGCTATCCGCGACATCGACCTCAAGAATCGCCGCGGGGGACCGCCCTTCGCCTTCGTTGAGTTCGAGGACC
CGCGAGACGCGGAAGACGCGGTGTATGGTCGCGACGGCTATGATTACGATGGGTACCGTCTGCGGGTGGAGTTTC
CTCGAAGCGGCCGTGGAACAGGCCGAGGCCGCGCGGGGTGGAGGTGGCGGAGCTCCCCGAGGTGCGTATGGCC
CCCCATCCAGGCCGTCTGAAAACAGAGTGGTTGTCTCTGGACTGCCTCCAAGTGGAAGTTGGCAGGATTTAAAGG
ATCACATGCGTGAAGCAGGTGATGTATGTTATGCTGATGTTTACCGAGATGGCACTGGTGTGCTGGAGTTTGTAC
GGAAAGAAGATATGACCTATGCAGTTCGAAAACCTGGATAACACTAAGTTTAGATCTCATGAGGGAGAACTGCCT
ACATCCGGGTTAAAGTTGATGGGCCCAGAAGTCCAAGTTATGGAAGATCTCGATCTCGAAGCCGTAGTCGTAGCA
GAAGCCGTAGCAGAAGCAACAGCAGGAGTCGCAGTTACTCCCCAAGGAGAAGCAGAGGATCACCACGCTATTCTC
CCCGTCATAGCAGATCTCGCTCTCGTACATTAAGATGATTGGTGACACTTTTTGTAGAACCCTAGTTGTATACAGT
TTTCCTTTATTTCAGTACAATCTTTTCATTTTTTAATTCAAACTGTTTTGTTTCAGAATGGGCTAAAGTGTGAATT
GCATTCTTGTAATATCCCCCTTGCTCCTAACATCTACATTCCTTCGTGTCTTTGATAAATTGTATTTTAAAGTGAT
GTCATAGACAGGATTGTTTAAATTTAGTTAACTCCATACTCTTCAGACTGTGATATTGTGTAAATGTCTATCTGC
CCTGGTTTTGTGTGAACCTGGGATGTTGGGGGTGTTGTGGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTTGC
TTTTCATGTGTCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCACA
TTTCAATCATTTTTAGGATTGTCAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACTCC
AAGTGCTATTGTACAGATGAAATTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTTAAAAATGATTATATAC
ATTTTCCTTAAACACTTGCAAACATTTTATTTCAGTTGTCTTTAGCTACAATTGCTTTTGCTTTTTTAAACCTTGGC
AATTGTGGCAAATTTATATTGCCCATTTTGTAGCAACTTATTTTGCTCCCTTCCCCCATTTTTTGTTTTAATAGG
GACTAATGTGGGAAGAACTGGCTAATTTGTACAGTGCTTAGTTACAACGTGTAATGTGTGACCTGCTGTTGGTG
TACATGTGGGTACAGGGTGTTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTCTCT
CTGTGTGACTGATAGAGCGTTGCTATTTTCATTTTTTTAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGTAT
TGGTGTAGATAATCTAGTTGGGAATACTTTTAAAGTCTCACCTTCCCCCTTAAACTAATATTTCATAATTGGTTTCAT
ATGTTTTAAAGACTTTAATTTACAAATTAAATTGCAAATGGGAGCATTAGATTTAGTTTTAGACTTAGGTGGGTA
GCAATGCCAGTAAACTTAAATTACGTAACCTTCTTGCAACCACGAAACCTGTAATACGCTGTACAGTAACAAGTGT
TGGCATTATCAGTTGAACTGTAAATACAAATGCTTCTTCCAATTAGTCTCTATGATGATTAAGTTTCTAAAATT
TATCTGAACACCATTTCAGAACTTGTTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTAAACTGATGACAG
ACATAACTCATCATTTCCCCAGAAACCTTTTTTGATTACAGTATCTAACATTTTGCCTCCTCTTTTTTGTTTTGC
TGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATCAT
AATGTGGATAGGATAGGGAGGATGAATTACCAGGATTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGTGG
ATTCTGCCCAACCAAAACCGCATTCGTGTGGATTTTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTTTT
TTCCTATTTTTTGACGATTGGAGCCCTTAAAGATGCACGATGGAATTGTGTTTTGCGTTTTTTGGTAAAGGAGCAA
AGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGAAGGATTCAGCACGAGTAGATGGTAAACATTTTAA
GGGGAAGGGGGGGTTTTGTTTAAATAGTAAATCAGTAAGTCACTTCTAAATTTAAAGAAAACAAAATTGGAGTT
GAAGAATAAGTAGGTTTCCAATTGGCTATTGCCGTTTTCTTTGAAAAATAAACATTTTTTAAAAAACAAAAAA
AAAAAAA

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FIGURE 4909

MSGGGVIRGPAGNNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGRD
GYDYDGYRLRVEFPRSGRGTGRGGGGGGGGGAPRGYGPSSRSEN RVVVSGLPPSGSWQDLKDHMREAGDVCYA
DVYRDGTGVVEFVRKEDMTYAVRKLDNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSRNSRSRS
YSPRRSRGSPRYSPRHSRSRST

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FIGURE 4910

ATGGGTAAGATCCGGAAGGCCCAAGGAGAAGGGCTGCCCCGCCCCTGCCCCCTGCTGGTCCAGCCCAACCTCCCC
TTTGGGTACCCAGTCCACGGAGTGGAGGTGATGCCCCCTGCACACGGTTCCCATCCCAGGCCTCCAGTTTGAAGGA
CCCGATGCCCCCGTCTATGAGGTCACCCTGACAGCTTCTCTGGGGACACTGAACACCCTTGCTGATGTCCCAGAC
AGTGTGGTGCAGGGCAGAGGCCAGAAGCAGCTGATCATTCTACCAGTGACCGGAAGCTGTTGAAGTTCATTCTT
CAGCACGTGACATACACCAGCACGGGGTACCAGCACCAGAAGTACTATCCCCACATTGCCATTGACCCCATAGAG
CCTCTCGAGGAGAGAACAATCATGCTGTGCGCTTTGCACCTGTGAGTCTGGAGTCCAGGTCTCAGTGGCCAAG
TTTCCAGTGACCATCCGCCATCCTGTCATACCCAAGCTATACGACCCTGGACCAGTGTTCTTTCAGTGTAGTCTT
AATCAGACTATTCAACTCCTCATCACCCAGACACTGGTAGTATCTGGCACCAGGTGGGGTGGAAAGACAACCCGT
GAGTATTACACCTTCATGTGGGTACTTTGCCCATTGACCTAAACAACAAATCAGCTAAACAGCAGGAAGTCCAA
TTCAAAGCTTACTACCTGCCCAAGGATGATGAGTATTACCAGTTCTGCTATGTGGATGAGGATGGTGTGGTCCGG
GGAGCAAGTATTCCTTTCCAATTCCGTCCAGAAAATGAGGAAGACATCCTGGTTGTTACCACTCAGGGAGAGGTG
GAAGAGATTGAGCAGCACAACAAGGAGCTTTGCAAAAGAAAACCAGGAGCTGAAGGACAGCTGTATCAGCCTCCAG
AAGCAGAACTCAGACATGCAGGCTGAGCTCCAAAAGAAGCAGTATCTTTGA

[illegible]

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FIGURE 4912

MEETIKDPPTSAVLLDHCHFSQVIFNSVEKFYIPGGDVTCHYTFTQHFIPRRKDWIGIFRVGWKTTREYYTFMWV
TLPIDLNNKSAKQQEVQFKAYYLPKDDEYYQFCYVDEEDGVVRGASIPFQFRPENEEDILVVTTQGEVEEIEQHNK
ELCKENQELKDSCISLQKQNSDMQAELOKKQEELETLSINKKLELVKEQKDYWETELLQLKEQNQKMSSENEK
MGIRVDQLQAQLSTQEKEMEKLQGDQDKTEQLEQLKKENDHLFLSLTEQRKDQKKLEQTVEQMKQNETTAMKKQ
QELMDENFDLSKRLSENEIICNALQRQKERLEGENDLLKRENSRLLSYMGLDFNSLPYQVPTSDEGGARQNPGLA
YGNPYSGIQESSPSPLSIKKCPICKADDICDHTLEQQQMQLCFNCPICDKIFPATEKQIFEDHVFCHSL

[illegible]

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FIGURE 4914

MALIPSRVWLPPFAVWVDSAPVRGLVRREPFLRTGSFIALFYFPLLPVLINLFSFFLTSPFWRQLGAILVYASL
LAEKTPFKTQRTLEGDALVGSVSIFLCAKDRQTEAERGCS

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FIGURE 4915

GGGACGTGGAGACCCGGGGTCCCGGCAGCCGGGCGGCCCGGGGCCAGGGTGGGGATGCACCGCCGCGGGGTGG
GAGCTGGCGCCATCGCCAAGAAGAACTTGCAGAGGCCAAGTATAAGGAGCGAGGGACGGTCTTGGCTGAGGACC
AGCTAGCCCAGATGTCAAAGCAGTTGGACATGTTCAAGACCAACCTGGAGGAATTTGCCAGCAAACACAAGCAGG
AGATCCGGAAGAATCCTGAGTTCCGTGTGCAGTTCCAGGACATGTGTGCAACCATTGGCGTGGATCCGCTGGCCT
CTGGAAAAGGATTTTGGTCTGAGATGCTGGGCGTGGGGGACTTCTATTACGAACTAGGTGTCCAAATTATCGAAG
TGTGCCTGGCGCTGAAGCATCGGAATGGAGGTCTGATAACTTTGGAGGAACTACATCAACAGGTGTTGAAGGGAA
GGGGCAAGTTCGCCCAGGATGTCAGTCAAGATGACCTGATCAGAGCCATCAAGAACTAAAGGCACCTTGGCACTG
GCTTCGGCATCATCCCTGTGGGCGGCACCTTACCTCATTTCAGTCTGTTCCAGCTGAGCTCAATATGGATCACACCG
TGGTGCTGCAGCTGGCAGAGAAGAATGGCTACGTGACTGTCAGTGAGATCAAAGCCAGTCTTAAATGGGAGACCG
AGCGAGCGCGGCAAGTGCTGGAACACCTGCTGAAGGAAGGGTTGGCGTGGCTGGACTTACAGGCCCCAGGGGAGG
CCCACTACTGGCTGCCAGCTCTCTTCACTGACCTCTACTCCCAGGAGATTACAGCTGAGGAGGCCAGAGAAGCCC
TCCCCTGACTGCATGTGGAAGGGCACACAGCAGCAGGCAGGGAGGAGGCGGAGGTGGCAAATAAACCTGGGCAAT
TTTGTTTATACAAAAAATAGAAAAAA

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FIGURE 4916A

AGCAGACGGGAGTTTCTCCTCGGGGTCGGAGCAGGAGGCACGCGGAGTGTGAGGCCACGCATGAGCGGACGCTAA
CCCCCTCCCCAGCCACAAAGAGTCTACATGTCTAGGGTCTAGACATGTTTCAAGCTTTGTGGACCTCCGGCTCCTGC
TCCTCTTAGCGGCCACCGCCCTCCTGACGCACGGCCAAGAGGAAGGCCAAGTCGAGGGCCAAGACGAAGACATCC
CACCAATCACCTGCGTACAGAACGGCCTCAGGTACCATGACCGAGACGTGTGAAACCCGAGCCCTGCCGGATCT
GCGTCTGCGACAACGGCAAGGTGTTGTGCGATGACGTGATCTGTGACGAGACCAAGAACTGCCCCGGCGCCGAAG
TCCCCGAGGGCGAGTGCTGTCCCGTCTGCCCCGACGGCTCAGAGTCACCCACCGACCAAGAAACCACCGCGCTCG
AGGGACCCAAGGGAGACACTGGCCCCCGAGGGCCCAAGGGGACCCGCAGGCCCCCTGGCCGAGATGGCATCCCTG
GACAGCCTGGACTTCCCGGACCCCCCGGACCCCCCGGACCTCCCGGACCCCTGGCCTCGGAGGAAACTTTGCTC
CCCAGCTGTCTTATGGCTATGATGAGAAATCAACCGGAGGAATTTCCGTGCCTGGCCCCATGGGTCCCTCTGGTC
CTCGTGGTCTCCCTGGCCCCCTGGTGACCTGGTCCCCAAGGCTTCCAAGGTCCCCCTGGTGAGCCTGGCGAGC
CTGGAGCTTCAGGTCCCATGGGTCCCCGAGGTCCCCAGGTCCCCCTGGAAAGAATGGAGATGATGGGGAAGCTG
GAAAACCTGGTCTCCTGGTGAGCGTGGGCCCTCCTGGGCCCTCAGGGTGCTCGAGGATTGCCCGGAACAGCTGGCC
TCCCTGGAATGAAGGGACACAGAGGTTTCAAGTGGTTTGGATGGTGCCAAGGGAGATGCTGGTCTCTGGTCCCTA
AGGGTGAGCCTGGCAGCCCTGGTGAAAATGGAGCTCCTGGTCAGATGGGCCCCCGTGGCCTGCCTGGTGAGAGAG
GTCGCCCTGGAGCCCTGGCCCTGCTGGTGCTCGTGAAATGATGGTGCTACTGGTGCTGCCGGGCCCTGGTGC
CCACCGGCCCGCTGGTCTCCTGGCTTCCCTGGTGCTGTTGGTGCTAAGGGTGAAGCTGGTCCCCAAGGGCCCC
GAGGCTCTGAAGGTCCCCAGGGTGTCGCTGGTGAGCCTGGCCCCCTGGCCTGCTGGTGCTGCTGGCCCTGCTG
GAAACCTGGTGCTGATGGACAGCCTGGTGCTAAAGGTGCCAATGGTGCTCCTGGTATTGCTGGTGCTCCTGGCT
TCCCTGGTGCCCGAGGCCCTCTGGACCCAGGGCCCCGGCGGCCCTCCTGGTCCCAAGGGTAACAGCGGTGAAC
CTGGTGCTCCTGGCAGCAAAGGAGACACTGGTGCTAAGGGAGAGCCTGGCCCTGTTGGTGTTCAAGGACCCCTG
GCCCTGCTGGAGAGGAAGGAAAGCGAGGAGCTCGAGGTGAACCCGGACCCACTGGCCTGCCCCGACCCCTGGCG
AGCGTGGTGAGCCTGGTAGCCGTGGTTTCCCTGGCGCAGATGGTGTTGCTGGTCCCAAGGGTCCCGCTGGTGAAC
GTGGTTCTCCTGGCCCTGCTGGCCCCAAAGGATCTCCTGGTGAAGCTGGTCTGTCGGTGAAAGCTGGTCTGCCTG
GTGCAAGGGTCTGACTGGAAGCCCTGGCAGCCCTGGTCTGATGGCAAACTGGCCCCCTGGTCCCGCCGGTC
AAGATGGTCGCCCCGACCCCAAGGCCACCTGGTGCCCGTGGTCAGGCTGGTGATGGGATTCCCTGGACCTA
AAGGTGCTGCTGGAGAGCCCGCAAGGCTGGAGAGCGAGGTGTTCCCGGACCCCTGGCGCTGTCGGTCTGCTG
GCAAAGATGGAGAGGCTGGAGCTCAGGGACCCCTGGCCCTGCTGGTCCCGCTGGCGAGAGAGGTGAACAAGGCC
CTGCTGGCTCCCCCGATTCCAGGGTCTCCCTGGTCTGCTGGTCTCAGGTGAAGCAGGCAAACCTGGTGAAC
AGGGTGTTCTCCTGGAGACCTTGGCGCCCCCTGGCCCCCTCTGGAGCAAGAGGCGAGAGAGGTTTCCCTGGCGAGCGTG
GTGTGCAAGGTCCCCCTGGTCTGCTGGTCCCCGAGGGGCCAACGGTGCTCCCGCAACGATGGTGCTAAGGGTG
ATGCTGGTGCCCCCTGGAGCTCCCGGTAGCCAGGGCGCCCCCTGGCCTTCAAGGAATGCCTGGTGAACGTGGTG
CTGGTCTTCCAGGGCCTAAGGGTGACAGAGGTGATGCTGGTCCCAAGGTGCTGATGGCTCTCCTGGCAAAGATG
GCGTCCGTGGTCTGACTGGCCCCATTGGTCTCCTGGCCCTGCTGGTGCCCTGGTGACAAGGGTGAAAGTGGTC
CCAGCGGCCCTGCTGGTCCCACTGGAGCTCGTGGTGCCCCCGAGACCCTGGTGAGCCTGGTCCCCCGGCCCTG
CTGGCTTTGCTGGCCCCCTGGTGCTGACGGCCAACCTGGTGCTAAAGGCGAACCTGGTGATGCTGGTGCTAAAG
GCGATGCTGGTCCCCCTGGCCCTGCCGGACCCGCTGGACCCCTGGCCCCATTGGTAATGTTGGTGCTCCTGGAG
CCAAAGGTGCTCGCGGCAGCGCTGGTCCCCCTGGTGCTACTGGTTTCCCTGGTGCTGCTGGCCGAGTCGGTCCTC
CTGGCCCCCTTGAAATGCTGGACCCCTGGCCCTCCTGGTCTGCTGGCAAAGAAGGCGGCAAAGGTCCCCGTG
GTGAGACTGGCCCTGCTGGACGTCTGGTGAAGTTGGTCCCCCTGGTCCCCCTGGCCCTGCTGGCGAGAAAGGAT
CCCCCTGGTGCTGATGGTCTGCTGGTGCTCCTGGTACTCCCGGGCCTCAAGGTATTGCTGGACAGCGTGGTG
TCGGCCTGCTGGTCAAGAGAGGAGAGAGAGGCTTCCCTGGTCTTCCCTGGCCCCCTGGTGAACTGGCAAACAAG
GTCCCTCTGGAGCAAGTGGTGAACGTGGTCCCCCTGGTCCCATGGGGCCCCCTGGATTGGCTGGACCCCTGGTG
AATCTGGACGTGAGGGGGCTCCTGGTGCCGAAGGTTCCCTGGACGAGACGGTTCTCCTGGCGCCAAGGGTGACC
GTGGTGAGACCGGCCCGCTGGACCCCTGGTGCTCCTGGTGCTCCTGGTGCCCTGGCCCCGTGGCCCTGCTG
GCAAGAGTGGTGATCGTGGTGAGACTGGTCTGCTGGTCCCACCGGTCTGTGCGCCCTGTTGGCGCCCGTGGCC
CCGCCGACCCCAAGGCCCGCTGGTGACAAGGGTGAGACAGGCGAACAGGGCGACAGAGGCATAAAGGGTCACC
GTGGCTTCTCTGGCCTCCAGGGTCCCCCTGGCCCTCCTGGCTCTCCTGGTGAACAAGGTCCCTCTGGAGCCTCTG
GTCCTGCTGGTCCCCGAGGTCCCCCTGGCTCTGCTGGTGCTCCTGGCAAAGATGGACTCAACGGTCTCCTGGCC

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FIGURE 4916B

CCATTGGGCCCCCTGGTCCTCGCGGTCGCACTGGTGATGCTGGTCCTGTTGGTCCCCCGGCCCTCCTGGACCTC
CTGGTCCCCCTGGTCCTCCCAGCGCTGGTTTCGACTTCAGCTTCCTGCCCCAGCCACCTCAAGAGAAGGCTCACG
ATGGTGGCCGCTACTACCGGGCTGATGATGCCAATGTGGTTTCGTGACCGTGACCTCGAGGTGGACACCACCCTCA
AGAGCCTGAGCCAGCAGATCGAGAACATCCGGAGCCCAGAGGGCAGCCGCAAGAACCCCGCCGACCTGCCGTG
ACCTCAAGATGTGCCACTCTGACTGGAAGAGTGGAGAGTACTGGATTGACCCCAACCAAGGCTGCAACCTGGATG
CCATCAAAGTCTTCTGCAACATGGGAGACTGGTGAGACCTGCGTGTACCCCACTCAGCCCAGTGTGGCCCAGAAGA
ACTGGTACATCAGCAAGAACCCCAAGGACAAGAGGCATGTCTGGTTCGGCGAGAGCATGACCGATGGATTCCAGT
TCGAGTATGGCGGCCAGGGCTCCGACCCTGCCGATGTGGCCATCCAGCTGACCTTCCTGCGCCTGATGTCCACCG
AGGCCTCCCAGAACATCACCTACCACTGCAAGAACAGCGTGGCCTACATGGACCAGCAGACTGGCAACCTCAAGA
AGGCCCTGCTCCTCCAGGGCTCCAACGAGATCGAGATCCGCGCCGAGGGCAACAGCCGCTTCACCTACAGCGTCA
CTGTCGATGGCTGCACGAGTCACACCGGAGCCTGGGGCAAGACAGTGATTGAATACAAAACCAAGACCTCCC
GCCTGCCCATCATCGATGTGGCCCCCTTGGACGTTGGTGCCCCAGACCAGGAATTCGGCTTCGACGTTGGCCCTG
TCTGCTTCCTGTAAACTCCCTCCATCCCAACCTGGCTCCCTCCCACCCAACCAACTTTCCCCCAACCCGGAAC
AGACAAGCAACCCAAACTGAACCCCTCAAAAGCCAAAAATGGGAGACAATTTACATGGACTTTGGAAAATAT
TTTTTCTTTTGCAATCATCTCTCAAACCTAGTTTTTATCTTTGACCAACCGAACATGACCAAAAAACCAAGTG
CATTC AACCTTACCAAAAAAAAAAAAAAAAAAGAAATAAATAAATACTTTTTAAAAAAGGAAGCTTGGTCCACT
TGCTTGAAGACCCATGCGGGGGTAAGTCCCTTCTGCCCCGTTGGGCTTATGAAACCCCAATGCTGCCCTTCTGC
TCCTTCTCCACACCCCCCTTGGGGCCTCCCTCCACTCCTTCCCAATCTGTCTCCCCAGAAGACACAGGAAAC
AATGTATTGTCTGCCCAGCAATCAAAGGCAATGCTCAAACACCCAAGTGGCCCCACCCCTCAGCCCCGCTCCTGCC
CGCCCAGCACCCCCAGGCCCTGGGGGACCTGGGGTTCTCAGACTGCCAAAGAAGCCTTGCCATCTGGCGCTCCCA
TGGCTCTTGCAACATCTCCCTTCGTTTTTGGAGGGGGTCATGCCGGGGGAGCCACCAGCCCCCTCACTGGGTTCGG
AGGAGAGTCAGGAAGGGCCACGACAAAGCAGAAAACATCGGATTTGGGGAACGCGTGTCAATCCCTTGTGCCGCAG
GGCTGGGCGGGAGAGACTGTTCTGTTCTTGTGTAACGTGTGTGCTGAAAGACTACCTCGTTCTTGTCTTGATGT
GTCACCGGGGCAACTGCCTGGGGGCGGGGATGGGGGAGGGTGGAAGCGGCTCCCCATTTTATACCAAAGGTGCT
ACATCTATGTGATGGGTGGGGTGGGGAGGGAATCACTGGTGCTATAGAAATTGAGATGCCCCCCCAGGCCAGCAA
ATGTTCCTTTTTTGTTCAAAGTCTATTTTTATTCCCTTGATATTTTTCTTTTTTTTTTTTTTTTTTGTGGATGGGG
ACTTGTGAATTTTTCTAAAGGTGCTATTTAACATGGGAGGAGAGCGTGTGCGGCTCCAGCCCAGCCCGCTGCTCA
CTTTCCACCTCTCTCCACCTGCCTCTGGCTTCTCAGGCCTCTGCTCTCCGACCTCTCTCCTCTGAAACCTCCT
CCACAGCTGCAGCCCATCCTCCCGGCTCCCTCCTAGTCTGTCTGCTCCTCTGTCCCCGGGTTTCAGAGACAAC
TTCCCAAAGCACAAAGCAGTTTTTCCCCTAGGGGTGGGAGGAAGCAAAGACTCTGTACCTATTTTGTATGTGT
ATAATAATTTGAGATGTTTTTAATTATTTTGATTGCTGGAATAAAGCATGTGGAAATGACCCAAACATAA

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FIGURE 4917

CCTGTTGCTGATGCTGCCGTGCGGTACTTGTCA**ATG**GAGCTGGCACTGCGGCGCTCTCCCGTCCCGCGGTGGTTGC
TGCTGCTGCCGCTGCTGCTGGGCCTGAACGCAGGAGCTGTCAATTGACTGGCCACAGAGGAGGGCAAGGAAGTAT
GGGATTATGTGACGGTCCGCAAGGATGCCTACATGTTCTGGTGGCTCTATTATGCCACCAACTCCTGCAAGAACT
TCTCAGAACTGCCCCCTGGTCATGTGGCTTCAGGGCGGTCCAGGCGGTTCTAGCACTGGATTTGGAAACTTTGAGG
AAATTGGGCCCCCTTGACAGTGATCTCAAACCACGGAAAACCACCTGGCTCCAGGCTGCCAGTCTCCTATTTGTGG
ATAATCCCGTGCGCACTGGGTTTCAGTTATGTGAATGGTAGTGGTGCCTATGCCAAGGACCTGGCTATGGTGGCTT
CAGACATGATGGTTCTCCTGAAGACCTTCTTCAGTTGCCACAAAGAATTCCAGACAGTTCCATTCTACATTTTCT
CAGAGTCTTATGGAGGAAAAATGGCAGCTGGCATTGGTCTAGAGCTTTATAAGGCCATTTCAGCGAGGGACCATCA
AGTGCAACTTTGCGGGGGTTGCCTTGGGTGATTCTGGATCTCCCCGTGGATTCCGGTGCTCTCCTGGGGACCTT
ACCTGTACAGCATGTCTCTTCTCGAAGACAAAGGTCTGGCAGAGGTGTCTAAGGTTGCAGAGCAAGTACTGAATG
CCGTAAATAAGGGGCTCTACAGAGAGGCCACAGAGCTGTGGGGGAAAGCAGAAATGATCATTGAACAGAACACAG
ATGGGGTGAACCTTCTATAACATCTTAACATAAAGCACTCCACGTCTACAATGGAGTCGAGTCTAGAATTCACAC
AGAGCCACCTAGTTTGTCTTTGTCAGCGCCACGTGAGACACCTACAACGAGATGCCTTAAGCCAGCTCATGAATG
GCCCCATCAGAAAGAAGCTCAAAATTATTCCTGAGGATCAATCCTGGGGAGGCCAGGCTACCAACGTCTTTGTGA
ACATGGAGGAGGACTTCATGAAGCCAGTCATTAGCATTGTGGACGAGTTGCTGGAGGCAGGGATCAACGTGACGG
TGTATAATGGACAGCTGGATCTCATCGTAGATACCATGGGTGAGGAGGCCTGGGTGCGGAAACTGAAGTGGCCAG
AACTGCCATAAATTCAGTCAGCTGAAGTGGAAGGCCCTGTACAGTGACCCTAAATCTTTGGAAACATCTGCTTTTG
TCAAGTCTTACAAGAACCTTGCTTTCTACTGGATTCTGAAAGCTGGTCATATGGTTCCTTCTGACCAAGGGGACA
TGGCTCTGAAGATGATGAGACTGGTGACTCAGCAAGAA**TAG**GATGGATGGGGCTGGAGATGAGCTGGTTTGGCCT
TGGGGCACAGAGCTGAGCTGAGGCCGCTGAAGCTGTAGGAAGCGCCATTCTTCCCTGTATCTAACTGGGGCTGTG
ATCAAGAAGGTTCTGACCAGCTTCTGCAGAGGATAAAATCATTGTCTCTGGAGGCAATTTGGAAATTATTTCTGC
TTCTTAAAAAACCTAAGATTTTTTAAAAAATTGATTGTGTTTGGATCAAAATAAAGGATGATAATAGATATTATT
TTTTCTTATGACAGAAGCAAATGATGTGATTTATAGAAAACTGGGAAATACAGGTACCCAAAAGAGTAAATCAAC
ATCTGTATACCCCCTTCCCAGGGGTAAGCACTGTTACCAATTTAGCATATGTCCTTGCAGAAATTTTTTTTTCTAT
ATATACATATATATTTTTTACCAAAATGAATCATTACTCTATGTTGTTTTACTATTTGTTTGACATATCAGTATA
TCTGAAACACCTTTTTCATGTCAATAAATGTTCTTCTCTAACATTAA

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FIGURE 4918

MELALRRSPVPRWLLLLLPLLLGLNAGAVIDWPTEEGKEVWDYVTVRKDAYMFWWLYYATNSCKNFSELPLVMWLQ
GGPGGSSTGFGNFEEIGPLDSDLKPRKTTWLQAASLLFVDNPVGTGFSYVNGSGAYAKDLAMVASDMMVLLKTFF
SCHKEFQTVPFYIFSESYGGKMAAGIGLELYKAIQRTIKCNFAGVALGDSWISPVDSVLSWGPYLYSMSLLEDK
GLAEVSKVAEQVLNAVNGLYREATELWGKAEMIEQNTDGVNFYNILTKSTPTSTMESSLEFTQSHLVCLCQRH
VRHLQRDALSQLMNGPIRKKLKIIPEDQSWGGQATNVFVNMEEDFMKPVISIVDELLEAGINVTVYNGQLDLIVD
TMGQEAWVRKLKWPPELPKFSQLKWKALYSDPKSLETSAFVKSYKNLAFYWILKAGHMVPSDQGMALKMMRLVTQ
QE

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FIGURE 4919

CCGGACTGCGGAAGG**ATG**GAGCTGGCCGCCGGAAGCTTCTCGGAGGAGCAGTTCTGGGAGGCCTGCGCCGAGCTC
CAGCAGCCCGCTCTGGCCGGGGCCGACTGGCAGCTCCTAGTGGAGACCTCGGGCATCAGCATCTACCGGCTGCTG
GACAAGAAGACTGGACTTCATGAGTATAAAGTCTTTGGTGTTCTGGAGGACTGCTCACCAACTCTACTGGCAGAC
ATCTATATGGACTCAGATTACAGAAAAAATGGGACCAGTATGTTAAAGAACTCTATGAACAAGAATGCAACGGA
GAGACTGTGGTCTACTGGGAAGTGAAGTACCCTTTTCCCATGTCCAACAGAGACTATGTCTACCTTCGGCAGCGG
CGAGACCTGGACATGGAAGGGAGGAAGATCCATGTGATCCTGGCCCGGAGCACCTCCATGCCTCAGCTTGGCGAG
AGGTCTGGGGTGATCCGGGTGAAGCAATACAAGCAGAGCCTGGCGATTGAGAGTGACGGCAAGAAGGGGAGCAAA
GTTTTTCATGTATTACTTCGATAACCCGGGTGGCCAAATTCGTCCTGGCTCATTAACTGGGCCGCCAAGAATGGA
GTTCCCTAACTTCTTGAAAGACATGGCAAGAGCCTGTCAGAACTACCTCAAGAAAACCT**TAAG**AAAGAGAACTGGGA
ACATTGCATCCATGGGTTGATGTCTCTGGAAGTGCAACCACCCAATGTCTCTGGAAGTGCCACCTGGAAGTGCCA
CCTGGAAGTGCTCTCTGGAAGAGCACCCACCACTGTTTCAGCCTTCCCCTGCTGTTTCTGTCTTCAGAGGCCTACAC
ACTACCACATCCTTTCTAAGCATGTTTGCCTGACATCCAGCTCACTCGTCTGCTTCTCTCGCTCCCCCATC
CTGGGCTGGGCTGCCTTCTTCTACAGTTCAATATGGGGCAGACTAGGGAAACCTTTGCTTGCTTACTATTAGGAG
GGGAAGTCTTCAGTAGGGAACACGATCATTCCATTGTGCAATTTTACGGGGATGGGTGGGCGGAGGGACACAACA
AAATTTAAGAATGACTATTTGGGCGGGCTGGCTCTTTTGCACTTGTGATTTCTTCCAGCTTGGGAGGGGCTGCT
GGAAGTGGCATTTCGTTTCAGAGCTGACTTTCAGTGCACCCAACTGGATGACGTGCCAATGTCCATTTCCTTAT
GCTTTGTGGAGCTGATTAGGCTGGGATTTGAGGTGATAATCCAGTAAGTCTTTCCTCGTTCCTACTTGTGGAGGA
TCAGTAGCTGTTATGATGCCAGACCATTGGGAGAGTATCAGAGGCCTGACCGGACACATAATACGACAACCACA
TTTTTCCTCATCATCCATGAGGAAATGGATGATTTCTCTTTTCCATATGTCACTGGGGGAAAGGCTGCCTGTACC
TCTCAAGCTTTGCATTTTACTGGAACTGAGGCGTCAAGATGGCTGTGGCAGCTAGCAAAAGCAAAGATGCTTTG
TGCATAGCCTTGTGAAAAAGTATCTTTCTATGCAATAAGATGAATTTTCTCCAGAATATTTAGAAAATGTAGAA
GGGATAACAGTTCACAGCCAGGTAAATTTAACTGGTGGCTTAATGACTCTGCACCTTTTTTCTCAGGAATTCTGC
CTAAGTTGTCTGCCTTTTCTACCACCAAAAAGACTTTTAGTTTTCTATGCTTTCTCCTGAATTTTGGTAGGGTAA
GTATTTCTATGTCAAAGGCACAGCCTTGATGATCTCAGGGAAAAATTTAATCACTGTGTATAATGATACTGAAC
CTTGATTAATAACAGAAATTCAGGATGTAAAGCCACAGAATGGGATTTATTAATGTGGGATACCTCAGACTGTTT,
GTTTTCTTTCTGGGAAGAAAAGTGTGTTCTATAATGAATAAATATAGAGTGGTTTTT

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FIGURE 4920

MELAAGSFSEEQFWEACAELOQPALAGADWQLLVETSGISISYRLLDKKTGLHEYKVFGVLEDCSPTLLADIYMS
DYRKQWDQYVKELYEQECNGETVVYWEVKYPPFMSNRDYVYLRQRRDLMEGRKIHVILARSTSMPLGERSGVI
RVKQYKQSLAIESDGKKGSKVFMYYFDNPGGQIPSWLINWAAKNGVPNFKDMARACQNYLKKT

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FIGURE 4921A

CCGCCCCCGACCCGAGCTCTTTTCGTCTGCCTGCCAGTTTCCTGCGTCCCCGGAGAGGATCCTGCTGAGCCCAGCC
TCCCCCTCCCTTCTCCTCCTCCTCCTTGGAGAGCCCGGGCAGCCACTGCCCCGAGCCCCAGTGACAGGAGGA
GACCATAACCCCCGACAGCGCC**ATG**GCCCAGATTCTGCCAATTCGTTTTTCAGGAGCATCTCCAGCTCCAGAACCT
GGGTATCAACCCAGCAAACATTGGCTTCAGTACCCTGACTATGGAGTCTGACAAATTCATCTGCATTAGAGAAAA
AGTAGGAGAGCAGGCCCAGGTGGTAATCATTGATATGAATGACCCAAGTAATCCAATTCGAAGACCAATTTTCAGC
AGACAGCGCCATCATGAATCCAGCTAGCAAAGTAATTGCACTGAAAGCTGGGAAAACCTCTTCAGATTTTTAACAT
TGAAATGAAAAGTAAAATGAAGGCTCATACCATGACTGATGATGTCACCTTTTGGAAATGGATCTCTTTGAATAC
GGTTGCTCTTGTTACGGATAATGCAGTTTATCACTGGAGTATGGAAGGAGAGTCTCAGCCAGTGAAAAATGTTTGA
TCGCCATTCTAGCCTTGAGGGTGCCAGATTATCAATTACCGTACAGATGCAAAACAAAAGTGGTTACTTCTGAC
TGGTATATCTGCACAGCAAAATCGTGTGGTGGGAGCTATGCAGCTATATTCTGTAGATAGGAAAGTGTCTCAGCC
CATTGAAGGACATGCAGCTAGCTTTGCACAGTTTAAAGATGGAAGGAAATGCAGAAGAATCAACGTTATTTGTTT
TGCAGTTTCGGGGCCAAGCTGGAGGGAAGTTACATATTATTGAAGTTGGCACACCACCTACAGGGAACAGCCCTT
TCCAAAGAAGGCAGTGGATGTCTTCTTTCCCTCCAGAAGCACAAAATGATTTTCTGTTGCAATGCAGATCAGTGA
AAAGCATGATGTGGTGTCTTGATAACCAAGTATGGTTATATCCACCTCTATGATCTTGAGACTGGTACCTGCAT
CTACATGAATAGAATCAGTGGAGAAACAATTTTTGTTACTGCACCTCATGAAGCCACAGCTGGAATAATTGGAGT
AAACAGAAAAGGGACAAGTTCTGTCTAGTGTGTGTGGAAGAAGAAAACATAATTCCTTACATCACCAATGTTCTACA
AAATCCTGATTTGGCTCTGAGAATGGCTGTACGTAATAACTTAGCCGGTGTGAAGAACTCTTTGCCCGGAAATT
TAATGCTCTTTTTGCCAGGGAATTAATCTCGAGGCAGCAAAGGTGGCTGCTAATGCACCAAAGGGAATCTTTCG
TACTCCAGACACTATCCGTCGGTTCCAGAGTGTCCAGCCCAGCCAGGTCAAACCTTCTCTCTACTTCAGTACTT
TGGTATCCTTTTGGACCAGGGACAGCTCAACAAATACGAATCCTTAGAGCTTTGTAGGCCTGTACTTCAGCAAGG
GCGAAAACAGCTTTTGGAGAAATGGTTAAAAGAAGATAAGCTGGAATGTTCTGAAGAACTGGGTGATCTTGTGAA
ATCTGTGGACCTACATTGGCACTTAGTGTGTACCTAAGGGCTAACGTCCCAAATAAAGTCATTTCAGTGCTTTGC
AGAAACAGGTCAAGTCCAAAAGATTGTTTTATATGCTAAAAAAGTTGGATACACTCCAGATTGGATATTTCTGCT
GAGAAATGTAATGCGAATCAGTCCAGATCAGGGACAGCAGTTTGCCCAAATGTTAGTTCAAGATGAAGAGCCTCT
TGCTGACATCACACAGATTGTAGATGTCTTTATGGAATACAATCTAATTCAGCAGTGTACTGCATTCTTGCTTGA
TGCTCTGAAGAAATAATCGCCCATCTGAAGGTCTTTACAGACGCGGTTACTTGAGATGAACCTTATGCATGCGCC
TCAAGTTGCAGATGCTATTCTAGGCAATCAGATGTTTCACACATTATGACCGGGCTCATATTGCTCAACTGTGTGA
AAAGGCTGGCCTACTGCAGCGTGCATTAGAACATTTCACTGATTTATATGATATAAAACGTGCAGTGGTTCACAC
CCATCTTCTTAACCTGAGTGGTTAGTCAACTACTTTGGTTCCCTATCAGTAGAAGACTCCCTAGAATGTCTCAG
AGCCATGCTGTCTGCCAACATCCGTGCAATCTGCAGATTTGTGTTTCAGGTGGCTTCTAAATATCATGAACAACT
GTCAACTCAGTCTCTGATTGAACTTTTTGAATCTTTCAAGAGTTTTGAAGGTCTCTTTTATTTTCTGGGATCCAT
TGTTAACTTTAGCCAGGACCCAGATGTGCACCTTTAAATATATTTCAGGCAGCTTGCAAGACTGGGCAAAATCAAAGA
AGTAGAAAGAATCTGTAGAGAAAGCAACTGCTACGATCCTGAGCGAGTCAAGAATTTTCTTAAGGAAGCAAACT
AACAGATCAGCTACCACTTATCATTGTGTGTGATCGATTTGACTTTGTCCATGATTTGGTGTCTATTTATATAG
AAATAATCTTCAAAGTATATAGAGATATATGTACAGAAGGTGAATCCAAGTCGACTTCTGTAGTTATTGGAGG
ATTACTTGATGTTGACTGTTCTGAAGATGTCATAAAAACTTGATTCTTGTGTGAAGAGGTCAATTCTCTACTGA
TGAGCTTGTTGCTGAGGTTGAAAAAGAAACAGATTGAAACTGCTTCTGCCTTGGCTAGAGGCCAGAATTCATGA
GGGCTGTGAGGAGCCTGCTACTCACAATGCCTTAGCCAAAATCTACATAGACAGTAATAACAACCCGGAGAGATT
TCTTCGTGAAAAATCCCTACTATGACAGTCGCGTTGTTGGAAAGTATTGTGAGAAGAGAGATCCACATCTGGCCTG
TGTTGCTTATGAACGTGGCCAATGTGATCTGGAACCTATTAATGTTTGAATGAGAATCCCTCTTCAAAGTCT
TTCTCGCTACCTGGTACGTGCAAGGATCCAGAATTGTGGGGCAGCGTGCTGCTGGAAGCAATCCTTACAGGAG
ACCCCTAATTGACCAGGTTGTACAAACAGCTTTGTCTGAGACTCAGGACCTGAAGAAGTGTGAGTAAGTGTAA
GGCTTTTCATGACTGCAGACCTTCCTAATGAACCTCATTGAACCTGCTGGAGAAAATTGTCCTTGATAACTCTGTATT
CAGTGAACACAGGAATCTGCAAAACCTCCTTATCCTCACTGCAATTAAGGCTGACCGTACACGTGTTATGGAGTA
TATTAACCGCCTGGATAATTATGATGCCCCAGATATTGCCAATATCGCCATCAGCAATGAGCTGTTTGAAGAAGC
ATTTGCCATTTTCCGGAAATTTGATGTCAATACTTCAGCAGTTCAGGTCTTAATTGAGCATATTGGAACTTGGA
TCGGGCATATGAGTTTGTGTAACGTTGCAATGAACCTGCGGTCTGGAGTCAACTTGCAAAAGCCAGTTGCAGAA
AGGAATGGTGAAAGAAGCCATTGATTCTTATATCAAAGCAGATGATCCTTCTCTACATGGAAGTTGTTTCAGGC

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FIGURE 4921B

TGCCAATACTAGTGGAACTGGGAAGAACTGGTGAAGTACTTGCAGATGGCCCGTAAGAAGGCTCGAGAGTCCTA
TGTGGAGACAGAAGCTGATATTCGCACTGGCTAAAACAAAACCGCCTTGCAGAGTTAGAAGAATTTATCAATGGACC
AAATAATGCTCATATCCAACAAGTTGGTGACCGTTGTTATGATGAAAAAATGTATGATGCTGCTAAGTTGTTGTA
CAATAATGTTTCCAATTTTGGACGTTTGGCATCTACCCTGGTTCACCTGGGTGAATATCAGGCAGCTGTTGATGG
GGCTAGGAAAAGCTAACAGTACTCGAACATGGAAAAGAGGTCTGCTTCGCCTGTGTAGATGGGAAAAGAATCCGTCT
TGCTCAGATGTGTGGACTTCATATTGTTGTACATGCAGATGAATTAGAAGAAGCTTATCAACTACTATCAGGATCG
TGGCTATTTTGAAGAGCTGATCACCATGTTGGAAAGCAGCACTGGGACTTGAGCGAGCTCACATGGGAATGTTTAC
TGAATTAGCTATTCTATACTCTAAATTTAAGCCTCAGAAAATGAGGGAGCACCTGGAGCTGTTCTGGTCTAGAGT
GAATATTCCCAAGGTGCTAAGAGCTGCAGAACAAGCTCATCTTTGGGCAGAACTGGTGTTTTTGTATGACAAGTA
TGAAGAATATGATAATGCCATAATTACCATGATGAATCATCCAAGCTGATGCCTGGAAAAGAAGGGCAATTCAAAGA
TATCATTACCAAGGTTGCCAATGTGGAAGCTATACTACAGAGCAATACAGTTCTACTTAGAATTCAGCCTCTGTT
GTTAAATGATTTGCTGATGGTGTCTCTCCACGGTTGGATCACACTCGTGCAGTCAATTATTTAGCAAGGTTAA
ACAGCTACCAGTGGTGAACCGTATTTGCGTTTCAAGTTCAGAACCATCAATAGATGCTTATGACAACCTTTGACAATAT
CAATCTTTTTATTACAGAAGAAGATTATCAGGCTCTGCGAACATCAATAGATGCTTATGACAACCTTTGACAATAT
CTCGCTTGCTCAGCGTTTGGAAAACATGAAGTCAATGAGTTTCAAGGAGAAATTGCTGCTTATCTCTTCAAAGGCAA
CAATCGCTGGAAACAGAGTGTAGAGCTGTGCAAGAAAGACAGCCTTTACAAGGATGCAATGCAGTATGCTTCTGA
ATCTAAAGATACTGAATTTGGCTGAAGAACTCCTGCAGTGGTTTTTGCAGGAAGAAAAAAGAGAGTGGTTTTGGAGC
TTGTCTGTTTACCTGTTACGATCTTTTAAGGCCAGATGTCGTCCTAGAAACTGCATGGAGGCACAATATCATGGA
TTTTGCCATGCCCTATTTATCCAGGTCATGAAGGAGTACTTGACAAAGGTGGATAAATTAGATGCTTCAGAATC
ACTGAGAAAAGAAGAACAAGCTACAGAGACACAACCCATTGTTTATGGTCAGCCCCAGTTGATGCTGACAGC
AGGACCCAGTGTGGCGTCCCTCCCCAGGCACCTTTTGGTTATGGTTATACCGCACCCAGTATGGACAGCCACA
GCCTGGCTTTGGGTACAGCATGTGAGATGAAGCGCTGATCCTGTAGTCACCTATTTTCGTACTGAAACATCGTCT
TTACCCACTTCTCAGTTTATAATGGGGGAAAACAGGCAACGTGTTCTTGTAACCTTTATTTTCATGAAGGACTTCT
TTTTGTTTCTAACTATAAACTTGATCACCTATGTTAAAACCTTATTTACATTCCACATCATTTTGAATTTAT
TTTCGAAGGGGAATAGTTTCAATGTTTTATTCACTTGGGCTTTTTTTCTTCCCCCTCTTTCTTTAAAGAACTGCT
CAATATTCAATCTGTTGTGAAGAACCTGATTTGCACTCTGTAGTGTTTAAAGAAACAAAGAAAAGCTCTAATATTGA
ATCTCTTAAATTTAGTGTATGTAAACAGCTTACAAATACGTATTGTCTAAATGCATTTAAATCTGTTTTATTCAA
AGAAAAGCTAAAGCAAAAACACTGGCATATGACCATGCAAGACTGTGAGTGCCAACAAAGACAACACTAATCAGC
ACATCGTACACTGGATTGCAGTGTCTCCAGATTATTGAAAAATGTTACAGACAAGTTCAGTATGTTTTTAAATGA
GCGTAAAAGGCCCTCTAACCTATGCAGGTTTTCCCATATGCATATAGAAAATGCTAGTATGTTTTGCTCAGTTC
ATATGTAACAGGTGCCCTTATGTTGTGCTGTATCCTGTGCTTTTTCTGTGGGACCATTCCATTGAGGAGCAAAGA
GCACCATGATTCCAATCTTGTGTGTGTTTACTAACCCTTCCCTGAGGCTTGTGTATGTTGGATATTGTGGTGT
TAGATCACTGAGTGTACAGAAGAGAGAAATTCAAACAAAATATTGCTGTTCTTCAGTTTTGTTGTGGAATTTGA
AATTACTCAAATTTAAATAAATTACTGGACTGTGG

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FIGURE 4922

MAQILPIRFQEHLLQLNLGINPANIGFSTLTMESDKFICIREKVGGEQAQVVIIDMNDPSNPIRRPI SADS AIMNP
ASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGESQPVKMFDRHSSLAG
CQIINYRTDAKQKWLLLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQFKMEGNAAESTLFCFAVRGQAG
GKLHIIIEVGTPTGNQPPPKKAVDVFFPPEAQNDFFVAMQISEKHVDVFLITKYGYIHLYDLETGTCTIYMNRISG
ETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNVLQNPDLALRM AVRNNLAGAEELFARKFNALFAQG
NYSEAAKVAANAPK GILRTPDTIRRFQSVPAQPGQTSPLLQYFGILLDQGQLNKYESLELCRPVLQQGRKQLLEK
WLKEDKLECSEELGDLVKSVDPTLALS VYLRANVPNKVIQCFAETGQVQKIVLYAKKVGYPDWIFLLRNVMRIS
PDQGGQFAQMLVQDEEPLADITQIVDVFM EYNLIQQCTAFLLDALKNNRPSEGPLQTRLLEMNLMHAPQVADAIL
GNQMFTHYDRAHIAQLCEKAGLLQRALEHFTDLYDIKRAVVHTHLLNPEWL VNYFGSLSVEDSLECLRAMLSANI
RQNLQICVQVASKYHEQLSTQSLIELFESFKSFEGLFYFLGSIVNFSQDPDVHFKYIQAACKTGQIKEVERICRE
SNCYDPERVKNFLKEAKLTDQLPLIIVCDRDFDVHDLVLYLYRNNLQKYIEIYVQKVNPSRLPVVIGLLDVDCS
EDVIKNLILVVRGQFSTDELVAEVEKRNRLKLLLPWLEARIHEGCEEPAATHNALAKIYIDSNNNPERFLRENPHY
DSRVVGKYCEKRDPHLACVAYERGQCDLELINVCNENSLFKSLSRYLVRKDPPELWGSVLLESNPYRRPLIDQVV
QTALSETQDPEEVSVTVKAFMTADLPNELIELLEKIVLDNSVFSEHRNLQNLILITAIKADRTRVMEYINRLDNY
DAPDIANIAISNELFEEAFAIFRKFDVNTSAVQVLI EHGNDRAVEFAERCNEPAVWSQLAKAQLQKGMVKEAI
DSYIKADDPSSYMEVVQAANTSGNWEELVKYLQMARKKARESYVETELIFALAKTNRLAELEEFINGPNNAHIOQ
VGDRCYDEKMYDAAKLLYNNVSNFGRLASTLVHLGEYQAAVDGARKANSTRWKEVCFACVDGKEFRLAQMCGLH
IVVHADELEELINYYQDRGYFEELITMLEAALGLERAHMGMFTELAILYSKFKPQKMREHLELFWSRVNIPKVL R
AAEQAHLWAEVLFLYDKYEEYDNAIITMMNHPTDAWKEGQFKDIITKVANVELYYRAIQFYLEFKPLLLNDLLMV
LSPRLDHTRAVNYSKVKQLPLVKPYLRSVQNHNNKSVNESLNNLFITEEDYQALRTSIDAYDNFDNISLAQRLE
KHELIEFRRIAAYLFKGNNRWKQSVELCKKDSLYKDAMQYASESKDTELAEEELLQWFLQEEKRECFGACLFCTCYD
LLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKVDKLDASESLRKEEQATETQPIVYGQPQLMLTAGPSVAVP
PQAPFGYGYTAPPYGPQPFGFGYSM

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FIGURE 4923

TTTCCAGCCCCGGCCCCGGACCCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA
CTCCTTTTAAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG
AATGTGCCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTGCCGAGGCTACGTGAAAGAACAACCTTTGCC
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGAG
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT
GCTGTGCTACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTCAGCAACCGAATTCTAGTTTATAGAGGCGGA
TTTGGTTGTGGACGTGGTCAGCCACCTCAGTAAAACTGGAGAGGATTCTTTTGCATTGAATAAAATTTACAGCCAA
AAAA

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FIGURE 4924

AACCGGCGCCAGCC**ATG**GCCTCTG GGGCGGGCGGAAGCTGGGGTCGCTCCCCACCGCAGAGCGCAGTCCCGACGC
CCTGGGTACCTTCTG CAGCCCCTCTCGTGGGCGGTCCACCTGCGCCCCCGCAGCCAGGCCGCGTGAAGGAAG
ACCTGCTGGAAC TGATGATGCTGCAGAACGCGCAGATGCACCAGCTGCTGCTGAGTCGCCTGGTGGCTGGAGCGC
TGCAGCCCCGGCTGCCTCGCCCTGCCCTCAGGTCTACCTGGAGGTTCCACAGGAAGAGCCTGAGGAGGAGGAGG
AGGAGATGGACGTGCGGGAGAAAGGGCCTTTGGTGTTCACCACCCTACTTGCCCTATTTGATGCCCTCCCCGG
GTGCCCTGCTGCCCTGGCCAGCCCCCTTCTTCCCCACCCCTGCTTGTGTCAGCCCTACTTGTCAGGACGTGCCAGGA
TTCAGCACTGTCTGCTCCAGGGAAAGGGAGGTGAGAGCTGTGCCCCACCCCCACCCCCCAGTGCCACAGGGA
CTGTGGGTGCTGATGTACCCCCGGCTTCAGACTACTATGATGCCGAGAGCCTCCTA**TGAGG**ACAGACCCCCGGCCC
TGGGAACTGCACCAGCTTCTGCTCTGGATACAGCCCCGAGCCGCCTCCTGCACCTCTCTTGTGCTGACTCCCCGG
TGCCCATGGCTGGCAGTCCTTCTCACTCCCTCAACCTCAGCCAGGCCCTCTTCTCCTGGGGAAATCAGTCCCTGC
CCCACGCCAATGAGTTCTTGACGGGCCGGATCTGTGCTGTTGTGTAAGAGCTCCCTAGAGCACCACCCAGGCC
TTGAAGCCACGTCAGCCCGCTCTGCCCCACTGCTTCCTGCCTGGAGCAGGGGAGGCCTGGGAACAGAGCCCC
ACCTCTCTCCCTCACCCCTCTCTCTGGGATGATGAGGTCTCCTTCCAGCCTAGTAATGGAGCAAGAGGGGAGGG
GGGGATTCTTCTGCTTTCCACAGCTTTGAAGGCCCTTTGAGGTGGCTGGAGGGGCCCAGAGTGGTCGGGGAGA
GACTTTGCTGGGCAGCGCCCTGAGCAGAGTCAGTTGCTGGGCCCCCACCCCTCATCCAGGAAGCAGCTCTG
TTGGCAGAAAGGAGAGGTGAGAGCTTTGTCTCTGCTGTGGCCAGGAGTGGCCTGAGGTCTCCTGGGGCCAGGTGGG
AACAGTGTGCTCTGCCCCCTGGGCCAGGGTGTGTTCCCCCACCTCCCTCAGTAGCAATGAGCTACTCGGGC
CAGATGGGGGCCGTGTGCATGGGCTGGGAGGCCCTGTGAAGGAGAGGGTGGGAGGGAGGCATCTAGGGAGAGG
GGTCCCCCATGGTGGCTCCCTCCCTGGCCATTGTTATCCAGGAGGAGACACTGTGGGCACAGGGCTAAGTCCA
GGTGTGTTGATTCTGGGCTAGAAAAGGCAATGTCCCAAGTCTCTGCTGCCTGTACAGTCCTTCAGCCAGGGCTGG
ACCTCAACCTGAGGAGTCACACTGAGTTCCAGTGACCACCGTGGTGGTGGCCATGCCACTCATGGTTGCTATGG
CCGGAAGGCCTGGGGCAGCCTCCTCCAAGCCGCTCGCACCCCGTAGGTGCCATCCGCTGCTGGCGCAAGTGCTG
GCCGAAGATGAAGCAGAGCAGGACAGATGTACGAACAGGGACAGCAACACCGACACCACCGTGACTATGATGAC
CATCTGGCTGTCCGACACAGGCTCTGGGGAGGGAGGGGGCAAGGGTCTTAGACGTCCTGTGATCCCAGTTACCAG
GGACCAAAAGGGAGTGGAAGTCCACCCCCAACCCAGACCCCCAGACCCCGCCCGCCGCTCATGCATCCAGCAGTC
ACCCAGTTGCAGAGATGAGTGGTGAATGGTGTCTGCATTAAATATTATCTGGAAAAAAGGTGGCCAGGGCT
CAGGCTACCAGCTGGACTTCTGTGTGGCTGTGAGGGCAGATGTCCCCTTGTGTCAGCAGCCATGGGACCAGTGTGTA
GCTGCTGGACACCGTGGCCTGGAGGGTGGCATGGTCCAGCCAAGCCCCTTCTTGGGCAGAGCTGAGTGAACCTC
ATGCCAGGCTCCCTGTGTGCCGGCCGTCCAGGGTCACCAAGCAGCAGAGCTCTGGGGACCTCAGTGGGGGCAGTC
AGGCCAAACTTCTCATTGTGGAGGGGAGCCAAGGCCAGGGAGAGCCGTCAAGGTGATGGGGCTTGATGGTGGCCG
AGGAAC TAGTTGACCTCTCCCGACCTCTGGAGCAGTTGAGGTCCAAGCTGGGGACTTGGAAGAAGCTTCAGGGAA
GAGGGAGAGTAAGAGGGAAGCCTCAGGATGAAGGGTGGGCTCCTGGGTGTTTGCTTCCCAAGTGGGACTCAAGAT
TTTTCTTCCCCGAGGGGCTGAAAGTGACTTATCACTCCCAACTCCATCCACGGATCCCCCTCACCATAGATCT
CCAACATCTTCGGGGCTGAGTGTGTTGTGAAAGATGTTGCCACCGCGAGACATCAAGTCCAGCACAGCCAGGCAGG
AGAAGTTGCGGTGGCCATCCTCTCTGTGTCAGCCGTGCTGTTGAATGTGGCTGTGGCCTCCTGCGGAGCAGGGGCTG
CCTTCCCGAAGGTCTCATAGTGCAGAGTCTCATTGCCACGGAACAGGAAGAGGGTGAGGCTGTCCAGGGGCTCCA
CGGTGGGCACCTGCACTCAATGGTGAAGGACTTGCCACAGCCACCAAGTGGGTTGCAGTGTGAGGATGACCT
GCCTTGGAGGCTCTGCAGGGGACAAAGGAGGGAGGTCTGGTCAGGATGGGGGTGAGTCCAGCAGCCTCCCCCT
GGCCAGGGCCATCTCCTGTACCATGGTGTTCACGGTTGGGGAGGAGGTGGCCTGGCCGGCTCCAGTGCAGAGA
GGAAGAGGGCAGCAGTTGAGGATGGAGGCTGGACTGTGTGGTAGTTTTACAGACATGATGGTTTTCCGGTGACCAG
GTGTCTACAAGGACAAGGTTAGAAATTGTACAGCCAAGTGGAAAGATATAAAAGTTTGGGTCTGTCTCCTCTCC
TTCAGAAATGAAATATAAATTTCAAACATTAAACAGTTGGGTGATCACGTTG

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FIGURE 4925

MASGAGGSWGRSPPQSAVPTPWVTFLLQPLSWAVPPAPPQPGRVKEDLLELMMLQNAQMHQLLLSRLVAGALQPRP
ASPCPQVYLEVPQEEPEEEEEEMDVREKGPLVFHHHYLPYLMPSGALLPWPAPFFPTPACQPYLQDVPRIQHCP
ASREREVRAVPPPPPPSATGTVGADVPPASDYDAESLL

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FIGURE 4926

GGCGGCCAAACCTCCGGAGGCCGGGGACGGAAGGCGGGCCCGCAGCAGATCCTGGATCCGGAATCTCCCGGGCAG
GAGCGGAATCTGTCCCGAACCGGGTCTGTGAGGAACTCGCGAACTTGGATTAGGAAATCCCGGAGCCCGGATCGA
CAAATCCCGGAACCCGGAATTAAGATCGCCAAGTCCCGGATCGCGGAGCACAGAGCACGGAGTGGACTCGACGCG
GAGCCCGGAGTCCGGATCGCGGCACCGCGGGACGGGACGGAGCGATGTGCGGGCCGAGGCGCGGGCGGGTTCCCGC
TGCCCCCGCTAAGCCCTGGCGGCGGCGCCGTGGCTGCGGGCCCTGGGAGCGCCGCTCCCCCGCGGGACCCGGCA
TGCTGCCCGGACCGGCGCTCCGGGGACCGGGTCCGGCAGGAGGCGTGGGGGGCCCCGGGGCCCGCGCTTCCGCC
CCATGGGCCCCGCGGGCCCCGCGGCGCAGTACCAGCGACCTGGCATGTACACAGGGAACCGGATGCCATGGCTG
GCTTGCAAGTGGGACCCCTGCTGGCTCCCCATTTGGTGCAGCAGCTCCGCTTCGACCTGGCATGCCACCCACCA
TGATGGATCCATTCCGAAAACGCCTGCTTGTGCCCCAGGCGCAGCCTCCCATGCCTGCCAGCGCCGGGGTTAA
AGAGGAGGAAGATGGCAGATAAGGTTCTACCTCAGCGAATCCGGGAGCTTGTTCAGAGTCTCAGGCGTACATGG
ATCTCTTGGCTTTTGTAGCGGAAGCTGGACCAGACCATTGCTCGCAAGCGGATGGAGATCCAGGAGGCCATCAAAA
AGCCTCTGACACAAAAGCGAAAGCTTCGGATCTACATTTCCAATACGTTTCAGTCCCAGCAAGGCGGAAGGCGATA
GTGCAGGAAGTGCAGGGACCCCTGGGGGAACCCAGCAGGGGACAAGGTGGCTTCCTGGGAAGTCCGAGTGAAG
GAAAAGTGTGGATGATCCTAGCAAAACAGAAGAGGAAGTTTTCTTCATTCTTTAAGAGCCTCGTCATTGAGCTGG
ACAAGGAGCTGTACGGGCCTGACAATCACCTGGTGGAGTGGCACCGGATGCCCACCACCCAGGAGACAGATGGCT
TCCAAGTAAAACGGCCTGGAGACCTCAACGTCAAGTGCACCCTCCTGCTCATGCTGGATCATCAGCCTCCCCAGT
ACAAATTGGACCCCCGATTGGCAAGGCTGCTGGGAGTGCACACGCAGACGAGGGCCGCCATCATGCAGGCCCTGT
GGCTTTACATCAAGCACAACCAGCTGCAGGATGGGCACGAGCGGGAGTACATCAACTGCAACCGTTACTTCCGCC
AGATCTTCAGTTGTGGCCGACTCCGTTTCTCCGAGATTCCCATGAAGCTGGCAGGGTTGCTGCAGCATCCAGACC
CCATTGTCATCAACCATGTCTATTAGTGTGACCCCTAACGACCAGAAGAAGACAGCCTGTTACGACATCGATGTGG
AGGTGGACGACCCACTGAAGGCCCAAATGAGCAATTTTCTGGCCTCTACCACCAATCAGCAGGAGATCGCCTCCC
TTGATGTCAAGATCCATGAGACCAATTGAGTCCATCAACCAGCTGAAGACCCAGAGAGATTTTCATGCTCAGTTTTA
GCACCGACCCCGAGGACTTCATCCAGGAATGGCTCCGTTCCAGCGCCGAGACCTCAAGATCATCACTGATGTGA
TTGGAATCCTGAGGAGGAGAGACGAGCTGCTTTCTACCACCAGCCCTGGGCCCAGGAAGCAGTAGGCAGGCACA
TCTTTGCCAAGGTGCAGCAGCGAAGGCAGGAAGTGAACAGGTGCTGGGAATTCGCCTGACCTAACTGCTCAGGG
ATCTTTCTTCCCAGCCCTGGAGCCTGGAGGGAGACCACCTCTGGGTCTTGCTGGGGCCGAGACACGTAGGCT
GGGGTGAGGAGTGTCTGCTGTCACCCCTCTACTCTCCAGCTTTAGTCTTATAAATGTAGTGATAGGATTCCTTGTT
GCTTGGTCCCCAAAGCCTTATACTTTTGCATTGGCTTTAATTGGGTTTACGAGATGCCTCCTCTGCCCCCTGC
AGGCAGGCCCAAGTAGGACTGCTGGAGGCTGTGCTTTGACATTGTAAGACATTTCCGAACCAAGGCTGCTGGGT
TTGCAIGTTTTACAGACTCCCCCTGGGGCGAGGGTCAGAGCTGGCTCTGGGGAGCTGGGCTAGGAAGAGGAGGTGC
AGCCCAGACTCTTCCTAGCCTTTCTAAACCAAGTTCTTTGCCATTCTTACAAGCCCAGCCTTGCTGCTGGTTTT
TTCCTTTCTTTGGGTATTTGCACTATTTTGGGAGCAAGTTTTCTATGTGGGAGCCACTTTTTTTGTACAGGGGT
AAGTTGGGGGTTTTTCAGGGAGCCTGTTAGGTGCCTCCTTCTTTTCTTCTCAATCTATGCAAGCGGCTCTGGCC
GCCATCATCTCCTGGGATGCCAGAGGGCTGCCTCTCCAGCGGCTTGGGCCGGGGAGGGGACACTCCAGTTCTCTA
GCATGGCCTGAGGTATGGGGTATGTGCATGTGGAGGCCAGGGTAAGGTGAATGGGGAGGCTGGGAGGACTGGTGT
TGCCCTTTGGAGCTTGGTGAGGAGGGTGGGCCTAGGGCTTGGCGAGTGCCACATCTGGCAGGTTTGGAATTTCC
AAATAAATCCTTTTGTCT

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FIGURE 4927

ATGGCGCTTGACGGACCAGAGCAGATGGAGCTGGAGGAGGGGAAGGCAGGCAGCGGACTCCGCCAATATTATCTG
TCCAAGATTGAAGAACTCCAGCTGATTGTGAATGATAAGAGCCAAAACCTCCGGAGGCTGCAGGCACAGAGGAAC
GAACTAAATGCTAAAGTTTCGCCTATTGCGGGAGGAGCTACAGCTGCTGCAGGAGCAGGGCTCCTATGTGGGGGAA
GTAGTCCGGGCCATGGATAAGAAGAAAAGTGTGGTCAAGGTACATCCTGAAGGTAAATTTGTTGTAGACGTGGAC
AAAAACATTGACATCAATGATGTGACACCCAATTGCCGGGTGGCTCTAAGGAATGACAGCTACACTCTGCACAAG
ATCCTGCCCAACAAGGTAGACCCATTAGTGTCACTGATGATGGTGGAGAAAGTACCAGATTCAACTTATGAGATG
ATTGGTGGACTGGACAAACAGATCAAGGAGATCAAAGAAGTGATCGAGCTGCCTGTAAAGCATCCTGAGCTCTTC
GAAGCACTGGGCATTGCTCAGCCCAAGGGAGTGCTGCTGTATGGACCTCCAGGCACTGGGAAGACACTGTTGGCC
CGGGCTGTGGCTCATCATACGGAAGTGTACCTTTATTCTGTCTCTGGCTCTGAACTGGTACAGAAAATTCATAGGG
GAAGGGGCAAGAATGGTGAGGGAGCTGTTTGTTCATGGCACGGGAACATGCTCCATCTATCATCTTCATGGACGAA
ATCGACTCCATCGGCTCCTCGCGGCTGGAGGGGGGTTCTGGAGGGGACAGTGAAGTGCAGCGCACGATGCTGGAG
TTGCTCAACCAGCTCGACGGCTTTGAGGCCACCAAGAACATCAAGGTTATCATGGCTACTAATAGGATTGATATC
CTGGACTCGGCACTGCTTCGCCCAGGGCGCATTGACAGAAAAATTGAATTCCCACCCCCCAATGAGGAGGCCCGG
CTGGACATTTTGAAGATTCACTCTCGGAAGATGAACCTGACCCGGGGGATCAACCTGAGAAAAATTGCTGAGCTC
ATGCCAGGAGCATCAGGGGCTGAAGTGAAGGGCGTGTGCACAGAAGCTGGCATGTATGCCCTGCGAGAACGGCGA
GTCCATGTCACTCAGGAGGACTTTGAGATGGCAGTAGCCAAGGTCATGCAGAAGGACAGTGAGAAAAACATGTCC
ATCAAGAAATTATGGAAGTGAGTGGACAGCCTTTGTGTGTATCTCTCCAATAAAGCTCTGTGGGCCAAGTC

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FIGURE 4928

MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLIVNDKSQNLRRLQAQRNELNAKVRLIREELQLLQEQGSYVGE
VVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSTLHKILPNKVDP LVSLMMVEKVPDSTYEM
IGGLDKQIKEIKEVIELPVKHPELFEALGIAQPKGVLLYGPPGTGKTLLARAVAHHTDCTFIRVSGSELVQKFIG
EGARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSGGDSEVQRTMLELLNQLDGFEATKNIKVIMATNRIDI
LDSALLRPGRIDRKIEFPPPNEEARLDILKIHSRKMNLTRGINLRKIAELMPGASGAEVKGVCTEAGMYALRERR
VHVTQEDFEMAVAKVMQKDSEKNMSIKKLWK

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FIGURE 4929

ATACTTGTGCGGTTCCAAGTGTGGAGAAAGCGGCTCTGGGTCTAGATTGAGGGATACTCCCCCTTTCCACC**ATGG**
GCAAGAAGGGCAAAGTTGGCAAGAGCCGACGAGACAAGTTTTATCACTTGGCGAAGGAGACGGGTTACCGTTCCC
GATCTGCTTTCAAGCTGATCCAGCTCAATCGCCGCTTTTCAGTTCCCTGCAGAAAGCCCGAGCCTTGCTGGACCTGT
GTGCTGCGCCAGGGGGATGGCTGCAGGTAGCTGCCAAGTTTATGCCTGTATCCAGCCTTATTGTGGGAGTGGACC
TGGTTCGAATCAAGCCTCTCCCCAATGTGGTGACTCTCCAGGAGGACATCACAAACAGAACGTTGTAGGCAGGCCC
TGAGGAAGGAGCTGAAGACCTGGAAGGTTGATGTTGTGCTCAATGATGGGGCCCCAACGTTGGGGCTAGCTGGG
TCCATGATGCTTACTCACAAGCCCATTTGACACTGATGGCTCTACGTTTGGCTTGTGACTTTTTTGGCCCGTGGTG
GCAGCTTCATCACAAAGGTTTTCCGTTCTCGTGACTATCAGCCTCTGCTATGGATCTTTCAGCAGCTGTTCCGCC
GTGTCCAGGCCACCAAGCCCCAAGCCTCTCGCCATGAATCTGCAGAGATCTTTGTAGTCTGCCAAGGATTCCCTGG
CCCCTGACAAGGTTGACAGTAAATTCTTTGACCCCAAATTTGCCTTTAAGGAGGTTGAAGTTCAGGCTAAGACCG
TTACTGAATTGGTTACTAAGAAGAAGCCAAAGGCTGAAGGCTATGCTGAGGGTGACCTCACTCTCTATCACCGTA
CCTCAGTCACTGACTTCCCTCCGAGCTGCCAACCCCTGTTGACTTCCCTCTCCAAGGCCAGCGAAATCATGGTAGATG
ATGAAGAGTTGGCACAGCATCCAGCTACCACTGAGGACATACGGGTGTGCTGTGTCAGGACATCAGAGTGTGGGGC
GCAAGGAGCTCAGGTCGCTACTAACTGGAGAACAAAACCTTCGGCGATATGTGGCCAAGAAGCTGAAAGAACAAG
CAAAGGCACTGGACATCAGCCTCAGCTCTGGAGAGGAAGATGAAGGTGATGAGGAGGACTCAACAGCTGGAACCA
CAAAGCAGCCCTCTAAGGAGGAGGAGGAAGAGGAGGAGGAACAACCTGAACCAGACCTTGGCAGAAATGAAGG
CCCAGGAGGTGGCGGAATTGAAGAGGAAGAAAAAGAGCTGTTGCGTGAGCAGAGAAAGCAGCGGGAGCGTGTGG
AGCTGAAGATGGATCTGCCTGGGGTTTTCCATTGCAGACGAGGGGGAGACTGGCATGTTCTCCTTGTGCACCATCC
GGGGTCACCAGTTATTAGAGGAAGTAACACAAGGGGATATGAGTGCAGCAGACACATTTCTGTCCGATCTGCCAA
GGGATGATATCTATGTGTGATGTTGAGGACGACGGTGATGACACATCTCTGGATAGTGACCTGGATCCAGAGG
AGCTGGCAGGAGTCAGGGGACATCAGGGTCTAAGGGACCAAAAGCGTATGCGACTTACTGAAGTGCAAGATGATA
AAGAGGAGGAGGAGGAGGAGAATCCACTGCTGGTACCACTGGAGGAAAAGGCAGTACTGCAGGAAGAACAAGCCA
ACCTGTGGTTCTCAAAGGGCAGCTTTGCTGGGATCGAGGACGATGCCGATGAGGCCCTGGAGATCAGTCAGGCCC
AGCTGTTATTTGAGAACCGGCGGAAGGGACGGCAGCAGCAGCAGAAGCAGCAGCTGCCACAGACACCCCCCTTCT
GTTTGAAGACTGAGATAATGTCTCCCCTGTACCAAGATGAAGCCCCCTAAGGGAACAGAGGCTTCTTCGGGGACAG
AAGCTGCCACTGGCCTTGAAGGGGAAGAAAAGGATGGCATCTCAGACAGTGATAGCAGTACTAGCAGTGAGGAAG
AAGAGAGCTGGGAACCCCTCCGTGGTAAGAAGCGAAGCCGTGGGCCCTAAGTCAGATGATGACGGGTTTGAGATAG
TGCCTATTGAGGACCCAGCGAAACATCGGATACTGGACCCCGAAGGCCTTGCTCTAGGTGCTGTTATTGCCTCTT
CCAAAAGGCCAAGAGAGACCTCATAGATAACTCCTTCAACCGGTACACATTTAATGAGGATGAGGGGGAGCTTC
CGGAGTGGTTTGTGCAAGAGGAAAAGCAGCACCGGATACGACAGTTGCCTGTTGGTAAGAAGGAGGTGGAGCATT
ACCGGAAACGCTGGCGGGGAAATCAATGCACGTCCCATCAAGAAGGTGGCTGAGGCTAAGGCTAGAAAGAAAAGGA
GGATGCTGAAGAGGCTGGAGCAGACCAGGAAGAAGGCAGAAGCCGTGGTGAACACAGTGGACATCTCAGAACGAG
AGAAAGTGGCACAGCTGCGAAGTCTCTACAAGAAGGCTGGGCTTGGCAAGGAGAAACGCCATGTACCTACGTTG
TAGCCAAAAAAGGTGTGGGCCGCAAAGTGCGCCGGCCAGCTGGAGTCAGAGGTCATTTCAAGGTGGTGGACTCAA
GGATGAAGAAGGACCAAGAGCACAGCAACGTAAGGAACAAAAGAAAAAACACAAACGGAAG**TAA**GCAGAGCTGC
CAGGCTCCCAGGAGAGCATGGGGACTAGGAGGAAGGGTGTGGCATGGCTCAGTCTGGCCCCCTTGATTACCGGCC
TAGCCCCTGCTCACATCACAGCTGTCTGAAGAACAGTGAGGTGGAGTGCCTAGAACTCCCGTGGTGGTCTCTGAGC
AGAGAGGAGGATGTCTCTGCTGCCTGAAGGTCTCCCATGAAAACACTGCTGAAGTGTGTTGACACTCATGAC
CCTTTTTTTAAACCGTTAAAGGGAAGTTCGGTGTGGAGCGATACTCAATGTAGTCAGTCTACACCTGGACGTGT
GGGCCACTTAAGCCCTCCCCACCCCATCCTATTCTTAAATAAAACCAGGATAATGGAAAAAAAAAAAAAAAAA

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FIGURE 4930

MGKKGKVGKSRRDKFYHLAKETGYRSRSAFKLIQLNRRFQFLQKARALLDLCAAPGGWLQVAAKFMVSSSLIVGV
DLVPIKPLPNVVTLQEDITTERCRQALRKELKTWKVDVVLNDGAPNVGASWVHDAYSQAHLTLMALRLACDFLAR
GGSFITKVFRSRDYQPLLWIFQQLFRRVQATKPQASRHESAEIFVVCQGFLAPDKVDSKFFDPKFAPKEVEVQAK
TVTELVTKKKPKAEGYAEGDLTLYHRTSVTDFLRAANPVDFLSKASEIMVDDEELAQHPATTEDIRVCCQDIRVL
GRKELRSLLNWRTKLRRYVAKKLKEQAKALDISLSSGEEDEGDEEDSTAGTTKQPSKEEEEEEEEEQLNQTLAEM
KAQEVAEKRRKKKLLREQRKQRERVELKMDLPGVSIADGETGMFSLCTIRGHQLLEEVTVQGDMSAADTFLSDL
PRDDIYVSDVEDDGDDTSLDSDLDPPELAGVRGHQGLRDQKRMRLTEVQDDKEEEEEENPLLVPLEEKAVLQEEQ
ANLWFSKGSFAGIEDDADEALEISQAQLLFENRRKGRQQQKQQLPQTPPSCLKTEIMSPPLYQDEAPKGTEASSG
TEAATGLEGEEKDGISDSSTSSEEEESWEPLRGKKRSRGPKSDDDGFEIVPIEDPAKHRILDPEGLALGAVIA
SSKKAKRDLIDNSFNRYTFNEDEGELPEWFVQEEKQHRIRQLPVGKKEVEHYRKRWREINARPIKKVAEAKARKK
RRMLKRLEQTRKKAEEAVVNTVDISEREKVAQLRSLYKKAGLGKEKRHVITYVAKKGVGRKVRRPAGVRGHFKVVD
SRMKKDQRAQQRKEQKKKHKRK

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FIGURE 4931

ATCCCTTGGAGGCATTCA**ATG**GCTGAAGTGGAGGATCAGGCAGCTAGAGACATGAAGAGGCTTGAAGAAAAGGACA
AGGAAAGAAAAACGTAAAGGGTATTCGAGATGACATTGAAGAGGAAGATGACCAAGAAGCTTATTTTCGATACA
TGGCAGAAAACCCAACTGCTGGTGTGGTTCAGGAGGAAGAGGAAGACAATCTAGAATATGATAGTGACGGAAATC
CAATTGCACCTACCAAAAAAATCATTGATCCTCTTCCCCCATTGATCATTGAGAGATTGACTATCCACCATTG
AAAAAACTTTTACAATGAGCATGAAGAGATAACCAACCTCACTCCACAGCAGTTAATAGATCTCCGGCATAAGC
TCAATCTTCGGGTCTCTGGTGCTGCACCTCCTAGACCAGGAAGTAGCTTTGCTCATTTTGGGTTTGACGAACAAC
TTATGCACCAGATTTCGGAATCTGAATACACACAGCCCACTCCAATACAGTGCCAGGGTGTGCCTGTGGCATTAA
GTGGTAGAGACATGATTGGTATTGCCAAAAACAGGTAGTGGGAAAACCTGCAGCCTTCATTGCCCCATGTTGATTC
ATATAATGGACCAGAAGGAGTTGGAACCAGGTGATGGACCAATTGCAGTGATTGTGTGTCTTACCAGGGAGCTTT
GCCAGCAGATCCATGCAGAATGTAAGCGGTTTGGAAGCATATAATCTTCGATCAGTGCCCGTATATGGAGGAG
GGAGTATGTGGGAGCAGGCCAAGGCCCTTCAGGAGGGGGCAGAGATTGTTGTGTGTACCCAGGTGCGACTGATAG
ATCATGTGAAAAAGAAAGCTACCAATCTTCAAAGAGTCTCTTACCTTGTGTTTGATGAAGCAGATCGAATGTTTG
ACATGGGATTTGAGTACCAAGTTCGATCCATAGCAAGTCATGTTCTGTCCTGACAGGCAGACTCTCTTATTTAGTG
CAACTTTTCGGAAGAAGATTGAAAAGTTGGCCAGAGACATCCTGATCGACCCTATTTCGAGTGGTGCAGGGAGATA
TTGGAGAGGCCAAATGAAGATGTGACACAGATTGTGGAGATTCTCCATTCTGGACCTAGTAAATGGAACCTGGCTTA
CCCGGCGTCTGGTAGAATTTACCTCTTCAGGGAGTGTCTCCTCTTTGTTACTAAAAAGCCAATGCTGAAGAGC
TAGCGAATAACCTTAAACAGGAGGGTCATAATCTTGGGCTGCTCCATGGGGATATGGATCAGAGTGAGAGAAACA
AGGTCATTTTCAGACTTTAAGAAAAAGGACATCCAGTCTGGTGGCCACAGATGTTGCAGCCCGTGGTCTGGACA
TTCCTTCAATTAAGACTGTCAATTAATATGATGTGGCAGCAGACATTGATACCCACACGCATAGGATTGGCCGCA
CAGGAAGAGCGGGTGAGAAAGGTGTGGCCTATACCCTACTCACTCCCAAGGACAGCAATTTTGCTGGTGACCTGG
TCCGGAACCTTGAAGGAGCCAATCAACACGTTTCTAAGGAACCTCTAGATCTGGCAATGCAGAATGCCCTGGTTTC
GGAAATCTCGATTCAAAGGAGGGAAAGGAAAAAGCTGAACATTGGTGGAGGAGGCCTAGGCTACAGGGAGCGGC
CTGGCCTGGGCTCTGAGAACATGGATCGAGGAAATAACAATGTAATGAGCAATTATGAGGCCTACAAGCCTTCCA
CAGGAGCTATGGGAGATCGACTAACGGCAATGAAAGCAGCTTTCAGTACAGTACAAGAGTCACTTTGTTGCAG
CCAGTTTAAGTAATCAGAAGGCTGGAAGTTCTGCTGCTGGGGCAAGTGGGTGGACTAGTGAGGGGAGCTTGAATT
CTGTTCCAACCTAAGTACAGCACAACAGGGCCATAACAGTCTTGACAGCCCCGTACCAGTGCCGCCAAGGGCATCC
CAGGCTTTGGCAATACTGGCAACATCAGTGGTGCCCTGTGACCTACCCGTCTGCCGGAGCCCAAGGAGTCAACA
ACACAGCTTCAGGGAATAACAGCCGAGAAGGGACTGGGGGCAGCAACGGGAAAAGAGAGAGATATACTGAGAACC
GGGGCAGCAGCCCGTCACAGTCACGGAGAGACTGGCAATCGGCATAGCGATAGTCCACGTACCGGAGATGGTGGT
CGCCATGGAGATGGATACCGCCATCCAGAAAGCAGCAGCCGTCTACTGATGGCCATCGGCACGGGGAGAACAGA
CATGGAGGAAGCGCAGGCCGGCATGGGGAGAACCGGGGTGCAATGATGGTGGGAATGGGGAAAGCAGGAAAGAA
GCTTTTAAATCGTGAGAGCAAGATGGAGCCCAAGATGGAACCCAAAGTGGACAGCAGCAAGATGGACAAGGTGGAC
AGCAAGACAGATAAGACAGCTGACGGCTTTGCTGTCCAGAGCCGCCTAAACGCAAGAAAAGTGCATGGGACAGT
TAGAGGGGATGTGCTAAAGCGTGAAATCAGTTGTCTTAATTTTTAGAAAGATTTTGGTAACTAGGTGTCTCAGG
GCTGGGTTGGGGTCCAAAGTGAAGGACCCCTGCCCTTAGTGGAGAGCTGGAGCTTGAGACATTACCCCTTCA
TCAGAAGGAATTTTCGGATGTTTTCTTGGGAAGCTGTTTTGGTCTTGGGAAGCAGTGAGAGCTGGGAAGCTTCTT
TTGGCTCTAGGTGAGTTGTCTATGTGGGTAAAGTTGAGGTTATCTTGGGATAAAGGGTCTTCTAGGGCACAAAACCTC
ACTCTAGGTTTATATTGTATGTAGCTTATATTTTTTACTAAGGTGTACCTTATAAGCATCTATAAATTGACTTC
TTTTTCTTAGTTGTATGGCCAGGCAGTCCCCATTTAGGAGTTGGCTTCTGCAAATTCATCCATTGAGCTAACT
GTTGGGGAGCAATTTGGTAGTTGTAGACATTTGCAGGGAAGGGAGATGTCTGATTCTAAATGGGAGTTGATGCTC
AGGTCCCCAGCCAGGTTTGCATCCAGCCCTGAGACATGTAGGAAACACCTTTCAGACCCAGGCTCTGAAGATTCC
CAGAAGCCACAAGGATTGAAGGGAAAAGGTGATCCTGGTAACTGTTCCAGGATTGCTCCAGGTTTGAGATGGTAT
TGCTAAATTTAAATTAACAAGAAACCAACAACAGCTTTTAAAGTGTCTTCTATCTCATTGTATTTTTTTTAA
CTTGCCCCAATGATAGAAAAGTCTTTTGCTGAAATGATTTTGATGATTTTGTGTTATCGTTTATAAAAAGGAAAA
GAAATATACAACTTTGACTTTTGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4932

MAEVEDQAARDMKRLEEKDKERKNVKGIRDDIEEEDDQEAYFRYMAENPTAGVVQEEEEEDNLEYDS DGNPIAPTK
KIIDPLPPIDHSEIDYPPFEKNFYNEHEEITNLTPQQLIDLRHKLNLRVSGAAPPRPGSSFAHFGFDEQLMHQIR
KSEYTQPTPIQCQGV PVALSGRDMIGIAKTGSGKTAAFIWPMLIHIMDQKELEPGDGPIAVIVCPTRELCQQIHA
ECKRFGKAYNLRSVAVYGGGSMWEQAKALQEGAEIVVCTPGRLIDHVKKKATNLQRVSYLVFDEADRMFDMGFY
QVRSIASHVRPDRQTLLFSATFRKKIEKLARDILIDPIRVVQGDIGEANEDVTQIVEILHSGPSKWNWLTRRLVE
FTSSGSVLLFVTKKANAEELANNLKQEGHNLGLLHGDMDQSERNKVISDFKKKDIPVLVATDVAARGLDIPS IKT
VINYDVARDIDTHTHRIGRTGRAGEKGVAYTLLTPKDSNFAGDLVRNLEGANQHVSKELLDLAMQNAWFRKSRFK
GGKGKKLNIGGGGLGYRERPGLGSENMDRGNNVMSNYEAYKPSTGAMGDRLTAMKAAFQSQYKSHFVAASLSNQ
KAGSSAAGASGWT SAGSLNSVPTNSAQQGHNSPDSEVTSAAKGIPGFGNTGNISGAPVTYP SAGAQGVNNTASGN
NSREGTGGSNGKRERYTENRGSSPSQSRRDWQSA

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FIGURE 4933

CCGCCGCCGGGGCCCCCGGCATGCAGCCCCGGCTGCGGAGGTGACACTCACGGACCTTAGCCACCGCCGCGCCCA
TCGCCACCATGGACGAACAGGAGGCATTGAACTCAATCATGAACGATCTGGTGGCCCTCCAGATGAACCGACGTC
ACCGGATGCCTGGATATGAGACCATGAAGAACAAAGACACAGGTCACCTCAAATAGGCAGAGTGACGTCAGAATCA
AGTTCGAGCACAACGGGGAGAGGCGAATTATAGCGTTCAGCCGGCCTGTGAAATATGAAGATGTGGAGCACAAGG
TGACAACAGTATTTGGACAACCTCTTGATCTACATTACATGAACAATGAGCTCTCCATCCTGCTGAAAAACCAAG
ATGATCTTGATAAAGCAATTGACATTTTAGATAGAAGCTCAAGCATGAAAAGCCTTAGGATATTGCTGTTGTCCC
AGGACAGAAACCATAACAGTTCCTCTCCCCACTCTGAGGTGTCCAGACAGGTGCGGATCAAGGCTTCCCAGTCCG
CAGGGGATATAAATACTATCTACCAGCCCCCGAGCCGAGAAGCAGGCACCTCTCTGTGACGCTCCCAACCCTG
GCCGAAGCTCACCTCCCCCTGGCTATGTTCTGAGCGGCAGCAGCACATTGCCCGGCAGGGGTCCTACACCAGCA
TCAACAGTGAGGGGGAGTTCATCCCAGAGACCAGCGAGCAGTGCACTGCTGGATCCCCTGAGCAGTGCAAAAATT
CCTTGCTGTGGAAGCTGCCAATCCTTGACAGGTGAGCAGACAGCCCATCCTTCCGGAAATCACGAATGTCCCGTG
CCCAGAGCTTCCCTGACAACAGACAGGAATACTCAGATCGGGAAACTCAGCTTTATGACAAAGGGGTCAAAGGTG
GAACCTACCCCCGGCGCTACCACGTGTCTGTGACACCACAAGGACTACAGTGATGGCAGAAGAATTTCCCCGAA
TACGGCGTCATCAAGGCAACTTGTTACCCCTGGTGCCCTCCAGCCGCTCCCTGAGCACAAATGGCGAGAACATGG
GTCTGGCTGTGCAATACCTGGACCCCCGTGGGCGCCTGCGGAGTGCGGACAGCGAGAATGCCCTCTCTGTGCAGG
AGAGGAATGTGCCAACCAAGTCTCCAGTGCCCCCATCACTGGCGCCGGGGAAAGCTCCTGGGCCAGGGTGCCCT
TCGGCAGGGTCTATTTGTGCTATGACGTGGACACGGGACGTGAACTTGCTTCCAAGCAGGTCCAATTTGATCCAG
ACAGTCCTGAGACAAGCAAGGAGGTGAGTGCTCTGGAGTGCGAGATCCAGTTGCTAAAGAACTTGACAGCATGAGC
GCATCGTGCACTACTATGGCTGTCTGCGGGACCGCGCTGAGAAGACCCTGACCATCTTCATGGAGTACATGCCAG
GGGGCTCGGTGAAAGACCAAGTTGAAGGCTTACGGTGCTCTGACAGAGAGCGTGACCCGAAAGTACACGCGGCAGA
TCCTGGAGGGCATGTCTACCTGCACAGCAACATGATTGTTTACCCGGACATTAAGGGAGCCAACATCCTCCGAG
ACTCTGCTGGGAATGTAAAGCTGGGGGACTTTGGGGCCAGCAAACGCCTGCAGACGATCTGTATGTGCGGGACGG
GCATGCGCTCCGTCACTGGCACACCCTACTGGATGAGCCCTGAGGTGATCAGCGGCGAGGGCTATGGAAGGAAAG
CAGACGTGTGGAGCCTGGGCTGCACTGTGGTGGAGATGCTGACAGAGAAAACCCAGTGGGCAGAGTATGAAGCTA
TGCCCGCCATCTTCAAGATTGCCACCCAGCCCACCAATCCTCAGCTGCCCTCCACATCTCTGAACATGGCCGGG
ACTTCTGAGGCGCATTTTTGTGGAGGCTCGCCAGAGACCTTCAGCTGAGGAGCTGCTCACACACCACTTTGCAC
AGCTCATGTACTTGAGCTCTCACGGCCACACAGCTGCCGGTGCCTTTTGTGTCATGGCAGGGGGCTGCTGCTGGG
CTCAGTGAAGTTGCTGCTTCTCCCAGGCAAGGCTGTGGACCATGGAGTGGCAGCCAGCCAGCGTGGTCTGTGC
CCCTTCCGCCACTGGGGCTCAGAGCCGGGGTGGGGTGGCTGCAGCCTCAGGACTGGGAGCCCCCAGCCTGTGAGA
TCCAGGAGCTCCAGTGTCTGAGCTCAGCGTGGAGGGGTAGGGGCTGGGAACAGTGTGCAAGGCAGCCGTGGGCC
CCACCCTCGGGGATGTGTCTCTGACACTGCAATTGGCACCCGAAGCCAGAGGGTCTGGGGGCACAAGACTGACGCC
AGGGTATGAAGAGTGTTATTTTCAATCAAAAGTGTTATTTTGTTTTTTCTTCCAATGTCTGGAGACCACCAGGGCA
TCTCTGGGCTGGATGAGCTCCCACAAGCCTGAGGGAAAGGCCAGCACTCGCTAGCAGTGGCAGGCAGAGGCCAG
GCTGCCGTCCCCTAGAGTCCCAGGTTGGCTCTGCCAGTCTGTCTTTTACCAAAGATGAATGAAGCAAATGTGAT
GCTGCCTTATTACAGGAAGGAGGAGCCTGTCTGCTGTGGCCATGACCCTGCCTCTCCAGGCAGGGGCCCGCG
ATGTGGAAGTGTGCCACTGAGGGGGGATCCAGTTTTGTCAATGCAGTTGTCTCTGTTTTACAAGTTGGAGTCAC
TCTTATGCTGTACCCAGTTTCTAAACTGGAGACTGTGTGTGCCCTCTGGGCTCTGAGTACCCCTGCTTTGGGCTT
GGGCTAGGCTGCATTGAAAAGAGCTGAAGGTTGTGGCCTTTGCGCTCCTGGCCCAGCCTTTGTTCCCCACTGGA
GCAGAAGGGGAGATGGACGACACGGTGGGGGCATCTGGCCTGGCCAGTGCCCTGATCCCAGAGAGCCCCGAGGAGG
TGTCTCAGGCTGCCTGAGTCGTGACCTGCTAGGCCAGAGCCCACTCCATCTGGTAGAAGGGAAAGCCCATATGCT
ACCACCAGCTGTGTCCAAAACCGCCAGCTCTGTTCTTCTCAGCCAGCCTCGCCCATCCCCCTTGAGGTCTCAGCC
CCTTTCCCTTGTAGCTCCTCCCCTGGAGGGGGAATGGCAGCAGGGGTGGGGAAACAGCATCTCCAAGCAGCTTA
GAGTTGGCCATATTTACCTCAGCCTGGGCGCTGGTCCTTTCTTCCGGCCCTCCCCTCCAAAATGTGCCATTGCT
TAGAGCTCCTCCCTCTCAACACCCAGTTTCTTGGGAGTTGTCATTAAAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4934

MDEQEALNSIMNDLVALQMNRRHRMPGYETMKNKDTGHSNRQSDVRIKFEHNGERRIIAFSRPVKYEDVEHKVTT
VFGQPLDLHYMNNELSILLKNQDDLDKAIDILDRSSSMKSLRILLLSQDRNHNSSSPHSEVSRQVRIKASQSAGD
INTIYQPPEPRSRHLSVSSQNPGRSSPPPGYVPERQQHIARQGSYTSINSEGEFIPETSEQCMLDPLSSAENSL
GSCQSLDRSADSPSFRKSRMSRAQSFPDNRQEYSDRETQLYDKGVKGGTYPRRYHVSVHHKDYS DGRRTFPRIRR
HQGNLFTLVPSRSLSTNGENMGLAVQYLDPRGRLRSADSENALSVQERNVPTKSPSAPINWRRGKLLGQGAFGR
VYLCYDVDTGRELASKQVQFDPDSPETSKEVSALECEIQLLKNLQHERIVQYYGCLRDRAEKTTLTIFMEYMPGGS
VKDQLKAYGALTESVTRKYTRQILEGMSYLHSNMIVHRDIKGANILRDSAGNVKLGDFGASKRLQTICMSGTGMR
SVTGTPYWMSPEVISGEGYGRKADVWSLGTVEMLTEKPPWAEYEAMAAIFKIIATQPTNPQLPSHISEHGRDFL
RRIFVEARQRP SAEELLTHHFAQLMY

FIGURE 4935

AGAAGGAGGCCCAACCCCTGAGCACAAACAGCAACCTGGCCAATATCTTAGAGGTGTGTGCGAGCAAAACATATGCC
CAAGTCAACGATTGAGACAGCACTGAAAATGGAGAAAATCCAAGGACACTTATTTGCTGTATGAGGGTTCGAGGCC
TGGTGGCTCTTCTCTGCTCATCGAGGCATTATCTAACAGTAGCCACAAGTGCCAAGCAGACATTAGACATATCCT
GAATAAGAATGGAGGAGTGATGGCTGTAGGAGCTCGTCACTCTTTTGACAAAAAGGGGGTGATTGTGGTTGAAGT
GGAGGACAGAGAGAAGAAGGCTGTGAACCTAGAGCGTGCCCTGGAGATGGCAATCGAAGCAGGAGCTGAGGATGT
CAAGGAAACTGAAGATGAAGAAGAAAGGAACGTTTTTAAATTTATTTGTGATGCCTCTTCACTGCACCAAGTGAG
GAAGAAGCTGGACTCCCTGGGCCTGTGTTCTGTGTCTCTGTGCACTAGAGTTCATCCCCAACTCAAAGGTGCAGCT
GGCTGAGCCCGACCTGGAACAGGCCGCACATCTCATTAGGCTCTCAGCAACCACGAGGATGTGATTACAGTCTA
TGATAACATTGAATAACCAGGCTACATGTGCCCCCGGGTTCTTCTTAGAAATGTGGCAGCCCATTCAGCACAC
AGGCTTCTGCAGCAATCTCTGAGGGTAAAGCCGGTGGGAGGCTCAGCAGGCCAGGAGGCCCAAGGACAGGACTTG
CGACCTTGAAGCCAAAGGAATCTCACTTGTGGGGCCTCCTTGTGAGCTCTGCTGCTGTCTCAGAGCCATCTGGAT
GAGTGTCCCAGACCCCTCTCGGATGCAGGGCAGGACCACCCAGCTGGTCAGACTCTGATGTTGGGTAGCTGGCCT
CTGTGGGGATTGTAAGTGCCCTGAGGCGCTCTGTACTAGAACTGCTCTTAATAATAACGGTGATTATTGGTTGC
TGC

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FIGURE 4936A

CGGAGGAGGACGCGAGCCCCCTTGCGGGCGGTTCATCACAGCCCAGCCTCGGGGCTGCCACAGCGCGTTGCGCCTGT
GCGCCCTCGGTCCCCGCGTCCACTGAGCGCCGCGCTCGGGG**ATG**GGGCCCCGGCCGGCCGGCCCCCGCGCCCTGGC
CTCGTCACCTGCTGCGCTGCGTCTCTCGGGTGCCTGCACCTCGGCCGTCCCGGCGCCCCCTGGGGACGCCG
CCCTCCCGGAACCCAACGTCTTCTCATCTTCAGCCATGGACTGCAGGGCTGCCTGGAGGGCCCAGGGCGGGCAGG
TCAGAGTCACCCCGGCTTGCAATACCAGCCTCCCTGCCAGCGCTGGAAGTGGGTCTCCCCGAAACCGGCTATTCA
ACCTGGGTACCATGCAGTGCCTGGGCACAGGCTGGCCAGGCACCAACACCACGGCCTCCCTGGGCATGTATGAGT
GTGACCGGGAAGCACTGAATCTTCGCTGGCATTGTCGTACACTGGGTGACCAGCTGTCTTGGCTCTGGGGGCC
GCACCAGCAACATATCCAAGCCTGGCACCCCTTGAGCGTGGTGACCAGACCCGAGTGGCCAGTGGCGCATCTACG
GCAGCGAGGAGGACCTATGTGCTCTGCCCTACCACGAGGTCTACACCATCCAGGGAAACTCCCACGGAAAGCCGT
GCACCATCCCCCTTCAAATATGACAACCAAGTGGTTCCACGGCTGCACCAGCACGGGCCGCGAGGATGGTCACCTGT
GGTGTGCCACCACCCAGGACTACGGCAAAGACGAGCGCTGGGGCTTCTGCCCCATCAAGAGTAACGACTGCGAGA
CCTTCTGGGACAAGGACCAGCTGACTGACAGCTGCTACCAGTTTAACTTCCAGTCCACGCTGTCTGGAGGGAGG
CCTGGGCCAGCTGCGAGCAGCAGGGTGCAGATCTGCTGAGCATCACGGAGATCCACGAGCAGACCTACATCAACG
GCCTCCTCACTGGGTACAGCTCCACCCTGTGGATCGGCTTGAATGACTTGGACACGAGCGGAGGCTGGCAGTGGT
CGGACAACCTCGCCCCCTCAAGTACCTCAACTGGGAGAGTGACCAGCCGGACAACCCCACTGAGGAGAACTGTGGAG
TGATCCGCACTGAGTCCTCGGGCGGTGGCAGAACCGTGACTGCAGCATCGCGCTGCCCTATGTGTGCAAGAAGA
AGCCCAACGCCACGGCCGAGCCACCCCTCCAGACAGGTGGGCCAATGTGAAGGTGGAGTGGAGCCGAGCTGGC
AGCCCTTCCAGGGCCACTGCTACCGCTGCAGGCCGAGAAGCGCAGCTGGCAGGAGTCCAAGAAGGCATGTCTAC
GGGGCGGTGGCGACCTGGTCAGCATCCACAGCATGGCGGAGCTGGAATTATCACCAAGCAGATCAAGCAAGAGG
TGGAGGAGCTGTGGATCGGCCTCAACGATTTGAAACTGCAGATGAATTTTGTAGTGGTCTGACGGGAGCCTTGTGA
GCTTACCCACTGGCACCCCTTTGAGCCCAACAACCTCCGGGACAGTCTGGAGGACTGTGTACCATCTGGGGCC
CGGAAGGCCGCTGGAACGACAGTCCCTGTAACCAAGTCCCTTGCCATCCATCTGCAAGAAGGCAGGCCAGCTGAGCC
AGGGGGCCGCGAGGAGGACCATGGCTGCCGGAAGGGTTGGACGTGGCACAGCCATCCTGCTACTGGCTGGGAG
AAGACCAAGTGACCTACAGTGAGGCCGGCGCCTGTGCACTGACCATGGCTCTCAGCTGGTCACCATCACCAACA
GGTTCGAGCAGGCCTTCGTGAGCAGCCTCATCTACAACCTGGGAGGGCGAGTACTTCTGGACGGCCCTGCAGGACC
TCAACAGCACCGGCTCCTTCTTCTGGCTCAGTGGGGATGAAGTCATGTACACCCACTGGAACCGGGACCAGCCCCG
GGTACAGCCGTGGGGGCTGCGTGGCGCTGGCCACTGGCAGCGCCATGGGGCTGTGGGAGGTGAAGAAGTGTACCT
CGTTCGGGGCCCGCTACATCTGCCGGCAGAGCCTGGGCACTCCAGTGACGCCGGAGCTGCCGGGGCCAGATCCCA
CGCCAGCCTCACTGGCTCCTGTCCCCAGGGCTGGGCCTCGGACACCAAACCTCCGGTATTGCTATAAGGTGTTCA
GCTCAGAGCGGTGCAGGACAAGAAGAGCTGGGTCCAGGCCAGGGGGCCTGCCAGGAGCTGGGGGCCAGCTGC
TGAGCCTGGCCAGCTACGAGGAGGAGCACTTTGTGGCCAACATGCTCAACAAGATCTTCGGTGAATCAGAACCCG
AGATCCACGAGCAGCACTGGTTCTGGATCGGCCTGAACCGTCCGGATCCCAGAGGGGGTCCAGAGTTGGCGCTGGA
GCGACGGCGTAGGGTTCTTACCACAATTTGACCGGAGCCGGCACGACGACGACATCCGAGGCTGTGCGG
TGCTGGACCTGGCCTCCCTGCAGTGGGTGGCCATGCAGTGCGACACACAGCTGGACTGGATCTGCAAGATCCCCA
GAGGTACGGACGTGCGGGAGCCCGACGACAGCCCTCAAGGCCGACGGGAATGGCTGCGCTTCAGGAGGCCGAGT
ACAAGTTCTTTGAGCACCACTCCACGTGGGCGCAGGCGCAGCGCATCTGCACGTGGTTCCAGGCCGAGCTGACCT
CCGTGCACAGCCAGGCAGAGCTAGACTTCTGAGCCACAACCTTGCAAGTCTCCCGGGCCAGGAGCAGCACT
GGTGGATCGGCCTGCACACCTCTGAGAGCGATGGGCGCTTCCAGATGGACAGATGGTTCCATTATAAACTTCATCT
CCTGGGCACCAGGCAAACCTCGGCCTGTGCGCAAGGACAAGAAGTGCCTGTACATGACAGCCAGCCGAGAGGACT
GGGGGGACAGAGGTGCCTGACAGCCTTGCCCTACATCTGCAAGCGCAGCAACGTCACCAAGAAACGCAGCCCC
CAGACCTGCCAACTACAGCCCTGGGGGGCTGCCCTCTGACTGGATCCAGTTCTTCAACAAGTGTTTTCAGGTCC
AGGGCCAGGAACCCAGAGCCGGGTGAAGTGGTCAGAGGCACAGTTCTCCTGTGAACAGCAAGAGGGCCAGCTGG
TCACCATCACAAACCCCTTAGAGCAAGCATTCATCACAGCCAGCCTGCCCAATGTGACCTTTGACCTTTGGATTG
GCCTCCATGCCTGCGAGAGGGACTTCCAGTGGGTGGAGCAGGAGCCTTTGATGTATGCCAACTGGGCACCTGGGG
AGCCCTCTGGCCCTAGCCCTGCTCCAGTGGCAACAAACCGACCAGCTGTGCGGTGGTCTGCACAGCCCTCAG
CCCACTTCACTGGCCGCTGGGACGATCGGAGCTGCACGGAGGAGACCCATGGCTTCACTGCCAGAAGGGCACGG
ACCCCTCCCTGAGCCCGTCCCCAGCAGCGCTGCCCCCGCCCCGGGCACTGAGCTCTCTTACCTCAACGGCACCT
TCCGGCTGCTTCAGAAGCCGCTGCGCTGGCACGATGCCCTCCTGCTGTGTGAGAGCCACAATGCCAGCCTGGCCT

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FIGURE 4936B

ACGTGCCCCGACCCCTACACCCAGGCCCTTCCTCACGCAGGCTGCCCGAGGGCTGCGCACGCCGCTCTGGATTGGGC
TGGCTGGCGAGGAGGGCTCTCGGCGGTACTCCTGGGTCTCAGAGGAGCCGCTGAACTACGTGGGCTGGCAGGACG
GGGAGCCGCAGCAGCCGGGGGGCTGTACCTACGTAGATGTGGACGGGGCCTGGCGCACCACCAGCTGTGACACCA
AGCTGCAGGGGGCTGTGTGTGGGGTTAGCAGTGGGCCCCCTCCTCCCCGAAGAATAAGCTACCATGGCAGCTGTC
CCCAGGGACTGGCAGACTCCGCGTGGATTCCCTTCCGGGAGCACTGCTATTCTTTCCACATGGAGCTGCTGCTGG
GCCACAAGGAGGCGCGACAGCGCTGCCAGAGAGCGGGTGGGGCCGTCTGTCTATCCTGGATGAGATGGAGAATG
TGTTTGTCTGGGAGCACCTGCAGAGCTATGAGGGCCAGAGTCGGGGCGCCTGGCTGGGCATGAACTTCAACCCCA
AAGGAGGCACTCTGGTCTGGCAGGACAACACAGCTGTGAACTACTCCAAGTGGGGGCCCCGGGCTTGGGCCCA
GCATGCTGAGCCACAACAGCTGCTACTGGATTGAGAGCAACAGCGGGCTATGGCGCCCCGGCGCTTGACCAACA
TCACCATGGGTGTCGTCTGCAAGCTTCCTCGTGCTGAGCAGAGCAGCTTCTCCCCATCAGCGCTTCAGAGAACC
CAGCGGCCCTGGTGGTGGTGTGATGGCGGTGCTGCTGCTCCTGGCCTTGCTGACCGCAGCCCTCATCCTTTACC
GGAGGCGCCAGAGCATCAGCGCGGGGCGCTTTGAGGGTGCCCGCTACAGCCGCAGCAGCTCCAGCCCCACCGAGG
CCACTGAGAAGAACATCCTGGTGTGAGACATGGAATGAATGAGCAACAAGAATAGAGCCAGGCGCGTGGGCAGG
GCCAGGGCGGGAGGAGCTGGGGAGCTGGGGCCCTGGGTGAGTCTGGCCCCCACCAGCTGCCTGTCCAGTTGGCC
TATGGAAGGGTGCCCTTGGGAGTCGCTGTTGGGAGCCGGAGCTGGGCAGAGCCTGGGCTGGTGGGGTGCCACCCT
CCCACAAGGGCTGGGCTGAGACCCAGCTGAGTGACGCTGGCGTTTCCCTTTCTGGGGGGGCTGAGGTCTTGTC
ACCTGGTCCTGTGCCCCACAGGAACCAGAGGTAGGATGGGAGGGGGAACGAGAGCCTCTTTCTCCCCAGAGCCC
CCGGCCCAGGCCTGTTGATCCGCGCCCCAGGACCCCTTCTTTGAGAGCCCGAGGAGCCTCCCCTGTCCCCTCG
GGCAGATCTGTTGTGTCTCTCTTCCACCTGGCAGCCTCAGCTCTGTGCCCCTCACCCTGCTCCCTCTCGCCCCT
TCTCTCCCACCCTTCCCTTCTGAGCCGGGCGCTGGGGATTGGGGAGCCCTCTTGTTCTGATGAGGGTCAGCTGA
GGGGGCTGAGCATCCATCACTCCTGTGCCTGCTGGGGTGGCTGTGGGGCGTGGCAGGAGGGGCTAGGTGGGTTG
GGCCTGAGAACCAGGGCACGGGTGTGGTGTCTGCTGGGCTGGAGATAAGACTGGGGAGAGACACCCCAACCTCCC
AGGGTGGGAGCTGGGCGGGGCTGGGATGTCATCTCCTGCCGGGCGGGGAGGGCTCTGCCCCTGGAAGAGTCCCC
TGTGGGGACCAAAATAAGTTCCCTAACATCTCCAGCTCCTGGCTCTGGTTTGGAGCAAGGGGAAGGGTTGCCAGA
GTCCTGGGGGCCCCAGAGGAGCAGGAGTCTGGGAGGGCCCAGAGTTCACCCTCTAGTGATCCAGGAGGAGCAGC
ACCCGAGCCCTGGAGTGGCCAGTACCCTTCCAAGAGGCCACAGTCCCAGCCAGGACAAAGTATGCGGGCCCATCC
TGGTGCGACAGCGTGGGACAATGTGAACATGGACTCGAAGACATGGCCCTTCTCTGTAGTTGATTTTTTAAATG
TGCCATTATTGTTTTT

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FIGURE 4937

MGPGRPAPAPWPRHLLRCVLLLGCLHLGRPGAPGDAALPEPNVFLIFSHGLQGCLQAQGGQVRVTPACNTSLPAQ
RWKVVSRNRLFNLTGTMQCLGTGWPGTNTTASLGMYECDREALNLRWHCRTLGDLQLSLLLGARTSNISKPGTLERG
DQTRSGQWRIYGSEEDLCALPYHEVYTIQGNSHGKPCITIPFKYDNQWFHGCTSTGREDGHLWCATTQDYGKDERW
GFCPIKSNDCEFTWFDKDLTDSCYQFNQSTLSWREAWASCEQQGADLLSITEIHEQTYINGLLTGYSSTLWIGL
NDLDTSGGWQWSDNSPLKYLNWESDQPDNPSEENCGVIRTESSGGWQNRDCSIALPYVCKKKPNATAEPTPPDRW
ANVKVECEPSWQPFQGHGHCYRLQAEKRSWQESKKACLRGGGDLVSIHSMAELEFITKQIKQEVEELWIGLNDLKLQ
MNF EWSDGSLVSFTHWHPFEPNNFRDSLED CVTIWGP EGRWNDSPCNQSLPSICKKAGQLSQGAAEEDHGCRKGW
TWHSPSCYWLGEDQVTYSEARRLCTDHGSQLVTITNRFEQAFVSSLIYNWEGEYFWTALQDLNSTGSFFWLSGDE
VMYTHWNRDQPGYSRGGCVALATGSAMGLWEVKNCTSFRRARYICRQSLGTPVTPELPGPDPTPSLTGSCPPQGWAS
DTKLRYCYKVFSSERLQDKKSWVQAQGACQELGAQLLSLASYEEHFVANMLNKIFGESEPEIHEQHWFWIGLNR
RDPRGGQSWRWSG VGF SYHNFDRSRHDDDDIRGCAVLDLASLQWVAMQCDTQLDWICKIPRGTDVREPDDSPQG
RREWLRFQEA EYKFFEHHSTWAQAQRIC TWFQAE LTVHSQAELDFLSHNLQKFSRAQE QHWWIGLHTSESDGRF
RWT DGS IINFISWAPGKPRPVGKDKKCVYMTASREDWGDQRCLTALPYICKRSNVTKETQPPDLPTTALGGCPSD
WIQFLNKCFQVQGEPPQSRVKWSEAFSCEQQEAQLVTITNPLEQAFITASLPNVTFDLWIGLHASQRDFQWVEQ
EPLMYANWAPGEPSPGSPAPSGNKPTSCAVVLHSPSAHFTGRWDDRSCTEETHGFICQKGTDPSPSPSPALPPA
PGTELSYLNGTFRLLQKPLRWHDALLLCESHNASLAYVPDPTQAFLTQAARGLRTPWLWIGLAGEEGSRYSWVS
EEPLNYVGWQDGEPPQPGGCTYVDVDGAWRTTSCDTKLQGA VCGVSSGPPPPRRISYHGSCPQGLADSAWIPFRE
HCYSFHMELLLGHKEARQRCQRAGGAVLSILDEMENVFVWEHLQSYEGQSRGAWLGMNFNPKGGTLVWQDNTAVN
YSNWGPPGLGPSMLSHNSCYWIQSNSGLWRPGACTNITMGVVCKLPRAEQSSFSPSALPENPAALVVVLMAVLLL
LALLTAALILYRRRQSIERGAFEGARYSRSSSSPTEATEKNILVSDMEMNEQQE

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FIGURE 4938

GGAGCCGCGCCGCATCTCAGGCGCAGTCTCTAGGGGCTGTGCGCATCCGTGGGGGGGACATGCGCATCTCAGGGG
GGCTGCTCGCATCTGGGGGTGCTGTGTGCATCTCGGGGGGGCTGTGCCCATCTAGCGGGGTGGCTGTGCGCATCT
GGAGGGGGCTGTGCGCAACCCGGGGGGGGTGTTCGCGCATCTAGCAGGGGCGGCTGTGCGCATTTTCGGGGGGGG
CTGTGCATATCTGGGGGGACCGTGCTTATCTCCGGGGGCGGCTGTGCGCATCTTGAGGGGTGTGTACATCTCGGG
GGGCTGTGCGCATCTTGGGGGGCTGTGTGCATCCGCGGGGGCTGTGCGCATCTCGGGGTGCTGTGCGCTGCTCC
TCTGAGCTCTGCTCTTTCTTGCAGCGTTTGCCCTCAGCATGGAGGGCGGGGCCGCGGCAGCCACCCCCACAGCACT
GCCTTACTACGTGGCCTTCTCCAGCTGCTGGGCTGACCTTGGTGGCCATGACCGGCGCGTGGCTCGGGCTGTA
CCGAGGCGGCATTGCCTGGGAGAGCGACCTGCAGTTCAACGCGCACCCCCCTCTGCATGGTCATAGGCCTGATCTT
CCTGCAGGGAAATGCCCTGCTGGTTTACCGTGTCTTCAGGAACGAAGCTAAACGCACCACCAAGGTCCTGCACGG
GCTGCTGCACATCTTTGCGCTCGTCATCGCCCTGGTTGGCTTGGTGGCGGTGTTTCGACTACCACAGGAAGAAGGG
CTACGCTGACCTGTACAGCCTACACAGCTGGTGCGGGATCCTTGTCTTTGTCTGTACTTTGTGCAGTGGCTGGT
GGGCTTCAGCTTCTTCCCTGTTCCCCGGAGCTTCATTCTCCCTGCGGAGCCGCTACCGCCACAGCACATCTTCTT
TGGTGCTACCATCTTCCCTCCTTTCCGTGGGCACCGCCCTGCTGGGCTGAAGGAGGCAGTGTGTTCAACCTCGG
GGGCAAGTATAGCGCATTTGAGCCCGAGGGTGTCTGGCCAACGTGCTGGGCTGCTGCTGGCCTGCTTCGGTGG
GGCGGTGCTCTACATCTTGACCCGGGGCCGACTGGAAGCGGCCTTCCCAGGCGGAAGAGCAGGCCCTCTCCATGGA
CTTCAAGACGCTGACGGAGGGAGATAGCCCCGGCTCCAGTGATGCGCCCGGCCGGCCCTGGGGGTTTCGCGGGGT
GTCTTCTTGCTGCCCCCTGCTGAGGCGTCTTCAGGACTGCAGGCTCCGGAGAGTGGCTCTGGCAGCAGGCGGGCG
CGTGGGTGCAGCTGCATCTGTTTGTGTGCTGCTTTCTGGGGTCAGGTCTCCGCCTCCTCTGCTTCTCCTTTCTCC
GCTGCTATAGACCAGTTTATTGTGTGTGGCTCCCGTGTCTCTGTTGCCCCCTTCAGTGCAGAAGGCTTTGGGTAG
GACTTCGGGTGTTTCGGTCCCTGGTCCGAGAGCACAGATCTTTAAAGAAGCGAGAGAGGAGGCCCCACCCTCCTGGC
AGCAGATGCCTGGGGCAAGGCCAGGGGAACTGGGGGGGCTCAGGGACAGGCCTGGAAAGGCCACGATGGCTGC
TGAATTCAAACAAGGAGTCCCTCCAGCCTGAATAACACGTGGCACAAATGGGCCCCGCCCTTTGGCAGAGGAGCAA
GTGATATGATGTGTAAAGTATGTTGGTGGTGAAGCAAGGTTCCCCAGGAGAGGGGAGGGACTGGCCCCCTGGGAA
GCTCTGAGATGAGGCTGTGGCCAGCTGTAGTCTGACCTTCCCTCTTCTTTAACCTTTAGCCCTAGGATGGCTT
TGGTGGGAGAGGGGATAGAAGCCCATGACTTCAGACAGACTTCTCTTGGCAGATGCAGGCGGGCCTCCTCCAG
GCTGCTCCAGACATGGGGGTGGGGATGGGGGGCACCTTGACGCCCTTCTGCTGGGGCTCCCTCCTTGTAGCA
CCCCCTTGCGGCTCAGCTCTGGTTTCCCTCTCCAGGCTCACCCAGGCTCTGCTCAGGCTGGGAGGCAGAGGGCA
CAAACCTTATAATTTTTTAAATGAAAAACCGTGTCTGCTGGCTGTGGCTAGAGCCCCCTGGGGCTGCTGGAGCTG
CTGCCTCTGTTCTGGAGGACGAGCCTTCTCCTTATCTGCTGCCCATCTTCCAGGAAGTCAGGATGGAGTCAGAA
CAACTACAGTCATCCCCCGTGGTGTCTGCACATCACTCCAGCCCCATAAAGAGTGTGATGTTAGCTGAGTCACCA
TTTGGCTTCGGCCTGGAAATAGTGTGATTAGAACACTGATCGTGTGCGAGGCCAGGAGATCAAGACCATCCTGAC
TAACAAACACAGTGAAACCCGTCTCTACTAAAAATACAAAAAAATTAGCCAGGCGTGGTGGTGGGCGCCTGTAG
TCCCAGCTACTTGGGAG

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FIGURE 4939

AGTATGTGTGGTTGGGGAATTCATGTGGAGGTCAGAGTGGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACAT
GGCTGCCAAAGTGTTTGAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTGAACTCTGC
CTTATATAATGTGGATGCTGGGCACAGAGCTGTCATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGG
GGAAGGGACTCATTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
GCCAGTCATCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTGCGCATCCTCTTCCGGCCTGTCGCCAG
CCAGCTTCCTCGCATCTTACCAGCATCGGAGAGGACTATGATGAGCGTGTGCTGCCGTCCATCACAACCTGAGAT
CCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAACTAATCACCCAGAGAGAGCTGGTCTCCAGGCAGGTGAG
CGACGACCTTACAGAGCGAGCCGCCACCTTTGGGCTCATCCTGGATGACGTGTCCTTGACACATCTGACCTTCGG
GAAGGAGTTCACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGGCCAGATTGTGGTGGA
AAAGGCTGAGCAACAGAAAAAGGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAA
CTCACTGGCCACTGCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCT
CTCACGCTCTCGGAACATCACCTACCTGCCAGCGGGGCAGTCCGTGCTCCTCCAGCTGCCCCAGTGAGGGGCCAC
CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTTCCTTCTGCTCCACC
CCAGAAATCACTGTGAAATTTTCATGATTGGCTTAAAGTGAAGGAAATAAAGGTAAAATCACTTCAGATCTCTAAT
TAGTCTATCAAATGAAACTCTTTCATTCTTCTCACATCCATCTACTTTTTTATCCACCTCCCTACCAAAAATTGC
CAAGTGCCTATGCAAACCAGCTTTAGGTCCCAATTCGGGGCCTGCTGGAGTTCGGGCTGGGCACCAGCATTG
CAGCACGCAGGCGGGCAGTATGTGATGGACTGGGGAGCACAGGTGTCTGCCTAGATCCACGTGTGGCCTCCGTC
CTGTCACTGATGGAAGGTTTGCGGATGAGGGCATGTGCGGCTGAACTGAGAAGGCAGGCCTCCGTCTTCCCAGCG
GTTCTGTGCAGATGCTGCTGAAGAGAGGTGCCGGGGAGGGGCAGAGAGGAAGTGGTCTGTCTGTTACCATAAGT
CTGATTCTCTTTAACTGTGTGACCAGCGGAAACAGGTGTGTGTGAACTGGGCACAGATTGAAGAATCTGCCCCTG
TTGAGGTGGGTGGGCCTGACTGTTGCCCCCAGGGTCTTAAACTTGGATGGACTTGTATAGTGAGAGAGGAGGC
CTGGACCGAGATGTGAGTCCTGTTGAAGACTTCCTCTCTACCCCCACCTTGGTCCCTCTCAGATACCCAGTGGA
ATTCCAACCTGAAGGATTGCATCCTGCTGGGGCTGAACATGCCTGCCAAAGACGTGTCCGACCTACGTTCTGGC
CCCCTCGTTCAGAGACTGCCCTTCTCACGGGCTCTATGCCTGCACTGGGAAGGAAACAAATGTGTATAAACTGCT
GTCAATAAATGACACCCAGACCTTCC

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FIGURE 4940

MAAKVFESIGKFGLALAVAGGVVNSALYNVDAGHRAVIFDRFRGVQDIVVGEGTHFLIPWVQKPIIFDCRSRPRN
VPVITGSKDLQNVNITLRILFRPVASQLPRIFTSIGEDYDERVLPSITTEILKSVVARFDAGELITQRELVSQV
SDDLTERAATFGLILDDVSLTHLTFGKEFTEAVEAKQVAQQEAERARFVVEKAEQQKAAIISAEGDSKAAELIA
NSLATAGDGLIELRKLEAAEDIAYQLSRSRNITYLPAGQSVLLQLPQ

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FIGURE 4941

AGATCGATCTAAGATGGCGACCGTCGAACCGGAAACCACCCCTACTCCTAATCCCCGACTACAGAAAAGGAGAA
AACGGAATCTAATCAGGAGGTTGCTAACCCAGAACACTATATTAAACATCCCCTACAGAACAGATGGGCACTCTG
GTTTTTTAAAAATGATAAAAAGCAAACTTGGCAAGCAAACCTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGA
CTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTAAGGA
TGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCA
GAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAG
TGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGA
AAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGG
TTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAAAATAGGTTTGTGTTTAAAGAAGACAC
CTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGC
AGAGTGGACTGCATTTAAATTTGATTTCCATCTAAATGTTACTCAGATATAAGAGAAGTCTCATTGCGCTTTGTC
TTGTACTTCTGTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTAGAGTTTACACTATCCCAATCAAAGAA
TTACAGTACACATCTCCAGAATCCATAAATGTGTTCTGGCCCACTCTGTAATAGTTCAGTAGAATTACCATTAA
TTACATACAGATTTTACCTATCCACAATAGTCAGAAAACAACCTTGGCATTCTTATACTTTACAGGAAAAAAAAATT
CTGTTGTTCCATTTTATGCAGAAGCATATTTGCTGGTTTGAAAGATTATGATGCATACAGTTTTCTAGCAATTT
TCTTTGTTTCTTTTACAGCATTGTCTTTGCTGTACTCTTGCTGATGGCTGCTAGATTTTAAATTTATTTGTTTCC
CTACTTGATAATATTAGTGATTCTGATTTTCAGTTTTTCATTTGTTTTGCTTTTGTGTTTTTTCCTCATGTAACATT
GGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTTGTGCATTCTTTGGTAATTTTTTTTGT
TTTTTGTAACACAAAGCTTTGCTACAAATTTATGCATTTCAATCAAATCAGTGATCTATGTTTGTGTGATTTCC
TAAACATAATTGTGGATTATAAAAAATGTAACATCATAATTACATTCCTAACTAGAAATTAGTATGTCTGTTTTTG
TATCTTTATGCTGTATTTTAACTTTGTATTACTTAGGTTATTTTGCTTTGGTTAAAAATGGCTCAAGTAGAAA
AGCAGTCCCATTCATATTAAACAGTGTACAAAACCTGTAAATAAAATGTGTACAGTGAATTGTCTTT

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FIGURE 4942

AGATCGATCTAAGATGGCGACCGTCGAACAGATGGGCACCTCTGGTTTTTTAAAAATGATAAAAGCAAACTTGGC
AAGCAAACTTGTGGCTGATCTCCAAGTTTGATACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGT
CTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAA
ACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAG
AGACACTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTA
GAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGG
TATACAAGGAAAGGTTAGGACTTCCTCCAAAGATAGTGATTGGTTATCAGTCCCACGCAGACACAGCTACTAAGA
GCGGCTCCACCACTAAAAATAGGTTTGTGTTTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAA
GCAATCGAGATTTGGGAGCTGAACCAAAGCCTCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTTCCATC
TAAATGTTACTCAGATATAAGAGAAG

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FIGURE 4943A

GCCGAGCACC GCGCACCGCGTCATGGGGGCCGCTCGGGGCCGCGGGGGCCGGGGCTGCTGCTGCCGCTGCCGCT
GCTGTTGCTGCTXGCCGCCGAGCCCCGCCCTGGCGTTGXGXACCCCGGGCTGCAGCCCXGAAACTTTTTCTXGCTG
ACGAGGCCGGGGCGCAGCTCTTCGCGCAGAGCTACAACCTCCAGCGCCGAACAGGTGCTGTTCCXAGAGCGTGGCC
GCCAGCTGGGCGCACGACACCAACATCACCGCGGAGAATGXXXXXXXXXXGAGGAAGCAGCCCTGCTCAGCCAG
GAGTTXTGCGXGGAGGCCCTXGGGGCAGXAAGGCCAAXGGAGCTGTATGAACCGATCTGGCAGAACTTCACGGXACC
XCGCAXGCTGCGCAGGATCATCGGAGCTGTGCGCACCCCTGGGCTCTGCCAACXCTGCCCTTGCTAAGCGGCAGC
AGTACAACGCCCTGCTAAGCAACATGAGCAGGATCTACTCCACCGCCAAGGTCTGCCTCCCCAACAAAGACTGCCA
CCTGCTGGTCCCTGGACCCAGATCTCACCAACATCCTGGCTTCTTCGCGAACTACGXCCATGCTCCTGTTTGCTT
GGGAGGGCTGGCACAATGCTGCGGGCATCCCCTGAAACCGCTGTACGAGGATTTCACTGCCCTCAGCAATGAAG
CCTACAAGCAGGACGGCTTCACAGACACGGGGGCCCTACTGGCGCTCCTGGTACAACCTCCCCACCTTCGAGGACG
ATCTGGAACACCTCTACCAACAGCTAGAGCCCCCTTACCTGAACCTCCATGCCTTCGTCCGCCGCGCACTGCATC
GCCGATACGGAGACAGATACATCAACCTCAGGGGACCCATCCCTGCTCATCTGCTGGGAGACATGTGGGCCCAGA
GCTGGGAAAACATCTACGACATGGTGGTGCTTTCCAGACAAGCCCAACCTCGATGTACCAGTACTATGCTGC
AGCAGGGCTGGAACGCCACGCACAATGTTCCGGGTGGCAGAGGAGTTCTTACCTCCCTGGAGCTCTCCCCATGC
CTCCCGAGTTCTGGGAAGGGTCGATGCTGGAGAAGCCGGCCGACGGGCGGGAAGTGGTGTGCCACGCCTCGGCTT
GGGACTTCTACAACAGGAAAGACTTCAGGATCAAGCAGTGACACGGGTACAGATGGACCAGCTCTCCACAGTGC
ACCATGAGATGGGCCATATACAGTACTACCTGCAGTACAAGGATCTGCCCGTCTCCCTGCGTCGGGGGCCAACCC
CCGGCTTCCATGAGGCCATTGGGGACGTGCTGGCGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAATCGGCC
TGCTGGACCGTGTACCAATGACACGGAAAGTGACATCAATTACTTGCTAAAAATGGCACTGGAAAAAATTGCCT
TCCCTGCCCTTTGGCTACTTGGTGGACAGTGGCGCTGGGGGGTCTTTAGTGGCGTACCCCCCTTCCCGCTACA
ACTTCGACTGGTGGTATCTTGAACCAAGTATCAGGGGATCTGTCTCTCTGTTACCCGAAACGAAACCCACTTTG
ATGCTGGAGCTAAGTTTTCATGTTCCAAATGTGACACCATAACATCAGGTACTTTGTGAGTTTGTCTCTGCAGTTCC
AGTTCCATGAAGCCCTGTGCAAGGAGGCAGGCTATGAGGGCCCACTGCACCAGTGTGACATCTACCGGTCCACCA
AGGCAGGGGCCAAGCTCCGGAAGGTGCTGCAGGCTGGCTCCTCCAGGCCCTGGCAGGAGGTGCTGAAGGACATGG
TCGGCTTAGATGCCCTGGATGCCCAGCCGCTGCTCAAGTACTTCCAGCCAGTCACCCAGTGGCTGCAGGAGCAGA
ACCAGCAGAACGGCGAGGTCTTGGGCTGGCCCCGAGTACCAGTGGCACCCGCCGTTGCCTGACAACTACCCGGAGG
GCATAGACCTGGTGACTGATGAGGCTGAGGCCAGCAAGTTTGTGGAGGAATATGACCGGACATCCCAGGTGGTGT
GGAACGAGTATGCCGAGGCCAACTGGAACATAACACCAACATCACCACAGAGACCAGCAAGATTCTGCTGCAGA
AGAACATGCAAAATAGCCAACACACCCTGAAGTACGGCACCCAGGCCAGGAAGTTTGATGTGAACCAAGTTGCAGA
ACACCACTATCAAGCGGATCATAAAGAAGTTTACAGGACCTAGAACGGGCAGCACTGCCTGCCCAGGAGCTGGAGG
AGTACAACAAGATCCTGTTGGATATGGAACACCTACAGCGTGGCCACTGTGTGCCACCCGAATGGCAGCTGCC
TGCAGCTCGAGCCAGATCTGACGAATGTGATGGCCACGTCCCGGAAATATGAAGACCTGTTATGGGCATGGGAGG
GCTGGCGAGACAAGGCGGGGAGAGCCATCCTCCAGTTTTACCCGAAATACGTGGAACCTCATCAACCAGGCTGCC
GGCTCAATGGCTATGTAGATGCAGGGGACTCGTGGAGGTCTATGTACGAGACACCATCCCTGGAGCAAGACCTGG
AGCGGCTCTTCCAGGAGCTGCAGCCACTCTACCTCAACCTGCATGCCTACGTGCGCCGGGCCCTGCACCGTCACT
ACGGGGCCCGAGCACATCAACCTGGAGGGGGCCATTCCCTGCTCACCTGCTGGGGAACATGTGGGCGCAGACCTGGT
CCAACATCTATGACTTGGTGGTGCCCTTCCCTTCAGCCCCCTCGATGGACACCACAGAGGCTATGCTAAAGCAGG
GCTGGACGCXCCAGGAGGATGTTTAAGGAGGCTGATGATTTCTTACCTXCCCTGGGGCTGCTGCCCGTGCCCTCC
TGAGTTCTGGAACAAGTCGATGCTGGAGAAGCCAACCGACGGGCGGGAGGTGGTCTGCCACGCCTCGGCCCTGGGA
CTTCTACAACGGCAAGGACTTCCGGATCAAGCAGTGCACCACCGTGAACCTGGAGGACCTGGTAGTGGCCACCA
CGAAATGGGCCACATCCAGTATTTTCATGCAGTACAAAGACTTACCTGTGGCCTTGAGGGAGGGTGCCAACCCCGG
CTTCCATGAGGCCATTGGGGACGTGCTAGCCCTCTCAGTGTCTACGCCCCAAGCACCTGCACAGTCTCAACCTGCT
GAGCAGTGAGGGTGGCAGCGACGAGCATGACATCAACTTTCTGATGAAGATGGCCCTTGACAAGATCGCCTTTAT
CCCCCTTCAGCTACCTCGTCGATCAGTGGCGCTGGAGGGTATTTGATGGAAGCATCACCAGGAGAACTATAACCA
GGAGTGGTGGAGCCTCAGGCTGAAGTACCAGGGCCTTGCCCCCAGTGCCCAGGACTCAAGGTGACTTTGACCC
AGGGGCCAAGTTCCACATTCCTTCTAGCGTGCCTTACATCAGGTACTTTGTCAGCTTCATCATCCAGTTCCAGTT
CCACGAGGCACTGTGCCAGGCAGCTGGCCACACGGGCCCCCTGCACAAGTGTGACATCTACCAGTCCAAGGAGGC
CGGGCAGCGCCTGGCGACCGCCATGAAGCTGGGCTTCAGXTAGGCCGTGGCCGGAXAGCCATGCAGCTGATCACG

5360/6881
FIGURE 4943B

XXGGCCAGCCCXAACATGAGCGCCTCGGCCATGTTGAGCTACTTCAAGCCGCTGCTGGAXCTGGCTCCGCACGGA
GAACGAGCTGCATGGGGAGAAGCTGGGCTGGCCGCAGTACAACCTGGACGXCCGAACCTCCGCTCGCTCAGAAGGGC
CCCTCCCAGACAGCGGCCGCGTCAGCTTXCCTGGGCCTGGACCTGGATGCGCAGGAGGCCCGCGTGGGCXCAGXT
GGCTGCTGCTCTTCCTGGGCATCGCCCTGXCTGGTAGCCACCCTGGGCCTCAGCCAGCGGCTXCTTXCAGCATCC
GCCACCGCAGCCTCCACCGGCACTCCCACGGGCCCCAGTTCGGCTCCGAGGTGGAGCTGAGACACTCCTGAGGTG
ACCCGGCTGGGTTCGGCCCTGCCCCAAGGGCCTCCCACCAGAGACTGGGATGGGAACACTGGTGGGCAGCTGAGG

5361/6881
FIGURE 4944

TGACCCAGGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAACTGGTCCAGACAAATTCAGAATA
TGATCCTTCTCGGTGTTTTGCCTTTGTTTCACGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAG
TCTTGATATTATCATTCTCATATTTGTTCTTTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCT
GAGCAGGCTTCTGAAACCTGGCGGGATGATGCTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTT
TAAAAAAGGTCAGTGTCTATCTGGAAATTTCTACGTGAGAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGA
GGAAGTGGACACGCTTTTCACCACTGCTGGACTGGAAAAAGTTCAGAACCTGGTGGATCGCCGACTGCAGGTGAA
CCGAGGAAAGCAACTGACAATGTACCGGGTTTGGATTGAGTGCAAAATACTGCAAGCCCCTTCTGTCCAGCACCAG
CTGAGAGGCACCTGCTGCCAACACGATGCAAGCCCATTGTGTTTTCCGGGCTTTTTTAAAAAAAATTGTAGCAC
TGGGCGTGGTGCATGCCTGTAATCCAGCCACTCAGGAGGCTGAGGCGGGGAGGATCCATTGAGCCCAGCAGTCC
AACCTGGGCAAAATAGTGAGAGACCCTGTATCTGAAAGTAATAATAAAAAATAAAAAATATAAATGAGGTCTCGTT
GATGTTGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAA
TTATGCTTCATATTTGTGAAGTCCTTTAAACATAATTTTCTCAAGTTCTTTCTTTGAGATCTCAATCTGTCTTA
GCATTTTGTAACTAATAACTGAAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGA
AAAAGTGTACATATGACAAGTGTTTTTTACTGTAATTGCGTTAAATCTTTTGAGAATGTAAATGCCGGGCTAG
GCAATTGCAGTTAATACATACAGAGGTTAGTGAAGGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCA
GATCAGATATTTTCCTGAC

5362/6881
FIGURE 4945

AGGTTTCAGCTTGTTGGTTTAGATGAGGAGAGTTCAGAGTTTATTTGCAGAAACACCTTTGACCACCCATACCCCA
CCACAAAGCTCATGTGGATCCCTGACACAAAAGGCGTCTATCCAGACCTACTGGCAACAAGCGGTGACTATCTCC
GTGTGTGGAGGGTTGGTGAAACAGAGACCAGGCTGGAGTGTTTGCTAAACAATAATAAGAACTCTGATTTCTGTG
CTCCCCTGACCTCCTTTGACTGGAATGAGGTGGATCCTTATCTTTTAGGTACCTCAAGCATTGATACGACATGCA
CCATCTGGGGGCTGGAGACAGGGCAGGTGTTAGGGCGAGTGAATCTCGTGTCTGGCCACGTGAAGACCCAGCTGA
TCGCCCATGACAAAGAGGTCTATGATATTGCATTTAGCCGGGCCGGGGTGGCAGGGACATGTTTGCCTCTGTGG
GTGCTGATGGCTCGGTGCGGATGTTTGACCTCCGCCATCTAGAACACAGCACCATCATTTACGAAGACCCACAGC
ATCACCCACTGCTTCGCCTCTGCTGGAACAAGCAGGACCCTAACTACCTGGCCACCATGGCCATGGATGGAATGG
AGGTGGTGATTCTAGATGTCCGGGTTCCCTGCACACCTGTCGCCAGGTTAAACAACCATCGAGCATGTGTCAATG
GCATTGCTTGGGCCCCACATTCATCCTGCCACATCTGCACTGCAGCGGATGACCACCAGGCTCTCATCTGGGACA
TCCAGCAAATGCCCCGAGCCATTGAGGACCCTATCCTGGCCTACACAGCTGAAGGAGAGATCAACAATGTGCAGT
GGGCATCAACTCAGCCCGACTGGATCGCCATCTGCTACAACAAGTGCCTGGAGATACTCAGAGTGTAGTGTGGT
GGCGCTGTGCCACGAGGCAGGGGCTTTTGTATTTCTGCTCTGCCCCACCCCCAAAGTAAGAAGAAACATGTT
TCCAGTGGCCAGTATGTCTTTCATTGCTTTGCACCCACTGTTACCAGAAGCTGCTCTAGGAGTTCCTGGCCAGTC
ACCCCATCGCCCTCTGTGGCAGACTCAGTGCTGTGTGGCGCCTCCTCAGCCCAGGGCTGAGTTTAAAGATTTTCT
CTCCTTTCCTCTTCTCCTTTGGTTTCCTCAATTAA

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FIGURE 4946

ATGAGTGGCTCCTTCGATCGCAAGCTCAGCAGCATCCTCACCGACATCTCCAGCTCCCTTAGCTGCCATGCGGGC
TCCAAGGACTCGCCTACCCTGCCCAGTCTTCTGTCACTGACCTGGGCTACTACAGCGCTCCCCAGCACGATTAC
TACTCGGGCCAGCCCTATGGCCAGACGGTGAACCCCTACACCTACCACCACCAATTCAATCTCAATGGGCTTGCA
GGCACGGGCGCTTACTCGCCCAAGTCGGAATATACCTACGGAGCCTCCTACCGGCAATACGGGGCGTATCGGGAG
CAGCCGCTGCCAGCCCAGGACCCAGTGTTCGGTGAAGGAGGAGCCGGAAGCAGAGGTGCGCATGGTGAATGGGAAG
CCCAAGAAGGTCCGAAAGCCGCGTACAATCTACTCCAGCTACCAGCTGGCCGCCCTGCAGCGCCGCTTCCAGAAG
GCCCAGTACCTGGCGCTGCCCAGCGCGCCGAGCTGGCCGCGCAGCTGGGCCTCACGCAGACACAGGTGAAAATC
TGGTTCCAGAACCGCCGTTCCAAGTTCAAGAACTCTACAAGAACGGGGAGGTGCCGCTGGAGCACAGTCCCAAT
AACAGTGATTCCATGGCCTGCAACTCACCACCATCACCCGCCCTCTGGGACACCTCTTCCCCTCCACTCCGGCC
CCTGCCCCGAGTCAGCTGCCCCCGCCGCTCCCATACAGTGCCTCCCCCAGCTACCTGGACGACCCACCAACTCC
TGGTATCACGCACAGAACCTGAGTGGACCCCACTTACAGCAGCAGCCGCCTCAGCCAGCCACCTGCACCATGCC
TCTCCCGGGCCCCCGCCCAACCCTGGGGCTGTGTACTTGA

5364/6881
FIGURE 4947

MSGSFDRKLSSILTDISSSLSCHAGSKDSPTLPESVTDLGYYSAPQHDYYSGQPYGQTVNPTYHHQFNLNGLA
GTGAYSPKSEYTYGASYRQYGAYREQPLPAQDPVSVKEEPEAEVRMVNGKPKKVRKPRTIYSSYQLAALQRRFQK
AQYLALPERAELAAQLGLTQTQVKIWFQNRRSKFKKLYKNGEVPLEHSPNNSDSMACNSPPSPALWDTSSHSTPA
PARSQLPPPLPYASPSYLDDPTNSWYHAQNLSGPHLQQQPPQATLHHASPGPPPNPGAVY

5365/6881
FIGURE 4948

CCCGTCACCAAGCTGGGCGCTTGGTCAAGGAAATGAAGATCAAATCCCTGGAGGAGATCTATCCCTTCTCCCTG
CCCATTAAGGTATCTGAGATCATTGACTTTTTCTGGGGGCCTCTCTTAAGGACGAGGTTTTGAAGATTATGTCG
GTGCAGAAGCAGACCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCC
GCACCTGTGCCCAAGAAGCTGCTCATGATAGCTGGTATCGATGACTGCTACACCTCAGCCCGGGGCTGCACTGCC
ACCCTGGGCAACTTCGCCAAGGCCACCTTTGACGCCATCTCTAAGACCTACAGCTACCTGACCCCGACCTCTGG
AAGGAGACTGTATTTACCAAGTCTCCCTGTCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTTC
GTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACAAGGTTTTTATACAAGAAAAATAAAGTGAATTAAGC

5366/6881
FIGURE 4949

MKIKSLEEIYPFSLPIKVSEIIDFFLGASLKDEVLKIMSVQKQTRCGSVLVRLIPAPRG TGIVSAPV PKKLLMIA
GIDDCYTSARGCTATLG NFAKATFDAISK TYSYLT PDLWKETVFTKSPCQEFTDHLVKTHTRVFVQQTQAPAVAT
T

5367/6881
FIGURE 4950

AGACCCTTTTCACAAGATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCTCCTAAAAGCCGAAGCCAAAGCGAA
GGCTTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCAC
CTTCCGGCAGCCGAAGACACTGCGACTCTGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAA
GCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGACAGAAGACAACAACAC
ACTTGTGTTTCCTTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTTGGCCTGATGGAGAGAAGAAGGCATATGTTTCGACTGGCTCCTGGTTACGA
TGCTTTGGATGTTGCCAACAAAATTGGGATCATCTAAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATA
TATATATATATATATATATATCTTTTCACCAT

5368/6881
FIGURE 4951

GCAACCGCAGCCCAGCCCCAGTCCGGGAGGAAGTTCTGCCGGGCGCTCTCCGCCGGTGCCCTCACTGGTTATAGTG
CTATACAGGAAACCTGGCAGCGCCGGAGCCGCGCGGTTCGAGGAGGGAGCGCGGGACGCCGAGCCCACGCGCGCCT
GCCGGGACAAGTGGAGACGAGGCCGGCGAGCGGACGCCCGAGGTTTGGCGAAGGAGCTGTGGCCGGGTCCCCCTT
CTTATCCAGCCCAGACACTGCGCTCCGGTGGGCGTCCCTGCGCTGGGAATCCCTCTCGGAGTTTTTCCAGGCC
GGCCGGGTGCTCCGGGAAAGGCCCTGTTGGGGGAGGTGGGCCCGGAGCTGGCAGGTCTACAATCCGGTTGGAAG
GGCTCGCAGTGGGTGATTCAAGGTGCCAATGACCTCCCCGCGAACCGGGAACGCCCGCACTAGACAACCAGCCCCA
GACCGGCATTCCCAGAGCCGCAGGCGGGAGGGACGCAGGGACTCCGGGACAGCAAATCCCCGGGGGAGAAGGGAA
GGGGGAAGGCGGGACAGGGGAGGCCACCCTCCTTGGGCTCCGCTAGCGACCAGCCAGCGCCCCCTTCAGACGCAG
CCTTCCTGGCTCCGGACCCCGGCTTTCTGCTCCGGTCCCTCGTCCCAATGCCCCCAAGGTCCCCAGCAGAGGCAT
TCAGGTTCCCTCCTCGCCCCGCCAGACGCAGCTTCTTTGGGTATGGGTGACAGCACTCCTGAGCGTCGCTGTCCC
TATTCGCTGCCGTTGCCAGCTCCGATTCCGCGAAACCTCTCCGGCACCACCTCGGAAGCCCCGCCAGGGCGATG
GTCCGGGCCTAACCTGCCGGCCCCGCCACCCGGCCCTTGGGCTCCCTGAGGCCCGCCAGCAGACACCGGAGAG
CAATGGTGTGATCTCCGCACACTGCAACCTCTGCCTCCAGGGTTCAAGTGTTCTCCTGCCTCAGCCTCCCAAGC
AGATGGGACTACAGGTACTGGTAGTTAACTCTCAAGGAGAAATTTACGGTTGAGCACCAGAAAAGAAAGTGGTCA
TGAAAGGAAGTATCAACAATTATCTTAAATTGGGTCAAGAAGGGAAGTATCGCGTCTACCACAATCAATACTCCA
CTAATTCATTTGCTTTGAATAAGCACACAGCAGAGAAGACCATGATAAGAGAAGGCATCTTGCACATAAGTTCT
GTCTGACTCCAGCAGGAGAGTTCAAATGGAACGGTTCTGTCCATGGGTCCAAAGTTCTTACCATATCTACTCTGA
GACTGACTATCACCCAATTAGAAAACAACATCCCTTCATCCTTTCTTCATCCCAACCGGGCATCACATAGGGCAA
ACTGGATCAAGGCAGTTCAGATGTGTAGCAAACCTCAGAGAATTTGCATTGGCTTTAGCCATTTTGGAGTGTGCAG
TTAAACCAGTTGTGATGCTACCAATATGGCGAGAATCTTTAGGACATACCAGCTTTCTCCCTTTGTCTCATAACC
ATGTCCACCAATGAGAATGCTAATACACAAGCTGCCCATCTTCACAGATCTAAGAACAAGGGAAAGGACAGTACA
GAAACGAGGCGTCACAGAATAGAGGTCAATGTGGAGCTGAGGAAAGCTAAGAAGGATGACCAGATGCTGAAGAGG
AGAAATGTAAGCTCATTTCTGATGATGCTACTTCTCCGCTGCAGGAAAACCTGCAACAACCAGGACTCCTGCCCT
AAGAGCCATAGGGAATATCGTCACTGGTACAGATGAACAGACTCAGGTTGTGATTGATGCAGGAGCACTCGCCGT
CTTTCCAGCCTGCTCACCAACCCCAAACTAACATTCAGAAGGAAGCTACGTGGACAATGTCAAACATCACAGC
CAGCCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAGTCCCATTCTTGTGTCAGCGATCTCTCTAAGAT
TTTGAGACACAAAAGGAAGCTGTATGGGCCGTGGAACAGTTGAACAGATTGTGTACCTTGTTCACTGTGGCATAA
TAGAACCGTTGATGAACCTCTTACCTGCAAAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATA
TCTTTCAAGGCTGCTGAGAACTAGGTGAACTGAGAACTTAGTATAATGATTGAAGAATGTGGAGGCGTAGACA
AAATTGAAGCTCTACAAAACCATGAAAATGAGTCTGTATATAAGGCTTCATTAAGCTTAAGTGAAGTATTTCT
CTGTAGAGCTGCCAGAGCAGAGCTGAGCCACCCATTGCTGGAGAGGACATCCACGCAGGCCTGGACGAGCCGGAC
TGCCTTACTAAGGATTTCTCCGTATCTGACTGCAACTCAGCACTCAGCTGCATGCGGGACAGGAAGAGGAAGAT
CAAAACGTTGTGCCAGAACTACCTCTGAAGGCTACACTTTCCAAGTTCAGGATGGGGCTCCTGGGACCTTTAAC
TTTTAGATCATGTAGCTGAGGCATAAATTTGTTGTGTACTATGTTTGGTATTTTGTCTTATTGTTTCTCTACTAA
GAACTCTTTCTTAAATGTGGTTTGTATTGTAGCACTTTTACACTGAACTATACTTGAACAGTTCCAAGTGA
CATACTGTATGAAGCTTGTCTCTGACTAGGTTTCTAATTTCTATGTGGAATTTCTATCTTGCAGCATCCTGTA
AATAAACATTCAAGTCCACCCTTTTCTTGACTTC

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FIGURE 4952

MTSPRTGTPALDNQPQTGIPRAAGGRDAGTPGQQIPGGEGKGEGGTGEAHPPWAPLATSQRPFRRSLPGSGPRLS
APVLVPMPPKVPSRGIQVPPRPAQTQLLWVWVTALLSVAVPIRCRCQLRFRETSPAPPRKPRPGRWSGPNLPAPP
TRPLGSLRPAQQTPESNGVISAHCNLCLOGSSGSEFASASQADGTTGTGS

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FIGURE 4953

GCCAGTGAATTCGGGGGCTCAGCCCTCCTCCCTCCCTTCCCCCTGCTTCAGGCTGCTGAGCACTGAGCAGCGCTC
AGAATGGGAAGCCATCGCCAAATATGACTTCAAAGCTACTGCAGACGACGAGCTGAGCTTCAAAGGGGGGACATC
CTCAAGGTTTTTGAACGAAGAATGTGATCAGAACTGGTACAAGGCAGAGCTTAATGGAAAAGACGGCTTCATTCCC
AAGAACTACATAGAAATGAAACCACATCCGTGGTTTTTTTGGCAAATCCCCAGAGCCAAGGCAGAAGAAATGCTT
AGCAAACAGCGGCACGATGGGGCCTTTCTTATCCGAGAGAGTGAGAGCGCTCCTGGGGACTTCTCCCTCTCTGTC
AAGTTTGGAAACGATGTGCAGCACTTCAAGGTGCTCCGAGATGGAGCCGGGAAGTACTTCTCTGGGTGGTGAAG
TTCAATTCTTTGAATGAGCTGGTGGATTATCACAGATCTACATCTGTCTCCAGAAACCAGCAGATATTCCTGCGG
GACATAGAACAGGTGCCACAGCAGCCGACATACGTCCAGGCCCTCTTTGACTTTGATCCCCAGGAGGATGGAGAG
CTGGGCTTCCGCCGGGGAGATTTTATCCATGTCATGGATAACTCAGACCCCAACTGGTGGAAGGAGCTTGCCAC
GGGCAGACCGGCATGTTTCCCGCAATTATGTCACCCCCGTGAACCGGAACGTCTAAGAGTCAAGAAGCAATTAT
TTAAAGAAAGTGAAAAATGTAAAACACATACAAAAGAATTAAACCCACAAGCTGCCTCTGACAGCAGCCTGTGAG
GGAGTGCAGAACACCTGGCCGGGTACCCCTGTGACCCTCTCACTTTGGTTGGAACCTTAGGGGGTGGGAGGGGGC
GTTGGATTTAAAAATGCCAAAACCTTACCTATAAAATTAAGAAGAGTTTTTTATTACAAATTTTCACTGCTGCTCCTC
TTTCCCTCCTTTGTCTTTTTTTTTCATCCTTTTTTCTCTTCTGTCCATCAGTGCATGACGTTTAAGGCCACGTAT
AGTCCTAGCTGACGCCAATAATAAAAAACAAGAAACCAAAAAAAAAAAAAACCCGAATTCA

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FIGURE 4954

MEAIKYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDGFI PKNYIEMKPHPWFFGKIPRAKAEEMLS
KQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFKVLRDGAGKYFLWVVKFNSLNELVDYHRSTSVSRNQQIFLRD
IEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHGQTGMFPRNYVTPVNRNV

5372/6881

FIGURE 4955

GGCACGAGGGCTCTGAGCGGGAGGCCTGAGCGGGAAGCATTGGCGTCCGAGCGACTTCTAGGAGCCTGGGGTTTCG
GCGCT**ATG**GAGGAGCTCGATGGCGAGCCAACAGTCACTTTGATTCCAGGCGTGAATTCCAAGAAGAACCAAATGT
ATTTTGACTGGGGTCCAGGGGAGATGCTGGTATGTGAAACCTCCTTCAACAAAAAGAAAAATCAGAGATGGTGC
CAAGTTGCCCCCTTTATCTATATCATCCGTAAGGATGTAGATGTTTACTCTCAAATCTTGAGAAAACCTCTTCAATG
AATCCCATGGAATCTTTCTGGGCCTCCAGAGAATTGACGAAGAGTTGACTGGAAAATCCAGAAAATCTCAATTGG
TTCGAGTGAGTAAAACTACCGATCAGTCATCAGAGCATGTATGGAGGAAATGCACCAGGTTGCAATTGCTGCTA
AAGATCCAGCCAATGGCCGCCAGTTCAGCAGCCAGGTCTCCATTTTGTCTCAGCAATGGAGCTCATCTGGAACCTGT
GTGAGATTCTTTTTATTGAAGTGGCCCCAGCTGGCCCTCTCCTCCTCCATCTCCTTGACTGGGTCCGGCTCCATG
TGTGCGAGGTGGACAGTTTGTCTGGCAGATGTTCTGGGCAGTGAGAATCCAAGCAAACATGACAGCTTCTGGAACCT
TGGTGACCATCTTGGTGCTGCAGGGCCGGCTGGATGAGGCCCGACAGATGCTCTCCAAGGAAGCCGATGCCAGCC
CCGCCTCTGCAGGCATATGCCGAATCATGGGGGACCTGATGAGGACAATGCCATTCTTAGTCTGGGAACACCC
AGACACTGACAGAGCTGGAGCTGAAGTGGCAGCACTGGCACGAGGAATGTGAGCGGTACCTCCAGGACAGCACAT
TCGCCACCAGCCCTCACCTGGAGTCTCTCTTGAAGATTATGCTGGGAGACGAAGCTGCCTTGTTAGAGCAGAAGG
AACTTCTGAGTAAATTGGTATCATTTCCTAGTGACTCGGCTCTTGTACTCCAATCCCACAGTAAAAACCCATTGATC
TGCACTACTATGCCCAGTCCAGCCTGGACCTGTTTCTGGGAGGTGAGAGCAGCCCAGAACCCCTGGACAACATCT
TGTTGGCAGCCTTTGAGTTTGACATCCATCAAGTAATCAAAGAGTGCAGCATCGCCCTGAGCAACTGGTGGTTTG
TGGCCACCTGACAGACCTGCTGGACCACTGCAAGCTCCTCCAGTCACACAACCTCTATTTTCGGTTCCAACATGA
GAGAGTTTCTCCTGCTGGAGTACGCCTCGGGACTGTTTGCTCATCCCAGCCTGTGGCAGCTGGGGGTCGATTACT
TTGATTACTGCCCCGAGCTGGGCCGAGTCTCCCTGGAGCTGCACATTGAGCGGATACCTCTGAACACCGAGCAGA
AAGCCCTGAAGGTGCTGCGGATCTGTGAGCAGCGGCAGATGACTGAACAAGTTCGCAGCATTGTGAAGATCTTAG
CCATGAAAGCCGTCCGCAACAATCGCCTGGGTTCTGCCCTCTCTTGAGCATCCGTGCTAAGGATGCCGCCTTTG
CCACGCTCGTGTCTAGACAGGTTCTCAGGGATTACTGTGAGCGAGGCTGCTTTTCTGATTTGGATCTCATTGACA
ACCTGGGGCCAGCCATGATGCTCAGTGACCGACTGACATTCTGGGAAAGTATCGCGAGTTCCACCGTATGTACG
GGGAGAAGCGTTTTGCCGACGCAGCTTCTCTCCTTCTGTCTTGATGACGTCTCGGATTGCCCCCTCGGTCTTTCT
GGATGACTCTGCTGACAGATGCCTTGCCCCCTTTGGAACAGAAACAGGTGATTTTCTCAGCAGAACAGACTTATG
AGTTGATGCGGTGCTCTGGAGGACTTGACGTCAAGAAGACCTGTGCATGGAGAATCTGATACCGAGCAGCTCCAGG
ATGATGACATAGAGACCACCAAGGTGGAATGCTGAGACTTTCTCTGGCACGAAATCTTGCTCGGGCAATTATAA
GAGAAGGCTCACTGGAAGGTTCT**TG**AGAACTGCTTCAATGTGGTATCTTTGTATGGCAATGTATATAGATTTTTT
AAAAGAATAAATGTTGTTTTGCAAATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 4956

MEELDGEPTVTLIPGVNSKKNQMYFDWGPGEMLVCETSFNKKEKSEMVPSCPFIIYIIRKDVVDVYSQILRKLFNES
HGIFLGLQRIDEELTGKSRKSQLVRVSKNYRSVIRACMEEMHQVAIAAKDPANGRQFSSQVSILSAMELIWNLCE
ILFIEVAPAGPLLLHLLDWVRLHVCEVDSLADVLGSENPSKHDSFWNLVTILVLQGRIDEARQMLSKEADASPA
SAGICRIMGDLMRTPILSPGNTQTLTELELKWQHWHEECERYLQDSTFATSPHLESLLKIMLGDEAALLEQKEL
LSNWHFLVTRLLYSNPTVKPIDLHYAQSLLDLFLGGESSPEPLDNILLAAFEFDIHQVIKECSIALSNWWFVA
HLTDLLDHCKLLQSHNLYFGSNMREFLLLEYASGLFAHPSLWQLGVDYFDYCPSELGRVSLELHIERIPLNTEQKA
LKVLRIEQRQMTQVRSICKILAMKAVRNNRLGSALSWSIRAKDAAFATLVSDRFLRDYCEGCFSDLDLIDNL
GPAMMLSDRLTFLGKYREFHRMYGEKRFADAASLLLSLMTSRIAPRSFWMTLLTDALPLLEQKQVIFSAEQTYEL
MRCLEDLTSRRPVHGESDTEQLQDDDIETTKVEMLRSLARNLARAIIREGSLEGS

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FIGURE 4957

GGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGC
TCGCCATGGCCGACGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGG
GGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTG
AACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTTGACGGGCAACCAATCAATGAAACAGACACACCTG
CACAGTTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGA
ACCTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACGCAATTTGGT
TCCACCACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCAATTTCCCCCTTCCCCATTCCCTTTATTGTAC
ATAAAGTAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTT
GATTGACATCAAGTGGAGACGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGA
TGCTCATTGAGCTCTTA

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FIGURE 4958

GCAGCGCGAGCTTCGGCCTCGGCTCTGTACCATGAAGAAGGGCCCCAGTGGCTATGGCTTCAACCTGCACAGCGA
CAAGTCCAAGCCAGGCCAGTTTCATCCGGTCAGTGGACCCAGACTCCCCGGCTGAGGCTTCAGGGCTCCGGGCCCCA
GGATCGCATTGTGGAGGTGAACGGGGTCTGCATGGAGGGGAAGCAGCATGGGGACGTGGTGTCCGCCATCAGGGC
TGGCGGGGACGAGACCAAGCTGCTGGTGGTGGACAGGGAACTGACGAGTTCTTCAAGAAATGCAGAGTGATCCC
ATCTCAGGAGCACCTGAATGGTCCCCTGCCTGTGCCCTTCACCAATGGGGAGATACAGAAGGAGAACAGTCGTGA
AGCCCTGGCAGAGGCAGCCTTGAGAGCCCCAGGCCAGCCCTGGTGAGATCCGCCTCCAGTGACACCAGCGAGGA
GCTGAATTCCCAAGACAGCCCCCAAAACAGGACTCCACAGCGCCCTCGTCTACCTCCTCCTCCGACCCCATCCT
AGACTTCAACATCTCCCTGGCCATGGCCAAAGAGAGGGGCCACCAGAAACGCAGCAGCAAACGGGCCCCGCAGAT
GGACTGGAGCAAGAAAAACGAACTCTTCAGCAACCTCTGAGCGCCCTGCTGCCACCCAGTGACTGGCAGGGCCGA
GCCAGCATTCACCCACCTTTTTCTTCTCCCAATTACTCCCCTGAATCAATGTACAAATCAGCACCCACATC
CCCTTTCTTGACAAATGATTTTTCTAGAGAACTATGTTCTTCCCTGACTTTAGGGAAGGTGAATGTGTTCCCGTC
CTCCCGCAGTCAGAAAGGAGACTCTGCCTCCCTCCTCCTCACTGAGTGCCTCATCCTACCGGGTGTCCCTTTGCC
ACCCTGCCTGGGACATCGCTGGAACCTGCACCATGCCAGGATCATGGGACCAGGCGAGAGGGCACCCCTCCCTTCC
TCCCCCATGTGATAAATGGGTCCAGGGCTGATCAAAGAACTCTGACTGCAGAACTGCCGCTCTCAGTGGACAGGG
CATCTGTTACCCTGAGACCTGTGGCAGACACGTCTTGTTCATTTGATTTTTGTAAAGAGTGCAGTATTGCAGA
GTCTAGAGGAATTTTTGTTTCCTTGATTAAACATGATTTTCTGTTGTACATCCAGGGCATGGCAGTGGCCTCA
GCCTTAAACTTTTGTTTCTACTCCCACCTCAGCGAACTGGGCAGCACGGGGAGGGTTTGGCTACCCCTGCCCAT
CCCTGAGCCAGGTACCACCATTTGTAAGGAAACACTTTCAGAAATTCAGCTGGTTCCTCCAAACC

5376/6881
FIGURE 4959

MSADAAAGAPLPRLCCLEKGPNGYGFHLHGEKGKLGQYIRLVEPGSPA EKAGLLAGDRLVEVNGENVEKETHQQV
VSRIRAAALNAVRLLVVDPETDEQLQKLG VQVREELLRAQEAPGQAEPPAAAEVQGAGNENEPREADKSHPEQREL
RPR LCTMKKGPSGYGFNLHSDKSKPGQFIRSVD PDSPAEASGLRAQDRIVEVNGVCMEGKQHGDVVS AIRAGGDE
TKLLVVDRETDEFFKKCRVIP SQEHLNGPLPVPFTNGEIQKENSREALAEAALES PRPALVRSASSDTSEELNSQ
DSPPKQDSTAPSSTSSSDPILDFNISLAMAKERAHQKRSSKRAPQMDWSKKNELFSNL

5377/6881
FIGURE 4960

CGCCCAGCAGCCCGTGGGCAGGCGCGGCGGAGCGAGCGGGGCCGGCGGGCGCCGAGGGACGCCGAGGCCTCG
GGCGGGGGCTGGCCCGGGGTTCCAGGTCTCCAGTGGGGGCTGCAGACTAAGCAAAATGAGGCGGTTCCCTGAGGCC
AGGGCATGACCCTGTGCGGGAGAGGCTCAAGCGGGACCTGTTCCAGTTTAAACAAGACGGTGGAGCATGGCTTCCC
GCACCAGCCCAGCGCCCTCGGCTACAGCCCGTCCCTGCACATCCTGGCCATCGGCACCCGTTCTGGAGCCATCAA
GCTCTACGGAGCCCCAGGCGTGGAGTTTCATGGGGCTGCACCAGGAGAACAACGCTGTGACGCAGATCCACCTCCT
GCCCCGCCAGTGCCAGCTGGTCACCCCTGCTGGATGACAACAGCCTGCACCTTTGGAGCCTGAAGGTCAAGGGCGG
GGCATCGGAGCTGCAGGAGGATGAGAGCTTCACACTGCGTGGACCCCCAGGGGCTGCCCCAGTGCCACACAGAT
CACCGTGGTCTGCCACATTCTCTGCGAGCTGCTCTACCTGGGCACCGAGAGTGGCAACGTGTTTGTGGTGCA
GCTGCCAGCTTTTCGTGCGCTGGAGGACCGGACCATCAGCTCGGACGCGGTGCTGCAGCGGTTGCCAGAGGAGGC
CCGCCACCGGCGTGTGTTTCGAGATGGTGGAGGCACTGCAGGAGCACCCCTCGAGACCCCAACCAGATCCTGATCGG
CTACAGCCGAGGCCTCGTTGTCTATCTGGGACCTACAGGGCAGCCGCGTGTCTTACCACTTCTCAGCAGCCAGCA
ACTGGAGAACATCTGGTGGCAGCGGGACGGCCGCCCTGCTCGTCAGCTGTCACTCTGACGGCAGCTACTGCCAGTG
GCCCCGTGTCCAGCGAAGCCCAGCAACCAGAGCCCCCTCCGCAGCCTCGTGCCTTACGGTCCCTTTCTTGCAAAGC
GATTACCAGAATCCTCTGGCTGACCACTAGGCAGGGGTTGCCCTTACCATCTTCCAGGGTGGCATGCCACGGGC
CAGCTACGGGGACCGCCACTGCATCTCAGTGATCCACGATGGCCAGCAGACGGCCTTCGACTTCACCTCCCGTGT
CATCGGCTTCACTGTCTCTACAGAGGCAGACCCCTGCAGCCACCTTTGACGACCCCTATGCCCTGGTGGTGTGGC
TGAGGAGGAGCTGGTGGTGATTGACCTGCAGACAGCAGGCTGGCCACCGGTCCAGCTGCCCTACCTGGCTTCTCT
GCACTGTTCCGCCATCACCTGCTCTCACACGCTCTCCAACATCCCGCTGAAGCTGTGGGAGCGGATCATTGCCGC
CGGCAGCCGGCAGAACGCACACTTCTCCACCATGGAGTGGCCAATTGATGGTGGCACACAGCCTGACCCCAGCCCC
ACCCCAGAGGGACCTGCTGCTCACAGGGCACGAGGACGGCACGGTGCAGTTCTGGGATGCCTCGGGTGTCTGCCT
GCGGCTGCTCTACAACTCAGCACTGTGCGCGTGTTCCTCACCGACACGGACCCCAACGAGAATTCAGTGCCCA
GGGCGAGGACGAGTGGCCCCCACTCCGCAAGGTGGGCTCCTTTGACCCCTACAGTGATGACCCCGGCTGGGCAT
CCAGAAGATCTTCTCTGCAAGTACAGCGCTACCTGGCTGTGGCAGGCACGGCAGGGCAGGTGCTGGTACTGGA
ACTGAATGACGAGGCAGCGGAGCAGGCTGTGGAGCAGGTGGAGGCCGACCTGCTGCAGGACCAAGAGGGCTACCG
CTGGAAGGGGCACGAGCGCCTGGCAGCCCGCTCAGGGCCCGTGCCTTTGAGCCTGGCTTTCAGCCCTTCGTGTT
GGTGCAGTGTGAGCCCCCGCTGTGGTCACCTCCTTGGCCCTGCACTCTGAGTGGCGGCTCGTGGCCTTCGGCAC
CAGCCATGGCTTTGGCCTCTTTGACCACAGCAGCGGCGGCAGGTCTTTGTTAAGTGCACACTGCACCCCAGTGA
CCAGCTGGCCTTGAGAGGGCCCACTCTCCCGCGTCAAGTCCCTCAAGAAGTCTTGCCTCAGTCATTCCGCCGGAT
GCGTCGGAGCCGGGTGTCCAGCCGGAAGCGGCACCCGGCTGGCCCCCAGGAGAGGCACAGGAGGGGAGTGCCAA
GGCTGAGCGGCCAGGCCTCCAGAACATGGAGCTGGCGCCTGTGCAGCGCAAGATCGAGGCTCGCTCGGCAGAGGA
CTCCTTCACAGGCTTCGTCCGGACCCTGTACTTTGCTGACACCTACCTGAAGGACAGCTCCCGGCACTGCCCCCTC
GCTGTGGGCTGGCACCAATGGGGGCACCATCTATGCCTTCTCCCTGCGTGTGCCTCCCGCCGAGCGGAGAATGGA
TGAGCCTGTGCGGGCAGAGCAGGCCAAGGAGATCCAGCTGATGCACCGGCGCGCGGTGGTGGGCATCCTGGTGTCT
CGACGGACACAGCGTACCCCTTCCCGAGCCCCCTCGAAGTGGCCCATGATCTGTGCAAGAGCCCTGACATGCAGGG
AAGCCACCAGCTGCTCGTCGTATCAGAGGAGCAGTTCAAGGTGTTACGCTGCCCAAGGTGAGTGCCAAGCTGAA
GTTGAAGCTGACGGCCCTGGAGGGCTCAAGAGTGGCGGGTGCAGCTGGCCCACTTCGGCAGTCGTCGAGCCGA
GGACTACGGGGAGCACACCTGGCAGTCCTTACCAACCTGGGCGACATCCAGGTGGTCTCGCTGCCCCCTGCTCAA
GCCCCAGGTGCGCTACAGCTGCATCCGCCGGGAGGACGTGAGTGGCATCGCCTCCTGCGTCTTACCAAAATATGG
CCAAGGCTTCTACCTGATCTCACCTCGGAGTTTGAGCGCTTCTCTCTCTCCACCAAGTGGCTGGTGGAGCCCCG
GTGTCTGGTGGATTACAGCAGAAACCAAGAACCACCGCCCTGGTAACGGTGCAGGGCCCCCAAGAAGGCCCCGAGCCG
AGCCAGGAACTCAGGGACTCAGAGTGATGGCGAGGAGAAGCAGCCCGGCGCTGGTGTGAGAGCGCGCTCTGCTCAG
TGATGAGAGAGCGGCAACTGGCGTTACATCGAGCCGCCGTGGGGTGCAGCCTCAGCAATGGCGGAGCAGAGTGA
GTGGCTGAGCGTCCAGGCTGCGCGATGAGCACACACTACTACTGATGGCCTTTCGGGGGTCCCTGCCCCAACCGG
AGAGGCCGGTGCACAGGGCCCCGCCAGGGGCTGGGGGCATCCCGGCTTCCACAATGCAGCTGCTCTGGGCCTCGG
GAGAGGAGAGACCCAGTCCCTTGGGCTGCCCTTCCCGGGCCTCGTCTGTCTGGGTCTTTGGTCAATGTTGCAC
AGTTTTTATTGCTCCCATCCCTTTTTGTAGTGGGCTGGGTTTTAAGTTATAAATGTTAACTGCCTCTGGGTGAAA
AAGTTTTTAATAAACACCTATTACCTCTTG

5378/6881

FIGURE 4961

MRRFLRPGHDPVRERLKRDLFQFNKTVEHGFPHQPSALGYSPSLHILAIGTRSGAIKLYGAPGVFEFMGLHQENNA
VTQIHLLPGQCQLVTLLDDNSLHLWSLKVKGGASELQEDESFTLRGPPGAAPSATQITVVLP HSSCELLYLGTES
GNVFVVQLPAFRALEDRTISSDAVLQRLPEEARHRRVFEMVEALQEHPRDPNQILIGYSRGLVVIWDLQGSRLVY
HFLSSQQLENIWWQRDGRLLV SCHSDGSYCQWPVSSEAQQPEPLRSLVPYGPFPCKAITRILWLTTROGLPFTIF
QGGMPRASYGDRHCISVIHDGQQTAFDFTSRVIGFTVLT EADPAATFDDPYALVVLAEEELVVIDLQTAGWPPVQ
LPYLASLHCSAITCSHHVSNIP LKLWERIIAAGSRQNAHFSTMEWPIDGGTSLTPAPPQRDLLLLTG HEDGTVRFW
DASGVCLRLLYKLSTVRVFLTD TDPNENFSAQGEDEWPPLRKVG SFDPYSDDPRLGIQKIFLCKYSGYLAVAGTA
GQVLVLELNDEAAEQAVEQVEADLLQDQEGYRWKGHERLAARSGPVRFE PGFQPFVLVQCQPPAVVTSALHSEW
RLVAFGTSHGFGFLFDHQRRQVFVKCTLHPSDQLALEGPLSRVKS LKKSRLRQSFRMRMR SRVSSRKRHPAGPPGE
AQEGSAKAERPGLQNMELAPVQRKIEARSAEDSFTGTFVRTLYFADTYLKDSSRHCP SLWAGTNGGTIYAFSLRVP
PAERRMDEFVRAEQAKEIQLMHRAPVVGILVLDGHSVPLPEPLEVAHDLSKSPDMQ GSHQLLVVSEEQFKVFTLP
KVS AKLKLKLTALEGSRVRRVSVAHFGSRR AEDYGEHHLAVLTNLGDIQVVS LPLLKPQVRYS CIRREDVSGIAS
CVFTKYGQGFYLI SPSEFERFSLSTKWLVEPRCLVDSAETKNHRPGNGAGPKKAPS RARNSGTQSDGEEKQFGLV
MERALLSDERAATGVHIEPPWGAASAMAEQSEWLSVQAAR

5379/6881
FIGURE 4962A

GTGGGTTCTGCCTAAAGCTGAATTCCCAGCGCTTTGGCTTCTCTGAGTTGGGGTTGTGTATAGGGGTCTTCGAAC
AGTTCCGGAACCAGCCAGCAGCCTTTAATTCTTGGGCGGACCACGGCCGGTTCTGATATCTTAGGGTGAAGAGAG
GGAGGTGTGGGCCAGCCAAGAGAGAAAAATTGCGGATCTTGGGCTCAGGAAGACGGGAGAAGGGGTTTCGGGGTCCC
GGGGTGAAGAACGGTTCGTGCTGTTGCGCTTATAGAAGTAGGAGCAGAGGGTTCTCGTGCCAACCTTTTACTAC
CTTTGCCTTAACCTTTGGCCACTGTTCTTGGCTAAGATGAGCAGCCACCATAACCACCTTTCTTTTGACCCTGAG
CGGCGAGTCCGGAGTACGCTGAAGAAGGTCTTTGGGTTTGACTCTTTTAAGACGCCTTTACAGGAGAGTGCGACC
ATGGCTGTAGTAAAAGGTAACAAGGACGTCTTTGTGTGCATGCCACAGGGGCAGGAAAAATCCCTATGCTATCAG
CTCCCTGCTCTGTTGGCCAAAGGCATCACCATTGTAGTCTCTCTCTCATTGCTTTGATTTCAGGACCAAGTGGAC
CACTTGCTAACCCTAAAGGTACGAGTAAGTTCCTGAAGCTCTCTGCACAGGAAAGGAAGGAGCTGCTT
GCTGACCTGGAGCGAGAAAAGCCCCAGACCAAGATTCTGTACATCACCCCAGAGATGGCAGCTTCATCCTCCTTC
CAGCCCACCCTGAAGTCCCTGGTGTCCCGCCACCTGCTGTCTTACTTGGTGGTGGATGAAGCTCATTGTGTTTCC
CAATGGGGGCATGACTTTTCTGCTGACTACTTGCCTGCTGGGTGCCCTGCGCTCCCGCTGGGACATGCCCTTGT
GTGGCTCTGACCGCCACAGCCACCCACAGGTCCAAGAGGACGTGTTTGTGCTGCCCTGCACCTGAAGAAACCAGTT
GCCATCTTCAAGACTCCCTGCTTCCGGGCCAACCTCTTCTATGATGTGCAATTCAAGGAACTGATTTCTGATCCC
TATGGGAACCTGAAGGACTTCTGCCTTAAGGCTCTTGGACAGGAGGCTGATAAAGGGTTATCTGGCTGCGGCATT
GTGTACTGCAGGACTAGAGAGGCTTGTGAACAGCTGGCCATAGAGCTCAGCTGCAGGGGTGTGAACGCCAAGGCT
TACCATGCAGGGCTGAAGGCCTCTGAAAGAACGCTGGTGCAGAACGACTGGATGGAGGAGAAGGTCCCTGTAATT
GTTGCAACCATTAGTTTTGGGATGGGAGTGGATAAAGCCAATGTCAGGTTTGTGCGCCATTGGAATATTGCCAAG
TCTATGGCTGGGTACTACCAGGAGTCTGGCCGGGCTGGCAGGGATGGGAAGCCTTCTGCTGCCCTCTCTATTAC
TCCAGGAATGACCGGGACCAAGTCAGCTTCTGATCAGGAAGGAAGTAGCAAACTCCAGGAAAAGAGAGGAAAC
AAAGCATCTGATAAAGCCACTATCATGGCCTTTGATGCCCTGGTGCCTTCTGTGAAGAACTGGGGTGCCGCCAT
GCCGCCATTGCCAAGTACTTCCGGGATGCGCTGCCTGCCTGCGCCAAAGGCTGCGACCACTGCCAGAACCCACG
GCCGTGCGGAGGCGGCTGGAGGCCTTGGAGCGCAGCAGCAGCTGGAGCAAGACCTGCATCGGGCCCTCCAGGGG
AACGGCTTTGACCCCGAGCTGTATGAGGGAGGCGCAAGGGCTACGGGGACTTCAGCAGGTATGACGAAGGTTCT
GGAGGCAGCGGGGATGAAGGCAGAGATGAGGCCCAAGCGGGAGTGAACCTCTTCTATCAGAAGCAGATGCAG
CTGCGCAAGGGCAAAGACCCCAAGATAGAAGAATTTGTACCCCAAGATGAGAACTGTCCCCTGAAAGAGGCTTCT
AGCAGGAGGATCCCCAGGCTGACTGTGAAGGCACGGGAGCACTGCCTGCGGCTTCTGGAGGAGGCGCTGAGCAGC
AACCGCCAGTCAACACGTACCGCTGATGAAGCTGACCTCCGGGCCAAGGCCGTGGAGCTGGAACATGAGACATTC
CGGAACGCCAAGGTGGCCAACTCTACAAGGCCAGCGTGCTGAAGAAGGTGGCCGATATCCACAGAGCCTCCAAG
GATGGGCAGCCCTATGACATGGGAGGCAGTGCCAAGAGCTGCAGTGCCCAAGCTGAGCCCCCGGAGCCCAATGAG
TATGACATTCCACCAGCCTCCCATGTGTACTCGCTCAAACCAAGCGGGTGGGAGCTGGTTTTCCCCAAAGGCTCC
TGCCCGTTCCAGACGGCCACGGAAGTGAAGGACAACTCGGATCAGGGAGCAAGCCCCCAGCCCCGAGCGGGGA
GGCGAGCACGAGCCCCGAGCCGGCCCTGTGGCCTCCTGGATGAGGATGGGAGTGAGCCCCCTCCCTGGGCCCAGA
GGGGAGGTCCCTGGAGGCAGCGCTCACTATGGGGGGCCCTCCCTGAGAAGAAGGCAAAAAGTTCTCTGGGGGC
AGCTCCCTTGCCAAGGGCCGGGCTAGCAAGAAACAGCAGCTCCTAGCCACAGCGGCCACAAAGGATTCTCAGAGC
ATCGCCCGCTTCTTCTGCCGAAGGGTGGAAAGCCCAGCTCTGCTGGCATCAGCCCCAGAGGCAGAAGGTGCCTGC
CCCTCCTGTGAGGGGGTTTCAGGGACCCCGATGGCCCCAGAGAAGTACACAGGGGAGGAAGATGGAGCCGGGGGA
CATTCGCTGCCCTCCCCAGACTGAGGAGTGCCTCAGGGAGAGGCCAAGCACCTGCCCCGCCAGAGACCAGGGC
ACCCCTGAAGTCCAGCCCACCCCTGCAAAGGACACATGGAAGGGCAAGCGGCCTCGATCCAGCAGGAGAACCCA
GAGAGCCAGCCTCAGAAGAGGGCCACGCCCTCAGCCAAGCCCTCCGTCGTAGCTGAGGTCAAGGGCAGCGTCTCG
GCCAGCGAACAGGGCACCTTGAATCCCACGGCTCAAGACCCCTTCCAGCTCTCCGCTCCTGGCGTCTCCTTGAAG
GAGGCTGCAAATGTTGTGGTCAAGTGCCTCACCCCTTCTACAAGGAGGGCAAGTTTGCTTCCAAGGAGTTGTTT
AAAGGCTTTGCCCGCCACCTCTCACACTTGCTGACTCAGAAGACCTCTCCTGGAAGGAGCGTGAAAGAAGAGGCC
CAGAACCTCATCAGGCATTCTTCCATGGCCGGGCCCCGTGCGAGAGCGAAGCTGACTGGCATGGCCTGTGTGGC
CCCCAGAGATGACCAACTGCTGGCTGGGCAGGGCCCCGCTCCTCCCCAGATTCTAGCATGGGTATCCTGGGCC
TCACCTGCTGATGCCAGGGCCATCGTCTTTTCTCAGTCTTCTCCTTTCCAACCATACTTGGCTTTGGGGATGAC
CCCAGACACCCCTGAATCCAGGTGAGAGGTGAGCCACCTTTCTTTCTGCTTGCAAAGCCTATAGACCTTCTC
AGAGCGGTCTCATGGCTGGGTTTTCTGGGACACATGTCGAGGACAGAAGGTGGAGGGTGGTGGAGCTGCTGCTG

5380/6881
FIGURE 4962B

GAAGAAGGGGAAGGAAGAGTGGCCCCTCCCCGAGTTCTAAGTCAGGATGAGGCCACCTGTCCAAGGTATCGGAA
CCTACCCAGGGGACCCTCAGATCCTCCACCCACTCCCCCATCCATTACGATGCCAGCTTCCAGCCTTGCCCAGGT
CAGAGCTGTGGCAGAGGAGAGGCAGCCAGGCCCTGTTCTGCTCAGCTCCTGCTCAGGAAGGCCAGGCCTGACAG
ATGTTTGGGAGAGGAATAAAGTTGTGTTGTTGTGGGGCATGCAGGCGTGCACAC

5381/6881
FIGURE 4963A

GC GCTG C C C G C C T C G T C C C C A C C C C C A A C C C C C G C G C C G C C C T C G G A C A G T C C C T G C T G C C C G C G C G T G C
A G C C C C A T C T C C T A G C G G C A G C C C A G G C G C G G A G G G A G C G A G T C C G C C C G A G G T A G G T C C A G G A C G G G C G C A C A
G C A G C A G C C G A G G C T G G C C G G G A G A G G G A G A A G A G G A T G G C A G G G C C A C G C C C A G C C C A T G G G C C A G G C T G C T
C C T G G C A G C C T T G A T C A G C G T C A G C C T C T C T G G G A C C T T G G C A A A C C G C T G C A A G A A G G C C C A G T G A A G A G C T G
C A C G G A G T G T G T C C G T G T G G A T A A G G A C T G C G C C T A C T G C A C A G A C G A G A T G T T C A G G G A C C G G C G C T G C A A C A C
C C A G G C G G A G C T G C T G G C C G C G G G C T G C C A G C G G G A G A G C A T C G T G G T C A T G G A G A G C A G C T T C C A A A T C A C A G A
G G A G A C C C A G A T T G A C A C C A C C C T G C G G C G C A G C C A G A T G T C C C C C A A G G C C T G C G G G T C C G T C T G C G G C C C G G
T G A G G A G C G G C A T T T T G A G C T G G A G G T G T T T G A G C C A C T G G A G A G C C C C G T G G A C C T G T A C A T C C T C A T G G A C T T
C T C C A A C T C C A T G T C C G A T G A T C T G G A C A A C C T C A A G A A G A T G G G G C A G A A C C T G G C T C G G G T C C T G A G C C A G C T
C A C C A G C G A C T A C A C T A T T G G A T T T G G C A A G T T T G T G G A C A A A G T C A G C G T C C C G C A G A C G G A C A T G A G G C C T G A
G A A G C T G A A G G A G C C C T G G C C C A A C A G T G A C C C C C C T T C T C C T T C A A G A A C G T C A T C A G C C T G A C A G A A G A T G T
G G A T G A G T T C C G G A A T A A A C T G C A G G G A G A G C G G A T C T C A G G C A A C C T G G A T G C T C C T G A G G G C G G C T T C G A T G C
C A T C C T G C A G A C A G C T G T G T G C A C A G G G A C A T T G G C T G G C G C C C G G A C A G C A C C C A C C T G C T G G T C T T C T C C A C
C G A G T C A G C C T T C C A C T A T G A G G C T G A T G G C G C C A A C G T G C T G G C T G G C A T C A T G A C C G C A A C G A T G A A C G G T G
C C A C C T G G A C A C C A C G G G C A C C T A C A C C C A G T A C A G G A C A C A G G A C T A C C C G T C G G T G C C C A C C C T G G T G C G C C T
G C T C G C C A A G C A C A A C A T C A T C C C C A T C T T T G C T G T C A C C A A C T A C T C C T A T A G C T A C T A C G A G A A G C T T C A C A C
C T A T T T C C C T G T C T C C T A C T G G G G G T G C T G C A G G A G G A C T C G T C C A A C A T C G T G G A G C T G C T G G A G G A G G C C T T
C A A T C G G A T C C G C T C C A A C C T G G A C A T C C G G G C C C T A G A C A G C C C C G A G G C C T T C G G A C A G A G G T C A C C T C C A A
G A T G T T C C A G A A G A C G A G G A C T G G G T C C T T T C A C A T C C G G C G G G G G A A G T G G G T A T A T A C C A G G T G C A G C T G C G
G G C C C T T G A G C A C G T G G A T G G G A C G C A C G T G T G C C A G C T G C C G G A G G A C C A G A A G G G C A A C A T C C A T C T G A A A C C
T T C C T T C T C C G A C G G C C T C A A G A T G G A C G C G G G C A T C A T C T G T G A T G T G T G C A C C T G C G A G C T G C A A A A A G A G G T
G C G G T C A G C T C G C T G C A G C T T C A A C G G A G A C T T C G T G T G C G G A C A G T G T G T G T G C A G C G A G G G C T G G A G T G G C C A
G A C C T G C A A C T G C T C C A C C G G C T C T C T G A G T G A C A T T C A G C C C T G C C T G C G G G A G G G C G A G G A C A A G C C G T G C T C
C G G C C G T G G G G A G T G C C A G T G C G G G C A C T G T G T G T G C T A C G G C G A A G G C C G C T A C G A G G G T C A G T T C T G C G A G T A
T G A C A A C T T C C A G T G T C C C C G C A C T T C C G G G T T C C T G T G C A A T G A C C G A G G A C G C T G C T C C A T G G G C C A G T G T G T
G T G T G A G C C T G G T T G G A C A G G C C C A A G C T G T G A C T G T C C C C T C A G C A A T G C C A C C T G C A T C G A C A G C A A T G G G G G
C A T C T G T A A T G G A C G T G G C C A C T G T G A G T G T G G C C G C T G C C A C T G C C A C C A G C A G T C G C T C T A C A C G G A C A C C A T
C T G C G A G A T C A A C T A C T C G G C G A T C C A C C C G G G C C T C T G C G A G G A C C T A C G C T C C T G C G T G C A G T G C C A G G C G T G
G G G C A C C G G C G A G A A G A A G G G G C G C A C G T G T G A G G A A T G C A A C T T C A A G G T C A A G A T G G T G G A C G A G C T T A A G A G
A G C C G A G G A G G T G G T G G T G C G T G C T C C T T C C G G G A C G A G G A T G A C G A C T G C A C C T A C A G C T A C A C C A T G G A A G G
T G A C G G C G C C C C T G G G C C C A A C A G C A C T G T C C T G G T G C A C A A G A A G A A G G A C T G C C C T C C G G G C T C C T T C T G G T G
G C T C A T C C C C C T G C T C C T C C T C C T G C C G C T C C T G G C C C T G C T A C T G C T G C T A T G C T G G A A G T A C T G T G C C T G
C T G C A A G G C C T G C C T G G C A C T T C T C C C G T G C T G C A A C C G A G G T C A C A T G G T G G G C T T T A A G G A A G A C C A C T A C A T
G C T G C G G G A G A A C C T G A T G G C C T C T G A C C A C T T G G A C A C G C C C A T G C T G C G C A G C G G G A A C C T C A A G G G C C G T G A
C G T G G T C C G C T G G A A G G T C A C C A A C A C A T G C A G C G G C C T G G C T T T G C C A C T C A T G C C G C C A G C A T C A A C C C C A C
A G A G C T G G T G C C C T A C G G G C T G T C C T T G C G C C T G G C C C G C C T T T G C A C C G A G A A C C T G C T G A A G C C T G A C A C T C G
G G A G T G C G C C C A G C T G C G C C A G G A G G T G G A G G A G A A C C T G A A C G A G G T C T A C A G G C A G A T C T C C G G T G T A C A C A A
G C T C C A G C A G A C C A A G T T C C G G C A G C A G C C C A A T G C C G G G A A A A A G C A A G A C C A C A C C A T T G T G G A C A C A G T G C T
G A T G G C G C C C C G C T C G G C C A A G C C G G C C C T G C T G A A G C T T A C A G A G A A G C A G G T G G A A C A G A G G G C C T T C C A C G A
C C T C A A G G T G G C C C C C G G C T A C T A C A C C C T A C T G C A G A C C A G G A C G C C C G G G C A T G G T G G A G T T C C A G G A G G G
C G T G G A G C T G G T G G A C G T A C G G T G C C C C T C T T T A T C C G G C C T G A G G A T G A C G A C G A G A A G C A G C T G C T G G T G G A
G G C C A T C G A C G T G C C C C A G G C A C T G C C A C C C T C G G C C G C C G C C T G G T A A A C A T C A C C A T C A T C A A G G A G C A A G C
C A G A G A C G T G G T G T C C T T T G A G C A G C C T G A G T T C T C G G T C A G C C G C G G G A C C A G G T G G C C C G C A T C C C T G T C A T
C C G G C G T G T C C T G G A C G G C G G G A A G T C C C A G G T C T C C T A C C G C A C A C A G G A T G G C A C C G C G C A G G G C A A C C G G G A
C T A C A T C C C C G T G G A G G G T G A G C T G C T G T T C C A G C C T G G G G A G G C C T G G A A A G A G C T G C A G G T G A A G C T C C T G G A
G C T G C A A G A A G T T G A C T C C C T C C T G C G G G G C C G C C A G G T C C G C C G T T T C C A C G T C C A G C T C A G C A A C C C T A A G T T
T G G G G C C C A C C T G G G C C A G C C C C A C C A C C A C C A T C A T C A T C A G G G A C C C A G A T G A A C T G G A C C G G A G C T T C A C
G A G T C A G A T G T T G T C A T C A C A G C C A C C C C T C A C G G C A C C T G G G C G C C C C G C A G A A C C C A A T G C T A A G G C C G C

[illegible]

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FIGURE 4964

MAGPRPSPWARLLLAALISVSLSGTLANRCKKAPVKSCTECVRVDKDCAYCTDEMFRDRRCNTQAEILLAAGCQRE
SIVVMESSEFQITEETQIDTTLRRSQMSPQGLRVRLRPGEERHFELEVFEPLSPVDLYILMDFSNSMSDDLDNLK
KMGQNLARVLSQLTSDYTIGFGKFVDKVSVPQTDMRPEKLKEPWPNSDPPFSFKNVISLTEDVDEFRNKLQGERI
SGNLDAPEGGFDAILQTAVCTRDIGWRPDSTHLLVFSTESAFHYEADGANVLAGIMSRNDERCHLDTTGTYTQYR
TQDYPSVPTLVRLAKHNIIPFAVTNYSYSYIEKLHTYFPVSSLGVLQEDSSNIVELLEAFNRIRSNLDIRAL
DSPRGLRTEVTSKMFQKTRTGSFHIRRGEVGIYQVQLRALEHVDGTHVCQLPEDQKGNHILKPSFSDGLKMDAGI
ICDVCTCELOKEVRSARCSFNGDFVCGQCVCSEGWSGQTCNCSTGSLSDIQPCLREGEDKPCSGRGECQCGHCVC
YGEGRYEGQFCEYDNFQCPRTSGFLCNDRGRCMSMGQCVCEPGWTGPSCDCPLSNATCIDSNGGICNGRGHCCEGR
CHCHQQSLYTDITICEINYSIAIHPLCEDLRSCVQCQAWGTGEKKGRTCEEENFKVKMVDLKRAREEVVRCSDRD
EDDDCTYSYTMEGDGAPGNSTVLVHKKKDCPPGSGFWWLIPLLLLLLLPLALLLLLCKWKYCACCKACLALLPCCN
RGHVMGFKEDHYMLRENLMASDHLDTPLRLSGNLKGRDVVRWKVTNNMQRPGFATHAASINPTELVPYGLSLRLA
RLCTENLLKPDTRCAQLRQEEVENLNEVYRQISGVHKLQQTFRQQPNAGKKQDHTIVDTVLMAPRSAKPALLK
LTEKQVEQRAFHDLKVAPGYTTLTADQDARGMVEFQEGVELVDVRVPLFIRPEDDDEKQLLVEAIDVPAGTATLG
RRLVNITIIKEQARDVVSFEQPEFSVSRGDQVARIPVIRRVLDGGKSQVSRYRTQDGTAGQGNRDYIPVEGELLFQP
GEAWKELQVKLLELQEVDSLLRGRQVRRFHVQLSNPKFGAHLGQPHSTTIIIRDPDELDRSFTSQMLSSQPPPHG
DLGAPQNPNAKAAGSRKIHFNWLPPSGKPMGYRVKYWIQGDSESEAHLLDSKVPVELTNLYPYCDYEMKVCAYG
AQGEGPYSSLVSCRTHQEVPSSEPGRALAFNVVSSVTQLSWAEPATNGEITAYEVCYGLVNDNRPIGPMKKVLV
DNPKNRMLLIENLRESQPYRYTVKARNGAGWGPEREAINLATQPKRPMSEIPIPDIPVDAQSGEDYDSFLMYS
DDVLRSPSGSQRPVSDDTGCGWKFEPLLEELDLRRVTWRLPPELIPRLSASSGRSSDAEAPTAPRTTAARAGR
AAAVPRSATPGPPGEHLVNGRMDFAFPGSTNSLHRMTTTSAAAYGTHLSPHVPHRVLSTSSSTLTRDYNLSLTRSEH
SHSTTLPRDYSTLTSVSSHDSRLTAGVPDTPTRLVFSALGPTSLRVSWQEPRCERPLQGYSEYQLLNGGELHRL
NIPNPAQTSVVVEDLLPNHSYVFRVRAQSQEGWGREREGVITIESQVHPQSPLCPLPGSAFTLSTPSAPGPLVFT
ALSPDSLQLSWERPRRPNGDIVGYLVTCEMAQGGGPATAFRVDGDSPESTRITVPGLSENVYPYKFVQARTTEGFG
PEREGITITIESQDGGPFPQLGSRAGLFQHPLOQSEYSSITTTHTSATEPFLVDGLTLGAQHLEAGGSLTRHVTQEF
VSRTLTTSGLTSTHMDQFFQT

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FIGURE 4965A

CAAGGGGCCAGGACCCTGAGTTTTATTGGGCCTTGACTAATGTGCCTCCTCATCTGTGTCTCACCCCTCATTGTG
GACTTAGGTTTCAGGTATCTCAGAGGCAGACCCACAGGCTCTGCTCCAGGCCATGAAGGACCTGGACGGCATGGA
TGCTGATATCTTAGGTCTGAAGAAATCTAATTCAGCCCCTAGCAAAAAAGCTGCAAAGGACCCCTGGGAAAGGAGA
GCTGCCCAACCACCCCAAGCCTGCAGGGGGTGCCATTCCCACCAAGAAGTCACTTCCGTCTCCCAGCAGCTCTGG
GCATCAGAACAGGAGGTTTTCTCTGAAGACTTGGAAGACCCATTGAGAGGACTTCTCTCCTATGATGAAGGAGG
AATCACCAAGCAGCCGCCTGTGACACAGAGTAAAAACAGCTTCTGACAAGAGCCCCAGCACAGTGAGAGATCAAGG
TCCCTCTATTCTCTAACTCCTGGGGACACCCCCATCCGAAAAAAGAAGAATTGTTGTTTGATGATGGGGATGA
CATCATGGCCACCTTGGGGTTTGGAGACAGCCCCAAAGCAGAGAAGAGGCAGATAGGAGACCAGGAAGGGCCTCG
CCCTGCTCGCTCCACGCTGGATGAGCTGCTGGGTGCGAGGCATGGCCACCAAACCTCTGGCCCCCGGGCACC GG
GGAGCACAGGGAGTTCAAGCTAGACAAGAAGTACCAGAGGCCACAGGACAGTGAAGATATGTGGGGTGACGAGGA
CTTCACCTTTGGAGCCTATCAGCCCCTGTTGGTCTCCTCTGAGGGCCGGCAGTCCC GCCGGCAGTCTGTCTAGTAG
GTTCTTCGCAGACAGTGGCGCAGACCCCAAGGGAGAACCAGGCTCCAAACAGAGCCCTCCAATGGCTTCCAGCCC
CATCCAGCCCAGGAAGGGAGGAGCTGACTGGTTGGGCCTCAAGGACGAGGACTTGGACCTGTTCCCTGCCTCACC
CACCAGAGAGGCCCATCGGGAAAGTTTCAGTGCCTGTACGCCCCAGTGCCTCCTCCTGCGAGCCAGCACTCCAC
GCCAGCTGGGCTGCCCCCTCCAGGGCAAAGCCACCAACTGAAGGTGCAGGGTCCCCTGCCAAAGCCAGCCAGGC
TTCCAAGCTGCGAGCCTCCAAGGAGGAGAAAGAGGACTGGCTGAGCCATGCCCTGTCTCGGAAGAAGTCCCAAGG
CCTGGCCAGAGAGCAGCATGTGAGGACCTCTGAGGGCCTGCATTTGGCGGGGACAGCGGGCCATCCCCCTTCTGG
CAGCCTGACCTGGGCCTTCTGTACCTTCACCTTGAACGCTGCCTTTCTCAGCCAACCTCTCACCAGCACACAA
GGGCTTGAGCACGCAGCTGCTGGAGGGAGTTCTGGAACAACTGCACGAGAAAGACCGTGTGTGAGGCCTGGTGT
TCGGGGTCCCCTGTGACTCAGAACCATGCCGCCCTCAGCACTCCCTACAGGTTCCCCAAAGAGGGGAACAGCCCCCT
GGAGACCTCTCAGCCACTGAGCCTGCCACGTGTTTCCCGAGCACCCAGAAACCCACAGAGCCTTCCGTGCCCCGT
CAGCCCCCTGCTCCCAGAGTCCCTGGCCCCGAGCCTGCTGCCGAGCACAGAATACCAGAAGCAGCTCCTGGCAGCA
CAGGTGCAACTTCAGTGCAGCCCCGCTGAGCTCCAGGCCGAGCTGCTGCATAGCCAGGCCCGGCTGGCAGAGCTG
GAGGCCCAGGTGCGGAAGCTGGAGCTAGAACGGGCCCAGCATGAGCTGCTGCTGGGGAGTCTGCAGCAGCAGCAC
CAGGCAGACCTGGAGCTCATCGAGAGTGCACACAGAAGCCGCATCAAGGTGCTAGAAACATCGTACCAGCAACGG
GAGGAGCGGCTCCGGAGAGAGAACGAAGAGCTGTGAGCTCGGTATCTGTGCGAGTGCCAGGAGGCCGAACAGGCC
CGTGCTGAGCTTACGGCCCAGCACAGCGGCGCTTGGCGGCCATAGCGCAGGAGAAGGACCAGGAAAATGGAGCGG
CTCCGGGAGCTGCAGCGGGCGTCCATCCTAGACATGCGCAGAGACCACGAGGAGCAGCTGCAGCGGCTAAAGCTG
CTGAAGGACCGAGAGGTTCGATGCGGCCACCAGTGCCACCTCCCACACACGGTCCCTGAATAGCATCATCCACCAG
ATGGAGAAGTTCTCCAGCAGCCTGCACGAGTTGTCTCCCGCGTGGAGGCCTCGCACCTCACCACCTCCCAGGAG
CGGGAGCTGGGGATCCGGCAGCGTGACGAGCAGCTGCGGGGAGCGGCTGGGCCAGCAGCAGCGGGACATGGAGGA
GGAGCGGAGCCGGCAACAGGAGGTTCATCGGGAAGATGGAGGCACGGCTGAATGAGCAGAGCCGGCTGCTGGAGCA
GGAACGCTGGCGGGTGACTGCCGAGCAGTCCAAGGCGGAGTCCATGCAGCGCGCCCTAGAGGAGCAAAGGAAGGT
CACGGCCCAGCAGATGGCCATGGAAAGGGCGGAGCTGGAACGGGCCAAGAGCGCCTTGCTGGAGGAGCAGAAGTC
TGTCATGCTCAAGTGCGGGGAGGAGCGGCGGCGCCTGGCTGCCGAGTGGGCGGAGTTCTCCGCGCAGCAAAAGCT
GAGAGCAGGCTGAGCTGAAGATCAGGGCCAGCAGCTCCGGGCCGAGGAGAAGCAGCTGGCAGCGGAGAGAGCAG
CCCTGGAGCAGGAGCGGCAGGAGCTGCGGCTGGAGAAGGAGAGGATCAACGCCACCGCCCTGCGTGTCAAGCTCC
GCGCCGAGGAGGTGGAGAGCATGAGCAAGGTGGCCTCCGAGAAGTACGAGGAGGGGGAGCGGGCATTGCGCGAGG
CCCAGCAGGTGCAGGCAGAGCAGCAGGCCCCGTTGAGGCGGTGCAGCAACAGCAGGAGCGGCTGCGGAAGCAGG
AGCAGCACATGCACCAGGAGCATCTGAGTCTGGCCAGCAGAGGCTGCAACTGGACCGCGCACAGCAGGACCTGC
CCTCTAGCCTCGTGGGTCTGTTCCCCAGGGCCCCAGGGCCCTGCAGCCTCCAGCCAGAGTGCCCTCATGCCTCCTG
CTCCCACACCCGTTGGTGCAGCCAGCCGCCAACTGGCCTGGACCCCAGCCCCCTTGACCTCCATGCCAGGCTGG
CACTGCTGAGGCACATGGCAGAGCAGCACCTGCGGTCTGCGGTGGCACCTGGCAGCTGGACCACAGCCAGGAGAA
GGGTACTATTAGCCCTGCTTCAAACATGCAGAACTGAGGCCCGGGGAGATTAAATAACCTGCCTGAAATGACAC
CGTCCTGGGCCCGCGGACACCCCCCTGGGGCCGATGCCCAACAGTGACATCGACTTGAGCAACCTGGAGCGGCT
GGAGAAGTACCGGAGCTTCGACCGCTACCGGCGCCGAGCAGAGCAGGAGGCGCAGGCCCGCACTGGTGGCGGAC
CTACCGAGAGTATTTCCGGGGAGAAGACAGATCCCAAAGAGAAGATTGATATTGGGCTGCCTCCACCCAAAGTCTC
CCGGACCCAACAGCTACTGGAACGGAACAGGCCATCCAGGAGCTTCGGGCCAATGTGGAAGAGGAGCGGGCTGC

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FIGURE 4965B

CCGCCTCCGCACAGTGTCCCGCTGGATGCCGTGCGGGCCGAGTGGGAGAGGACCTGTGGCCCCCTACCACAAGCAG
CGTCTGGCTGAGTATTACGGCCTCTACCGAGACCTGTTCCACGGTGCCACCTTTGTGCCCCGAGTCCCCCTGCAC
GTGGCCTACGCTGTGGGTGAGGATGACCTGATGCCTGTGTACTGTGGCAATGAGGTGACTCCAACCGAGGCTGCC
CAAGCGCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTGGACGTTGCTACTCACTAGCTTGGATGGGCAC
CTGCTGGAGCCAGATGCTGAGTACCTCCACTGGCTGCTAACCAACATCCCGGGTAACCGGGTGGCTGAAGGACAG
GTGACGTGTCCCTACCTCCCCCCTTCCCTGCCCCGAGGCTCCGGCATCCACCGTCTTGCCCTCCTGCTCTTCAAG
CAGGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCTCACCTGCTATCAGCTGGCCCAGCGGACCTTCCGC
ACTTTTGATTCTACAAGAAACACCAAGAAACCATGACTCCAGCCGGCTTGTCTTCTTCCAGTGCCGCTGGGAT
GACTCCGTCACCTACATCTTCCACCAGCTTCTGGACATGCGGGAGCCGGTGTTTGAGTTCGTGCGGCCGC

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FIGURE 4966

MAPKTKKGCKVTLPEKPVKLSHTRD TTGVSQMFPSSKARTKSLLGDDVFSTMAGLEEADA EVSGISEADPQALL
QAMKDLDGMDADILGLKKSNSAPSKKAAKDPGKGELPNHPKPAGGAIP TKKSLPSPSSSGHQNR RFSS E D L E D P L
RGLLSYDEGGITKQPPVTQSKTASDKSPSTVRDQGPSIPLTPGDTPIRKKEELLFDDGDDIMATLGF GDSPKAEK
RQIGDQEGPRPARSTLDELLGRGMATKLLARP GTGEHREFKLDKKYQRPQDSEDMWGEDDFTFGAYQPTVVSSEG
RQSRQSVSRFFADSGADPKGEPGSKQSPPMASPIQPRKGGADWLGLKDEDLDLFPASPTREAHRESSVPVTPS
VPPPASQHSTPAGLPPSRAKPPT EGAGSPAKASQASKLRASKEEKEDWLSHALSRKKSQGLAREQHAGTSEGLHL
AGTAGHPFSGSQPLTSTQGLEHAAAGGSSGTTARERPCVRPGVSGSPVTQNHAASALPTGSPKRGTAPGDL SATE
PATCFPSTQKPT EPSVPVQPLLPESLARSLLPSTEYQKQLLAAQVQLQCSPAELQAELLHSQARLAELEAQVRGS
GAVGAGGRVATGGDTESGWKLPQEGGRAVGTGQRGVQPPPLPGCWPS CCLPGAEAGARTGPA

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FIGURE 4967

CCCGAGCATCCCGCGCCGACGGGGCTGTGCCGGAGCAGCTGTGCAGAGCTGCAGGCGCGCGTCA**ATG**GCTGCTTTG
AGACAGCCCCAGGTTCGCGGAGCTGCTGGCCGAGGCCCGCGAGCCTTCCGGGAGGAGTTCCGGGGCCGAGCCCGAG
CTGGCCGTGTTCAGCGCCGGGCCGCGTCAACCTCATCGGGGAACACACGGACTACAACCAGGGCCTGGTGCTGCCT
ATGGCTCTGGAGCTCATGACGGTGCTGGTGGGCAGCCCCCGCAAGGATGGGCTGGTGTCTCTCCTCACCACCTCT
GAGGGTGCCGATGAGCCCCAGCGGCTGCAGTTTCCACTGCCCACAGCCCAGCGCTCGCTGGAGCCTGGGACTCCT
CGGTGGGCCAACTATGTCAAGGGAGTGATTCACTACTACCCAGCTGCCCCCTCCTGGCTTCAGTGCAGTGGTG
GTCAGCTCAGTGCCCCCTGGGGGGTGGCCTGTCCAGCTCAGCATCCTTGGAAGTGGCCACGTACACCTTCCTCCAG
CAGCTCTGTCCAGACTCGGGCACAATAGCTGCCCCGCGCCAGGTGTGTCAGCAGGCCGAGCACAGCTTCGCAGGG
ATGCCCTGTGGCATCATGGACCAGTTCATCTCACTTATGGGACAGAAAGGCCACGCGCTGCTCATTGACTGCAGG
TCCTTGGAGACCAGCCTGGTGCCACTCTCGGACCCCAAGCTGGCCGTGCTCATCACCAACTCTAATGTCCGCCAC
TCCCTGGCCTCCAGCGAGTACCCTGTGCGGCGGCGCCAATGTGAAGAAGTGGCCCGGGCGCTGGGCAAGGAAAGC
CTCCGGGAGGTACAACCTGGAAGAGCTAGAGGCTGCCAGGGACCTGGTGAGCAAAGAGGGCTTCCGGCGGGCCCCG
CACGTGGTGGGGGAGATTTCGGCGCACGGCCCAGGCAGCGGCCGCCCTGAGACGTGGCGACTACAGAGCCTTTGGC
CGCCTCATGGTGGAGAGCCACCGCTCACTCAGAGACGACTATGAGGTGAGCTGCCCAGAGCTGGACCAGCTGGTG
GAGGCTGCGCTTGCTGTGCCTGGGGTTTATGGCAGCCGCATGACGGGCGGTGGCTTCGGTGGCTGCACGGTGACA
CTGCTGGAGGCCTCCGCTGCTCCCCACGCCATGCGGCACATCCAGGAGCACTACGGCGGGACTGCCACCTTCTAC
CTCTCTCAAGCAGCCGATGGAGCCAAGGTGCTGTGCTTGT**TGA**AGGCACCCCCAGGACAGCACACGGTGAGGGTGCG
GGGCCTGCAGGCCAGTCCCACGGCTCTGTGCCCAGTGCCATCTTCCATATCCGGGTGCTCAATAAACTTGTGCCT
CCAATGTGGTA

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FIGURE 4968

MAALRQPQVAELLAEARRAFREFGAEP ELAVSAPGRVNLIGEHTDYNQGLVLPMALEIMTVLVGSPRKDGLVSL
LTTSEGADEPQRLQFPLPTAQRSLEPGTPRWANYVKGVIQYYPAAPLPGFSAVVVSSVPLGGGLSSSASLEVATY
TFLQQLCPDSTIAARAQVCQQAHSFAGMPCGIMDQFISLMGQKGHALLIDCRSLETSLVPLSDPKLAVLITNS
NVRHSLASSEYPVRRRQCEEVARALGKESLREVQLEEELEAARDLVSKEGFRRARHVVG EIRRTAQAAAALRRGDY
RAFGRLMVESHRSLRDDYEVSCPELDQLVEAALAVPGVYGSRMTGGGFGGCTVILLEASAAPHAMRHIQEHYGGT
ATFYLSQAADGAKVLCL

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FIGURE 4969

GGTCGTTTCGTTGGGCGGTGCTGGTTTTTCGCTCGTCGACTGCGGGCTCTTCCTCGGGCAGCGGAAGCGGCGCGGGCG
GTCGGAGAAGTGGCCTAAAACTTCGGCGTTGGGTGAAAGAAAATGGCCCGAACCAAGCAGACTGCTCGTAAGTCC
ACCGGTGGGAAAGCCCCCGCAAACAGCTGGCCACGAAAGCCGCCAGGAAAAGCGCTCCCTCTACCGGCGGGGTG
AAGAAGCCTCATCGCTACAGGCCCCGGGACCGTGGCGCTTCGAGAGATTTCGTCGTTATCAGAAGTCGACCGAGCTG
CTCATCCGGAAGCTGCCCTTCCAGAGGTTGGTGAGGGAGATCGCGCAGGATTTCAAACCGACCTGAGGTTTCAG
AGCGCAGCCATCGGTGCGCTGCAGGAGGCTAGCGAAGCGTACCTGGTGGGTCTGTTCGAAGATACCAACCTGTGT
GCCATCCACGCTAAGAGAGTCACCATCATGCCCAAAGACATCCAGTTGGCTCGCCGGATACGGGGAGAGAGAGCT
TAAGTGAAGGCAGTTTTTATGGCGTTTTGTAGTAAATTCTGTAAAATACTTTGGTTTAATTTGTGACTTTTTTTG
TAAGAAATTGTTTATAATATGTTGCATTTGTACTTAAGTCATTCCATCTTTCACTCAGGATGAATGCGAAAAGTG
ACTGTTACAGACCTCAGTGATGTGAGCACTGTTGCTCAGGAGTGACAAGTTGCTAATATGCAGAAGGGATGGGT
GATACTTCTTGCTTCTCATGATGCATGTTTCTGTATGTTAATGACTTGTTGGGTAGCTATTAAGGTACTAGAGTT
GATAAATGTGTACAGGGTCCTTTTGCAATAAAACTGGTTATGACTTGATCCAAGTGTTTAACAATTGGGGCTGTT
AAGTCTGACCATACATCACTGTGATAGAATGTGGGCTTTTTCAAGGGTGAAGATACAAGTCTTAACCACAGTGTA
ACTTACAGTTTCCTTTAAAAAAGTAAACCTGGCAGCTATAGAATACACTATGTGCATTTATAATAGCT
ATTTTATATATTGTAGTATCAACATTTTTTAAATTAAATGTTTTACATTCAAGTGGTGGGGAGTCTTGTCATTA
AGGTGTGTGTAATTTAGAGTCCAGTTGGTTTTCTTCTGACTGCACCTGTTCTCATAGTAGTAAAATGCTATGCGC
ATTTATACCTTGCATAAGTCCTCATTCTACCACATGTTAACCTCTAGCTGATAATGCAAACACTAACTGGGGGA
TTTTATTTATAAGGGCTCTAGAAAAACGAGTTATTCACACCAGCATCATCTTAACCTAACATTCTGAAGTGTGTA
GTGCAGCTTTTCATTGTGTTGTGTGGTTGGTCTCATAACTAGGTTGAGTTTTTCTCCTCTGCTGAGGAAACAGTA
CCGAAGTTCCTTTTCTTGTTGGCATTGTATTATAAAACTTGGTGTGGGGGAGGAGCACAAAACCTCCAGCCCACT
GAACCTCTGCCAATTAAGATGGTGTGGGTTAGGTTACATCTGGTTACTGTCTGGGAAAATCATTTTTATAGAG
ATGGCCTTCCAAGTGGTTTTTAAATTTACTGAAGTTTTTAGGTCAATTATGTATGTTGACTAAATTTACAAATAA
ACTTGTATTATCC

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FIGURE 4970

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREI
AQDFKTDLRFSAAIGALQEASEAYLVGLFEDTNLCATIAKRVTIMPKDIQLARRIRGERA

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FIGURE 4971A

GAAGAGGCAGGAAGACAAGACC**ATGT**CGAAGGGCCCCGGGCCCCGGCGGCTCCGCAGCTTCCTCGGCGCCCCCGGC
CGCTACCGCTCAGGTGCTGCAGGCACAGCCCCGAGAAACCGCAGCACTACACGTACCTGAAAGAATTCCGCACAGA
GCAGTGCCCACTCTTTGTGCAACACAAATGCACGCAGCATCGGCCCTACACCTGCTTCCACTGGCACTTCGTGAA
CCAGCGGCGCCGCCGGTCCATCCGCCGTGGGACGGCACCTTCAATTACAGCCCTGACGTCTACTGCACCAAGTA
CGACGAGGCTACAGGCCTCTGCCCCGAGGGCGACGAGTGCCCATTCCTGCACAGAACCACAGGGGACACTGAGCG
CAGGTACCACCTTCGTTACTACAAAACCTGGAATCTGCATCCACGAGACAGACTCGAAAGGCAACTGCACCAAAAA
CGGCCTGCACTGCGCTTTTGGCCACGGGCCCCATGACCTCCGCTCCCTGTCTACGACATCAGGGAGCTTCAGGC
CATGGAGGCCTTGCAAGATGGCCAGACCACGGTAGAGGGGAGCATAGAGGGCCAGTCGGCTGGGGCTGCGAGCCA
TGCCATGATAGAAAAGATCCTCAGCGAGGAGCCTCGGTGGCAAGAGACTGCTTATGTGCTGGGGAACATAAAGAC
GGAGCCTTGCAAGAAGCCCCCGGGCTGTGCCGCCAAGGCTATGCCTGTCCCTACTACCACAACAGCAAGGACCG
GCGGCGGAGCCCCCGGAAGCACAAATACAGGTGCTCTCCATGTCCAAACGTCAAGCACGGGGATGAGTGGGGAGA
CCCTGGCAAGTGTGAGAACGGAGACGCCTGCCAGTACTGCCACACCCGCACCGAGCAGCAGTTCCACCCCGAGAT
CTACAAGTCCACCAAGTGCAACGACATGCAGCAGTCGGGCAGCTGTCCCCGAGGACCCTTCTGCGCCTTTGCCCA
CGTAGAACAGCCACCCCTGAGTGACGACCTGCAGCCTTCCTCAGCTGTGTCCAGCCCCACCCAGCCAGGTCTGT
CCTGTACATGCCATCTGCCGCCGAGACTCGGTGCCTGTGAGCCCCCTCAGCCCGCATGCCCTGACCTCAGTGC
CCTCCTCTGTAGAAACAGCAGCCTAGGCAGCCCGTCTAACCTCTGCGGCTCCXCCACCGGGCTCCATCAGGAAGC
CCCCAAACCTGGAGGGCATCGTCTTCCCTGGGGAGTCTGGCCTGGCCCCCTGGCAGCTA**TAAGA**AGGCTCCCGGCT
TCGAGAGGGGAAGACCAGGTGGGAGCCGAGTACCTGAAAAATTTCAAATGCCAGGCCAAATTAAAAACCCCACTCAT
TAGAGCCCAGGAGTCAAGAGCAGCCTCTGCTTACAGCCAAACAGGACATGCTGGGCATCCTCCCCCGAGGCAGCC
CCCTGACCTCAAGCATCTCTTCTAGTATCACCTCCAGCCTGGCAGCTACCCCCCTAGCCAGTGGGCACCAGCA
GCGTCCCCGGCATGAATGCAAACGCTCTGCCCTTCTACCCCCACCAGCGACACGGTAGAGTCAGTCATAGAGTCTG
CTTTGGATGACCTGGACCTGAATGAGTTTGGCGTGGCCGCCCTGGAGAAGACTTTTCGATAACAGCACAGTGCCCC
ACCCAGGAAGCATCACCATCGGCGGCAGCTTGCTGCAGAGCTCTGCACCCGTGAACATCCCCGGCTCCTTGGGCA
GCTCTGCCTCCTTCCACTCAGCATCCCCGTCCCCTCCCGTCAGCCTCTCCTCGCATTTCTGCAGCAGCCCCAGG
GCCACCTGAGTCAGTCGGAAAACACATTTTTGGGAACCTCAGCATCACATGGATCTTTGGGTCTGAACGGGATGA
ACAGCAGCATCTGGGAGCATTTTTGCCTCTGGAAGCTTCTCCCCGGGCACTTCCCCCGCTTTCTATCAGGGCCAG
GGGCTGCCGAGCTGGCCCGACTTCGGCAAGAGCTGGATGAAGCCAACAGCACCATCAAGCAGTGGGAGGAGTCTT
GGAAGCAGGCCAAGCAGGCTTGTGATGCCTGGAAGAAAGAGCGGAGGAGGCTGGTGAGCGGGCCAGTGCGGCGG
GCGCCGAGTGCGAGCTGGCCCGGGAGCAGCGGGATGCACTGCAGGTGCAGGTGAAGAAGCTCCAGGAGGAGCTGG
AGCGGCTACACGCGGGGCTGAGCCCCAGGCCCTGCCCGCCTTCTCCGACCTGGAGGCGCTCTCACTCTCCACCC
TCTACTCCCTCCAGAAACAACTGCGGGGCCACCTGGAACAAGTGGACAAGGCCGTGTTCCACATGCAGTCGGTGA
AATGCCTTAAGTGTGAGAACAGAAGCGGGCAGTGCTGCCGTGCCAACACGCTGCGCTGTGTGAGCTCTGCGCTG
AGGGCAGCGAGTGCCCCATCTGCCAGCCTGGCCGGGGCCACACCCCTCCAGTCGTGACCCTGCAGGCCTGGCCAG
CCTGGCCCAGATCTTCTCACCTAGGACTTTTTAAAGTATATATATATATATGAATATATATATATATGTGTATGT
ATGTATGTATATGTATATGATTATGTATATGTATACATTTCCGTATGTATGTATATGTATACATTTCCGTATGTG
TGCAGGTATGCGTGGTGGTGTGGACAGTGTCTGTGTGTATATCTGTACATAGATATAGACACACACTTTAAAAAGA
CTTACCAAGCACTTTTTAAAGAAGAACTATTTTGCAGTCCTCCCCCTACCCACTCCCTGCCCTTCCCACTGCAG
AGATGACATCCCCCTCTTCTCCCACTGGCCTTTTGGCAGAGAATCTGGTTCTGTCTCTTTTTTAATGTAGGAACATA
ACTATTTTTAACTTCTTCTGGGGCCTGAGCAGGGAAGGGTGGGACTGGAAGGCACTAAGGGGAAGGGAGAAGCC
CTCAGGGCAGGCCCTGCTCCCCCTACCTCCTTGCCAGGGCAAGGGTGGAGTGTGGAAGACGTGGGTCCCCCAGAG
CAGGCCTGGCCCCCAGCTXGXTGAGGGCCTCAGGGAGGCCCGAGGGGGAGTGCTGGGGGTCTCAGCTGGCTTAGC
TCCTAAGTTTACCAAAATGTTAATTTAGTCTTGGGGAGAACAGCAAGGGCTGGAGGCCAGTGCTGCAGGGCCAGCC
CCACTCCTGACACCTGGGGCCTTGAAGCTCCTTGAGGGGCAAGGCCCAGGAGTTCAGCCCTCAGGTTCTGAGG
GTCCACCCCTCAGTCCTTCCCCCGCGCCCTCCCCGGACTCCCCACAAGAGCCTCCCTGGCCCCAGGGCCGCT
ACCAGGCTGGTACTCATTTCTATGACCACCGCCCCCAACCAGCTGCCCCCAGCTCTCCCTGCCCCCTCCCCCTCTCT
GGCAGCTAGCAGGGCAATTGGCGGGGAGGAGTGGGACTGAGGACTGAGGACCAAGGGGGCCAGGCCCTGCCCT
CCTACCCGGAGGGGCTCCGTTTGCATTCCTTGGTGTCTCTGTAGTGCAGCTGGTGTCCCGCCCTGTTCTGGGCGG
ACGCCTGTGTGCGTGTGTGTGTGCCTGTCCAGTGTATATTGTGTCTTAGCTTCCATTTAAAAATTGTTCTGTAC

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FIGURE 4971B

AGAGAGAGATGCAGCAGGGGCGGGAGGGCAGAGTGGGCGGAGGGGAGCAGCCGCACCCCCAGCACCGGGTGTCTG
CGGTAGGAACAAGAGGGCTGAGAGGGTCTGGTCCTGGCCCAGGCTCCCCCTTGGGCTCAGCACGAAAGGGCTTTC
AATGAATTAAGTGAAAACTTTTTCCTTTTTTACAAAAATGCAAAAATCAACAAAGCTCCAAACCTATTGGAAATA
AAATATGAACTTGC

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FIGURE 4972

MSKGPGPGGSAASSAPPAATAQVLQAQPEKPQHYTYLKEFRTEQCPLFVQHKCTQHRPYTCFHWHFVNQRRRRSI
RRRDGTFNYS PDVYCTKYDEATGLCPEGDECPFLHRTTGD TERRYHLRY YKTGICIHETDSKGNCTKNGLHCAFA
HGPHDLRSPVYDIRELQAMEALQNGQTTVEGSIEGQSAGAASHAMIEKILSEEPRWQETAYVLGNYKTEPCKKPP
RLCRQGYACPY YHNSKDRRRSPRKHKYRSSPCPNVKHGDEWGDPGKCENG DACQYCHTRTEQQFHPEIYKSTKCN
DMQQSGSCPRGPFCAFAHVEQPPLSDDLQPS SAVSSPTQPGPVL YMP SAAGDSVPVSPSSPHAPDLSALLCRNSS
LGSPSNLCGSXTGLHQEAPKPGGHRLPWGVWPGPWQL

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FIGURE 4973

TGCGTTTTGAGTCTCGGGACCCCTGTTGGAGAGACTATGGCCTCAACAAGAATCACTCGGAGGGCGGCGGAGTG
ATCGTCAATAACACCGAGAGCATCCTAATGTCCTATGATCACGTGGAATCACATTCAATGACATGAAGAACGTG
CCAGAAGCCTTCAAAGGGACCAAGAAAGGCACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGC
AAGGATGCCATGCAGTCCTTCATGATGCCATTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCCGTATTTGGT
GCAAACCTACATCAAGGGAACAGTGAAGGCGGAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCCTACAAGTTGACT
TTCACGGCAGGGGGCGCCATTGAGTTCGGACAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTC
CCCAGTGGAGCCTATGGCTACTCTTACATGCCCAGCGGGGCTATGTCTATCCCCCGCCAGTCGCCAATGGAATG
TACCCCTGCCCTCCTGGCTACCCCTATCCACCGCCCCCACCTGAGTTCTATCCAGGACCCCCCATGATGGACGGG
GCCATGGGATACGTGCAGCCCCCACCACCGCCCTACCCTGGGCCCATGGAACCTCCGGTCAGCGGCCCCGATGTC
CCCTCCACTCCTGCAGCCGAAGCCAAGGCCGCAGAAGCAGCCGCCAGCGCCTATTACAACCCAGGCAATCCTCAC
AACGTCTACATGCCCACGAGCCAGCCGCCGCCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAGTAGGCC
CTCCTGCCTCCCTGCCTCCCACCCTCATCTCTCTACCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAG
GGGAGGGGGCGCCTTGTTCTCCCTCCAGGTCTGATCATAAACAATTACCAGGAAGTAGCATTGTGGGACATTAGG
GCCCCCGGCCTCGGGAGAGGTGCCGCCAGCTTCCCATGCCAGCCCGGAGCCACAGTGCTGCCAGCGTACCTC
CCTCACCGTCTGGGGCTCTTCTGGGAGCACGGAGCATCCCCTGTTCTGTTTCACTCTCAGCTTCTCCCCTCGAA
GGGACTCTCTGGCCACCTCCTCCACCGCAGTCCAGCTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATG
AGCCACTTCAGACCAGCCAGAAGGAGCTTCTGACTGGAACCAGAGAATGCATGTCTGTCCACTTGGTGGCTGCT
GGGTGGGGCCGGAACAAGGGCCCTGACCCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCAGCCTGCTTCT
TCCCCTTAAGCTTTGTGCCCTGGATGCGCTAACATTCACTCTTGTTTGTCCCTGGACTGGCCATGAAGTGAGGA
GATGGTTATTTAAAGAGAATTCCCTATTTATTTGACAAAAAATCCAGTTAATATATTAATGTGAAATAAACCTG
TTTGCACCTCG

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FIGURE 4974

MALNKNHSEGGGVIVNNTESILMSYDHVELTFNDMKNVPEAFKGTKKGTVYLTPYRVIFLSKGKDAMQSFMMPFY
LMKDCEIKQPVFGANYIKGTVKAEAGGGWEGSASYKLTFITAGGAIEFGQRMLQVASQASRGEVPSGAYGYSYMP
GAYVYPPPVANGMYPCPPGYPPPPPEFYPGPPMMDGAMGYVQPPPPYPGPMEPPVSGPDVPSTPAEAKAAE
AAASAYYNPGNPHNVYMPTSQPPPPPYPPEDKKTQ

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FIGURE 4975

GGTGGCGCAAGGGCACGGACCTCGGAGCTCTCCCCGTTCCCCCGCCGGCCATGAACGCCGCTCGCACCGGCTACCG
AGTCTTCCCTCGCCAACCTCCACGGCCGCCTGCACGGAGCTGGCCAAGCGCATCACAGAGCGCCTTGGTGCTGAATT
GGGGAAGTCTGTTGTATATCAAGAGACCAATGGAGAAACAAGAGTTGAAATAAAAGAATTTGTTTCGTGGCCAAGA
TATTTTCATTATACAGACAATACCCAGAGATGTGAATACAGCTGTGATGGAGTTGCTCATCATGGCTTACGCACT
GAAGACTGCCTGTGCCAGGAACATTATTGGGGTCATCCCCCTACTTCCCCTACAGCAAGCAGAGCAAGATGAGGAA
GAGGGGTTCCATTGTGTGCAAGCTGCTAGCATCCATGCTGGCGAAAGCAGGTTTAACTCACATTATCACTATGGA
TCTTCATCAAAAGGAAATACAAGGCTTTTTTCAGCTTTTCTGTGGACAACCTTAGAGCCTCACCTTTCTGCTTCA
GTATATCCAGGAAGAAATTCCAAATTACAGAAATGCAGTCATTGTAGCTAAGTCTCCTGATGCTGCAAAGAGGGC
CCAGTCCTATGCGGAGAGACTGCGTCTGGGTTTGGCCGTCATTACGGGGAAGCTCAGTGCACGGAACCTGGACAT
GGACGATGGTCGTCACCTCCCCGCCTATGGTCAAAAATGCTACTGTGCACCCAGGCCTGGAGTTGCCATTGATGAT
GGCCAAAGAGAAAGCCACCGATAACTGTAGTTGGAGATGTTGGAGGGCCGCATCGCAATCATCGTGGATGACATTAT
TGACGATGTGGAGAGTTTTGTGCTGCCGCGGAGATCCTGAAAGAGAGAGGCGCCTATAAGATCTATGTTATGGC
CACCCACGGCATCCTGTCTGCAGAGGCCCCCTCGCCTGATTGAGGAGTCCTCCGTAGACGAGGTGGTGGTGACGAA
TACTGTCCCTCATGAGGTTTCAAGCTGCAATGTCCCAAGATAAAGACTGTGGATATCAGTTTGATTCTTTCTGA
AGCCATTTCGGAGAATCCACAATGGAGAGTCCATGGCCTACCTTTTCCGAAACATCACTGTGGATGACTAGCTTTT
ACGAGGGTCTCGACCCTGGACCTCCTGAGGGAAACATGGAAAAAGCAGTGCCATGAGTGATACAGTGTTCCTTG
CAAGGGAGGACTCGAAACAGCCTGGAGTTAGATATCTTCTTTTGGCCGATTGATGGGGAGGAGGGATTAAAAGA
GTCAGGAAGAAGACAGAGCTAATGGATAAATATCATAACATGGCCTTACATGTCTGCTGTCATCAGCCCTGTTCC
TTAAAAGTTCTAGCTGCTTTCTTAAAAATAATCTGAAAATCTTATTGATACTAAAGAGGAGTTAAAGGCACATAA
AGTCTTAACTCTATAATGTTTCAATTTAGTTGTTTCAGCTCCAGGGAAATGGAGGTATTGATGTTGAACCTGGTTAG
GGAAGCTGAGCGCCTGTGGCCCTATTACTATCCAGTTGGCCTCTCCCAAATCAACTTCAAGTCTTTTATAGAGAA
TCGTATTTTCTTTTCAAGAAATGCTATGCCTACAGCCATTGAAAAATGAAGCATTGATGTTGTTACATCTTCCAA
GGATGTCAGATTAGAAAATAGCATCCACCTCTGGGTATCTGAGTGGCTCTGAAGTTGCAAATAAAATAATTTGT
TGT

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FIGURE 4976

MNAARTGYRVFLANSTAACTELAKRITERLGAE LGKSVVYQETNGETRVEIKEFVVRGQDIFI IQTIPRDVNTAVM
ELLIMAYALKTACARNIIGVIPYFPY SKQSKMRKRGSI VCKLLASMLAKAGLTHIITMDLHQKEIQGFFSFPVDN
LRASPFLLQYIQEEIPNYRNAVIVAKSPDAAKRAQSYAERLRLGLAVIHGEAQCTELDMDDGRHSPPMVKNATVH
PGLLEPLMMAKEKPPITVVG DVGGRIAIIVDDIIDDVESFVAAAEILKERGAYKIYVMATHGILSAEAPRLIEES
SVDEVVVTNTVPHEVQKLQCPKIKTVDISLILSEAIRRIHNGESMAYLFRNITVDD

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FIGURE 4977A

CGCCTCCCCGCGCCTCGTTGCGCCGCCGCTGTGCGCCGCCGCCGCCGAGACTCGCGCAGAGCAGTTATGGCGGATC
CCGCAGCCCCCAGCCCCGCAGCTCCCGCTCCAGCCCAGGCCCCGGCTCCAGCCCCGGAGGCAGTCCCGGCCCCAG
CCGCAGCCCCCGTCCCGGCGCCGGCGCCCCGCCCTCGGACTCGGCCTCCGGGCCGTCTCTCGGACTCCGGCCCCAGAAG
CCGGCTCGCAGCGCCTGCTGTTTTCTCACGACCTGGTGTGCGGGCCGTTACCGTGGCTCCGTGCACTTCGGGCTGG
TGCGCCTCATCCACGGCGAGGACTCGGACTCGGAGGGCGAGGAGGAGGGCCGCGGGAGCTCGGGGTGCTCCGAGG
CCGGGGGCGCGGGCCACGAGGAGGGCCGGGCCAGCCCCCTGCGCCGCGGCTACGTGCGCGTCCAGTGGTACCCGG
AGGGCGTCAAGCAGCATGTGAAGGAGACCAAGCTGAACTAGAGGACC GTTCTGTGGTGCCCCGAGATGTGGTCC
GGCACATGCGATCCACCGACAGTCAGTGTGGCACGGTGATCGACGTCAACATCGACTGTGCCGTCAAGCTCATCG
GCACCAACTGCATCATCTATCCCGTCAACAGCAAGGACCTGCAGCACATCTGGCCCTTCATGTATGGGGACTACA
TTGCCTATGACTGCTGGCTGGGGAAGGTCTACGACTTGAAGAACCAGATCATCTGAAGCTATCCAACGGCGCCA
GGTGCTCCATGAACACGGAAGATGGCGCCAAGCTCTACGACGTCTGCCCGCACGTGAGCGACTCGGGTCTCTTCT
TCGATGATTCCATGAGCTTCTACCCAGGCCAGGTGCTCATTGGCCCTGCCAAGATCTTCTCCAGCGTCCAGTGGC
TGTCAGGTGTCAAGCCCGTGTCTCAGCACCAAGAGCAAGTTCGAGTGGTGGTGAAGAGGTGCAGGTTGTAGAGT
TGAAAGTTACATGGATTACCAAGAGTTTCTGTCCAGGGGGCACGGACAGCGTCAGCCCCCACCCTCTGTATCA
CCCAGGAAAACCTAGGCAGGGTGAAGCGTCTCGGATGCTTTGACCATGCTCAGCGGCAGCTTGGGGAGCGCTGTC
TGTATGTCTTCCCAGCCAAGGTAGAGCCAGCCAAGATTGCCTGGGAATGTCCAGAAAAAACTGCGCCCAGGGGG
AGGGCTCTATGGCCAAGAAGGTGAAGCGCCTGTTGAAGAAGCAGGTTGTGCGGATCATGTATGCTCCCCAGACA
CCCAGTGTTCCCGGGACCATTCCATGGAAGACCCAGACAAGAAGGGGAATCCAAAACCAAGAGCGAAGCGGAGT
CTGCCAGCCCTGAGGAGACGCCCCGATGCTCTGCCAGTCCAGTGGAGATGCAGGACGAGGGTGCAGAGGAGCCCCA
CGAGGCAGGAGAGCAGCTGCCCCCATTCTGCTAAAAGAAGGCAGAGATGACAGGCTGCACTCGGCAGAGCAGGA
CGCAGATGATGAGGCTGCTGATGACACGGACGACACCAGTTCGGTGACCTCCTCTGCCAGCTCCACCCTTCTCTC
CCAGAGCGGCAGCGGCACGAGTCGCAAAAAGAGCATCCCTTGTCCATCAAGAACTTAAAGCGCAAACACAAGAG
GAAGAAGAATAAAATCACTCGAGACTTCAAGCCAGGGGACAGGGTGGCAGTGGAGGTGGTGACCACGATGACCTC
AGCCGACGTGATGTGGCAGGATGGCTCCGTGGAATGCAACATCCGCTCCAACGACCTCTTCCCTGGCACCACCTG
ACAACAACGAGTTCTGCCCTGGAGACTTCGTGGTAGATAAGCGAGTCCAGAGCTGTCCAGACCCTGCTGTCTACG
GTGTGGTACAGTCTGGGGACCACATCGGCCGTACCTGCATGGTGAAGTGGTTCAAGCTGAGGCCGAGTGGGGACG
ACGTGGAGCTGATTGGAGAAGAGGAAGATGTGAGTGTTTACGACATTGCTGACCACCCTGACTTTAGGTTCCGTA
CAACTGACATCGTCATCCGCATCGGCAATACTGAGGATGGGGCTCCTCACAAGGAGGATGAGCAGCCATCGGTGG
GCCAGGTGGCCCGTGTGGACGTGAGCAGCAAGGTGGAGGTGGTGTGGGCTGACAACTCAAAGACCATCATCCTGC
CCCAGCACTTGTACAACATAGAGTCTGAGATTGAGGAGTCAGACTACGATTCCGTTAGAAGGCAGCACCAGCGGGC
ATCTCTGGATGAATGGGAAGATGATAGTGACAGCTGGGAGACGGACAATGGGCTGGTGGAGGACGAGCACCCTCAA
GATAGAGGAGCCCCCATCCCACCCCTGGAGCAGCCGGTGGCCCTGAGGACAAGGGAGTGGTGATCAGTGAAGAG
GCAGCCACAGCCGTAXCXCTAGGGGGCTGTGGCCATGGCTGCCCCCATGGCCGGGCTGATGGAGAAGGCTGGCAA
GGACGGGCCACCCAAGAGCTTCCGGGAGTTGAAAGAGGCCATCAAGATCCTGGAGAGCCTCAAGAACATGACTGT
GGAGCAGCTGCTGACGGGCTCGCCCACCTCTCCGACTGTGGAGCCTGAGAAGCCAACCTCGGGAGAAGAAGTTTCT
GGATGACATCAAGAAGCTACAGGAAAACCTCAAGAAGACCTGGACAATGTGGCCATTGTAGAGGAGGAGAAGAT
GGAAGCAGTGCCCGACGTAGAGCGCAAGGAGGACAAGCCCCGAGGGCGAGTCACCTGTGAAGGCTGAGTGGCCAG
CGAAAACCCCGGTGCTGTGCCAGCAGTGTGGCGGCAAGCTGGCGTCACCTTACCAGCGCCAAGGGCGAGGTCTTC
TCCGTACTGGAGTTTGCACCCTCAAATCATTCTTTTAAAGAAAATTGAGTTCAGCCTCCAGAAGCCAAGAAGTTC
TTCAGCACAGTGCGGAAGGAGATGGCGCTGCTGGCTACCTCACTGCCTGAGGGCATCATGGTCAAGACTTTTGAA
GATAGAATGGACCTCTTCTCAGCTCTCATCAAGGGCCCCACTCGAACCCCTACGAGGATGGCCTCTACTTGTTT
GACATCCAGCTCCCCAACATCTACCCAGCCGTGCCCCCCCCTTCTGTCTACCTCTCCCAATGCAGTGGCCGCTG
AACCCCAACCTGTATGACAATGGGAAGGTGTGTGTGACGCTCCTGGGCACCTGGATTGGAAAGGGGACAGAGAGG
TGGACAAGCAAGTCCAGCCTTCTCCAGGTGCTCATCTCCATCCAAGGTCTGATCCTGGTAAATGAACCATACTAC
AACGAAGCCGGCTTCGACAGTGACCGAGGCCTGCAGGAAGGCTATGAAAACAGTCGCTGTTACAATGAGATGGCG
CTGATCCGCGTGGTGCAGTCCATGACCCAGCTGGTGGCGCGGCCCCCGAGGACTTTGAGCAGGAGATCAGGCAA
CACTTTAGCACTGGTGGCTGGCGGCTGGTGAACCGTATCGAGTCTGGCTGGAAACCCATGCCCTGCTGGAGAAG
GCCCAGGCACTGCCAACGGGGTGCCCAAGGCCAGCAGCTCGCCAGACGCCCCAGCTGTAGCCGAGCTGTCAGAC

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FIGURE 4977B

TCCGGCCAACAAGAACCTGAGGATGGAGGGCCAGCCCCAGGAGAGGCCTCCCAGGGCTCAGACTCAGAGGGCGGT
GCCAGGGCCTGGCCTCAGCTAGCAGGGACCACACAGACCAGACTTCGGAGACCGCACCAGACGCATCGGTGCCAC
CCAGTGTGAAACCAAAGAAGCGGAGAAAGAGCTACCGGAGCTTCTTACCTGAGAAGAGTGGCTACCCTGACATCG
GCTTCCCCCTCTTCCCACTTTCCAAGGGTTTCATCAAGAGCATCCGGGGTGTCTGACGCAGTTCCGGGCTGCCCT
GCTAGAGGCAGGCATGCGGXAGTGCACAGAGGACAAGTAGCTGCCAGGCACAGAGGAAAGAGCATCACCGTGGGA
GAGGCCAGCCGCCGCTGCTCACTCCCCCCCCGGAATCACCCCTCTTCCCATGCCCCCTCTGTCCCCACTGCAAACC
CACTGCCCTCTTCTCCCCAAGGTGAGTTTGATGCTGAAGTGCAAGAAGTGTGTTGAGATGCTGCCGTTTCTATTT
TGAAGCGAGCTTTCAACAGGCGGGTCCCCCTGTGGCAAAGAAAATCGGAACCCTGTTGCCGATTTTCCATTTGTCA
CCCCAGCAGAATGTCCGGCACTTGCTCCCTTGCTGCCCTTCTCAGGTCAGAGGCGGGTGTTCAGGGCCTGCCG
CGGGGCTCTCTGGGCCGGTTCCCTGCAGACCCGCAGACGAGCACATGTGCCTTGATGAAGTGTGGGTTCGCCCA
ACAATTCCCCCTGGTCCCTTTCAACCTGTTTAGTTCAACTCAAGCCTCCCTGTGTCCCAGACCCCTCCTGCTGCCAC
CACCACCCAGGTCTCCTAGTCCCTCCAGCGTCAACACTATCCCTTGGGGAGTTGTAGCTGCTGTCACTGACTCC
CGGCTATACATGGCCTGTGACACAGTTATAGCCCTCAGGCCTGTTGAACTTGCTCTCTAAGAGAGGTTGGGACC
AGGCTAGGTTCCGGGTGACGCCCAGGAGAGGTGGTGGCCTTCACACATGCACATGGAGTTGAGGACCAGGGAGCT
GCAGGGAAAAGCAACAGCTATAGGTGCCTTGCTCTTCTGTGCGAGGCTGCTGGGGGCAAGAGCAGCTGCACAAGGC
CAGGGCAAGTGCTAGGGCCCCCTCCCCATCACATGGTCACTGAGGACAGGCGTGCAGCTCACTGAACTCCAAGC
GAGCCAGCCCTCTCTTGACTAGAAGGCCTACTGTCAGCCCTTCGCTTACAACTGCAGGCTCAATCCGAAGGGG
ACGGCCGGCGGGGGCTCTCCTAGTGCCAGAGACAGGCCCAGAGGTTTACAAGTTTTCTAAGCTTTTGATAATGT
GAAGCTCCAGGCCGAGAGGATGCTGTTGAGCACATTGCAGCTATGTAATTTTTGGTGTATGTATGTAATATTTAA
GGTTGGAAAAAAACTCAAAGCAAAGATATTAACCTCTTATTAGAAAAAAAGACAAAAAAAAGCCAAAGCATGA
TGCCTCTTGTGAGCCTTAAGTGGGCTCCACACCTGTGCTGTGCTGTGACCGCCAGCCAGCAGAGCTGCGGGAGG
ATGGAGCCGGACCACACACCGTGGCATTGGAACCGAGTCGGTATCTTGTTTGAGAAACACCCGGAGTGACTGGT
GGGGCTGTGCTTCCAGTGCAATTGTACATGTGGAGATGTGAATGCCTACTGCTTACGATATCTGTATAAAGTGCT
GTGTGATTAACTTTTTTTTACTTGC

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FIGURE 4978

CAGGACGCACATGCAGAACATCAAGGACATTTGGGTCAGCGTCTCCTTCGTGGTGTACCTTGTGAAGCGCCTCAA
CGAGGGCAGCAGCGCCATGGCCAACGGCATGGAGGAGAAGGAGCCAGAAGCCCCGGAGATGTAGACGCCACCCTG
CCCACCCCCGGGATCCTGCCCCCAAGTCATTTCCGTCCCCCCCCAGGCCCTCCCACCACCCCATTTTATTTTATA
TGATTTTCTCCATTTGTATCGTTCCCCACCCCTTCGACATGCTGCCAGGAAACAAGGGAAGGGGCCTCCCTCCG
AGTGAGTCAGTGATGAGGCCGCGGCTCCCCGAGGTTGTGGGGAGGCTGCACTGGAGCCACAGGCAGGGGTGAGA
GCACCCACTGAATTGACATGACCCTCTGTCCCCAGGCCTGGCTCCCCGAGGGCTCAGAAGAGCAGCTTCGGTGTG
CAGATCATCCGTCTGTGTGGGGTTCTCAGTGCCGAGGCCTTGGGGTGGGGGCCAGGCCTCGCACTTGCAGAGGA
GCCCAGTGGGCTGCACGCTCCCCCTCCATCCCCATCGGCCCTGTCCCCTGGAGTGTGTGAGAGCCCAGGGGAGAAT
GCAGCCCACCAGGAGCACCTGGACCCCCCTGCCCGCCACATGGTGTGGCCATCACTCAGCCCCCTACCCCTGCCCTG
CTCCTAAGGGTAGAAAACCTCCAGGGTCCCCTGCCACCGACTGCCAGCCACTCCAAGCCCCCTGGCAGCTGCCCC
TCCTGGAGCAGAAAGTGCCCTTTATCTCAGCCATCCGCAGACTGCTTGGCCAGATGCGGGGACAGGCTGGAATGAG
GGAGGCGTCTTCATCTCCCTGCCATCCCCCTCTCAGCCACCCCCGCCCCCACCAGGGCTGCAGGTGCTGCTGATG
CGCTGGGATCTGATTGAGGATAAAAAAGGAAGGAGAGATGACCCCTACCCCTCATCCCCCAGTTTTTGAAAAGGTC
TAAGCAAGTGAGTCTGGTGGAGGAGCTGAGGGAGGGAGCCATGGAAGGTGCCAGAAGGAAGGTTGGCGGGGGCAC
GTGTGGGCGCGTGGCTTGGGCTGGTCAGAGTGGCGTGAGCTGCCCGGCGCCTGCCCTGCCCAAGTGACCAGGGAAG
TGTGTGTGTGTCCATGTGTATGCGTGTCCGTCTGTCTGTCTAGTGTCTGGGTTTGGCCCAAGACTGGGCTGTAGT
TACATTAATGCCCAGCCAGCCACCCCTGCCACTCACCTTCCTGGCCCAGGCCTTGCTGACTCTCTGAGCTGGGG
AGGTGGGAGGCCAGGCGAGCCTGACTCTGTTGATCTACCCGTGCCTGGGCCCCCTCCCCCTCAGAGCCCATGGTAAC
GAACCCCTAGAAAGGAGAGAACGGGCGTCAGGGGTGCACAGTCCACAGCTGAAGAGCAAGGTTTCGTGGCAGCAC
GGCCCGGCCCCCTCACCTCTGTCCCCACGAGGGGACCCATGGGGGCTGTCTTTGCAGGGCACAGATGACCAAAGT
CCCTTCCTGCTTCCTGTTACCTGTCTTGCTCCTGGGGAGAAAGAGGGGCCTGATGAGACTCCACTCAGGTGCACA
CATCACCAGGTGCATCTGCAGGCACCGGGCTGGCTGCTTGAGCCAGGAGAAGGTCAGCGAGAAGGAGTGTATGA
GTGTGAGTGTGTGTGCATGGAAGTTGGGGCACTGGGCGTCTGACTCCCTCCCCACCCAAGAGAGGAAGGACCCCT
CACCACCCCCACTGGTGAGACAGTTTACTTTGCCAACTTGCCATGTTTTTGCCAAAACCAAGATTTTGAAGGAAA
TGAGTGGCCAGCGCCAGGGCCCAGGCCATGTGGCTGCCAGCCTCAATGTCACTTGGTGGCGGGGTGGGGTGGG
GGTGGGCAGCAGCATCCCAGCCTTGAGATGCTTCACTTTCCTTCTCTGTAAACCAGACTTTGAAAAATTGTTTCGTT
TCATCAGGCTCTGTTCTCAATGGCCTTTTGCTACGTGCCTCCCGAGAAATTTGTCTTTTTGTATAAATGACAAA
GTGTTGAAAATGTATTTCTGAAATAAATGTTTCAAATGCAGAAACCC

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FIGURE 4979

MGSFRTSSALKRSFEVEEVETPNSTPPRRVQTPLLRATVASSTQKFQDLGVKNSEPSARHVDSLSQRSPKASLRR
VELSGPKAAEPVSRTELSIDISSKQVENAGAIGPSRFGKRAEVLGHKTPEPAPRRTEITIVKPQESAHRMEP
PASKVPEVPTAPATDAAPKRVEIQMPKPAAEAPTAPSPAQTLENSEPAPVSQLQSRLEPKPQPPVAEATPRSQEAT
EAAPSCVGDMA DTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINT
LFKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGV RMKLTVIDTPGFGDHINNENCWQPI MKFINDQYEKYLO
EEVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFMKRLSKVVNI VPVIKADTLTLEERVHFKQRITADLLS
NGIDVYPQKEFDEDEDRLVNEKFREMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTHCEFAYLRDLLIR
THMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEEKEPEAPEM

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FIGURE 4980

CAGATGTAGTTTTTCCGCACGTGCACGCCCTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCATATT
AGGGGCAGCAGTGCCTGCGGCAGCATTGGCCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC
CAGCGGCTTAAGCCATGGCGCTTCCCACGGCATTGAGCAGCAGCATTGCTGTAAACCGACAAAGACACCTTCGAAT
TAAGCACATTACTCGATTCCAGCAAAGCACCGCAACATGACCGAAATGAGCTTCCTGAGCAACGAGGTGTTGGTG
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCATAGGTCTCTTAGATGACTACGTG
GAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAGGCTAAGGCGGGCTCCTCCGAATGGCTGACT
GTGGATGGGTGGTTCAGTCCCTCCAACAACAGCAAGGAGGATGCCTTCTCTGGGACACATTGGATGTTGGAGAAA
ATGGATTTGAAGGAGTTCGACTTTGGTGCCCTGTTGGGTATAGATGACCTGGAAACCATGCCAGATGACCTTTTG
ACCACGTTGGATGACACTTGTAATCTCTTTGCCCCCTAGTCCAGGAGACTAATAAGGTGCCCCCCCAGATGGTG
AACCCAATTGGCCATCTCCAGAAAGTTTAAACAAAACCCGACCAGGTTGCCCCCTTCACCTTCTTGCAACTTCTT
CCCCTTTCCCCAGGGGTCCAGTCTCTCCACTCCAGATCATTCCCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATC
ACTGAAGAAGATAGGAAGCCGGACTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACC
CCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTATCTGGGGTCTCCTCAGCATAGCCCCCTCTACC
AGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCCACCCCAAACCTTACGATCCT
CCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTGGATAAGAAGCTGAAAAAATGGAGCAAAAC
AAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAGGAGGCTCTCACTGGCGAGTGCAAAGAGCTG
GAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCAGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAGATTTGATA
GAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGGTCCCCTAGTTGAGGGTAGGTCAGGAGTGCAACGTGCTTGT
ACATAGAGTGCTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG

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FIGURE 4981

MTEMSFLSNEVLVGDLMSFPDQSGLGAEESIGLLDDYVEVAKHFKPHGFSSDKAKAGSSEWLTVDGLVSPSNNNSK
EDAFSGTHWMLEKMDLKEFDGALLGIDDLETMPDDLTTLD DTCNLFAPLVQETNKVPPQMVNPIGHLPESLTK
PDQVAPFTFLQLLPLSPGVQSSTPDHSFSLELGSEVDITEEDRKPDSTAYVAMIPQCIKEEDTPSDNDSGICMSP
ESYLGSPQHSPSTRGSPNRSPLSPGVLCGSAHPKPYDPPGEKMVAAKVGEKLDKKLKKMEQNKTAATRYRQKKR
AEQEALTGECKELEKKNEALKERADSLAKEIQYLKDLIEEVRKARGKKRVP

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FIGURE 4982

CGCTAGCCTGCGGAGCCCGTCCGTGCTGTTCTGCGGCAAGGCCTTTCCAGTGTCCCCACGCGGAAGGCAACTGC
CTGAGAGGCGCGGCGTTCGCACCGCCAGAGCTGAGGAAGCCGGCGCCAGTTTCGCGGGGCTCCGGGCGCCACTCA
GAGCT**ATG**AGCTACGGCCGCCCCCTCCCGATGTGGAGGGTATGACCTCCCTCAAGGTGGACAACCTGACCTACC
GCACCTCGCCCGACACGCTGAGGCGCGTCTTCGAGAAGTACGGGCGCGTTCGGCGACGTGTACATCCCGCGGGATC
GCTACACCAAGGAGTCCCGCGGCTTCGCCTTCGTTCGCTTTACGACAAGCGCGACGCTGAGGACGCTATGGATG
CCATGGACGGGGCCGTGCTGGACGGCCGCGAGCTGCGGGTGCAAATGGCGCGCTACGGCCGCCCCCGGACTCAC
ACCACAGCCGCCGGGGACCGCCACCCCGCAGGTACGGGGGCGGTGGCTACGGACGCCGGAGCCGCAGCCCTAGGC
GGCGTCGCCGACGCCGATCCCGGAGTCGGAGCCGTTCAGGTCTCGCAGCCGATCTCGCTACAGCCGCTCGAAGT
CTCGGTCCCGCACTCGTTCTCGATCTCGGTGACCTCCAAGTCCAGATCCGCACGAAGGTCCAAGTCCAAGTCCT
CGTCGGTCTCCAGATCTCGTTCGCGGTCCAGGTCCCGGTCTCGGTCCAGGAGTCCTCCCCAGTGTCCAAGAGGG
AATCCAAATCCAGGTGCGGATCGAAGAGTCCCCCAAGTCTCCTGAAGAGGAAGGAGCGGTGTCTCT**TAA**GAAA
ATGATGTATCGGCAAGCAGTGTAACGGAGGACTTGGGGAAAAAGGACCACATAGTCCATCGAAGAAGAGTCCTT
GGAACAAGCAACTGGCTATTGAAAAGGTTATTTTGTAACATTTGTCTAACTTTTTACTTGTTTAAGCTTTGCCTC
AGTTGGCAAACCTTCATTTTTATGTGCCATTTTGTGCTGTTATTCAAATTTCTTGTAATTTAGTGAGGTGAACGAC
TTCAGATTTTCATTATTGGATTTGGATATTTGAGGTAAAAATTCATTTTGTATATAGTGCTGACTTTTTTTGTTT
GAAATTAAACAGATTGGTAACCTAATTTGTGGCCTCCTGACTTTTAAAGGAAAACGTGTGCAGCCATTACACACAG
CCTAAAGCTGTCAAGAGATTGACTCGGCATTGCCTTCATTCCCTTAAAAATTAAAAACCTACAAAAGTTGGTGTA
TTTGTATATGTTATTTACCTTCAGATCTAAATGGTAATCTGAACCCAAATTTGTATAAAGACTTTTCAGGTGAAA
AGACTTGATTTTTTGAAAGGATTGTTTATCAAACACAATTCCTAATCTCTTCTCTTATGTATTTTTGTGCTAGG
CGCAGTTGTGTAGCAGTTGAGTAATGCTGGTTAGCTGTTAAGGTGGCGTGTTCAGTGCAGAGTGCTTGGCTGTT
TCCTGTTTTCTCCCGATTGCTCCTGTGTAAAGATGCCTTGTCTGTCAGAAACAAATGGCTGTCCAGTTTATTAAA
ATGCCTGACAACTGCACTTCCAGTCACCCGGGCCTTGCAATAAAATAACGGAGCATAACAGTGAGCACATCTAGCT
GATGATAAAATACACCTTTTTTTCCCTCTTCCCCCTAAAAATGGTAAATCTGATCATATCTACATGTATGAACTTA
ACATGGAAAATGTTAAGGAAGCAAATGGTTGTAACCTTTGTAAGTACTTATAACATGGTGTATCTTTTTGCTTATG
AATATTCTGTATTATAACCATTGTTTCTGTAGTTTAATTAACATTTTCTTGGTGTAGCTTT

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FIGURE 4983

MSYGRPPPDVEGMTSLKVDNLTYRTSPDTLRRVFEKYGRVGDVYIPRDRYTKESRGFAFVRFHDKRDAEDAMDAM
DGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRRYGGGGYGRRSRSPRRRRRSRSRSRSRSRSRSRSRYRSRSKSR
SRTSRSRSTSKSRSAARRSKSKSSSVSRSRSRSRSRSRSPPPVSKRESKRSRSRSKSPPKSPEEEGAVSS

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FIGURE 4984

CTTGGA CT TGGACCTTCGTGCGGATCTGGACTTGGAGGTGCGACCGAGATCGAGAACGAGTGCGGGACCGAGACTT
CGAGCGGCTGTAGCGAGATCGGCTGCGAGACCTGGAACGGCTCCGACTCCGGGATCGGCTGCGGCGACGCCGCCT
AGGGCTGCGGGCGGGACGAGCAAGCACAGCGGGTTAATTCCAGGCAGCGGGGCCGGCCCCGCCGCGCXCTXC
CCGCCCAGGCCGCCATTATCTCGCCGCCAGACGCCATTTCCCCAGTCGCGAGGCGGGGTCTTCCGCCCCGCGCCG
CCCACACCCCGGCCACTCCCGGGTGCAGACGGCGGAAGCTCGCGGGGTGGCCGGAGGGTTCGCGAGACGCGGCGT
GCACCCCGCCCCXGXTXCCGGGCCCCGACCCACGTGCTTCGCCGCGGACCTTTGTGAGGTCGCCCGGGCCTCCCG
CGCGCCCCGCCCGCCTCCCGCGGTCCCCTCAGCCCCGTTTACCTGCGGCTCCGGCGTCCGTAGCCACCGCCCCC
GTACCTGCGGGGTGGCGGTCCCCGGCGGCTGTGGTGTGAGTCCGGGGGCGGCCGTAGCGCGCCATTTGCACCCG
CAGCTCGCGGCCGTCCAGCACGGCCCCGTCCATGGCATCCATAGCGTCCTCAGCGTCGCGCTTGTCTGAAAGCG
AACGAAGGCGAAGCCGCGGGACTCCTTGGTGTAGCGATCCCGCGGGATGTACACGTGCGCGACGCGCCCGTACTT
CTCGAAGACGCGCCTCAGCGTGTGCGGCGAGGTGCGGTAGGTAGGTGTTGTCCACCTTGAGGGAGGTCATACCCTC
CACATCGGGAGGGGGGCGGCCGTAGCTCATAGCTCTGAGTGGCGGCCCGAGCCCCGGAACCTGGCGCCGGCTTC
CTCAGCTCTGGGCGGTGCGACGCCGCGCCTCTCAGGCAGTTGCCTTCCGCGTGGGGACACTGGGAAAGGCCTTGC
CGCAGAACAGCACGGACGGGCTCCGCAGGCTAGCGCACCTGAGTAACAACCTGGGCGGGCAGCCGGCCTCTGCGCC
CGTTTATATCGTCTCTCACAAAATGGCGCCCCGCGCCACCCGGAATGAAACCTTCTGATTGGCCCCACCGCGCCCC
GCTTCGTAACGACCTTGCCGCGCGCCCCGCCCTACCCGAAGCGCCTGCGCACAGCCCGGCGGGCGGGCCAAAAA
GCGCGGAGTCACGGCTGGAGGGAGGGGGAGCGGAATTAGCGGGCAGTTGGAAAGCCCGCGAAACGCTTTTTCCGC
CTGGGAGGCCGACGATCGCGATTGGGCAGGAGXGXAAGAGGAGGTGCTCCCCATCTGGGCCCCCACCTTTTTTT
CATGCCAATACTCCAAGTTCACGCCCCTTTTTTTGTCTCAGCCGTGAGCCCCGTCTCCGTCTGAAGAGTGCTTCTGC
CCTCATTTGCCTCTCCCTGTGACCCCGGCCCCCTCAGACTCCGCTGCGTCTCTCTCGGCCCCGTCCAGCCGTTT
CTGACTGCTCTTCGCCGGAGTCCGCTTTCCCAACCCCTTTTCGCCAGAGCCGAGAGCTCCGTCGGCTCTGCGTCC
TGGCGGTGGGGACTCCCCGCCGAGCGCTTGCAGCTGCCAGGTACCCGGGACTACGTTTCCCXAXGCGXGXGCC
GAGCGGCCCGCGCCGCGGCTGCGGTGAGGTGACCCGCTCGCTGGCCGAGTGAGTCAGGCTGGGAGGGCGGGG
CGCGCCGGCTGCTGCGGCTGGCATTGGCCCTTTAATCCCTTCGTGGGCCCCCTCAACCTGGAGCGGATAAATTC
TTGGCGCTTCTXCCGGGGGTGTGTCTCTTCCGTACTCGGATCGCTTCTTAGGAGTATCCTAACTGCCGGTGGGGA
GAACTTCGCCCTAAACCTGGGGTTCCGATCCAGGAACCTGGAAGTTGACAGCTTGGCTGCCTGGCTCCTACATCTG
CCTTCTCCACTACCATCTCATTTCTTTCTCCAGGATTGTCAGTGGCTTCGCCCCGAGGAGAGCTGACTGCCCTG
GGCTGCTGCCCTCCGGCAGAGCTGAGCCAAAATGTCCCCGGAATCTAAAAAGCTTTTCAACATCATTATTTAGGA
GTTGCCCTTTATGTTTATGTTTACTGCCTTTCAAACCTTGTGG

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FIGURE 4985

CCGCCAGATTTGAATCGCGGGACCCGTTGGCAGAGGTGGCGGCGGCGGCATGGGTGCCCCGACGTTGCCCCCTGC
CTGGCAGCCCTTTCTCAAGGACCACCGCATCTCTACATTCAAGAACTGGCCCTTCTTGGAGGGCTGCGCCTGCAC
CCCGGAGCGGATGGCCGAGGCTGGCTTCATCCACTGCCCCACTGAGAACGAGCCAGACTTGCCCCAGTGTTCCTT
CTGCTTCAAGGAGCTGGAAGGCTGGGAGCCAGATGACGACCCCATAGAGGAACATAAAAAAGCATTTCGTCCGTTG
CGCTTTCCTTTCTGTCAAGAAGCAGTTTGAAGAATTAACCCTTGGTGAATTTTTGAACTGGACAGAGAAAGAGC
CAAGAACAAAATTGCAAAGGAAACCAACAATAAGAAGAAAGAATTTGAGGAACTGCGAAGAAAGTGCGCCGTGC
CATCGAGCAGCTGGCTGCCATGGATTGAGGCCTCTGGCCGAGCTGCCTGGTCCCAGAGTGGCTGCACCACCTTC
AGGGTTTATTCCCTGGTGCCACCAGCCTTCCTGTGGGCCCTTAGCAATGTCTTAGGAAAGGAGATCAACATTTT
CAAATTAGATGTTTCAACTGTGCTCCTGTTTTGTCTTGAAAGTGGCACCAGAGGTGCTTCTGCCTGTGCAGCGGG
TGCTGCTGGTAACAGTGGCTGCTTCTCTCTCTCTCTCTCTTTTTTGGGGGCTCATTTTTGCTGTTTTGATTCCCG
GGCTTACCAGGTGAGAAGTGAGGGAGGAAGAAGGCAGTGTCCTTTTGCTAGAGCTGACAGCTTTGTTTCGCTGG
GCAGAGCCTTCCACAGTGAATGTGTCTGGACCTCATGTTGTTGAGGCTGTACAGTCTGAGTGTGGACTTGGCA
GGTGCCTGTTGAATCTGAGCTGCAGGTTCCCTATCTGTACACCTGTGCCTCCTCAGAGGACAGTTTTTTTTGTTG
TTGTGTTTTTTTTGTTTTTTTTTTTTTGGTAGATGCATGACTTGTGTGTGATGAGAGAATGGAGACAGAGTCCCTGG
CTCCTCTACTGTTTAACAACATGGCTTTCTTATTTTGTGTTGAATTGTTAATTCACAGAATAGCACAAACTACAAT
TAAAACTAAGCACAAAGCCATTCTAAGTCATTGGGGAAACGGGGTGAACCTCAGGTGGATGAGGAGACAGAATAG
AGTGATAGGAAGCGTCTGGCAGATACTCCTTTTGCCACTGCTGTGTGATTAGACAGGCCCAGTGAGCCGCGGGGC
ACATGCTGGCCGCTCCTCCCTCAGAAAAAGGCAGTGCCCTAAATCCTTTTTAAATGACTTGGCTCGATGCTGTGG
GGGACTGGCTGGGCTGCTGCAGGCCGTGTGTCTGTACGCCAACCTTCACATCTGTACGTTCTCCACACGGGGG
AGAGACGCAGTCCGCCCAGGTCCCCGCTTTCTTTGGAGGCAGCAGCTCCCGCAGGGCTGAAGTCTGGCGTAAGAT
GATGGATTTGATTGCCCCCTCCTCCTGTGCATAGAGCTGCAGGGTGGATTGTTACAGCTTCGCTGAAACCTCTGG
AGGTCATCTCGCTGTTCTGAGAAATAAAAAAGCCTGTCATTTT

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FIGURE 4986

MGAPTLPPAWQPFLKDHRI STFKNWPFLEGCACTPERMAEAGFIHCPTENEPDLAQCFFCFKELEGWEPDDDPIE
EHKKHSSGCAFLSVKKQFEELTLGEFLKLDREERAKNKIAKETNNKKKEFEETAKKVRRAIEQLAAMD

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FIGURE 4987

GCGGCGGCGGCAGCGGCGGCGACGGCGACATGGAGAGCGGGGCCCTACGGCGCGGCCAAGGCGGGCGGCTCCTTCG
ACCTGCGGCGCTTCCTGACGCAGCCGCAGGTGGTGGCGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTTCCT
CCTGCATCTATGGTGAGGGCTACAGCAATGCCCACGAGTCTAAGCAGATGTACTGCGTGTTCAACCGCAACGAGG
ATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCCTGGCCTCGGCCTTCTTCTTGGTGGTCGACGCGT
ATTTCCCCCAGATCAGCAACGCCACTGACCGCAAGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGA
CCTTCCTGTGXTGGTTTGTGGTTTCTGCTTCCTCACCAACCAGTGGGCAGTCACCAACCCGAAGGACGTGCTGGTG
GGGGCCGACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTTCCATCTTCTCCTGGGTAGGATGGCCAGGGGCC
GGTTCTTGGGTCAAGGXGTGTGGAAGGGGGGGXAXCCCCCAXCCCACCTGTACCCTGCTGTGCTCCCCCTGCAGG
GTGTGCTGGCCTCCCTGGCCTACCAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACGTTGACCCCA
CTCCGGACCCCAXACACTGCCTACGCCTCCTACCCAGGTGCATCTGTGGACAACTACCAACAGCCACCCTTCACC
CAGAACGCGGAGACCACCGAGGGCTACCAGCCGCCCCCTGTGTACTGAGCGGCGGTTAGCGTGGAAGGGGGACA
GAGAGGGCCCTCCXCTCTGCCCTGGACTTTCCCATGAGCCTCCTGGAAGTACC

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FIGURE 4988

CTTACTGCGGGACGGCCTTGAGAGTACTCGGGTTCGTGAACTTCCCGGAGGCGCAATGAGCTGCATTAACTGC
CCACTGTGCTGCCTGGCTCCCCAGCAAGACCCGGGGGCAGATCCAGGTGATTCTCGGGCCGATGTTCTCAGGAA
AAAGCACAGAGTTGATGAGACGCGTCCGTCGCTTCCAGATTXGCTCAGTACAAGTGCCTGGTGATCAAGTATGCC
AAAGACACTCGCTACAGCAGCAGXCTTCTGCACACATGACCGGAACACCATGGAGGCACTGCCCCGCTGCCTGCT
CCGAGACGTGGCCCAGGAGGCCCTGGGCGTGGCTGTTCATAGGCATCGACGAGGGGCAGTTTTTCCCTGACATCGT
GGAGTTCTGCGAGGCCATGGCCAACGCCGGGAAGACCGTAATTGTGGCTGCACTGGATGGGACCTTCCAGAGGAA
GCCATTTGGGGCCATCCTGAACCTGGTGCCGCTGGCCGAGAGCGTGGTGAAGCTGACGGCGGTGTGCATGGAGTG
CTTCCGGGAAGCCGCCTATACCAAGAGGCTCGGCACAGAGAAGGAGGTCGAGGTGATTGGGGGAGCAGACAAGTA
CCACTCCGTGTGTCGGCTCTGCTACTTCAAGAAGGCCTCAGGCCAGCCTGCCGGGCCGGACAACAAAGAGAACTG
CCCAGTGCCAGGXAAAGCCAGGGGAAGCCGTGGCTGCCAGGAAGCTCTTTGCCCCACAGCAGATTCTGCAATGCA
GCCCTGCCAACTGAGGGACCTGCGAGGGCCGCCCGCTCCCTTCCTGCCACTGCCGCCTACTGGACGCTGCCCTGC
ATGCTGCCCAGCCACTCCAGGAGGAAGTCGGGAGGCGTXGGAGGGTGACCACACCTTGGCCTTXCTGGGAACTCT
CCTTTGTGTGGCTGCCCCACCTGCCGCATGCTCCCTCCTCTCCTACCCACTGGTCTGCTTAAAGCTTCCCTCTCA
GCTGCTGGGACGATCGCCCAGGCTGGAGCTGGCCCCGCTTGGTGGCCTGGGATCTGGCACACTCCCTCTCCTTGG
GGTGAGGGACAGAGCCCCACGCTGTTGACATCAGCCTGCTTCTTCCCCCTCTGCGGCTTTCACTGCTGAGTTTCTG
TTCTCCCTGGGAAGCCTGTGCCAGCACCTTTGAGCCTTGGCCCACACTGAGGCTTAGGCCTCTCTGCCTGGGATG
GGCTCCCACCTCCCTGAGGATGGCCTGGATTACGCCCTCTTGTTCCTTTTGGGCTCAAAGCCCTTCCTACC
TCTGGTGATGGTTTCCACAGGXAAACAGCATCTTTCACCAAGATGGGTGGCACCAACCTTGCTGGGACTTGGA
TCCCAGGGGCTTATCTCTTCAAGTGTGGAGAGGGCAGGGTCCACGCCTCTGCTGTAGCTTATGAAATTAATAAT
T

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FIGURE 4989

AATCGAAAGTAGACTCTTTTCTGAAGCATTTCCTGGGATCAGCCTGACCACGCTCCATACTGGGAGAGGCTTCTG
GGTCAAAGGACCAGTCTGCAGAGGGATCCTGTGGCTGGAAGCGAGGAGGCTCCACACGGCCGTTGCAGCTACCGC
AGCCAGGATCTGGGCATCCAGGCACGGCC**ATGA**CCCCCTCCGAGGCTCTTCTGGGTGTGGCTGCTGGTTGCAGGAA
CCCAAGGCGTGAACGATGGTGACATGCGGCTGGCCGATGGGGGCGCCACCAACCAGGGCCGCGTGAGATCTTCT
ACAGAGGCCAGTGGGGCACTGTGTGTGACAACCTGTGGGACCTGACTGATGCCAGCGTCGTCTGCCGGGCCCTGG
GCTTCGAGAACGCCACCCAGGCTCTGGGCAGAGCTGCCTTCGGGCAAGGATCAGGCCCCATCATGCTGGACGAGG
TCCAGTGCACGGGAACCGAGGCCTCACTGGCCGACTGCAAGTCCCTGGGCTGGCTGAAGAGCAACTGCAGGCACG
AGAGAGACGCTGGTGTGGTCTGCACCAATGAAACCAGGAGCACCCACACCCTGGACCTCTCCAGGGAGCTCTCGG
AGGCCCTTGGCCAGATCTTTGACAGCCAGCGGGGCTGCGACCTGTCCATCAGCGTGAATGTGCAGGGCGAGGACG
CCCTGGGCTTCTGTGGCCACACGGTCACTCTGACTGCCAACCTGGAGGGCCAGGCCCTGTGGAAGGAGCCGGGCA
GCAATGTCACCATGAGTGTGGATGCTGAGTGTGTGCCATGGTCAGGGACCTTCTCAGGTACTTCTACTCCCGAA
GGATTGACATCACCTGTGCTCAGTCAAGTGCTTCCACAAGCTGGCCTCTGCCTATGGGGCCAGGCAGCTGCAGG
GCTACTGCGCAAGCCTCTTTGCCATCCTCCTCCCCAGGACCCCTCGTTCCAGATGCCCTTGACCTGTATGCCT
ATGCAGTGGCCACAGGGGACGCCCTGCTGGAGAAGCTCTGCCTACAGTTCTGGCCTGGAACCTCGAGGCCCTGA
CGCAGGCCGAGGCCTGGCCAGTGTCCCCACAGACCTGCTCCAAGTGTGCTGCCAGGAGCGACCTGGCGGTGC
CCAGCGAGCTGGCCCTACTGAAGGCCGTGGACACCTGGAGCTGGGGGGAGCGTGCCTCCCATGAGGAGGTGGAGG
GCTTGGTGGAGAAGATCCGCTTCCCCATGATGCTCCCTGAGGAGCTCTTTGAGCTGCAGTTCAACCTGTCCCTGT
ACTGGAGCCACGAGGCCCTGTTCAGAAGAAGACTCTGCAGGCCCTGGAATTCCACACTGTGCCCTTCCAGTTGC
TGGCCCGGTACAAAGGCCTGAACCTCACCGAGGATACCTACAAGCCCCGATTTACACCTCGCCACCTGGAGTG
CCTTTGTGACAGACAGTTCTTGAGTGCACGGAAGTCACAAGTGGTCTATCAGTCCAGACGGGGGCCTTTGGTCA
AATATTCTTCTGATTACTTCCAAGCCCCCTCTGACTACAGATACTACCCCTACCAAGTCCCTCCAGACTCCACAAC
ACCCAGCTTCTCTTCCAGGACAAGAGGGTGTCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGA
ACTACGGCTTCTCCTGCTCCTCGGACGAGCTCCCTGTCTGGGCCTCACCAAGTCTGGCGGCTCAGATCGCACCA
TTGCCTACGAAAACAAAGCCCTGATGCTCTGCGAAGGGCTCTTCGTGGCAGACGTCACCGATTTGAGGGCTGGA
AGGCTGCGATTCCCAGTGCCCTGGACACCAACAGCTCGAAGAGCACCTCCTCCTTCCCCTGCCCGGCAGGGCACT
TCAACGGCTTCCGCACGGTCACTCGCCCCCTTCTACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCA
AGGGTGGTGAGAACCGGAGAACCCAGGACGCCCTCACTGCAGGCTCCCCTCCTCGGCTTCTTCTCTCTGCAA
TGACCTTCAACAACCGGCCACCAGATGTGCCCCACTCACCTGAGCGCTCAGCTTCAAGAAATTACTGGAAGGCT
TCCACTAGGGTCCACCAGGAGTTCTCCACCACTCACCAGTTTCCAGGTGGTAAGCACCAGGACGCCCTCGAGG
TTGCTCTGGGATCCCCCACAGCCCCTGGTCAGTCTGCCCTTGTCACTGGTCTGAGGTCATTAAAAATTACATTGA
GGTTCCTA

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FIGURE 4990

MTPPRLEFWVLLVAGTQGVNDGDMRLADGGATNQGRVEIFYRGQWGTVCNLDLTDASVVCRALGFENATQALG
RAAFGQGS GPIMLDEVQCTGTEASLADCKSLGWLKSNCRHERDAGVVCTNETRSTHTLDSLRELSALGQIFDSQ
RGCDLSISVNVQGEDALGFCGHTVILTANLEAQALWKEPGSNVTMSVDAECVPMVRDLLRYFYSRRIDITLSSVK
CFHKLASAYGARQLQGYCASLFAILLPQDP SFQMPDL DYAYAVATGDALLEKLCLQFLAWNFEALTQAEAWPSVP
TDLLQLLLPRSDLAVPSELALLKAVDTWSWGERASHEEVEGLVEKIRFPMMLPEELFELQFNLSLYWSHEALFQK
KTLQALEFHTVPFQLLARYKGLNLTEDTYKPRIYTSPTWSAFVTDSSWSARKSQLVYQSRXGAFGQIFF

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FIGURE 4991

GTGCCTCCCATGAGGAGGTGGAGGGCTTGGTGGAGAAGATCCGCTTCCCATGATGCTCCCTGAGGAGCTCTTTG
AGCTGCAGTTCAACCTGTCCCTGTACTGGAGCCACGAGGCCCTGTTCCAGAAGAAGACTCTGCAGGCCCTGGAAT
TCCACACTGTGCCCTTCCAGTTGCTGGCCCCGGTACAAAGGCCTGAACCTCACCGAGGATACCTACAAGCCACGGA
AGTCACAACCTGGTCTATCAGTCCAGACGGGGGCTTTGGTCAAATATTCTTCTGATTACTTCCAAGCCCCCTCTG
ACTACAGATACTACCCCTACCAGTCCTTCCAGACTCCACAACACCCACAGCTTCCTCTTCCAGGACAAGAGGGTGT
CCTGGTCCCTGGTCTACCTCCCCACCATCCAGAGCTGCTGGAACTACGGCTTCTCCTGCTCCTCGGACGAGCTCC
CTGTCCTGGGCCTACCAAGTCTGGCGGCTCAGATCGCACCATTGCCTACGAAAACAAAGCCCTGATGCTCTGCG
AAGGGCTCTTCGTGGCAGACGTCACCGATTTGAGGGCTGGAAGGCTGCGATTCCCAGTGCCCTGGACACCAACA
GCTCGAAGAGCACCTCCTCCTTCCCCTGCCCCGGCAGGGCACTTCAACGGCTTCCGCACGGTCATCCGCCCCCTTCT
ACCTGACCAACTCCTCAGGTGTGGACTAGACGGCGTGGCCCAAGGGTGGTGAGAACCGGAGAACCCACAGGACGCC
CTCACTGCAGGCTCCCTCCTCGGCTTCTTCTCTCTGCAATGACCT

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FIGURE 4992A

TGCTCCCTCCAAATCCAAGTCCAGCAGTTCTCTCTTCTCTCCACGTATCTCTCTTCTCTCAGATGAAGAGGA
TGACAGTGACTTAGATGCTAAGAGGGGTCCCCGGGGCCGCGAGACCCACCCAGTGCCGCAGAAGAAGGCCAGAT
CCTGGTGGCCAAACCCGAGCTGAAGGATCCCATCCGGAAGAAGCGGGGACGAAAGCCCCCTGCCCCAGAGCAAAA
GGCAACCCGAAGACCCGTGAGCCTGGCCAAGGTGCTGAAGACCGCCGGAAGGATCTGGGGGCCCCGGCCAGCAA
GCTGCCCCCTCCACTCAGCGCCCCCGTTGCAGGCCCTGGCAGCTCTGAAGGCCACGCCAAGGAGGCCTGTGGCGG
CCCCAGTGCCATGGCCACCCAGAGAACCTGGCCAGCCTAATGAAGGGCATGGCCAGTAGCCCCGGCCGGGGTGG
CATCAGCTGGCAGAGCTCCATCGTGCACTACATGAACCGGATGACCCAGAGCCAGGCCAGGCTGCCAGCAGGTT
GGCGCTGAAGGCCAGGCCACCAACAAGTGCGGCCCTCGGGCTGGACCTGAAGGTGAGGACGCAGAAAGGGGAGCT
GGGAATGAGCCCTCCAGGAAGCAAAATCCCGAAGGCCCCAGCGGTGGGGCTGTGGAGCAGAAAGTGGGGAACAC
AGGGGGCCCCCGCACACCCATGGTGCCAGCAGGGTGCTGTGGGTGCCAGGCCCCAGCCAGCACCCACCCA
GGAGCTGAGCCTCCAGGTCTTGACTTGCAGAGTGTCAAGAATGGCATGCCCGGGGTGGGTCTCCTTGCCCCGCA
CGCCACCGCCACCAAGGGTGTCCCGGCCACCAACCCAGCCCCCTGGGAAGGGCACTGGGAGTGGCCTCATTGGGGC
CAGCGGGGCCACCATGCCACCGACACAAGCAAAAAGTGAGAAGCTGGCTTCCAGAGCAGTGGCGCCACCCACCCC
TGCCAGCAAGAGGGACTGTGTCAAGGGCAGTGCTACCCCCAGTGGGCAGGAGAGCCGCACAGCCCCGGAGAAGC
CCGCAAGGCGGCCACACTGCCAGAGATGAGCGCAGGTGAGGAGAGTAGCAGCTCGGACTCCGACCCCGACTCCGC
CTCGCCGCCAGCACTGGACAGAACCCGTAGTGCTCGTTTCCAGACCAGCCAGGACTGGAAGCCCCACCCGCAGCCT
CATCGAGCACGTATTTGTACCGACGTCACTGCCAACCTCATCACCGTCACAGTGAAGGAGTCTCCACCCAGCGT
GGGCTTCTTCAACCTGAGGCATTACTGAAGCCCCGGCGCCACCAGCTGCGCGGTCTTACTCCCCCTCCCTGCCTA
TGGTGTGCTTGGCTAAGTGACTCCAGCCCCAAGCCCCCTCAAGAGTCTGGGTGCGGGGAGGAGGAGTGGGTGGC
CTCCTTGATGGGCAGGCTTGGAAGGGACTTCTCCCGCACCCCACTCTGTCCAGGACATAGGGCAGGGGGCCTCA
CTGCCTTGTGGTCTCCACCTTGTTCCTACCTCTGCAGGCCCTTTTGTCTCTCCCTCTTGCCTCAGGAAACCCGG
TGGCACCTGTGGTCCAGGTGACTGTCTTGAACAGAGCGGGCTTCTTATGGCTGCGTTGTTGCTGAGTTTGAAC
TGCTCCTCCCTGGCCTGCGTGACTGAATCACAGCTTTGGTCCCTGTCTTGCAGGGGCTGAGGTGTCAGGAGGGGA
CTTCTGGCCCCACCTTGCCCTCAGCCCTGGAGTGGGCAGAGAGTATTGTGGGAGGCATGGCCAGTGGGACTAGTG
TTCCCTCCATCTGGCCACAGCTTTTGGGAGATGGGGTGGGCAGGGGTGGTCTGGCTGGCATTGCCTGAGCCGGC
AGTGATGAAGTGGGGAGCTTGCCCTTGACAGGTGGGGGTGGCTGGGGCCTTAATGTGAAAAGACAGTGGCAGGC
AGCTGGAGTAGAGCGAGCCAGCAGCCCTAAAAGGCTGCCTTCATGGCCATCTAGCCCCAGTTTCCAGGGCAGCATC
CATAGCCCACAAGCCAGCGTGGGTGGGGCGGGGGTGGTCCACAGCTGGGTTCACCTGAAGAGCCTCCGTGCCT
CGGAGCAGGAGAGGCAGGCTATGGCTGCCACCTCCCTCCTGCCTGTGTCCAGTGAGAACTGACCTGAGTCCCC
TTCCAAACCCAGACCCACCTCCTGCCCCAGGCCCACTGAAGCATGTTCCATTTCTAAAAAGCCCAGAGTTTCACTG
TGTCCCAAGGAAAACCCAAAGTGGAGGTGCTCAGGTCCAGGGGAGTCCAGTGGGCAGGACCCCTTGGCAGGCAAGC
CCCTCCCTTCACTCCCAGGACCTACCTTCTGCTAGTAAAGGACTGGCTTCAATTCTAATTATGGCCCCACAGACTGC
CCCGGAGACCTGGAGGACAGCAGTGCTGGCACTTGGGTGTCCATGGGCCCGTCTGCCGGCTCTGCCTGTGCTGCA
AGTGTGGCCGTGGGTCCAGCCAACAACCTCCCTACGTCTGTGTGGGGCCCTGCCCAAGTGGATGAGGCATTCTT
TGAGGAGTATCATTTTCCCTGACAATCCCCATCACCTTTAGGGGTTCCCTGCTTGGCTCCTTTCCAGCTGAAAAA
CTAGACCTGTGCCATTGGGGAAGCTGGACAAAGTCTAGGGGGCCCCGCTGGTAGAGGGTCCCGGGAAGCTGGATC
TGTCAGCCTCGGGCCCTGAGGCCCCCTGTTAACTCAAGACTGTGAGCTGCCTCTAGGTGGTCACGTCTGGGAGCTAG
CTTGTATGGCTTCTGACCAGTATCAGGATTTCTGTTCTGAGAGCAGCGTGGGCAGCAAGGCAGGGCAGCCCAGAG
GTGGCAGCGGCAGGCAATCTGGTCACTAGGTCTTTGTGATGCCAAAAATAAAGAGGGTGGGGTGGGTGCTTTCT
GTTCTCTGATTGGATGGAGTCCGCCAGCAGGCATGGGGCTACATTCCAGTGCCTGACTATAGGGAGGCACTCCT
GATTCCATGGAGCAGCCCGGACTTTGAGAATGGGCTCTGGTTTGCGGGGGGCAGGCGTACCAGACTGCAAGACCC
CCCAGTACCTCACCGTGCCAAATAGGAAGAGGTGGCCTTGGTGTAGCCAAATGGATCTTTTAAAGTGTGCCTT
TGGGGAGGGACCCATGTCCATGGCTTCTTGGAGGGCCATCCATATGCCAGCTGGGGGCCAGCCACAGTGGCCAT
ATTGGCTGCAGCAGGAATGGTGCCACCTCGGCGAATTGAAGGGCTAAGAGTCCAGATAGCTAGGCCAGAGCTG
GAAGCAGACAGTAAGGGGAAGAGCTGCTCCACAGAAGAGGGAGAGATTCCAGCTCACTGCGCAGCCTGGGAGGA
GGCGTGGATCCTGGCACGCTGAGCCTCAGGCACCAGCCTCCCTGTGCTCGACAGCAAAGTCTTGACTCCTTCTG
CTGAGCACTGTGCTACCTTCACTGCTCCAAAGCCAGACTAACAGCTCTCCAAGCCCTTGGGGTGACTCGGCTTCC
AGGAGCTGTTGGAGAAATGAGGATGTCTGTCCCTGTCTGCCTGGGCAGGCCAGATTCTCCCCAGCAGCCGGGTG

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FIGURE 4992B

TCTCCAGACCCTGATTTCGGTGCCTTTCTGTTTACCAGCTACTTCAATCCCAAAGTTTGAATCTGCAGATACCTTA
CTCCCAGCCACTTTGCCTTCTTACTGTGTTGTGTGTTTTTCTGGTGCTTCAAGAGCGTGTGCAGGGCAAGTGCC
GTCAGTGGGAAGTGCACCAGATGCTCAGACTTGGTTGTCTTATGTTTACCAATAAATAAAAGTAGACTTTTTCTA
TTTTTATTTGCTGCTATTTGTGTGTGTGTTTGTGTTTGTGTAGCTAGGTATCTGCACTTCTGACGATGCATTGTT
GCTTTTTTCCCGAAGTCCCGCAGGAAGTGTGGCAATGGTGTGTGTGTGAAATGGTGTGTTAACCGCGTTTTGTTT
GCTCCTGTATTGAATAGGAAGCAGTGGCCAGTCTGTCTTCCTTAGAGATGTTAGCATATTTTATATGTATATAT
TTTGTACCAAAAAAGAGTGTTCCTTGTTTTGGTTACACTCGAAATTCCTGACCTAGCTGGAGAGGGCTCTGGGCCG
AGAGCTTTCACCTAAGGGGAGACTTCAGGGGAGGATCAAGCTTTGAACCAAAGCCAATCACTGGCTTGATTTGTGT
TTTTTAATTAAAAAAAATCATTCAATGTATGCCACTTCTAA

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FIGURE 4993

MATPENLASLMKGMASSPGRGGISWQSSIVHYMNRMTQSQAQAASRLALKAQATNKCGLGLDLKVRTQKGELGMS
PPGSKIPKAPSGGAVEQKVGNTGGPPHTHGASRVPA GCPGPQPAPTQELSLQVLDLQSVKNGMPGVGLLARHATA
TKGVPA TN PAPGKGTG SGLIGASGATMPTDTSKSEK LASRAVAPPTPASKRDCVKGSATPSGQESRTAPGEARKA
ATLPEMSAGEESSSSSDSDPDSASPPSTGQNP SVSVQTSQDWKPTRSLIEHVFVTDVTANLITVTVKESPTSVGFF
NLRHY

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FIGURE 4994A

GCGCCTGCGCGGGAGGCCGCGTCACGTGACCCACCGCGGACCCGCCCCGCGACGAGCTCCCGCCGGTCACGTGAC
CCGCTCTGCGCGCCCCCGGGCACGACCCCGGAGTCTCCGCGGGCGGCCAGGGCGCGCGTGC GCGGAGGTGAGCC
GGGCCGGGGCTGCGGGGCTTCCCTGAGCGCGGGCCGGGTGCGTGGGGCGGTGCGCTGCCCGCGCGGCCTCTCAGT
TGGGAAAGCTGAGGTTGTGCGCCGGGGCCGCGGGTGGAGGTGCGGGATGAGGCAGCAGGTAGGACAGTGACCTCGG
TGACGCGAAGGACCCCGGCCACCTCTAGGTTCTCCTCGTCCGCCCCGTTGTTACGCGAGGGAGGCTCTGCGCGTGC
CGCAGCTGACGGGGAAACTGAGGCACGAGCGGGCCTGTAGGAGCTGTCCAGGCCATCTCCAACCATGGGAGTGA
GGCACCCGCCCTGCTCCACCGGCTCCTGGCCGTCTGCGCCCTCGTGTCTTTGGCAACCGCTGCACTCCTGGGGC
ACATCCTACTCCATGATTTCTGCTGGTTCCCCGAGAGCTGAGTGGCTCCTCCCCAGTCTTGGAGGAGACTCACC
CAGTCCACCAGCAGGGAGCCAGCAGACCAGGGCCCCGGGATGCCAGGCACACCCCGGCCGTCCCAGAGCAGTGC
CCACACAGTGCGACGTCCCCCCCCAACAGCCGCTTCGATTGCGCCCTGACAAGGCCATCACCCAGGAACAGTGCG
AGGCCCCGCGGTGTTGCTACATCCCTGCAAAGCAGGGGCTGCAGGGAGCCAGATGGGGCAGCCCTGGTGCTTCT
TCCCACCCAGCTACCCAGCTACAAGCTGGAGAACCTGAGTCTCTGAAATGGGCTACACGGCCACCCTGACCC
GTACCACCCCACTTCTTCCCCAAGGACATCCTGACCTGCGGCTGGACGTGATGATGGAGACTGAGAACCGCC
TCCACTTCACGATCAAAGATCCAGCTAACAGGCGCTACGAGGTGCCCTTGGAGACCCCGCATGTCCACAGCCGGG
CACCGTCCCCACTCTACAGCGTGGAGTTCTCCGAGGAGCCCTTCGGGGTGATCGTGCGCCGGCAGCTGGACGGCC
GCGTGCTGCTGAACACGACGGTGGCGCCCCCTGTTCTTTGCGGACCAGTTTCCTTCAGCTGTCCACCTCGCTGCCCT
CGCAGTATATCACAGGCCTCGCCGAGCACCTCAGTCCCCTGATGCTCAGCACCCAGCTGGACCAGGATCACCTGT
GGAACCGGGACCTTGCGCCACGCCCCGGTGCGAACCTCTACGGGTCTCACCTTTCTACCTGGCGCTGGAGGACG
GCGGGTGGCACACGGGGTGTTCCTGCTAAACAGCAATGCCATGGATGTGGTCTCGACCCGAGCCCTGCCCTTA
GCTGGAGGTGACAGGTGGGATCCTGGATGTCTACATCTTCTGGGCCAGAGCCCAAGAGCGTGGTGCAGCAGT
ACCTGGACGTTGTGGGATACCCGTTTCATGCCGCCATACTGGGGCCTGGGCTTCCACCTGTGCCGTGGGGCTACT
CCTCCACCGCTATCACCCGCCAGGTGGTGGAGAACATGACCAGGGCCCACTTCCCCCTGGACGTCCAGTGGAACG
ACCTGGACTACATGGACTCCCGGAGGGACTTCACGTTCAACAAGGATGGCTTCCGGGACTTCCCGGCCATGGTGC
AGGAGCTGCACCAGGGCGGCCGCGCTACATGATGATCGTGGATCCTGCCATCAGCAGCTCGGGCCCTGCCGGGA
GCTACAGGCCCTACGACGAGGGTCTGCGGAGGGGGGTTTTTCATCACC AACGAGACCGGCCAGCCGTGATTGGGA
AGGTATGGCCCGGGTCCACTGCCTTCCCCGACTTCACCAACCCACAGCCCTGGCCTGGTGGGAGGACATGGTGG
CTGAGTTCCATGACCAGGTGCCCTTCGACGGCATGTGGATTGACATGAACGAGCCTTCCAACCTTCATCAGGGGCT
CTGAGGACGGCTGCCCAACAATGAGCTGGAGAACCCACCCTACGTGCCTGGGGTGGTGGGGGGACCCCTCCAGG
CGGCCACCATCTGTGCCTCCAGCCACAGTTCCTCTCCACACACTACAACCTGCACAACCTCTACGGCCCTGACCG
AAGCCATCGCTCCACAGGGCGCTGGTGAAGGCTCGGGGGACACGCCATTTGTGATCTCCCGCTCGACCTTTG
CTGGCCACGGCCGATACGCCGGCCACTGGACGGGGGACGTGTGGAGCTCCTGGGAGCAGCTCGCCTCCTCCGTGC
CAGAAATCCTGCAGTTTAACTGCTGGGGGTGCCTCTGGTTCGGGGCCGACGTCTGCGGCTTCCTGGGCAACACCT
CAGAGGAGCTGTGTGTGCGCTGGACCCAGCTGGGGGCCCTTCTACCCCTTCATGCGGAACCAACAGCCTGTCTCA
GTCTGCCCCAGGAGCCGTACAGCTTCAGCGAGCCGGCCAGCAGGCCATGAGGAAGGCCCTCACCTGCGCTACG
CACTCCTCCCCACCTCTACACACTGTTCCACCAGGCCCACGTGCGGGGGAGACCGTGGCCCGGCCCTCTTCC
TGGAGTTCCCCAAGGACTCTAGCACCTGGACTGTGGACCACCAGCTCCTGTGGGGGGAGGCCCTGCTCATACCC
CAGTGCTCCAGGCCGGGAAGGCCGAAGTGACTGGCTACTTCCCCTTGGGCACATGGTACGACCTGCAGACGGTGC
CAGTAGAGGCCCTTGGCAGCCTCCCACCCCCACCTGCAGCTCCCCGTGAGCCAGCCATCCACAGCGAGGGGCAGT
GGGTGACGCTGCCGGCCCCCTGGACACCATCAACGTCCACCTCCGGGCTGGGTACATCATCCCCCTGCAGGGCC
CTGGCCTCACAACCACAGAGTCCCGCCAGCAGCCCATGGCCCTGGCTGTGGCCCTGACCAAGGGTGGGGAGGCC
GAGGGGAGCTGTTCTGGGACGATGGAGAGAGCCTGGAAGTGCTGGAGCGAGGGGCCTACACACAGGTCATCTTCC
TGGCCAGGAATAACACGATCGTGAATGAGCTGGTACGTGTGACCAGTGAGGGAGCTGGCCTGCAGCTGCAGAAGG
TGACTGTCTTGGCGTGGCCACGGCGCCCCAGCAGGTCTCTCCAACGGTGTCCCTGTCTCCAACCTTCACCTACA
GCCCCGACACCAAGGTCCTGGACATCTGTGTCTCGCTGTTGATGGGAGAGCAGTTTCTCGTCAGCTGGTGTTAGC
CGGGCGGAGTGTGTTAGTCTCTCCAGAGGGAGGCTGGTTCCCCAGGGAAGCAGAGCCTGTGTGCGGGCAGCAGCT
GTGTGCGGGCCTGGGGGTGTCATGTGTCACTGGAGCTGGGCACTAACCATTC AAGCCGCCGCATCGCTTGT
CCACCTCCTGGGCCGGGGCTCTGGCCCCAACGTGTCTAGGAGAGCTTCTCCTTAGATCGCACTGTGGGGCCGGG
GCCCTGGAGGGCTGCTCTGTGTTAATAAGATTGTAAGGTTTGGCCTCCTCACCTGTTGCCGGCATGCGGGTAGTA

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FIGURE 4994B

TTAGCCACCCCCCTCCATCTGTTCCCAGCACCGGAGAAGGGGGTGCTCAGGTGGAGGTGTGGGGTATGCACCTGA
GCTCCTGCTTCGCGCCTGCTGCTCTGCCCCAACGCGACCGCTGCCC GGCTGCCCAGAGGGCTGGATGCCTGCCGG
TCCCCGAGCAAGCCTGGGAACTCAGGAAAATTCACAGGACTTGGGAGATTCTAAATCTTAAGTGCAATTATTTT
AATAAAAGGGGCATTGGAATC

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FIGURE 4995

TCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCACAG
CGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCACAGCGAGGTCGGCAGCGGCAGCGAGGTCGGCAGCGGCAGCG
CGCTGTGCTCTTCCGCGGACTCTGAATCATGGCGACCACGGCCACGATGGCGACCTCGGGCTCGGCGCGAAAGCG
GCTGCTCAAAGAGGAAGACATGACTAAAGTGGAATTCGAGACCAGCGAGGAGGTGGATGTGACCCCCACGTTTCA
CACCATGGGCCTGCGGGAGGACCTGCTGCGGGGCATCTACGCTTACGGTTTTGAAAAACCATCAGCAATCCAGCA
ACGAGCAATCAAGCAGATCATCAAAGGGAGAGATGTCATCGCACAGTCTCAGTCCGGCACAGGAAAAACAGCCAC
CTTCAGTATCTCAGTCCTCCAGTGTTTGGATATTCAGGTTCTGAAACTCAAGCTTTGATCTTGGCTCCCAAG
AGAGTTGGCTGTGCAGATCCAGAAGGGGCTGCTTGCTCTCGGTGACTACATGAATGTCCAGTGCCATGCCTGCAT
TGGAGGCACCAATGTTGGCGAGGACATCAGGAAGCTGGATTACGGACAGCATGTTGTGCGGGGCACTCCAGGGCG
TGTTTTTGATATGATTTCGTCGCAGAAGCCTAAGGACACGTGCTATCAAAATGTTGGTTTTGGATGAAGCTGATGA
AATGTTGAATAAAGGTTTTCAAAGAGCAGATTTACGATGTATACAGGTACCTGCCTCCAGCCACACAGGTGGTTCT
CATCAGTGCCACGCTGCCACACGAGATTCTGGAGATGACCAACAAGTTCATGACCGACCCAATCCGCATCTTGGT
GAAACGTGATGAATTGACTCTGGAAGGCATCAAGCAATTTTTTCGTGGCAGTGGAGAGGGAAAGAGTGGAATTTGA
CACTCTGTGTGACCTCTACGACACACTGACCATCACTCAGGCGGTTCATCTTCTGCAACACCAAAAAGAAAGGTGGA
CTGGCTGACGGAGAAAAATGAGGGAAGCCAACCTTCACTGTATCCTCAATGCATGGAGACATGCCCCAGAAAGAGCG
GGAGTCCATCATGAAGGAGTTCCGGTCGGGCGCCAGCCGAGTGCTTATTTCTACAGATGTCCTGGGCCAGGGGGTT
GGATGTCCCTCAGGTGTCCCTCATCATTAACTATGATCTCCCTAATAACAGAGAATTGTACATACACAGAATTGG
GAGATCAGGTCGATACGGCCGGAAGGGTGTGGCCATTAACTTTGTAAAGAATGACGACATCCGCATCCTCAGAGA
TATCGAGCAGTACTATTCCACTCAGATTGATGAGATGCCGATGAACGTTGCTGATCTTATCTGAAGCAGCAGATC
AGTGGGATGAGGGAGACTGTTACCTGCTGTGTACTCCTGTTTGAAGTATTTAGATCCAGATTCTACTTAATGG
GGTTTATATGGACTTTCTTCTCATAAATGGCCTGCCGTCTCCCTTCCTTTGAAGAGGATATGGGGATTCTGCTCT
CTTTTCTTATTTACATGTAAATAATACATTGTTCTAAGTCTTTTTTCATTAAAAATTTAAACTTTTCCCAT

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FIGURE 4996A

GACGGGCTGGGGAGGTGGTGCCAGGCTGGTTGCTAGCTGCCGCCGCTGCTCACCCCGGCCGTCCGGCCGCTTCAT
TGTCACCGGGCCTCGGGGCAGTGTGGGGGTGGCGGGGCGCCAGGTCGCCGACCCGAGGTTTGGGCGCGACTGGT
TCCGCATCCCCCTCCCCGCCGGCCGAATCTGCAGGCCCCGCGCGCCAGGCAGGCTTCGCGGCTGCGCCCCCGGCC
GCGCAGGACCTGCCTTGTCCACC**ATG**AAAGGCACCCGGGCCATCGGCAGCGTCCCGGAGCGCACGCCAGCAGGTG
TGGACCTGAGTCTGACAGGTCTCCCTCCGCTGTGTCCCGGCGTCTGGCAGTGCGCCACCACCAAGCCCATCGT
CCGCTCTGTCTCCGTGGTCACAGGCAGCGAGCAGAAGAGGAAGGTGCTGGAGGCCACAGGGCCTGGGGGCTCCCA
GGCCATCAACAACCTTAGGAGATCCAACAGCACCGCAGGTGAGCCAGCCTCGGAGCGGCTCCCCAGGCCAAC
GGAGCCACAGACTTCTGATGCTCTTCGAGGGCAGCCCCAGTGGGAAAAAGAGGCCTGCCAGCCTGAGCACAGC
CCCCAGCGAGAAGGGAGCCACCTGGAACGTCTGGATGACCAGCCCCGGGGCTTCACCTTGCCATCCAATGCCCG
GAGTTCAGTGCCCTTGACTACCGAGCGGGCCCCGCGGAGGAAAGAATGCACCGTGGCCCTGGCCCCAACTTCAC
TGCTAACAACAGGAGCAACAAGGGAGCAGTGGGCAACTGCGTCACCACCATGGTGCACAACCGCTACACCCCTC
GGAGAGGGCGCCTCCGCTCAAGAGCTCCAACCAGACTGCCCCCTCCCTCAACAACATCATCAAGGCAGCCACCTG
TGAGGGCAGTGAGAGCAGCGGCTTTGGGAAGCTGCCGAAGAATGTCTCCAGTGCCACCCACTCAGCCCCGAACAA
TACTGGGGGCAGCACGGGCTTGCCAGGCGGAAGGAGGTGACGGAGGAGGAGGCTGAGAGGTTTATCCACCAGGT
GAACCAGGCCACTGTACCATCCAGCGCTGGTACCGGCACCAGGTGCAGCGGCGCGGAGCAGGAGCTGCCCGCCT
GGAGCACTTGCTTCAGGCCAAGCGGGAGGAGCAGCGGCAGCGGTGAGGCGAGGGGACCTCTTGAGCTGCACCA
GCAGAAAAGAGGCAGCCAGGAGGAAGGCCCGGGAGGAGAAGGCACGCCAAGCCAGGCGAGCAGCCATTGAGGAGCT
GCAACAGAAAACGAGCCCTGAGAGCCAGAAGGCGAGCACTGCCGAGCGTGGGCCACCTGAGAATCCAGGGAGAC
CAGAGTGCCAGGAATGCGGCAGCCTGCTCAGGAGCTGTCCCCACACCAGGCGGCACTGCCACCCAGGCCCTCAA
GGCCAACAATACTGGTGGTGGCTCCCTGCTGCAGGCCCCGGAGACCGCTGCCTGCCACCTCCGACTCATCCCC
AGAACCACAGCAGCCTCCAGAGGACAGGACGCGAGGACGTTCTTGCCAGGATGCAGCTGGGGACAACCTGGAGAT
GATGGCCCCGAGCAGGGGGAGCGCCAAGTCCAGGGGGCCACTGGAGGAGCTGCTGCACACACTGCAGCTGCTGGA
GAAGGAGCCCGACGTGCTGCCCCGCCCCAGGACCCATCACAGGGGCAGATACGCCTGGGCCAGCGAGGTGACCAC
GGAGGATGACGCCAGCTCTCTGACAGCTGACAACCTTGAGAAATTTGGAAGAACTCAGTGCCTTCCCCGAACCTCC
TGAGGATGGGACGCTGCTATCGGAGGCCAAGCTACAAAGCATCATGAGCTTCTTGAGCAGATGGAGAAAGTCTGG
GCAGGACCAGCTGGACTCCAGCAGGAGGGGTGGGTGCCGAGGCGGGGCCGGGGCCCCCTGGAGCTGGGGTCCGA
GGTGAGCACGTCTGTGATGCGGTGAAGCTGGAGGTGGAGGAGAAGAAGCAGGCCATGCTGCTGCTGCAGAGAGC
GCTGGCGCAGCAGCGAGACCTCACGGCCCCGGCGGTCAAGGAGACAGAGAAGGCGCTGAGCCGGCAGCTGCAGCG
GCAGAGGGAGCACTACGAGGCCACCATCCAGCGGCACTTGCCCTTCAATTGACCAGCTGATTGAGGACAAGAAGGT
CCTGAGTGAAAAGTGCAGGGCTGTGGTGGCCGAGCTGAAGCAGGAGGACCAGAGATGCACCGAGCGTGTGGCCCA
GGCACAGGCGCAGCACGAGCTGGAGATTAAAAAACTCAAAGAATTAATGAGCGCCACCGAGAAAGCCCCGCCGGGA
GAAGTGATCAGTGAGAAAACCAAGAAGATCAAGGAGGTCACTGTCCGAGGTCTGGAGCCCGAGATCCAGAAGCT
GATTGCAAGGCACAAGCAGGAAGTGCAGGAGGTCAAGAGCCTGCACGAGGCGGAGCTGCTGCAGTCCGATGAGCG
GGCCTCGCAGCGCTGCCTGCGCCAGGCCGAGGAGCTGCGGGAGCAGCTGGAGCGGGAGAAGGAGGCGCTGGGCCA
GCAGGAGCGCGAACGTGCTCGGCAGCGGTTCCAGCAGCACCTGGAGCAGGAGCAGTGGGCGCTGCAGCAGCAACG
GCAGCGGCTGTACAGTGAGGTGGCTGAGGAGAGGGAGCGGCTGGGCCAGCAGGCAGCCAGGCAGCGGGCGGAGCT
GGAAGAGCTGAGGCAGCAGCTGGAGGAGAGCAGCTCTGCACTGACCCGAGCCCTGAGGGCTGAGTTTGAGAAGGG
CAGGGAGGAGCAGGAGCGCCGGCACCAGATGGAGCTGAATACCCTGAAGCAGCAGCTGGAGCTGGAGAGGCAGGC
GTGGGAGGCCCGCCGACCAGGAAGGAGGAGGCGTGCTGCTGAACCGGGAACAGGAGCTGAGGGAAGAAATCCG
GAAAGGCCGGGACAAGGAGATTGAGCTGGTCATTACCGGCTGGAGGCCGACATGGCGCTGGCCAAGGAGGAGAG
TGAGAAGGCTGCCGAGAGCCGCATCAAGCGCTTACGGGACAAGTACGAGGCCGAGCTCTCCGAGCTGGAGCAGTC
GGAGCGGAAGCTTCAGGAGCGGTGCTCGGAGCTGAAGGGCCAGCTTGGGGAGGCCGAGGGCGAGAATCTGCGTCT
GCAGGGCCTTGTGCGGCAGAAGGAGCGGGCGCTGGAGGATGCGCAGGCGGTGAACGAGCAGCTTTCTAGCGAGCG
CAGCAACCTGGCCCAGGTGATCCGCCAGGAGTTCGAGGACCGGCTGGCAGCCTCTGAGGAGGAGACGCGGCAGGC
CAAGGCCGAGCTGGCCACGCTGCAGGCCCGCCAGCAGCTGGAGCTGGAGGAGGTGACCGGAGGGTGAAGACAGC
CCTCGCGAGGAAGGAGGAGGCCGTGAGCAGCCTCCGGACACAACATGAGGCTGCGGTGAAGCGGGCCGACCACCT
GGAGGAGCTGCTGGAGCAGCACAGGAGGCCACGCCAAGTACCAAGTGACCAGGGATGCCGGGAACACTGTGCAA
GAACGGAAGGCAGAGGACAGAGGCTGGACGTGGGCCAGAGGCCACAGGGACGCCACCTGCCCCCACAGAGG

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FIGURE 4996B

CTGGTGGTTGAGATGCCCACGGCTAAGCACCTGTGGCTGCATTTTAAACAGTAAAGGAGGCCGTTGTTTTTC

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FIGURE 4997

MKGTRAIGSVSPERSPAGVDLSLTGLPPPVSRRPGSAATTKPIVRSVSVVTGSEQKRKVLEATGPGGSQAINNLRR
SNSTTQVSQPRSGSPRPTEPTDFLMLFEGSPSGKKRPASLSTAPSEKGATWNVLDDQPRGFTLP SNARSSSALDS
PAGPRRKECTVALAPNFTANNRSNKGAVGNCVTTMVHNRYTPSERAPPLKSSNQ TAPSLNNIIKAATCEGSESSG
FGKLPKNVSSATHSARNNTGGSTGLPRRKEVTEEEAERFIHQVNQATVTIQRWYRHQVQRRGAGAARLEHLLQAK
REEQRQORSGEGLTLLDLHQQKEAARRKAREEKARQARRAAIQELQQKRALRAQKASTAERGPPENPRETRVPGMRQ
PAQELSPTPGGTAHQALKANNTGGGLPAAGPGDRCLPTSDSSPEPQQPPEDRTQDVLAQDAAGDNLEMMAPSRGS
AKSRGPLEELLHTLQLEKEPDVLP RP RTHHRGRYAWASEVTTEDDASSLTADNLEKFGKLSAFPPEPPEDGTLLS
EAKLQSIMSFLDEMEKSGQDQLDSQQEGWVPEAGPGPLELGSEVSTSVMLRKLEVEEKKQAMLLQLRALAQQRDL
TARRVKETEKALSRQLQRQREHYEATIQRHLAFIDQLIEDKKVLSEKCEAVVAELKQEDQRC TERVAQAQAQHEL
EIKKLELM SATEKARREKWISEKTKKIKEVTVRGLEPEIQKLIARHKQEVRRLLKSLHEAELLQSDERASQRCLR
QAEELREQLEREKEALGQQRERARQRFOQHLEQEQWALQQQRQRLYSEVAEERERLGQQAARQRAELEELRQQL
EESSALTRALRAEFEGREEQERRHQMELNTLKQQLERQAW EAGRTRKEEAWLLNREQELREEIRKGRDKEI
ELVIHRLEADMALAKEESEKAAESRIKRLRDKYEAELSELEQSERKLQERCSELKGQLGEAEGENLRLQGLVRQK
ERALEDAQAVNEQLSSERSNLAQVIRQEFEDRLAASEEETRQAKAELATLQARQQLELEEVHRRVKTALARKEEA
VSSLRTQHEAAVKRADHLEELLEQHRRPTPSTK

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FIGURE 4998

CAGGTGAGGCGGAACCAACCCTCCTGGCCATGGGAGGGGCCGTGGTGGACGAGGGCCCACAGGCGTCAAGGCCCT
GACGGCGGCTGGGCGTGAGGCGTGCTCTTCGGCTGTTTCGTGCATCACTGGCTTCTCCTACGCCTTCCCCAAGGCC
GTCAGTGTCTTCTTCAAGGAGCTCATAACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATC
CTGCTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCCGTCATG
CTTGTGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCCTTTTGCCGGAGCATCATCCAGGTCTACCTC
ACCACTGGGGTCATCACGGGGTTGGGTTTGGCACTCAACTTCAGCCCTCGCTCATCATGCTGAACCGCTACTTC
AGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCCTGTGTGCCCTGAGCCCGCTG
GGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCTTCCTCATCCTGGGCGGCCTGCTGCTCAACTGCTGC
GTGTGTGCCGCACTCATGAGGCCCTGGTGGTCACGGCCCAGCCGGCTCGGGGCAGCCGCGACCCTCCCGGCGCC
TGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGCTTTACGCCGTGGCCGCCTCGGTTCATGGTGCTGGGGC
TCTTCGTCCCGCCCGTGTTCGTGGTGATGACGCCAAGGACCTGGCGTGCCCGACACCAAGGCGCCTTCTGTCTCA
CCATCCTGGGCTTCATTGACATACTTACGCCCCGCGGGGCTTCGTGCGGGGCTTGGAAGGTGCGGCCCTATCCG

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FIGURE 4999

GCGGGCGGCGGCGCTCGGAGTCGCCGGGAGCTGCCAGGCTGCTCCGCGCGCCGCTGCGGGGCCATGATCCGGAAC
GGGCGCGGGGCTGCAGGCGGCGCAGAGCAGCCGGGCCCGGGGGGAGGCGCGCCGTGAGGGTGTGGTGCGATGGC
TGCTATGACATGGTGCATTACGGCCACTCCAACCAGCTGCGCCAGGCACGGGCCATGGGTGACTACCTCATCGTA
GGCGTGACACCGATGAGGAGATCGCCAAGCACAAAGGGGCCCCCGGTGTTCACTCAGGAGGAGAGATACAAGATG
GTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACACTAGAGACCCTGGACAAA
TACAACGTGTGACTTCTGTGTTACGGCAATGACATCACCTGACTGTAGATGGCCGGGACACCTATGAGGAAGTA
AAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGTCCACCACAGACCTCGTGCGGCCGCATGCTG
CTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCCTCTGAGTACCGGGAGTATGCAGACAGTTTTGGCAAG
TGCCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCCAGTTCCTGCAGACATCTCAGAAGATCATCCAGTTTGCT
TCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATCTATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCAT
GTGGACTTCCTGGAGAAGGTGCACAGGCTGGCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAG
GTCAATCACTACAAGGGGAAGAACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGCTGGCCTGCCGG
TACGTGTCAGAAGTGGTGATTGGAGCCCCGTACGCGGTACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTG
GTGTGTCACGGCAAGACAGAAATTATCCCTGACAGGGATGGCTCCGACCCATAACCAGGAGCCCAAGAGAAGGGC
ATCTTCCGTGAGATTGACAGTGGCAGCAACCATCACCAAAGACTCATCGTCAGCGGATTATCACAAACAXXXXXX
XXXXXGAGGCGCTAAACGAGAAGAAGGAAGCCAAGGAGCTCGCCTTCCTGGAGGTGCCAGGCAGGCGCACAG
CCCTGGGGAGCGCGATGGTACTTCTAACCTGGCAGAGCCCTGCCGGCCCTCCCCCTGCTCTGCTTCTGCGCCTTC
TGCGTTTGGACATAGGACTCTGCAGGGCCGCCCTCTCTAACTGGCCTGGCTCTGGAAGGGCTGGTGAGGACTCTG
CCTCCTTGCTGCCTACAAGGTGCCTGGTTTGCAGCAGGCTCTCCGCTCTTTCCAGCAAAGCTGCTCAGAGAGGG
TGTCCAGCACAGTGGAGAGGCCGGAAGTGAGACGGGCAGACGGCACCTGCAGCCTGAAACGCACCGCTCCTGCGT
GCGCCCCCACCTGGTCCCCGGATGCCCCACCACCTGGACAGAGGCCACACTGACTGCCCACCCAGCTGTGGCGG
GAGGTGCAGAGCAGAGGGCTTTAGGGAGCAGTGAAGTGCAGGCTCACCCCTTTAGTTCTCTGGGTGTAGACCACACCA
CCTCCCACTGGGCACCCCCAACACGGTGTCTGCCACCCAGCGCTGGCTCCAGGAAAACACGCTTGCCCTTCCT
TCCCGGCAGCTTCGCCACTCTCCTTATGGAAGTCTGTTCTGTTGTACATGGCTGACGGAAATCTCTTTGGTACAA
CCGAATAAAGCCTGGTGGCAGTGCTGCGCGGGGCTCCAGCC

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FIGURE 5000

TGACCTGACCTCTCTCCTCTCCCCTCACCCCTCCTGCCCCCTGGCCACTGCAGGATCAGGAGGGGAGAAGAAGGAGC
CTCTGCTGCCTCCCAGGCTGCTGGGACTGGGCTGGTTTTGTCCTTGAAGTGGTCAGGATACAGGACAAGGGCAGC
CCCACCCCATCCAGCCTGGGCTCCCCGCAGACCCTTGCTGCTCCCGTGGCCTGGACA'CGCTGGGGAGCTTCTCAC
ACCTACCCCAGGCTGACCCTGAGGTGCTGCTGCTGGGTCTGTCTTGGCTCTGGGGTGTGCTGGGAGGGTCACCAG
GTCCCTTTTCCTTCCTGTGCCCTCTGAAAGCTAAGTGTCTGTGTGGCTGTGGAGCTCGAGGGTCTGTGAATAAAG
GCGGCGGCACTGGG

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FIGURE 5001

CCCCTACACACCGTCCGTTACCCCCGTCTCTTCCTTCTGCTTTTTCGGTTTTTGGAAAGGGATCCATCTCCAGGC
AGCCCACCCCTGGTGGGGCTTGTTTCCTGAAACCATGATGTACTTTTTCATACATGAGTCTGTCCAGAGTGCTTGC
TACCGTGTTTCGGAGTCTCGCTGCCTCCCTCCCGCGGGAGGTTTCTCCTCTTTTTGAAAATTCCGTCTGTGGGATT
TTTAGACATTTTTTCGACATCAGGGGTGTCCCCCATGCCTGGAAGAGGAGCTGGTGGCTGCCAGCCCTGGGGCCCG
GCACAGGCCTGGGCCTTCCCCTTCCCTCAAGCCAGGGCTCCTCCTCCTGTCGTGGGCTCATTGTGACCACTGGCC
TCTCTACAGCACGGCCTGTGGCCTGTTCAAGGCAGAACCACGACCCTTGACTCCCGGGTGGGGAGGTGGCCAAGG
ATGCTGGAGCTGAATCAGACGCTGACAGTTCTTCAGGCATTTCTATTTACAATCGAATTGAACACATTGGCCAA
ATAAAGTTGAAATTTT

FIGURE 5002

GGCACGAGGGGGCGGCCGACGACGTTTCGTCAATTAGTGCGGGAGGGATCCTGAACCGCGCGGCCGAACCCCTCCGG
TGTCCCGACCCAGGCTAAGCTTGAGC**ATG**CTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGG
AGAACGAGGAGGATGAGCACTCGGTCAACTACAAGCCCCGGCCCCAGAAGAGCATCCAGGAGATCCAGGAGCTGG
ACAAGGACGACGAGAGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGCAGACCCCAACG
TCCCCAACGTCGTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGG
GCGACCTGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAAATCTCTTTTC
GGGTAAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGACAAGA
CTGACTACATGGTAGGCAGCTATGGGCCCCGGGCCGAGGAGTACGAGTTCTTGACCCCCGTGGAGGAGGCACCCA
AGGGTATGCTGGCCCCGGGGCAGCTACAGCATCAAGTCCCGCTTCACAGACGACGACAAGACCGACCACCTGTCTCT
GGGAGTGGAATCTCACCATCAAGAAGGACTGGAAGGAC**TGAC**CCCCAGCCAGAGGCGGGCAGGGCAGACTGACGGA
CGGACGACGGACAGGCGGATGTGTCCCCCCCCAGCCCCCTCCCCCTCCCCATACCAAAGTGCTGACAGGCCCTCCGTG
CCCCCTCCACCCCTGGTCCGCCTCCCTGGCCTGGCTCAACCGAGTGCCCTCCGACCCCCCTCCTCAGCCCTCCCCCA
CCCACAGGCCCAGCCTCCTCGGTCTCCTGTCTCGTTGCTGCTTCTGCGCTGTGCTGTGGGGGAGAGAGGCCGCGAGC
CAGGCCTCTGCTGCCCTTTCTGTGCCCCCAGGTTCTATCTCCCCGTCACACCCGAGGCCTGGCTTCAGGAGGGA
GCGGAGCAGCCATTCTCAGGCCCCCGTGGTTGCCCTGGACGTGTGCGTCTGCTGCTCCGGGGTGGAGCTGGGGT
GTGGGATGCACGGCCTCGTGGGGGCGGGGCCGTCTCCAGCCCCGCTGCTCCCTGGCCAGCCCCCTTGTGCTGT
CGGTCCCGTCTAACCATGATGCCTTAACATGTGGAGTGTACCGTGGGGCCTCACTAGCCTCTAACTCCCTGTGTC
TGCA TGAGCATGTGGCCTCCCGTCCCTTCCCCGGTGGCGAACCACAGTGACCCAGGGACACGTGGGGTGTGCTGC
TGCTGCTCCCCAGCCCACCAAGTGCCCTGGCCAGCCTGCCCCCTTCCCTGGACAGGGCTGTGGAGATGGCTCCGGCG
GCTTGGGGAAAGCCAAATTGCCAAAACCTCAAGTCACCTCAGTACCATCCAGGAGGCTGGGTATTGTCTCTGCTCT
GCCTTTTCTGTCTCAGCGGGCAGTGCCAGAGCCACACCCCCCAAGAGCCCTCGATGGACAGCCTCACCCACC
CCACCTGGGGCCAGCCAGGAGCCCGCCTGGCCATCAGTATTTATTGCCTCCGTCCGTGCCGTCCCTGGGGCCACT
GGCCTGGCGCCTGTTCCCCCAGGCTCTCAGTGCCACCACCCCCGGCAGGCCTTCCCTGACCCAGCCAGGAACAAA
CAAGGGACCAAGTGCACACATTGCTGAGAGCCGTCTCCTGTGCTTCCCCGCCCCATCCCCGGTCTTTCGTGTTGT
GTCTGCCAGGCTCAGGCAGAGGCGCCTGTCCCTGCTTCTTTTCTGACCGGGAAATAAATGCCCTGAAGGAAAAA
AAA

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FIGURE 5003

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNVPNVVVTGL
TLVCSSAPGPLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVKIDKTDYMGVGSYG
PRAEEYEFLTPVEEAPKGMLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD

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FIGURE 5004

CTCCGGACAGCATGAGCGTGGGCTTCATCGGCGCTGGCCAGCTGGCTTTTGCCCTGGCCAAGGCTTTCACAGCAG
CAGGCGTCTTGGCTGCCCACAAGATAATGGCTAGCTCCCCAGACATGGACCTGGCCACAGTTTCTGCTCTCAGGA
AGATGGGGGTGAAGTTGACACCCCAACAAGGAGACGGTGCAGCACAGTGATGTGCTCTTCCTGGCTGTGAAGC
CACACATCATCCCTTTCATCCTGGATGAAATAGGCGCCGACATTGAGGACAGACACATTGTGGTGTCTCGCGGG
CCGGCGTCACCATCAGCTCCATTGAGAAGAAGCTGTGAGCGTTTCGGCCAGCCCCCAGGGTCATCCGCTGCATGA
CCAACACTCCAGTCGTGGTGC GGAGGGGGCCACCGTGTATGCCACAGGACGCACGCCCAGGTGGAGGACGGGAG
GCTC**ATG**GAGCAGCTGCTGAGCAGCGTGGGCTTCTGCACGGAGGTGGAAGAGGACCTGATTGATGCCGTCACGGG
GCTCAGTGGCAGCGGCCCGCCTACGCATTACAGCCCTGGATGCCCTGGCTGATGGGGGTGTGAAGATGGGACT
TCCAAGGCGCCTGGCAGTCCGCCTCGGGGGCCAGGCCCTCCTGGGGGGCTGCCAAGATGCTGCTGCACTCAGAACA
GCACCCAGGCCAGCTCAAGGACAACGTCAGCTCTCCTGGTGGGGCCACCATCCATGCCTTGCATGTGCTGGAGAG
TGGGGGGCTTCCGCTCCCTGCTCATCAACGCTGTGGAGGCCTCCTGCATCCGCACACGGGAGCTGCAGTCCATGGC
TGACCAGGAGCAGGTGTACCAGCCGCCATCAAGAAGACCATCCTGGACAAGGTGAAGCTGGACTCCCCCTGCAGG
GACCGCTCTGTACCTTCTGGCCACACCAAGCTGCTCCCCCGCAGCCTGGCCCCAGCGGGCAAGGAT**TGAC**ACGT
CCTGCCTGACCACCATCCTGCCACCACCTTCTCTTCTCTTGTCACTAGGGGGACTAGGGGGTCCCCAAAGTGGCC
CACTTTCTGTGGCTCTGATCAGCGCAGGGGCCAGCCAGGGACATAGCCAGGGAGGGGCCACATCACTTCCCACTG
GAAATCTCTGTGGTCTGCAAGTGCTTCCAGCCCAAGACAGGGGTGGATTCCCCAACCTCAACCTCCTTTCTTCT
CTGCTCCCAAACCATGTCAGGACCACCTTCTCTAGAGCTCGGGAGCCCGGAGGGTCTTCACCCACTCCTACTCC
AGTATCAGCTGGCACGGGCTCCTTCTGAGAGCAAAGGTCAAGGACCCCTCTGTGAAGGCTCAGCAGAGGTGGG
ATCCCACGCCCCCTCCCGGCCCTCCTGCCCTCCATTACGGGAGAAACCTCTCCTTCCCGTGTGAGAAGGGCCA
GAGGGTCCAGGCATCCCAAGTCCAGCGTGAAGGGCCACAGCCCCTCTTGGCTGCCAAGCACGCAGATCCCATGGA
CATTTGGGGAAAGGGCTCCTTGGGCTGCTGGTGAACCTTCTGTGGCCACCACCTCCTGCTCCTGACCTCCCTGGGA
GGGTGCTATCAGTTCTGTCTTGGCCCTTTCAGTTTTATAAGTTGGTTTCCAGCCCCCAGTGTCTGACTTCTGTC
TGCCACATGAGGAGGGAGGCCCTGCCTGTGTGGGAGGGTGGTTACTGTGGGTGGAATAGTGGAGGCCTTCAACTG
ATTAGACAAGGCCCGCCACATCTTGGAGGGCATCTGCCTTACTGATTAAATGTCAATGTAATCT

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FIGURE 5005

MEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQH
PGQLKDNVSSPGGATIHAIHVLESGGFRSLINAVEASCIRTRELQSMADQEQVSPAAIKKTILDKVKLDSPAGT
ALSPSGHTKLLPRSLAPAGKD

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FIGURE 5006

GACATGGAGCTGTTTCCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCGCGC
GAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTCGCCCTGCTGCAGCCCTTCCTGGAGGTCACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCACTTTGCCGGTGGAAGGGGGCTTCTGGGCCTGCTTGAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 5007

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLDSLRECPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNP TVVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

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FIGURE 5008

TCTCTGAAGTTCCAGAATCG**ATG**GGAAGTGGACGGGCACGCCGCGGGCGGGGTGGGTGCAAGATGCCGCTGCCGGTTT
AGGTGTTTAACTTGCAGGGGGCCGTGGAGCCCATGCAGATCGACGTGGACCCCCAGGAAGACCCGCAGAATGCAC
CTGACGTCAACTACGTGGTGGAGAACCCCCAGCCTGGATCTGGAACAGTACGCGGCCAGCTACAGCGGCCTGATGC
GCATCGAACGGCTGCAGTTTATTGCTGATCACTGCCCCACGCTGCGGGTGGAGGCCCTGAAGATGGCCCTCTCCT
TCGTGCAGAGAACCTTTAACGTGGACATGTACGAGGAGATCCACCGCAAGCTCTCAGAGGCCACCAGGGAGCTGC
AGAACGCACCCGACGCCATCCCTGAGAGCGGCGTGGAGCCCCAGCCCTGGACACGGCCTGGGTGGAGGCCACGC
GGAAGAAGGCGCTGCTGAAGCTGGAGAAGCTGGACACAGACCTGAAGAACTACAAGGGCAACTCCATCAAAGAGA
GCATCCGGCGCGGCCACGACGACCTGGGCGACCACTACCTGGACTGTGGGGACCTCAGCAACGCCCTCAAGTGCT
ATTCCCGGGCCCGGGACTACTGCACCAGCGCCAAACACGTCATCAACATGTGCCTCAATGTATCAAGGTCAGCG
TCTACTTGCAGAATTGGTCTCATGTGCTCAGCTACGTGAGCAAGGCTGAGTCCACCCAGAGATTGCCGAGCAGC
GAGGAGAGCGTGACAGCCAGACCCAGGCCATCCTCACCAGCTCAAGTGTGCCGAGGCTTGGCAGAGCTGGCCG
CCAGGAAGTACAAGCAGGCTGCCAAGTGCCTCCTGCTGGCTTCCTTTGATCACTGTGACTTCCCTGAGCTGCTGT
CCCCCAGCAACGTGGCCATCTACGGTGGCCTGTGCGCCTTGGCTACCTTTGACCGGCAGGAGCTGCAGCGCAATG
TCATCTCCAGCAGCTCCTTCAAGTTGTTCTTGGAGCTGGAGCCACAGGTCCGAGACATCATCTTCAAATTCTACG
AGTCCAAGTACGCCTCATGTCTCAAGATGCTGGACGAGATGAAGGACAACCTGCTCCTGGACATGTATCTGGCCC
CCCATGTGAGGACCCTGTACACCCAGATTGCAACCGTGCCCTCATCCAGTATTTTACGCCCCCTACGTGTCAGCCG
ACATGCATAGGATGGCGGCAGCCTTCAATACCACGGTGGCCGCCCTGGAGGACGAGCTGACGCAGCTAATCCTGG
AGGGGCTGATCAGTGCCCGTGTGGACTCACACAGCAAGATCCTATACGCCCCGGGACGTGGATCAGCGCAGCACCA
CCTTTGAGAAGTCTCTGTTGATGGGCAAGGAGTTCCAGCGCCGCGCCAAGGCCATGATGCTGCGGGCAGCTGTGC
TCCGCAACCAGATCCATGTCAAGTCCCCGCCAGAGAAGGGAGCCAGGGGGAGCTGACTCCAGCCAACAGCCAGT
CCCGGATGAGCACCAACATG**TGAG**GGGTGAACCTTGGCCTCCAGGACATCTGCACCCCCCTCCCCACCTCCACGGA
CCTCGGACCTCCAGGCGGCTCAGTGCTGCCTGCGGCCAGCTAAGGGGCTGGCCACTGGGTGCCACCCAGCCTG
TGTGCCCTCCCTGGGGCTGAGGAGGCAGGCGGCTGCTAGTTGTGGCCCTTCTTGAAGGAGAGGCCTGCAGGGCT
CGACCCCTGTGGTTTTCTGTCCCCAGGGAGCAGACTGTGCGGCACCCAGGCCAGTGGCACCATTTCCAGACCCC
TCCTGTTCCCGCCTCAGTCAGGTGCAGACAAGTGGGCGGTGTCCATTAAAGAGCAGACTCAGCGTT

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FIGURE 5009

MEVDGTPRRGGCKMPLPVQVFNLQGAVEPMQIDVDPQEDPQNAPDVNYVVENPSLDLEQYAASYSGLMRIERLQF
IADHCPTLRVEALKMALSFVQRTFNVDMEYEEIHRKLSEATRELQNAPDAIPESGVEPPALDTAWVEATRKKALLK
LEKLDTDLKNYKGNISIKESIRRGHDDLGDHYLDCGDLNALKCYSRARDYCTSAKHVINMCLNVIKVSVYLQNWS
HVLSYVSKAESTPEIAEQRGERDSQTQAILTKLKCAAGLAELAARKYKQAAKCLLLASFDHCDFFPELLSPSNVAI
YGGICALATFDRQELQRNVISSSSFKLFLELEPQVRDIIFKFYESKYASCLKMLDEMKNLLLDMYLAPHVRTLY
TQIRNRALIQYFSPYVSADMRMAAAFNTTVALEDELTQLILEGLISARVDSHSHKILYARDVDQQRSTTFEKSLL
MGKEFQRRAKAMMLRAAVLRNQIHVKSPPREGSQGELTPANSQSRMSTNM

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FIGURE 5010A

ACGGCAGCGGCCCCGGCCTCCCTCTCCGCCGCGCTTCAGCCTCCCGCTCCGCCGCGCTCCAGCCTCGCTCTCCGC
CGCCCGCACCGCCGCCCGGCCCTCACCAGAGCAGCCATGGAGGAGGTGGTGATTGCCGGCATGTCCGGGAAGCT
GCCAGAGTCGGAGAACTTGAGGAGTTCTGGGACAACCTCATCGGCGGTGTGGACATGGTCACGGACGATGACCG
TCGCTGGAAGGCGGCTCTACGGCCTGCCCCGGCGTCCGGCAAGCTGAAGGACCTGTCTAGGTTTGATGCCTCCT
TCTTCGGAGTCCACCCCAAGCAGGCACACACGATGGACCCTCAGCTGCGGCTGCTGCTGGAAGTCACCTATGAAG
CCATCGTGGACGGAGGCATCAACCCAGATTCACTCCGAGGAACACACACTGGCGTCTGGGTGGGCGTGAGCGGCT
CTGAGACCTCGGAGGCCCTGAGCCGAGACCCCGAGACACTCGTGGGCTACAGCATGGTGGGCTGCCAGCGAGCGA
TGATGGCCAACCGGCTCTCCTTCTTCTTCGACTTCAGAGGGCCCAGCATCGCACTGGACACAGCCTGCTCCTCCA
GCCTGATGGCCCTGCAGAACGCCTACCAGGCCATCCACAGCGGGCAGTGCCCTGCCGCCATCGTGGGGGGCATCA
ATGTCCTGCTGAAGCCCAACACCTCCGTGCAGTTCTTGAGGCTGGGGATGCTCAGCCCCGAGGGCACCTGCAAGG
CCTTCGACACAGCGGGGAATGGGTACTGCCGCTCGGAGGGTGTGGTGGCCGTCCTGCTGACCAAGAAGTCCCTGG
CCCGGCGGGTGTACGCCACCATCCTGAACGCCGGCACCAATACAGATGGCTTCAAGGAGCAAGGCGTGACCTTCC
CCTCAGGGGATATCCAGGAGCAGCTCATCCGCTCGTTGTACCAGTCGGCCGGAGTGCCCCCTGAGTCATTTGAAT
ACATCGAAGCCACGGCACAGGCACCAAGGTGGGCGACCCCCAGGAGCTGAATGGCATCACCCGAGCCCTGTGCG
CCACCCGCCAGGAGCCGCTGCTCATCGGCTCCACCAAGTCCAACATGGGGCACCCGGAGCCAGCCTCGGGGGCTGG
CAGCCCTGGCCAAGGTGCTGCTGTCCCTGGAGCACGGGCTCTGGGCCCCCAACCTGCACCTCCATAGCCCCAACCC
CTGAGATCCCAGCGCTGTTGGATGGGCGGCTGCAGGTGGTGGACCAGCCCTGCCCGTCCGTGGCGGCAACGTGG
GCATCAACTCCTTTGGCTTCGGGGGCTCCAACGTGCACATCATCCTGAGGCCCAACACGCAGCCGCCCCCGCAC
CCGCCCCACATGCCACCCTGCCCCGTCTGCTGCGGGCCAGCGACGCACCCCTGAGGCCGTGCAGAAGCTGCTGG
AGCAGGGCCTCCGGCACAGCCAGGACCTGGCTTTCTTGAGCATGCTGAACGACATCGCGGCTGTCCCCGCCACCG
CCATGCCCTTCCGTGGCTACGCTGTGCTGGGTGGTGAAGCGGTGGCCAGAGGTGCAGCAGGTGCCCGCTGGCG
AGCGCCCGCTCTGGTTTCATCTGCTCTGGGATGGGCACACAGTGGCGCGGGATGGGGCTGAGCCTCATGCGCCTGG
ACCGCTTCCGAGATTCCATCCTACGCTCCGATGAGGCTGTGAAGCCATTGCGCCTGAAGGTGTCACAGCTGCTGC
TGAGCACAGACGAGAGCACCTTTGATGACATCGTCCATTGTTTGTGAGCCTGACTGCCATCCAGATAGGCCCTCA
TAGACCTGCTGAGCTGCATGGGGCTGAGGCCAGATGGCATCGTCGGCCACTCCCTGGGGGAGGTGGCCTGTGGCT
ACGCCGACGGCTGCCTGTCCCAGGAGGAGGCCGTCTCGCTGCCTACTGGAGGGGACAGTGTCATCAAAGAAGCCC
ATCTCCCGCCGGGCGCCATGGCAGCCGTGGGCTTGTCTGGGAGGAGTGTAACAGCGCTGCCCCCGGGCGTG
TGCCCGCTGCCACAACCTCAAAGGACACAGTACCATCTCGGGACCTCAGGCCCGGTGTTTGAGTTCGTGGAGC
AGCTGAGGAAGGAGGGTGTGTTTGCCAAGGAGGTGCGGACCGGCGGTATGGCCTTCCACTCCTACTTCATGGAGG
CCATCGCACCCCCACTGCTGCAGGAGCTCAAGAAGGTGATCCGGGAGCCGAAGCCACGTTAGCCCGCTGGCTCA
GCACCTCTATCCCCGAGGCCAGTGGCACAGCAGCCTGGCACGCACGTCTCCGCCGAGTACAATGTCAACAACC
TGGTGAGCCCTGTGCTGTTCCAGGAGGCCCTGTGGCACGTGCCTGAGCACGCGGTGGTGTGGAGATCGCGCCCC
ACGCCCTGCTGCAGGCTGTCTGAAGCGTGGCCTGAAGCCGAGCTGCACCATCATCCCCCTGATGAAGAAGGATC
ACAGGGACAACCTGGAGTTCTTCTGGCCGGCATCGGCAGGCTGCACCTCTCAGGCATCGACGCCAACCCCAATG
CCTTGTTCACCTGTGGAGTTCCAGCTCCCCGAGGAACTCCCTCATCTCCCCACTCATCAAGTGGGACCACA
GCCTGGCCTGGGACGTGCCGGCCGCCGAGGACTTCCCCAACGGTTCAGGTTCCCCCTCAGCCGCCATCTACAACA
TCGACACCAGCTCCGAGTCTCCTGACCACTACCTGGTGGACCACACCCTCGACGGTCGCGTCCCTCTTCCCCGCCA
CTGGCTACCTGAGCATAGTGTGGAAGACGCTGGCCCCGCGCCCTGGGCTGGGCGTCGAGCAGCTGCCTGTGGTGT
TTGAGGATGTGGTGTGCACCAGGCCACCATCCTGCCCAAGACTGGGACAGTGTCCCTGGAGGTACGGCTCCTGG
AGGCCTCCCGTGCCTTCGAGGTGTGAGAGAACGGCAACCTGGTAGTGAGTGGGAAGGTGTACCAAGTGGGATGACC
CTGACCCCAGGCTCTTCGACCACCCGAAAGCCCCACCCCAACCCACAGGAGCCCTCTTCTGGCCAGGCTG
AAGTTTACAAGGAGCTGCGTCTGCGTGGCTACGACTACGGCCCTCATTTCCAGGGCATCCTGGAGGCCAGCCTGG
AAGGTGACTCGGGGAGGCTGCTGTGGAAGGATAACTGGGTGAGCTTCATGGACACCATGCTGCAGATGTCCATCC
TGGGCTCGGCCAAGCACGGCCTGTACCTGCCCCACCGTGTACCGCCATCCACATCGACCCCTGCCACCCACAGGC
AGAAGCTGTACACACTGCAGGACAAGGCCCAAGTGGCTGACGTGGTGGTGAGCAGGTGGCTGAGGGTCACAGTGG
CCGGAGGCGTCCACATCTCCGGGCTCCACACTGAGTCGGCCCCGCGGCGGCAGCAGGAGCAGCAGGTGCCCATCC
TGGAGAAGTTTTGCTTCACTCCCCACACGGAGGAGGGGTGCCTGTCTGAGCGCGCTGCCCTGCAGGAGGAGCTGC
AACTGTGCAAGGGGCTGGTGCAGGCACTGCAGACCAAGGTGACCCAGCAGGGGCTGAAGATGGTGGTGCCCGGAC

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FIGURE 5010B

TGGATGGGGCCCAGATCCCCCGGGACCCCTCACAGCAGGAAGTGGCCCCGGCTGTTGTGCGGCTGCCTGCAGGCTTC
AGCTCAACGGGAACCTGCAGCTGGAGCTGGCGCAGGTGCTGGCCCAGGAGAGGGCCCAAGCTGCCAGAGGACCCTC
TGCTCAGCGGCCTCCTGGACTCCCCGGCACTCAAGGCCTGCCTGGACACTGCCGTGGAGAACATGCCCAGCCTGA
AGATGAAGGTGGTGGAGGTGCTGGCTGGCCACGGTCACCTGTATTCCCGCATCCCAGGCCTGCTCAGCCCCCATC
CCCTGCTGCAGCTGAGCTACACGGCCACCGACCGCCACCCCCAGGCCCTGGAGGCTGCCCAGGCCGAGCTGCAGC
AGCACGACGTTGCCCAGGGCCAGTGGGATCCCGCAGACCCCTGCCCCAGCGCCCTGGGCAGCGCCGACCTCCTGG
TGTGCAACTGTGCTGTGGCTGCCCTCGGGGACCCGGCCTCAGCTCTCAGCAACATGGTGGCTGCCCTGAGAGAAG
GGGGCTTTCTGCTCCTGCACACACTGCTCCGGGGGACCCCCCTCGGGGACATCGTGGCCTTCTCACCTCCACTG
AGCCGCAGTATGGCCAGGGCATCCTGAGCCAGGACGCGTGGGAGAGCCTCTTCTCCAGGGTGTGCTGCGCCTGG
TGGGCTGAAGAAGTCTTCTACGGCTCCACGCTCTTCTGTGCCGCCGGCCCCACCCCGCAGGACAGCCCCATCT
TCCTGCCGGTGGACGATAACCAGCTTCCGCTGGGTGGAGTCTCTGAAGGGCATCCTGGCTGACGAAGACTCTTCCC
GGCCTGTGTGGCTGAAGGCCATCAACTGTGCCACCTCGGGCGTGGTGGGCTTGGTGAAGTGTCTCCGCCGAGAGC
CCGGCGGGAACCGCCTCCGGTGTGTGCTGCTCTCCAACCTCAGCAGCACCTCCCACGTCCCGGAGGTGGACCCGG
GCTCCGCAGAAGTGCAGAAGGTGTTGCAGGGAGACCTGGTGATGAACGTCTACCGCGACGGGGCCTGGGGGGCTT
TCCGCCACTTCTGCTGGAGGAGGACAAGCCTGAGGAGCCGACGGCACATGCCTTTGTGAGCACCCCTACCCGGG
GGGACCTGTCTCCATCCGCTGGGTCTGCTCCTCGCTGCGCCATGCCAGCCACCTGCCCTGGCGCCCAGCTCT
GCACGGTCTACTACGCCTCCCTCAACTTCCGCGACATCATGCTGGCCACTGGCAAGCTGTCCCTGATGCCATCC
CAGGGAAGTGGACCTCCAGGACAGCCTGCTAGGTATGGAGTTCTCGGGCCGAGACGCCAGCGCAAGCGTGTGA
TGGGACTGGTGCCTGCCAAGGGCCTGGCCACCTCTGTCTGCTGTACCGGACTTCTCTGGGATGTGCCTTCCA
ACTGGACGCTGGAGGAGGCGGCCTCGGTGCCTGTGCTCTACAGCACGGCCTACTACGCGCTGGTGGTGCCTGGGC
GGGTGCGCCCCGGGGAGACGCTGCTCATCCACTCGGGCTCGGGCGGCGTGGGCCAGGCCGCCATCGCCATCGCCC
TCAGTCTGGGCTGCCGCGTCTTACACACCGTGGGGTCCGCTGAGAAGCGGGCGTACCTCCAGGCCAGGTTCCCC
AGCTCGACAGCACCAGCTTCGCCAACTCCCGGGACACATCCTTCGAGCAGCATGTGCTGTGGCACACGGGCGGGA
AGGGCGTTGACCTGGTCTTGAATCCTTGGCGGAAGAGAAGCTGCAGGCCAGCGTGAGGTGCTTGGCTACGCACG
GTCGCTTCTGGAAATTGGCAAATTCGACCTTCTCAGAACCACCCGCTCGGCATGGCTATCTTCTGAAGAAGC
TGACATTCCACGGGTCTTACTGGATGCGTCTTCAACGAGAGCAGTGTGCTGACTGGCGGGAGGTGTGGGCGCTTG
TGCAGGCCCGCATCCGGGATGGGGTGGTACGGCCCCCTCAAGTGCACGGTGTTCATGGGGCCAGGTGGAGGACG
CCTTCCGCTACATGGCCCAAGGGAAGCACATTGGCAAAGTCGTGCTGCAGGTGCTTGGCGAGGAGCCGGAGGCAG
TGCTGAAGGGGGCCAAACCCAAGCTGATGTGCGCCATCTCCAAGACCTTCTGCCCCGGCCCCACAAGAGCTACATCA
TCGCTGGTGGTCTGGGTGGCTTCGGCCTGGAGTTGGCGCAGTGGCTGATACAGCGTGGGGTGCAGAAGCTCGTGT
TGACTTCTCGCTCCGGGATCCGGACAGGCTACCAGGCCAAGCAGGTCCGCCGGTGGAGGCGCCAGGGCGTACAGG
TGCAGGTGTCCACCAGCAACATCAGCTCACTGGAGGGGGCCCGGGGCCCTCATTGCCGAGGCGGCGCAGCTTGGGC
CCGTGGGCGGCGTCTTCAACCTGGCCGTGGTCTTGAGAGATGGCTTGTGAGAGAACCAGACCCCAGAGTTCTTCC
AGGACGCTGCAAGCCCAAGTACAGCGGCACCCCTGAACCTGGACAGGGTGACCCGAGAGGCGTGCCCTGAGCTGG
ACTACTTTGTGGTCTTCTCCTCTGTGAGCTGCGGGCGTGGCAATGCGGGACAGAGCAACTACGGCTTTGCCAATT
CCGCCATGGAGCGTATCTGTGAGAAACGCCGGCACGAAGGCCTCCCAGGCCTGGCCGTGCAGTGGGGCGCCATCG
GCGACGTGGGCATTTTGGTGGAGACGATGAGCACCAACGACACGATCGTCAGTGGCACGCTGCCCCAGCGCATGG
CGTCTGCCTGGAGGTGCTGGACCTCTTCTGAACCAGCCCCACATGGTCTGAGCAGCTTTGTGCTGGCTGAGA
AGGCTGCGGCCTATAGGGACAGGGACAGCCAGCGGGACCTGGTGGAGGCCGTGGCACACATCCTGGGCATCCGCG
ACTTGGCTGCTGTCAACCTGGACAGCTCACTGGCGGACCTGGGCCTGGACTCGCTCATGAGCGTGGAGGTGCGCC
AGACGCTGGAGCGTGAGCTCAACCTGGTGTGCTGCTCGTGCAGGAGGTGCGGCAACTCACGCTCCGAAAAGTGCAGG
AGCTGTCTCAAAGGCGGATGAGGCCAGCGAGCTGGCATGCCCCACGCCCAAGGAGGATGGTCTGGCCCAGCAGC
AGACTCAGCTGAACCTGCGCTCCCTGCTGGTGAACCCGAGGGCCCCACCCTGATGCGGCTCAACTCCGTGCAGA
GCTCGGAGCGGCCCCCTGTTCTGGTGCACCCAATCGAGGGCTCCACCACCGTGTTCACAGCCTGGCTCCCGGC
TCAGCATCCCCACCTATGGCCTGCAGTGCACCCGAGCTGCGCCCCCTTGACAGCATCCACAGCCTGGCTGCCTACT
ACATCGACTGCATCAGGCAGGTGCAGCCCCAGGGCCCCCTACCGCGTGGCCGGCTACTCCTACGGGGCCTGCGTGG
CCTTTGAAATGTGCTCCAGCTGCAGGGCCAGCAGAGCCCAGCCCCACCCACAACAGCCTCTTCTGTTTCGACG
GCTCGCCACCTACGTACTGGCCTACACCCAGAGCTACCGGGCAAAGCTGACCCAGGCTGTGAGGCTGAGGCTG

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FIGURE 5010C

AGACGGAGGCCATATGCTTCTTCGTGCAGCAGTTCACGGACATGGAGCACAACAGGGTGCTGGAGGCGCTGCTGC
CGCTGAAGGGCCTAGAGGAGCGTGTGGCAGCCGCCGTGGACCTGATCATCAAGAGCCACCAGGGCCTGGACCGCC
AGGAGCTGAGCTTTGCGGCCCCGGTCCTTCTACTACAAGCTGCGTGCCGCTGAGCAGTACACACCCAAGGCCAAGT
ACCATGGCAACGTGATGCTACTGCGCGCCAAGACGGGTGGCGCCTACGGCGAGGACCTGGGCGCGGACTACAACC
TCTCCCAGGTATGCGACGGGAAAGTATCCGTCCACGTATCGAGGGTGACCACCGCACGCTGCTGGAGGGCAGCG
GCCTGGAGTCCATCATCAGCATCATCCACAGCTCCCTGGCTGAGCCACGCGTGAGCGTGCGGGAGGGCTAGGCCC
GTGCCCCCGCCTGCCACCGGAGGTCACTCCACCATCCCCACCCACCCACCCACCCCGCCATGCAACGGGAT
TGAAGGGTCCCTGCCGGTGGGACCCTGTCCGGCCCAGTGCCACTGCCCCCGAGGCTGCTAGATGTAGGTGTTAGG
CATGTCCCACCCACCCGCCGCTCCACGGCACCTCGGGGACACCAGAGCTGCCGACTTGGAGACTCCTGGTCTG
TGAAGAGCCGGTGGTGCCCGTGCCCGCAGGAAGTGGGCTGGGCCTCGTGCGCCCGTGGGGTCTGCGCTTGGTCTT
TCTGTGCTTGGATTTGCATATTTATTGCATTGCTGGTAGAGACCCCCAGGCCTGTCCACCCTGCCAAGACTCCTC
AGGCAGCGTGTGGGTCCCGCACTCTGCCCCCATTTCCCCGATGTCCCCTGCGGGCGCGGGCAGCCACCCAAGCCT
GCTGGCTGCGGCCCCCTCTCGGCCAGGCATTGGCTCAGCCCGCTGAGTGGGGGTGCTGGGCCAGTCCCCGAGGA
GCTGGGCCCCCTGCACAGGCACACAGGGCCCCGGCCACACCCAGCGGCCCCCGCACAGCCACCCGTGGGGTGCTGC
CCTTATGCCCGGCGCCGGGCACCAACTCCATGTTTGGTGTGTTGTCTGTGTTTGTGTTTTTCAAGAAATGATTCAAAT
TGCTGCTTGGATTTTGAAATTTACTGTAAGTGTGAGTGACACGTCTGGACCCCGTTTCATTTTTTACACCAATTT
GGTAAAAATGCTGCTCTCAGCCTCCCACAATTAAACCGCATGTGATCTCC

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FIGURE 5011

CAGGGAGTGCCTGCAGCACCCCGGCGGGGCCACCCAGTCTGCGTGTACACGAGGGATGAGGTGACGGGTGAAGC
TGCCCTGCGGGGCACGACGCTGCAGTCGCTGGGCCTGACCGGGGGCAGCGCCACCATCAGGTTTGTCTG**ATGA**AAGT
CTACGACCCCGTGGGCAAGACCCAGGAAGCCTGGGCTCGTCAGCGTCGGCTGGCCAGGCAGCCGCCAGCGCTCC
ACTTCCCTTGGAATCTGGGGAGCTCAGCCGCGGCGACTTGAGCCGTCCGGAGGACGCGGACACCTCAGGGCCCTG
CTGCGAGCACACTCAGGAGAAGCAGAGCACAAAGGGCACCCGCAGCTGCCCCCTTTGTTCCCTTTCTCGGGTGGGGG
ACAGAGACTGGGGGGCCCTCCTGGGCCCACGAGGCCTCTGACATCATCTTCAGCTAAGTTGCCGAAGTCCCTCTC
CAGCCCTGGAGGGCCCTCCAAGCCAAAGAAGTCCAAGTCGGGGCCAGGATCCCCAGCAGGAGCAGGAGCAGGAGCG
GGAGCGGGATCCCCAGCAGGAGCAGGAGCGGGAGCGGGCCCGTGGACCGGGAGCCCGTGGACCGGGAGCCGGTGGT
GTGCCACCCCGACCTGGAGGAGCGGCTGCAGGCCTGGCCAGCGGAGCTGCCTGATGAGTTCTTTGAGCTGACGGT
GGACGACGTGAGAAGACGCTTGGCCCAGCTCAAGAGTGAGCGGAAGCGCCTGGAAGAAGCCCCCTTGGTGACCAA
GGCCTTCAGGGAGGCGCAGATAAAGGAGAAGCTGGAGCGCTACCCAAAGGTGGCTCTGAGGGTCTGTTCCTCCGA
CCGCTACGTCTTACAGGGCTTCTTCCGCCCCAGCGAGACAGGTGGGGGACTTGCGAGACTTCGTGAGGAGCCACC
TGGGGAACCCCGAGCTGTCAATTTTACCTGTTTCATCACCCCTCCAAAAACAGTCCTGGACGACCACACGCAGACCC
TCTTTCAGGCGAACCTCTTCCCGCCGCTCTGGTGCACCTTGGGAGCCGAAGAGCCGGCAGGTGTCTACCTGGAGC
CTGGCCCTGCTGGAGCATGCCATCTCCCCATCTGCGGCCGATGTGCTGGTGGCCAGGTACATGTCCAGGGCCGCCG
GGTCCCCCTTCCCCATTGCCAGCCCC**TGAC**CCCTGCACCTAAGTCTGAGCCAGCTGCTGAGGAGGGGGCGCTGGTCC
CCCCTGAGCCCATCCAGGGACGGCCAGCCCGTGAAGAGGAGCCTGGGCAAGGTGCCCAAGTGGCTGAAGCTGC
CGGCCAGCAAGAGGTGAGAGCTGCCAGCCTGAGGTGCCCACTCCGCCAGCCACAGGACCACCTCCTCTGCCAGCA
GGAATAAAGACTTGTGCATCCCTC

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FIGURE 5012

MKCYDPVGKTPGSLGSSASAGQAAASAPLPLESGELSRGDLSPEDADTSGPCCEHTQEKQSTRAPAAAPFVPFS
GGGQRLGGPPGPTRPLTSSSAKLPKSLSSPGGPSKPKKSKSGQDPQQEQEQERERDPQQEQERERFPVDRE
PVDRE
PVVCHPDLEERLQAWPAELPDEFFELTVDDVRRRLAQLKSERKRLEEAPLVTKAFREAQIKEKLEYPKVALRVL
FPDRYVLQGFFRPSETGGGLARLREEPPGEPRAVILPVHHPSKNSPGRPHADPLSGEPLPGRSGALGSRRAGRCL
PGAWPAGACHLPICGRCAGGQVHVQGRRVPFFIASP

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FIGURE 5013

GACCCCTCCTCCTGTAGAGAGTGGTGCTGCCCTCTCGGGATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGC
CTCCATCTGAAGAGGGCTCCAGGCATCCGGTCCCTGGTCCCTGCTGGTTGGAATCTTGTGCGATTGGCCTGGCTGCT
GCCTACTACAGCGGAGATAGCCTGGGCTGGAAGCTCTTCTACGTCACAGGCTGCCTGTTTGTGGCTGTGCAGAAC
TTGGAGGACTGGGAGGAAGCCATCTTCGACAAGAGCACAGGGAAGGTTGTTTTGAAGACGTTACGCCTCTACAAG
AAGCTGCTGACTCTTTTTCAGAGCTGGCCACGACCAGGTGGTGGTCTGCTCCATGATGTCCGTGATGTGAGCGTG
GAGGAGGAGAAGGTCCGGTACTTCGGGAAAGGCTACATGGTGGTGTCTCCGGCTTGCGACGGGCTTCTCCACCCC
CTCACGCAGAGTGCAGTCATGGGCCACCGCAGTGATGTGGAAGCATCGCCAAGCTCATCACCAGCTTCCTGGAGC
TGCACTGCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGGCCGGTGACCCTGCAAGCCAGAGCT
GACAGCCCCACTGTGCCTGAGCCCGTGACCCGCCACAGGACCCATGGCACATTCCCGGTGTGCCTGAGCCCGTG
CACCGCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCCGCCACAGGACCCGTGGCACATT
CCCGGTGTGCCTGAGCCCGTGACCCGCCACAGGACCCGTGGCACATTCCCGGTGTGCCTGAGCCCGTGACCCGC
CCACAGGACCCGTGGCCTTGGCTTCAGTTGGTGCCTCCAGCCGAGTTGGCCTATTGCCTGCTCATGCTGCTGCTT
GCACACTGCATGAAACAGCAGGCCAGACCAGGACATCCAGACTTTCTCCATCGTGAGGCCTGGGCCTGCCTTTCT
GCAGCCGGAGGTCTCGCCAGCCCTGGACTCCTGCTTTGGGCCACAGCAAGACCTCGGGCGAGTGGAGAGGCGGGG
CCAGGCCGGGCCCTTGTGGGTGCTGATGCTGCATGTTGTCCCCGACACAGCGTCCTCTCCCTGGTGGACATCCCC
AGCGGTCAGGTGCTTCCCCAAGGGCAGTGAGGGGTGAACATCCAGGGCCTACCTGGCTGTGCACGCTGCAGCCAC
ACTGTGGAAGCTGCCCCCTCCCGAGGACCCGCCCTCCCTTGCTGATGCCAGGATCTCAGCGCATAGACCACTCTGC
CCCAGCGGTCGTACAGAAAGGTCTCTCTGTTCCCTCACACTCAGCTTCAGCATAAGCTGTGAGGCCAGAAAAAG
GTCAGCTCTTCTAGTATCGTGCAGTGCTTAAAAACCGGGAGCTCCAGCCGGGCGCAGTGGTTCATGCCAGTAATC
CCAGCACTTTCGGAGGCCGAGGTGGGAGGATTGCTTGAGGCCAGGAGTTCAAGACCAGCCTGGGCAACACAGCAA
GATCCTGTCTTTGTAAAAAACTAACCAAACAGGAAAACTGGGAGATTTTCTGCAGAAATTGAGTTCCAGCCTC
TCTCGAACCTGGGAAGACCTGGCAGGAGGGGGCTGGGCTCTCGGCTACAGACTTCTCCCCACCCCGTAGGAGCTG
AACGCCAACCATCCTGACCCGCCAGTGCTCTTGGTCTCCTGAGTGTACCCAGGTCTCCAGGTGCGGTGTGCAC
CGAGCGCGCTGGCCTGATGCCCTGGCCTGTGAGCTGGGGACTCCTGGGCCCTGTGAGCCCCTAGGCGCAGGCCC
AGGAATGGCTGGGTAGGACAGGGAACACCTTTGCCCCACGTCTGGCTGTGACCTCGGTGAAAGCCGACAGGAGAG
AGATGGACCCCTCCTCCTCAGTAGTGGCTGCCAGTCCCTCGTTGCAGGACAGGGTCATCATAACCATAAATAACCC
TTCACGTGTC

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FIGURE 5014

GCCTCGGGGGAGGACAACAAAGGGCCGCGGGCGGGCAGTGGTGTCCCAGTCTCCCGGTGCTTCCCTGAGGCT
GAGGCGCCCGGCCTCCCGCCCGCGCTCCAGATGAAGTGTGAGCACTGCACGCGCAAGGAATGTAGTAAGAAA
ACAAAAACTGATGACCAAGAGAATGTGTGAGCCGATGCACCGAGTCCAGCCCAGGAAAATGGAGAGAAGGGAGAA
TTCCACAAGTTGGCTGATGCCAAGATATTTTTGAGCGACTGCCTGGCATGTGACAGCTGTATGACTGCAGAGGAA
GGAGTCCAACTTTTCCAGCAAAATGCCAAGGACTTCTTCCGCGTTCTGAACCTTAACAAGAAATGTGATACCTCA
AAGCACAAAGTGTGGTAGTGTCTGTGTGTCTCAATCTTTGCCTTATTTTGCTGTAAATTCAACCTCAGTGTA
ACTGATGCATCCAGAAGACTCTGTGGTTTTCTCAAAAGTCTTGGGGTGCACTATGTATTTGATACGACGATAGCT
GCGGATTTTAGTATCCTGGAGAGTCAAAAAGAATTCGTGCGTCGCTATCGCCAGCACAGTGAGGAGGAACGCACC
CTGCCCATGCTGACCTCTGCCTGTCTGGCTGGGTCCGATACGCCGAGCGGGTGCTGGGTGCGCCCCATCACTGCC
CACCTCTGCACCGCCAAGTCCCCCAGCAGGTCAATGGGCTCTTTGGTGAAGGATTATTTGCCCAGACAGCAGAAC
CTGTCTCCAGAGAAGATTTTCCACGTCAATTGTGGCCCCCTTGTTATGACAAGAAGCTGGAGGCTCTTCAGGAAAGC
CTTCCCCCTGCTTTGCATGGCTCCCGGGGCGCTGACTGCGTGTTAACATCAGAAATTAGCCAGGCGTGGTGGTGC
ACACCTGTGATCACAGCTACTCGGGAGGCTGCGGCAAGAGAATCACTTGAACCCGGGAGGCAGAGGTTACAGCGA
GACAAGATTGCACCCTGGACTCCAGCCTGGGCGGCGGAGGTGAAATTGCTCAAATAATGGAGCAAGGTGACCTC
TCAGTGAGAGATGCTGCCGTCGACACTCTGTTTGGAGACTTGAAGGAGGACAAAGTGACGCGTCATGATGGAGCC
AGCTCAGACGGGCACCTGGCACACATCTTCAGACATGCGGCCAAGGAGCTGTTCAACGAGGATGTGGAGGAGGTC
ACTTACCGAGCCCTGAGAAACAAAGACTTCCAAGAGGTCACCCCTTGAGAAGAACGGAGAGGTGGTGTACGCTTT
GCTGCAGCCTATGGCTTTTCGAAACATCCAGAACATGATCCTGAAGCTTAAGAAGGGCAAGTTCCCATTTCACTTT
GTGGAGGTCTCTCGCTGTGCTGGAGGATGCTTAAATGGCAGAGGCCAAGCCCAGACTCCAGACGGACATGCGGAT
AAGGCCCTGCTGCGGCAGATGGAAGGCATTTACGCTGACATCCCTGTGCGGCGTCCGGAGTCCAGTGACACAGTG
CAGGAGCTGTACCAGGAGTGGCTGGAGGGGATCAACTCCCCAAGGCCCGAGAGGTGCTGCATACCACGTACCAG
AGCCAGGAGCGTGGCACACACAGCCTGGACATCAAGTGGTGAAGTCAGGCCAGGGCCTTCAGCTGCTCTTGGGG
CCAGAGCCAAGAGCCTCTCAGTAGAGGGAGGGGCTGCCCTGAGTGGAGTATTAAAGACACTTAAGAAAACCGCTC
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5015

MKCEHCTRKECSKKTKTDDQENV SADAPSPAQENGEKGEFHKLADAKIFLSDCLACDSCMTAE EGVQLSQQNAKD
FFRVNLNLNKKCDTSKHKVLVSVCPQSLPYFAAKFNLSVTDASRRLCGFLKSLGVHYVFDTTIAADFSILESQKE
FVRRYRQHSEEERTLPMLTSACPGWVRYAERVLGRPITAHLC TAKSPQQVMGSLVKDYFARQQNLSPEKIFHVIV
APCYDKKLEALQESLPPALHGSRGADCVL TSEISQAWWCTPVITATREAAARESLEPGRQRLQRDKIAPLDSSLG
GGGEIAQIMEQQGDL\$VRDAAVDTLFGDLKEDKVTRHDGASSDGH LAHIFRHA AKELFNEDVEEV TYRALRNKDFQ
EVTLEKNGEVVLRFAAAYGFRNIQNMILKLKKGKFPFHFVEVLACAGGCLNGRGQAQTPDGHADKALLRQMEGIY
ADIPVRRPESSAHVQELYQEWLEGINS PKAREVLHTTYQSQERGTHSLDIKW

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FIGURE 5016

CGTCAAGCTTGGCACGAGGCCATGGAGCAGCTGCTGCGCGCCGAGCTGCGCACCGCGACCCCTGCGGGCCTTCGGC
GGCCCCGGCGCCGGCTGCATCAGCGAGGGCCGAGCCTACGACACGGACGCAGGCCCAGTGTTCTGTCAAAGTCAAC
CGCAGGACGCAGGCCCCGGCAGATGTTTGAGGGGGAGGTGGCCAGCCTGGAGGCCCTCCGGAGCACGGGCCTGGTG
CGGGTGCCGAGGCCCATGAAGGTCATCGACCTGCCGGGAGGTGGGGCCGCCTTTGTGATGGAGCATTTGAAGATG
AAGAGCTTGAGCAGTCAAGCATCAAACTTGGAGAGCAGATGGCAGATTTGCATCTTTACAACCAGAAGCTCAGG
GAGAAGTTGAAGGAGGAGGAGAACACAGTGGGCCGAAGAGGTGAGGGTGCTGAGCCTCAGTATGTGGACAAGTTC
GGCTTCCACACGGTGACGTGCTGCGGCTTCATCCCGCAGGTGAATGAGTGGCAGGATGACTGGCCGACCTTTTTTC
GCCCCGGCACCGGCTCCAGGCGCAGCTGGACCTCATTGAGAAGGACTATGCTGACCGAGAGGCACGAGAAGCTCTGG
TCCCCGGCTACAGGTGAAGATCCCGGATCTGTTTTGTGGCCTAGAGATTGTCCCCGCGTTGCTCCACGGGGATCTC
TGGTCGGGAAACGTGGCTGAGGACGACGTGGGGCCCATTATTTACGACCCGGCTTCCTTCTATGGCCATTCCGAG
TTTGAAGTGGCAATCGCCTTGATGTTTGGGGGGTTCCCCAGATCCTTCTTCACCGCCTACCACCGGAAGATCCCC
AAGGCTCCGGGCTTCGACCAGCGGCTGCTGCTCTACCAGCTGTTTAACTACCTGAACCACTGGAACCACTTCGGG
CGGGAGTACAGGAGCCCTTCCTTGGGCACCATGCGAAGGCTGCTCAAGTAGCGGCCCTGCCCTCCCTTCCCCTG
TCCCCGTCCCCGT

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FIGURE 5017

MEQLLRAELRTATLRAFGGPGAGCISEGRAYD TDAGPVFVKVNRRTQARQMFEGEVASLEALRSTGLVRVPRPMK
VIDLPGGGA AFVMEHLKMKSLSSQASKLGEQMA DLHLYNQKLREKLKEEENTVGRRGEGAEPQYVDKFGFHTVTC
CGFIPQVNEWQDDWPTFFARHRLQAQLDLIEKDYADREARELWSRLQVKIPDLFCGLEIVPALLHGDLWSGNVAE
DDVGPIIYDPASFYGHSEFELAIALMFGGFPRSF FTAYHRKIPKAPGFDQRLLLYQLFNYLNHWNHFGREYRSPS
LGTMRRLK

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FIGURE 5018

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCCAGGGC
ACCTTCAAACCTGAACCTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGAACGTGATG
TTCTCTTCCCGGGGTACACCCATTTGCAGAGGGCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCCG
TGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCCTGCCCCCTGGGGAGGTGGG
GCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCTC
AACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCCTGTTCTGGGCTTTCGCTGTGCATGACCCAT
CTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTAC
AGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCGT
GTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGAG
GACAAGGAAGCTGTGTTTGAAGTGTGAGACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTACG
CTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCTATTACCTG
GTCCGCAAAGGGATGCCATTCCGCCAGGCCCACGAGGCCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGGG
GTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGTG
TGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCCGACTGGCAGATC
CGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCTCTCCACACCTGCCCCCTAATAAAGTGGGCGCG
AG

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FIGURE 5019

GCGGACCCAGAGAGCCCTGAGCAGCCCCGCCGCTGCCGGCCTAGTTACCGTCATACCACGGGAGGAGCCGCAGC
TGCCGCAGCCGGCCCCAGTCTCCATCACCGCAACCAATGAGCAGCAAGGCCGAGACCCAGCAGCCACCCGCCGCC
CCCCGCTTTCCCCCACCAGCCCCCTCCCGTCCCCCGCCGCCGCCCTCAGCGCCGCCGACACCAAGCCCGG
CACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCTCACATCGGCGGCGCCTGCCAGCGTGGACAAGAA
GGTCATCGCAGTGAAGGTTTTGGGAACAGTAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAA
TGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAATAACCCCAGGAAGTACCTTCGCAGTGTAGG
AGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGGTGCGGAGGCAGCAAATGTTACAGATCCTGG
TGGTGTTCAGTTCAAGGCAGTAAATATGCAGCAGATCGTAACCATTATAGACGCTATCCACGTCATAGGGGTCC
TCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGAAAAGACCGAGGGATCGGAGAATGCTCCCGA
AGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCACCTTACTACATGTGGAGACCCTGTGGGTG
TCGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCCAGGAGAACA
AGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTCCTTGCCAAAGACA
GCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAGACCCAGGGTCAGCAGCCACCTCAACGTCGG
TACCGCAGCAACTTCAATTACCAACGCAGATGCCAGAAAAACCCTAAATCACAAGATGGCAAAGAGACAAAATCA
GCCAATCCACCAGCTGAGAATTCTGTCTGCTCCCGAGGCTGAGCAGGGCGGGGCTGAGTAAATGCCGGCTTACCAT
CTCTACCATCATCCGTTTTAGTCATCCAACAAGAAGAAATATGAAATTCCAGCAATAAGAAATGAACAAAAGATT
GGAGCTGAAGACCTTAAGTGCTTGCTTTTTTGCCGTTGACCAGATAAATAGAACTATCTGCATTATCTATGCAGC
ATGGGGTTTTTATTATTTTTACCTAAATATGTCTCTTTTTGGTAATAACAAACGTGTTTTTTTTAAAAAGCCTTG
TTTTTCTCAATACGCCTTTAAAGTTTTTAAATTGTTTCATATCTGGTCAAGATGAGATTTTTAAGCACTTTATT
TTTAATTTGTAATAAAAGTTTACAACCTTGATTTTTTCAAAAAAGTCAACAACTGCAAGCACCTGTTAATAAAGG
TCTTAAATAATAATAATAAAAA

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FIGURE 5020

CCGCGCCACTTGGCCTGCCTCCGTCCCCGCCGCGCCACTTCGCCTGCCTCCGTCCCCCGCCCGCCGCGCCATGCCT
GTGGCCGGCTCGGAGCTGCCGCGCCGGCCCTTGCCCCCGCCGCACAGGAGCGGGACGCCGAGCCGCGTCCGCCG
CACGGGGAGCTGCAGTACCTGGGGCAGATCCAACACATCCTCCGCTGCGGCGTCAGGAAGGACGACCGCACGGGC
ACCGGCACCCTGTCGGTATTTCGGCATGCAGGCGCGCTACAGCCTGAGAGATGAATTCCTCTGCTGACAACCAA
CGTGTGTTCTGGAAGGGTGTGTTTGGAGGAGTTGCTGTGGTTTATCAAGGGATCCACAAATGCTAAAGAGCTGTCT
TCCAAGGGAGTGAAAATCTGGGATGCCAATGGATCCCGAGACTTTTTGGACAGCCTGGGATTCTCCACCAGAGAA
GAAGGGGACTTGGGCCCAGTTTATGGCTTCCAGTGGAGGCATTTTGGGGCAGAATACAGAGATATGGAATCAGAT
TATTCAGGACAGGGAGTTGACCAACTGCAAAGAGTGATTGACACCATCAAAACCAACCCTGACGACAGAAGAATC
ATCATGTGCGCTTGAATCCAAGAGATCTTCCTCTGATGGCGCTGCCTCCATGCCATGCCCTCTGCCAGTTCTAT
GTGGTGAACAGTGAGCTGTCTGCCAGCTGTACCAGAGATCGGGAGACATGGGCCTCGGTGTGCCTTTCAACATC
GCCAGCTACGCCCTGCTCACGTACATGATTGCGCACATCACGGGCCTGAAGCCAGGTGACTTTATACACACTTTG
GGAGATGCACATATTTACCTGAATCACATCGAGCCACTGAAAATTCAGCTTCAGCGAGAACCCAGACCTTTCCCA
AAGCTCAGGATTCTTCGAAAAGTTGAGAAAATTGATGACTTCAAAGCTGAAGACTTTCAGATTGAAGGGTACAAT
CCGCATCCAACCTATTAATAATGGAAATGGCTGTTTAGGGTGCTTTCAAAGGAGCTCGAAGGATATTGTCAGTCTTT
AGGGGTGGGCTGGATGCCGAGGTAAAAGTTCTTTTGCTCTAAAAGAAAAAGGAAGTAAAGTCAAAAAATCTGTCC
GTGACCTATCAGTTATTAATTTTAAAGGATGTTGCCACTGGCAAATGTAAGTGTGCCAGTTCTTTCCATAATAAA
AGGCTTTGAGTTAACTCACTGAGGGTATCTGACAATGCTGAGGTTATGAACAAAGTGAGGAGAATGAAATGTATG
TGCTCTTAGCAAAAACATGTATGTGCATTTCAATCCACGTACTTATAAAGAAGGTTGGTGAATTTACAAGCTA
TTTTTGGAATATTTTGAATATTTTAAAGATTTCAACAAGCTATTCCTCAAATCTGAGGGAGCTGAGTAACACC
ATCGATCATGATGTAGAGTGTGGTTATGAACCTTAAAGTTATAGTTGTTTTATATGTTGCTATAATAAAGAAGTG
TTCTGC

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FIGURE 5021

TAAAAACAGGGAATGACTCTACTAATGATGGGGTCAGCAGATGCTCTTCCAGAAGAACCCTCAGCCAAAACCTGTC
TTCGTAGAAGACATGACAGAAGAACAGTTAGCATCTGCTATGGAGTTACCATGTGGATTGACAAACCTTGGTAAC
ACTTGTTACATGAATGCCACAGTTCAGTGTATTTCGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCA
GGTGCCCTTGAGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTTGTTTGATTCC
ATGGATAAAACCTTCTTCCAGTATTCCACCTATTATTCTACTGCAGTTTTTGCACATGGCTTTCCACAGTTTGCC
GAGAAAGGTGAACAAGGACAGTATCTTCAACAGGATGCTAATGAATGTTGGATACAAATGATGCGAGTATTGCAA
CAGAAATTGGAAGCAATAGAGGATGATTCTGTAAAGAGACAGACTCCTCATCTGCATCGGCAGCGACACCTTCT
AAAAAGAAAAGTTTAAATCGATCAGTTCTTCGGTGTTGAGTTTGAAACTACCATGAAATGTACAGAATCTGAAGAA
GAAGAAGTCACCAAAGGAAAGGAAAATCAACTTCAGCTTAGCTGTTTTATCAATCAGGAAGTCAAGTATCTTTTT
ACAGGACTTAAATTGCGACTTCAGGAAGAAAATCACCAAACAGTCTCCAACGTTGCAAAGAAATGCCTTGTATATC
AAATCTTCCAAGATCAGCCGGCTGCCTGCTTACTTGACCATTTCAGATGGTTTCGATTTTTTTATAAAGAGAAGGAA
TCTGTGAATGCCAAAGTTCTTAAGGATGTTAAATTTCTCTTATGTTGGATATGTATGAACTGTGTACACCAGAA
CTTCAAGAGAAAAATGGTGTCTTTTCGATCCAAATTCAGGATCTAGAAGATAAAAAAGTGAATCAGCAGCCAAAT
ACAAGTGACAAAAAGAGTAGTCCCCAGAAAGAAGTTAAGTATGAACCTTTTTCTTTTGCTGATGATATTGGCTCC
AATAATTGTGGATACTATGACTTACAAGCAGTACTAACACACCAGGGAAGGTCTAGTTCTTCAGGTCATTATGTA
TCATGGGTGAAAAGGAAACAAGATGAATGGATTAAAGTTTGATGATGACAAAGTCAGCATCGTAACACCAGAAGAT
ATCTTACGGCTTTCTGGTGGTGGAGACTGGCATATCGCTTACGTTCTACTCTATGGGCCTCGCAGAGTTGAAATA
ATGGAAGAGGAAAGTGAACAGTAATCTTCATTTTAGTATTTATGCTTAGATGTGAAATAAATGTTATTTGTTGA
TCATTTCTATAATCCAGAGCTTTAGAGGAAGACACATAGGTGGGTTTATGTTTCACCTCATTGGAACAAAAGAG
GACAGAAGCAGACCCTCTGTGCACCAACCTAAAAAATTACAGAGAAGAGAAAATTATCTTTGGATTGTGCTGCC
CTATATAAAGGTGGCAGAAAGACATTTTTTAAAAAGCTTATTATTTCTTGCATTATTTTAAAAAGTTCAGAGTTGA
AATGCCCTTCAACCATTTCTTCTGTGGTCATTTTTCTTGCTGCCTTTTTACCCAAGATTTCAGCAGTCAGATGT
TTACTGCACACCTATTACCTATTATTTGCTGTTCTTGATGGTTCAAACCACCATTCGTAGCCACCCATCCTTT
GCCTTATCTAACAAACATTTTTCCAGGAAGGTGGAAGGAAGTGTGCTCTCATTGTGTGACTCAGTGCTGCTG
TCCATCCCATGGAAACATGGGCACAATCAAGTATTTGTCCAGCCTATTGCAGGCTTTTCTGACTTTAAAAATAAA
TTGTGATCAATAATAGTACCTTTGATTATACATTTATTATTGTGTCTCTCTCTGATGTACTGTGGATTGTACATT
TAACTTTGGAATGGCTTTGTAATAATCAGTCTTAAGAAAATGTTGACAAGCTCTGGTTGCTTATTTTTAGAAAAT
GAGGACATTTAATAATAATAAAAAAAGGGATTAATAGCTTTTGACCTCAAGTCTTTTGTCTTCTGAGTGTGG
AGCTTGGCTGAAGACATGTTTAATACTGTACAATTTCTGAAGATGGTTATTAACACTGTGCTGTTAAGCATCCAT
TTAAAAATATGTTATCTTCTTTGCCTGCC

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FIGURE 5022

GGTATTCAGGAAGGAACACAATGTACCAAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTATAC
ATTTTGTGTGCCTTGCTAACAATCACAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTCACA
GGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAGTGACCTGAAAAAATTAGGT
GACCAAACCTGGGAAGAAAGCTATCAGCACCAACTCAGAACTCTCCACCTTCAGATCAGACATTCTAGATCTCCGT
CAGCAACTTCGTGAGATTACAGAAAAAACAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGGGAT
GCTCTGGTGGACAGGCAGAGTCAATTGAAAGAACTTTGGAGAATAACTCTTTCTCATCACCCTGTAAACAAA
ACCTCCAGGCGTATAATGGCTATGTCACGAATCTGCAGCAAGATACCAGCGTGCTCCAGGGCAATCTGCAGAAC
CAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAACCTC
ATCAGCAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAAATCTG
CAGCAGGTTTTTTCTTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAAGTGCAGAGCTTGCAGACGCTGGCT
GCCAACAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATTACACA
GGTCAGATGGAGAACATCACCCTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACACAAA
GATGCAGAGAATAGAACAGCCATCAAGTTCAACCAACTGGAGGAACGCTTCCAGCTCTTTGAGACGGATATTGTG
AACATCATTAGCAATATCAGTTACACAGCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGGACC
ACTTGCACAGATACCCTTACCAAACACACAGATGATCTGACCTCCTTGAATAATACCCTGGCCAACATCCGTTTG
GATTCTGTTTCTCTCAGGATGCAACAAGATTTGATGAGGTCGAGGTTAGACACTGAAGTAGCCAACCTTATCAGTG
ATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGTCCA
CCGGGCCCCAGGGGTCCAAGAGGTGACAGAGGATCCCAGGGACCCCCTGGCCCAACTGGCAACAAGGGACAGAAA
GGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGCTGGTCCCCCGGA
GAGCGTGGCGGCAAAGGATCTAAAGGCTCCCAGGGCCCCCAAAGGCTCCCGTGTTCCCCTGGGAAGCCCCGGCCCT
CAGGGCTCCAGTGGGGACCCAGGCCCCCGGGCCCCACCAGGCAAAGAGGGACTCCCCGGCCCTCAGGGCCCTCCT
GGCTTCCAGGGACTTCAGGGCACCGTTGGGGAGCCTGGGGTGCTTGACCTCGGGGACTGCCAGGCTTGCTGGG
GTACCAGGCATGCCAGGCCCCAAGGGCCCCCGGGCCCTCCTGGCCCATCAGGAGCGGTGGTGCCTGGGCTGC
AGAATGAGCAACCCCAGCACCGGAGGACAATGGCTGCCCCGCTCACTGGAAGAATTCACAGACAAATGCTACTA
TTTTTCAGTTGAGAAAGAAATTTTTGAGGATGCAAAGCTTTTCTGTGAAGACAAGTCTTCACATCTTGTTTCAT
AAACACTAGAGAGGAACAGCAATGGATAAAAAAACAGATGGTAGGGAGAGAGGCCACTGGATCGGCCTCACAGA
CTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGACTACAAAATTGAAAGCTGGACAGCC
GGATAACTGGGGTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTTGATTTATGCTGGGCAGTGGAACGATTT
CCAATGTGAAGACGTCAATAACTTCATTTGCGAAAAAGACAGGGAGACAGTACTGTCATCTGCATTATAACGGAC
TGTGATGGGATCACATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACACTCCTTTCTAATTGCATCACCTTCTC
ATCAGATTGAAAAAAAAAAGCACTGAAAACCAATTACTGAAAAAAAAATTGACAGCTAGTGTTTTTTACCATCCG
TCATTACCCAAAGACTTGGGAACATAAATGTTCCCCAGGGTGATATGCTGATTTTCATTGTGCACATGGACTGAA
TCACATAGATTCTCCTCCGTCAGTAACCGTGCGATTATACAAATTATGTCTTCCAAAGTATGGAACACTCCAATC
AGAAAAAGGTTATCATTGGTCGTTGAGTTATGGGAAGAACTTAAGCATATACTGTGTAAACAGTGCCATACATTT
CTAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGCCAACTATTAGTAATAATATGAAATAT
ACTTAAAGAGCTTTTAAACTTTGTATTTTGTACAAAATATTTGTCTTTTACAATTTTTTCTTTTTTTTTTTT
TTGTCATTTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGTACTAATAAAACTCCTAGGGTTTCCT
GTCAGATTTAATTCTACCCAGTGCGCAAAGAATTTTTTCAATTGTGGCTTTAAAAAAATAATTAAATATACATGTA
TATATATAT

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FIGURE 5024

MKRSSVSSGGAGRLSMQELRSQDVNKQGLYTPQTKEKPTFGKLSINKPTSERKVSFLFGKRISGHGSRNSQLGIFS
SSEKIKDPRPLNDKAFIQQCIRQLCEFLTENGYAHNVSMKSLQAPSVKDFLKIFTFLYGFLCPSYELPDTKFEEE
VPRIFKDLGYPFALSKSSMYTVGAPHTWPHIVAALVWLIDCIKIHTAMKESSPLFDDGQPWGEETEDGIMHNKLF
LDYTIKCYESFMSGADSFDEMNAELQSKLKDLFNVDAFKLESLEAKNRALNEQIARLEQEREKEPNRLESRLRLK
ASLQGDVQKYQAYMSNLESHSAILDQKLNLNNEEIARVELECETIKQENTRLQNIIDNQKYSVADIERINHERNE
LQQTINKLTKDLEAEQQKLWNEELKYARGKEA IETQLAEYHKLARKLKLIPKGAENSKGYDFEIKFNPEAGANCL
VKYRAQVYVPLKELLNETEEEINKALNKKMGLED TLEQLNAMITESKRSVRTLKEEVQKLDDLYQQKIKEAEED
EKCASELESLEKHKHLLSTVNQGLSEAMNELDAVQREYQLVVQTTTEERRKVGNNLQRLLEMVATHVGSVEKHL
EEQIAKVDREYEECMSEDLSENIKEIRDKYEKKATLIKSSEE

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FIGURE 5025A

GAGAAGAAGTGGCAGGTGATGCTGAAGCGGGGAGAAGCGGCAGAGCCGGCCACACAGTGCAGGGGATGGAGACA
GGTGCTGGGCTGGTCCTCCTGCAGCATCCTCAGTTGTTGGAGGGCAGTCATCCTCAGGCCGTACCCAGCCAGAGA
AGAAAAAGAACAGTGTGAAGCCACGTGTGATAGCCGTCCAACATCGGCTCTTCCCTCCAATTACATTGTAGTTGA
TTGTAGTCTCAAACCATGAATTATGTGGGACAGCTGGCTGGGCAGGTGATTGTCACTGTGAAGGAACTCTACAAG
GGCATTAAACCAGGCCACCCTCTCTGGGTGCATTGATGTATCGTGGTACAGCAGCAGGATGGCAGCTATCAGTGT
TCACCTTTTCACGTTTCGGTTTGGAAAGCTGGGAGTCCTGAGATCCAAAGAGAAAGTGATTGATATAGAAATCAAC
GGCAGTGCAGTGGATCTTCACATGAAGTTGGGTGATAACGGAGAAGCTTTCTTTGTTGAGGAGACTGAAGAAGAA
TATGAAAAGCTTCCCTGCTTACCTTGCCACCTCACCAATTCTACTGAAGATCAGTTCTTTAAAGATATTGACACC
CCTTTGGTGAAATCGGGTGGAGATGAAACACCATCTCAGAGTTCAGACATCTCACACGTCTTGGAACAGAGACA
ATTTTTACTCCAAGTTCTGTGAAAAAGAAAAACGAAGGAGAAAGAAATACAAACAGGACAGTAAGAAGGAAGAG
CAGGCCGCATCTGCTGCTGCAGAAGACACATGTGATGTAGGCGTGAGCTCCGATGATGACAAGGGGGCCCAGGCA
GCACGAGGATCTTCAAATGCTTCCCTTGAAAGAAGAAGAAATGTAAAGAGCCTTTGCTCTTCCATTCTGGGGATCAT
TACCCCTTATCTGATGGAGATTGGTCCCTTTAGAGACCACCTATCCCCAGACAGCGTGTCTAAGAGTGATTCA
GAGCTGGAGGTGAAACCTGCGGAGAGCCTGCTCAGATCAGAGTCTCACATGGAGTGGACGTGGGGCGGATTCCCA
GAGTCCACCAAGGTCAGCAAAAGAGAACGATCTGACCATCATCCTAGGACAGCTACAATTACACCATCAGAAAAT
ACTCATTTTCGGGTAAATCCCAGTGAGGACAACCTCATCAGTGAAGTTGAGAAGGATGCTTCCATGGAAGACACT
GTCTGTACCATAGTGAAGCCCAAACCCAGAGCCCTGGGTACACAGATGAGCGACCCAACATCTGTGGCAGAGCTT
CTCGAACCTCCTCTTGAGAGTACTCAGATTTTCATCTATGTTAGATGCTGACCACCTTCCCAACGCAGCCTTAGCG
GAGGCGCCCTCAGAATCCAACCGGCAGCTAAAGTAGACTCGCCGTCAAAGAAGAAAGGTGTTACAAAAGAAGC
CAACACCAGGGACCTGATGATATTTACCTTGATGACTTAAAGGGTCTAGAACCTGAAGTTGCAGCTCTTTATTTT
CCTAAAAGTGAATCGGAGCCCGGTTCCAGGCAGTGGCCCCGAGTCTGACACACTCTCTGGCTCCCAGTCCCCACAG
TCCGTGGGAAGCGCAGCTGCAGATAGCGGCACCGAGTGCCTCTCAGATTCTGCCATGGACTTGCCTGACGTTACC
CTCTCCCTTTGCGGGGGCCTCAGTGAAAATGGAGAAATTTCAAAGAAAAAATTCATGGAGCATATCATTACTTAT
CACGAATTTGCAGAAAACCTGGACTTATAGACAATCCTAACCTTGTAAATAAGGATATATAATCGTTACTATAAC
TGGGCTTTGGCAGCTCCCATGATCCTTAGCTTGCAAGTATTCCAGAAGAGCTTGCCTAAGGCCACAGTTGAGTCC
TGGGTGAAAGACAAGATGCCAAAGAAATCTGGTTCGCTGGTGGTTTTGGCGAAAGAGAGAAAGCATGACCAAACAG
CTGCCAGAATCCAAGGAGGGAAAATCTGAGGCACCGCCAGCCAGTGACCTGCCATCCAGCTCCAAGGAGCCGGCC
GGTGCCAGGCCGGCCGAGAATGACTCCTCGAGTGACGAGGGATCACAGGAGCTCGAAGAATCCATCACAGTGGAC
CCCATCCCCACAGAGCCCTGAGCCACGGCAGCACAACTTCATATAAGAAGTCTCTCCGCCTCTCCTCAGACCAG
ATCGCAAACTGAAGCTCCACGATGGCCCAAATGATGTTGTGTTTAGTATTACAACCCAGTATCAAGGCACCTGT
CGCTGTGCAGGGACCATTACCTGTGGAATGGAATGACAAGATCATATTTCTGATATTGATGGGACAATAACC
AAGTCGGATGCTTTGGGACAGATTCTCCACAGCTGGGCAAAGACTGGACCCACCAGGGTATAGCAAAGCTCTAC
CATTCCATCAATGAGAATGGCTACAAGTTTCTGTACTGCTCGGCTCGTGCCATCGGCATGGCCGACATGACCCGT
GGCTACCTGCACTGGGTCAATGACAAGGGCACAATCTTGCCCCGGGGCCCCCTGATGCTGTCCCCCAGCAGCTTG
TTCTCCGCCTTCCACAGAGAAGTGATAGAAAAGAAACCAGAGAAGTTCAAATAGAGTGTCTAAATGATATCAAG
AATCTGTTTGCCCCGTCTAAGCAGCCCTTCTATGCTGCCTTTGGAAACCGTCCAAATGATGTCTATGCCTACACA
CAAGTTGGAGTTCCAGACTGTAGAATATTACCCGTGAACCCCAAGGGTGAATTAATACAAGAAAGAACCAAAGGA
AACAAGTCATCGTATCACAGGCTGAGTGAGCTCGTGAGCATGTGTTCCCCCTTCTCAGTAAGGAGCAGAATTCC
GCTTTTCCCTGCCCCGAGTTTCACTCCTTCTGCTACTGGCGAGACCCGATCCCTGAAGTGGACCTGGATGACCTG
TCTTGAGGCGGCACCTCAGTGGGTGGGCAGGGCTTGGTCCCCCTCCCCACAGCAAGGGAAGGCAGCTGGCTCTTC
TGCTGACCTCAGATACCAGCCTTCCCCAGCGGGGACGGGTGCTTCTGGAGCTGGTCCCGCCATCCTCCTTTGCCT
TCCCAGGCCAGCTGCTCAGGCTCGGCAGGTCTGCAGCTCAGCTCCTGGAAGGAGAAGGGAGGAACTGGGCCTGGG
GCTGGAGGCCCTGGGATCCCTCCTTTGTGGGTGCGACACATGTTTCTGCTGTGAGCTGGGGCCTCCTTCCATTGC
ATCATTTTAAAGGAAGAAAAAGCAGCTAAAAAAGAGTGGACCAAACACTGCACACAGTGAAGTGTTCCAGTTT
CCACTGGGCAGTTGAGGTGGCTTCTGTAACCAGGGCTGTCTTCAGATGTCAGGGTCCCTGAACTGCTGCGGGCCC
AGTCAGTGATGCTGGCTGAAGCTGCCTGTGCAGTTTCTTCTCTGGTTCGCTCATTTTCTGCTACACTGAAGGGG
TCAGCTGCTCCAGTGGGCCAAGTTGGGCAGGACCCCCGCCCTGCAGGGCCCATGCACCAGAGCCACTGAGCCCCA
GTCCCATAAACCTGGCCCTCTTTGGGGAAAGATCCCCACAGAGCATCCTCCTCTCATCTGTGACAACCTCCACGAG

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FIGURE 5025B

CCCTTAATTTCTTAGTCCTCACCAGAAGAACAGGTCTCACAAGTATATATTTGATGTCTGTAATAAAAGTGGGAA
GGTGGGTCTTAAAACAGACCAAACCCCGCCCCGCCCAACAACCTCTGCTTTTAGGGAGGCCTCCGAAATGCAGA
TAGGCGGTTGAGTGGGGTCCTGGGAAGAGCGCTGAATCCCTCTGCTTGCTGCCTGGTGTGGGCCTTTGGAAAGCA
TCTTGCCTTGGGACAGGATTTCTAAAATTCTGTGATTGAGATTTGTGAGGGAAGCACAGTGAAGCTTGCTTAAAG
GCACTGGCCAGCAGTGTGTGACTTTGGCTTTTGGGATCACACCCTGTAATCGGGCCCGTGAAGCAGCGTCAAAG
AGGGGTCTTGGAGCTCCTATGGAGCAGACTGCCCCCGAGCAGTGTCCCAGCCTAGCCCTGTGAGACCCCATGG
GGACACGGGTGCCTATGTATTTTCACTAAAATATACATGGTAGCTCCATTTACTGATGCGGTTGTAATGAGCTCA
CATCGTGTCTGAAGAGATGGCACCAGGGAAAGGTGTGCCATAAGCTGTCCAGAGCTTTTGGTATGCTGAGTGT
GACAGAGCTGCACTCTTAACATCAAGAGAAGTGTGAGGAGCCAGAACCAACCCAGGTCTTGGTCTCCATTGGC
GAGAACACAGGACGTGGTGGTTTCTGAGCAGAGAGGGATCTGCAGATACAGGCTTGGCGCTCGGGGTGGTCTCGT
GGCCAACTCTTCATGCCCCCTGCCGTTGTAGTGGAACTCTACATGTTTTAGTTTGCTTACCTAAAATAATGCTG
ATCTAGAGATAGAGAAATAGGGGTGGTTATTTTTCCAGATTGGAGAGTTGAAAGTCCCTGACTGATTTAGCCAT
TTTTCTAGTGCTTGTGCGATGCAGAGACAATGTTGAAATCCCCTAAACACAGTTCTCAGTGGCAAAACCTAGGAA
GGCTCATGTTCCCAGAGAAGGGACCACATGAGCCTTCTCCCATGCAAAGCTTCCCCAGCTTAAATAGTTGATAA
GGACTAATTGTTTAAATGAGTTTATTTATCTACAGTAGGTTAGGGATCCTGGGTTCTGTTTATATGAAGTTCTTCC
CAGTTTGTGAATTCTAGTACAGCAGCCATGCAGCCACCTTATTTATAGATGCCATCTGTGTCTCTTGACTA
CCTTCTATTTAGAGGAAGAATGAGAGCTTTGTGTGTTTAACTGAGCTTATAGTAGGACTTCTTTGCATATGTATG
GTACTGAAAAATCTTAATATACATCTTTAATCCTTTTTAGGTTGTCCTTTAAAGAGTTTTTGACTAGTTTTCTTT
TCTTGACAGCTCTTCTCTTTGGACACATGGGCCTTCTTAGAGGGTTCAGTCTAGGACCCGGCTCTCCTGGCCCTG
TGTTGAGGGTAGCTGGTCCCTCTGTCCCTGTGTCTGCTAGCACTAGACTTTGTTGCTGCAGATTGATCCAGTGGG
TACATAGGCTAATTAATGTGAGTCTTTTTCTTGTGTTTAAAGGAGTCCCTCTTGCTGAAAGTAGATGATTACTATT
GCTGTAGTGTTAGGAAAGTATTAAGTTTGTGCTGAAAATCCATTGCCATTTGGTACAAATGACATTTGTTCTTTC
TGTGAAAGAGATGCCCTCGAGTGTGTTTGTACACAAACCCTTAGGATGGTGAAGTGAAGCATCACCCCTCGCGCTA
TCTTCAGTGACGGGTGACGGCTCAGGGAGATGGCAGGCAGATTGGGCTCTAAGTCATTATCTCTCAGTTACTCC
ATTGGTGAAATGGCCCTTTCCCTCTTTGCAGTTCAGTCTAAGTCTCGTATTTGCTTTGCTGTCTGTGTGCTGAAG
CTCGTCCCGTGTGAGTTGCTGTCTGCCCCCTTGTGAGGCTGTGAGGTGCTCGTGTAGACCTGGAGCATGCAGGCTG
CCTCCGTTTTTGGGTACTGTGTTGTGTTTTGCTCTGTCTAAAAACATCTGCATAGTTTTCAACTGGAAAAAGAAA
AAACTTAAAAATGGGATGTCTCTAAAATGAAAGCTGCTCAAAGTCACAGAACAACCGAGGGACAAAGGAGATTGGA
TGACTGGGAAGCGCTGGCCCGGAACAGCCCTGCAACTGTGGGGCCTGCACACAGCCCTTCCACAGTTGGCACTG
CAGGTGCAGGCCAACCCCTTTAAAGAATAAAACAAGGAAGTCAGTCTTTTCACTTTTTTACAAGTTGGCAAAAACAGA
CTTCCGGGGAATTTTCATGTTTTTCCCGTGTGTAGAGCTTCCAGGGTTTAAATAAAACTGGTTAAAAATTGAGTCT
TTCCCTGAAGTAAGTGCTCTTTCCAGATGAAAACTACTCTTTTGGTTTTGTTTGAAGTAAGAAAGGGAGGGGAA
ACTTTGCTCTTTTAAATAATTATGTTTCAGCCTATGATGAAGTATTTGATTATTAGACAGCAATGTCCTAATAAGT
TTTAAGTTGTCCAAAGTTAATTGTAAACATCATCAGTACAGTACTCTTAGTTACAGTAAAGCAATTGTTGCAAGA
TGAATGGCTAATATTTTTGGTGCAGTGTGTGATGTTCAAAACAAAATGTTACAACAATAAACGAACATAACAT

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FIGURE 5026

GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTACCATGTTCTTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTTTAGCTAAAAATCTTCCAGTTACATTGTCTTACTCTCTTTTACTTCTCAGACACTTCCC
CCACCCTCATAGAACCTGTTGCATGCAACTTAGTTTCACAGCTTGCCTCTTCTTTTGGATGTATTTATTCCAGA
CCTTTCTGCCACTTAGCACTTGTATAATCAGACTGGAAATGGGGATGAGGGTGTAAATTGTATTGAAAAAGATCG
CGAATAAAAAATCAACAAATGTGAAAGCCCAGAAAAATATATTCGTATTTCTGGTTTTGCTGGATTTTACATTTT
TATATAATAAAAAATGTTATTTTGAAATAAAGATTATGCTGACTCAAATGCAATGT

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FIGURE 5027

GAATTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATC
CAATGTGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAG
AGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCCCACTGATGCATACCT
TGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTCACCATGTTCTGACCATGTTTGGTGAGAAGTTAAA
TGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGGCACCATTCAGGA
AGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGA
AGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAA
AGATGACTGAAAGAACTT

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FIGURE 5028

AACCACCACCATGTCGAGCAAAAGAACAAGACCAAGACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTT
TGCTATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCCTTCAACATGATTGATCAGAACAGAGATGGTTT
CATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTTTAGGGAAGAATCCAAGTATGAGTATCTAGATGCCAT
GATGAATGAGGCTCCAGGCCCCATCAATTTACCATGTTCTCACCATGTTTGGTGAGAAGTTAAATGGCACAGA
TCCTGAAGATGTCATCAGAAATGCCTTTGCTTGCTTTGATGAAGAAGCAACTGGCACCATAACAGGAAGATTACTT
GAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTAT
TGATAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAAAGATGACTG
AAATAACTTCAAATTCAGCCAAACGTTTCCTTGTTGCCACTTTGGGTATTCTGAGATTTTCTCTTGCATGCCCTT
AGCTTTACAGCTTTTGCATTTCTGTTGTATTTATTCTCAGCCATTTTGGGCATATGTATCTTTATAATCAGACT
GGAAACGGGACTTTCTATTAATATCATTTTCAGAATAAAAAATAGGGTAATTTAACCTACCAGCCCTTCTCCCCC
AATAACTGTGGTCTATACAGAGTCAATATATTTTTTCAGAGAAAGTTATTCGCTCGATTTTTTCTGAATCATAAT
TAAACTTTATGATAAAATA

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FIGURE 5029

MSSKRTKTKTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLDAMMNE
APGPINFMTMFLTMFGEKLNGTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDELYREAPIDKK
GNFNYIEFTRILKHGAKDKDD

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FIGURE 5030

ATGCACGCACACACGCATACAGACACCACACACGAGAGAGAGAGATACAAAAGCAGACCAGAGGCACCTTTTAGA
CTGACACATGAGTGGATTTCGGAGTCTGCAGGTTGCAGCAGAGGAAACTGTGAGCTGGAGAGGCAACCTCATTCT
AGCAGCGGCAGAGTTTTGGGGCCTCTTTGGAGACAGGGACGTGGGCACAGGGATCTAATGGAGACAGCCCATCAG
CCTGCAGAAGGAACCAGGTCATTGGCCCTGGCAGATCCTTCTGCCCATAGCCTGCTATTGGGTTCTGATAACATC
CAGGACTCAGGACTCAGCTTTGACTTTGCTTTTGGCTGCCCCGATTTCAGACATGAACTTGAAAAAGGAGGCAACA
CTTCAGGATCGTTTGAGAGAACAACACAGGCAAATTTGGAATCAGACTCTTCACATTCAAAATCAAAAAGCCTC
TG TAGTTTGAACTTCAATGGAAAACATGAAAAGGTGAACAGTCAGCCCAGGCAAAAGGCAATCATGTTCAAGACC
TTGAGCACCCCTAGACCCTGACTGTGCAAGATTTGAAGGGACGACTGCTTCTCCTAAGCCTCAGAGCCTTGCTCTT
TGCATTTCAGCAGGATAATGAATCTAGATTTTATTTCTGTTCTTTGCCCAGACTTGTACAGCAGGCAAAAGTGTG
AAAATCAAAAGGAAAAGAAGATATTGACTTTGGATAATCTCTTCAGAGAGGCCATGGAGGGAAAACAGGAGTGTCTC
ACTGAACTTGTGAAGAAGCCACAGCCAAGCCCTGGGGCCAGTCATCCTGCAGCAGTGACCACTCCCCGGCAGGG
AGTGCAGCCAATACAGACAGTGGTGTGGAAATGACTGGCAATGCAGGGGGCAGCACTGAAGACCTCTCCAGCTTG
GACGAGGGACCTTGCAATTGCTGGCACTGGTCTGTCCACTCTTCGCCGCCTTGAGAACCTCAGGCTGGACCAGCTA
CATCAACTCCGGCCAATAGGGACCCGGGGTCTCAAACCTGCCAGCTTGTCACACACCGGTGAGACCTGGGTGTGG
GAGTGCTTGCCAAAGTTGCGGACTGCCAACCACAGCTGGTACTGTCCAGGGCCTGCCCTGAGCACACTGACATCT
GCCCCGTGCTGAAGATGCAAAGCCTGTTGCAGCAGGAGCTGCTGGCACCAGCCCTGATCATTCCCTCCTTTTGCAA
TGCCCTCAGCTCTTTTATTTCCATCTGTTGTTCTATGATAGGCTGCTCTCCCCACGTTTCTGATAATTATGGGGTA
AAACCGGGAAGGCTGCAGACATCAGAGGAGAGCTCTATATTCTCCTACTTTAAAATGTTGCCTAAGACAAGCAAC
AAACTCAATGTACTTTGCCCTCTGAGAGAGCTCAGAATCCTTGTCCTCAGGAATCATGCGATCAATGCAAAGGAG
CTCGCCATGATCGCCACCGCGGCCTGCTAAGGATTTCCGCCAGAAAGCAGGATCCACTCCGCCCCCAAGCCAG
ATACCCAAGCGCAAGCGAAAGCCAAGAAGAGGCGCAAGAACGACGTGGTGGTGGTTAATGTGTTTGAGCACTA
AATACGACTTGA

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FIGURE 5031

AGAGCTTCTTTGAAGGGCAGTCTGCACCATGGGACTCGGCTAAGAAAAGATGAGAACAGAATGAAGAACAGATACG
GGAATATCATTGCATACGATCATTCCCGAGTGAGGCTGCAGACAATAGAAGGAGACACAACTCAGACTATATCA
ATGGCAATTATATCGATGGTTATCATCGACCCAATCATTACATTGCTACCCAAGGGCCAATGCAGGAAACCATCT
ATGACTTCTGGAGGATGGTGTGGCACGAAAACACTGCAAGTATCATCATGGTGACCAATCTTGTGGAAGTGGGAA
GGGTCAAATGCTGCAAATACTGGCCAGATGACACAGAGATATATAAAGACATTAAAGTTACCCTAATAGAAACAG
AACTACTGGCAGAAATATGTGATAAGAACATTTGCTGTTGAAAAGAGAGGTGTGCATGAAATCCGAGAGATCAGAC
AGTTTCACTTCACTGGCTGGCCGGATCATGGGGTCCCCTACCATGCCACCGGCCTGCTGGGATTTCGTGCGGCAAG
TCAAGTCCAAGAGCCCCGCCCAGTGCAGGCCCACTGGTGGTGCAGTGCAGTGTGGTGCAGGGAGGACTGGCTGTT
TCATCGTCATTGATATCATGTTGGACATGGCCGAAAGGGAAAGGGTCTGTAGACATCTACAACCTGCGTCAGGGAGC
TGCGGTTCACGGAGGGTGAACATGGTGCAAACAGAGGAGCAGTATGTGTTTATCCACGATGCGATCCTGGAAGCCT
GTCTTTGTGGGGACACCTCTGTGCCTGCTTCCCAAGTTAGGTCTCTGTATTATGACATGAACAACTGGATCCAC
AGACAACTCAAGCCAGATTAAAGAGGAATTCCGGACGCTAAACATGGTGACACCAACGCTGCGAGTAGAGGACT
GCAGCATCGCACTGTTGCCCGGAACCATGAGAAAAACCGGTGCATGGACATCCTGCCCCAGACCGCTGCCCTGC
CCTTCCTCATCACCATCGATGGGGAGAGCAGCAACTACATCAATGCTGCCCTCATGGACAGCTATAAACAGCCTT
CAGCTTTTATAGTCACCCAGCATCCTTTGCCAAACACAGTGAAAGACTTTTGGAGACTGGTCCTGGATTATCACT
GCACATCCGTAGTTATGCTAAATGATGTGGATCCTGCCCAGTTGTGTCCACAGTACTGGCCAGAAAACGGAGTAC
ACAGACACGGCCCCATCCAGGTGGAATTTGTCTCTGCTGACCTGGAAGAGGACATCATCAGCAGGATATTCCGCA
TTTACAATGCCGCCAGACCCCAAGATGGATATCGGATGGTGCAGCAATTCCAGTTCCTGGGCTGGCCGATGTACA
GGGACACACCAGTGTCTAAGCGCTCCTTCTTGAAGCTCATTCGCCAGGTGGACAAGTGGCAAGAGGAGTACAATG
GCGGGGAAGGCCGCACGGTTGTGCACTGCTTGAACGGGGGAGGCCGCAGTGGGACGTTCTGCGCCATCAGCATCG
TATGTGAGATGCTCCGGCACCAGAGAACCGTGGATGTCTTTCACGCTGTGAAGACACTGAGGAACAACAAGCCCA
ACATGGTCGACCTCCTGGATCAGTACAAGTTCTGCTACGAGGTGGCCCTGGAATACTTGAATTCTGGCTGATGGT
GTAAACAGCTCTGCAAACAATCCCTTTTCATACCACAAAGCCAAGACGTTCCATGGTATTTGTGCAAAAGAGATGA
AGACTTCTCAATATGCTTATTTTGCTTTGCATAATTGGCTCTTTTAAAGAGCCCAAGAAAGTGTTTCTAAAAATTG
CTTGCACTGCCCAATCCCAGTAATGCTGCTGCCTGACAGAAACACACACAGCCACAGTTGCCAAATCCCGTAC
TCCTTGCCACCGGCTTCCTAGAGCAGCGTAGACAGCTGGTAAACTGAAGAGCACAACTATATTCTTATGAAGGAA
TTTGTAACCTTTGGGGTATTATTTTGTGGCCCGTGACCCCTCGTTATTGTTACAGCTGAGTGTATGTTTTTGTCTG
TGGAGAATGCTATCTGGCATTATGGTAATATATTATTTTAGGTAAATATTTGTACTTTAACATGTTGCATAATATA
TGCTTATGTAGCTTTCCAGGACTAACAGATAAATGTGTAATGAACAAAGATATGTTGTATGAGTCGTCGTTTCTG
TCAGATTTGTATTGTTTCCAAGGGAAAAGCTTGGGGGAGGACTCAGTTCACAAAATGCAAAACTCAACGATCAGA
TTCACGGACCCAGAGCTTTTCCATGTGTTTATATTGTAAATATTTTTGATTTTCATCAAATTATTTATTCATTAAA
AGAAATTTTTGTG

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FIGURE 5032

CGGAGGGGTGGGGAGCGGAAAGCAGGACGCACGGCTCCCGCGGCCCGCTGGCTGCCCTTCCCGCCAGCGCAGGTGT
GGGACGGGCGGCGGACTAGGCACAGAGCTGCGGGAGCAGGCACAGGGAGTGTGGAGCCTGGCGGGCGGGACGGCGG
GATCCGGTGGGAGCCGGAGTCCCGCCGAGGGGGGCTGGAGGTGGAGGGGCCGCGAGGCCGCGG**ATGA**AGCCGAG
CGGCGAGGACCAGGCGGCGCTGGCGGCCGGCCCCCTGGGAGGAGTGCTTCCAGGCGGCCGTGCAGCTGGCGCTGCG
GGCAGGACAGATCATCAGAAAAGCCCTTACTGAGGAAAAACGTGTCTCAACAAAAACATCAGCTGCAGATCTTGT
GACAGAAACAGATCACCTTGTGGAAGATTTAATTATTTCTGAGTTGCGAGAGAGGTTTTCTTACACAGGTTTCAT
TGCAGAAGAGGCCGCGGCTTCTGGGGCCAAGTGTGTGCTCACCCACAGCCGACGTGGATCATCGACCCCATCGA
CGGCACCTGCAATTTTGTGCACAGATTCCCGACTGTGGCGGTTAGCATTGGATTTGCTGTTGACAAAGAGCTTGA
ATTCCGAGTGATTTACCACTGCACAGAGGAGCGGCTGTACACGGGCCGCGGGGTGCGGGCGCCTTCTGCAATGG
CCAGCGGCTCCGGGTCTCCGGGGAGACAGATCTCTCAAAGGCCTTGGTTCTGACAGAAATTGGCCCCAAACGTGA
CCCTGCGACCCCTGAAGCTGTTCTGAGTAACATGGAGCGGCTGCTGCATGCCAAGGCGCATGGGGTCCGAGTGAT
TGGAAGCTCCACATTGGCACTCTGCCACCTGGCCTCAGGGGCCGCGGATGCCTATTACCAGTTTGGCCTGCACTG
CTGGGATCTGGCGGCTGCCACAGTCATCATCAGAGAAGCAGGCGGCATCGTGATAGACACTTCGGGTGGACCCCT
CGACCTCATGGCTTGAGAGTGGTTGCGGCCAGCACCCGGGAGATGGCGATGCTCATAGCTCAGGCCTTACAGAC
GATTAACATATGGGCGGGATGATGAGAAG**TGA**CTGCGGCTGAGGCAAAGCTGCTCCCAAGGCCTCCCTGGGCTGCT
GTGGGCTCCTGGGGAGGTGGCCCTCGTGGCCCCACGCTCCATGCCAGTGGCTCACGCTCTGCTCCTGGCTACCCCA
GAGGGAGTTGTACGCTACAGTGAGTGGCTGGCCTTTTAAATCGACGTCTCTCTCACCAGGATTTGGTGTTTAGC
TGTTTCTCTCTTTAATCTCACGTAGCCTTTTTAGGTTAGTACGTGTTCTTCTGTCAGGGCCAAACTCAAATCT
CCTGTGAAATACGTATTGATAATCCAATCTTGATTTTTCCCCCAGAATATAAATCTCAGGTAATAAGGCTTTAG
AACTGCTGATAAAGCGGATCGTTCTCAGGCCCTCCCCCGGAGTACTTCAGAATGCAATAAATCAAAATAATGGC

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FIGURE 5033

MKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAADLVTETDHLVEDLIISELRERFPS
HRFIAEEAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVIYHCTEERLYTGRRGRGA
FCNGQRLRVSGETDLSKALVLTEIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLALCHLASGAADAYYQF
GLHCWDLAAATVIREAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQTINYGRDDEK

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FIGURE 5034A

GGCACGATTCTGGGTACAGGTGATGAGGGATTTGAGGAATGGGGTAAAACCTTAAGAAGGTCCAAGAGCGGCAGTA
CAACCCCTTTGCCCATTTGAATATCAGCTCACCCCTTATGAGATGTTAATGGATGACATTCGCTGCAAAAGATACAC
CTTGCGAAAAGTGATGGTGAATGGTGAATTTCCCCCTCGGTTAAAAAAGAGTGCTCATGAAATCATCTCGACTT
CATCAGATCCAGACCTCCTTTAAATCCAGTCTCAGCCAGAAAACCTGAAACCAACTCCACCACGGCCACGGAGCCT
CCATGAAAGAATATTAGAAGAAATTAAAGCAGAAAGAAAGCTGCGGCCCTGTATCACCAGAGGAGATTAGACGTAG
CAGATTAGATGTGACTACCCCTGAATCTACAAAGAATCTTGTGGAGTCATCTATGGTGAATGGAGGTTTGACATC
ACAAACAAAAGAAAACGGGTAAAGTACCTACAGCAGGTGCCTGCACAGCGGAAGAAGCTCCTCAGAGCCCCAAC
TCTGGCCGAACTGGACAGCTCTGAGTCTGAGGAAGAAAACGCTGCACAAGTCGACCAGCAGCAGCAGCGTGTCTCC
CTCTTTCCCTGAAGAGCCAGTCCTGGAGGCCGTGTCCACAAGGAAGAAGCCTCCAAAATTCCTGCCCATATCATC
AACACCCCAAGCCAGAGAGACGGCAGCCACCCAGAGACGACATTCCATTGAAAAGGAAACGCCTACTAACGTGAG
GCAGTTCCTGCCGCCCTTCAGGCAGAGTTCCCGCTCTCTTGAGGAATTCTGCTACCCAGTGGAATGCCTCGCTCT
TACTGTGGAAGAAGTGATGCATATTCGCCAGGTCTGGTGAAGGCAGAGCTGGAAAAATACCAACAGTATAAAGA
CATCTACACCGCCTTGAAAAAAGGAAAGCTCTGCTTTTGTGCGCAACCAGGAGGTTTTCTTTCTTCACTTGGTC
TTATACCTGTCAGTTCTGTAAGAGGCCGGTGTGCTCACAGTGTGCAAAAAGATGCGGCTGCCCTCCAAACCATA
CTCCACTCTTCTTATCTTTTTCATTGGGACCTTCTGCTCTGCAAGAGGGGAAAGTAGTATGAGGTCAGAAAAACC
CTCCACTGCCCATCATCGGCCACTTCGGAGCATTGCCAGGTTCTCTCTCAAAATCTAAGTCTATGGACAAATCAGA
TGAAGAACTCCAGTTTCCCAAAGAGTTGATGGAGGACTGGAGCACCATGGAGGTGTGTGTGGACTGCAAGAAGTT
CATTTTCGAAATCATCAGTTCAAGCCGGCGCAGTCTGGTGTGCGCAACAAAAGGGCCCGATTGAAAAGGAAAAC
GCAGTCTTTCTACATGTCCTCGCCAGGCCCCCTCGGAGTACTGCCCTTCAGAGAGGACGATCAGTGAGATCTGAGC
CTCGTGCCCTTCAGCTGCTTTTGTGCTACGAGTCAGCGTCCGTGCGCGAGGACACTGAGCCGGGCTGGCTCTCCT
TTCTGTGGTTTTATTTAATGGGCTTGAATTTGCATTAGATCAGATTTTTGCCGCATCACATTGTTCCACAGACTG
AATGCTGTGTTTCGTATCGATTGATGAAACGTGACAGGTCCGCCAATTGCTCGTTTGCACTGAGAGAGGACAACAG
TTTGAACTTACTTTTGTGTGTGTGTGGCTTTGGAAGCCAGTAGCTACTTCTTAGTTAGTTCTTTACTGTTC
TCGAATAATCTCCTGACTAAGGCAAAAAAAAAAAGCTTCTCCTACGAGAATCAGTCTAACAGAGATGCCGATGTC
AGCACAGCCCTAAGCAGTAAGTCATATTGGCATTTCACGTGACTGTGTTTCTATCCCGTGTACAGAGAGATCCA
GAGCCCTACACTCCACGACCTGGGGGCTCACAGCACAGAACCCTAGAAGCACCTGCTGACACTCTTCAACTGATTT
TTAAATGTTGTTGCTTGGAGATAAAAAATTACATAAGGGACTTTTTGCGCTGCATTCTAGTGCAAAACATCTGAAGA
GCTGTACACCCACAAGGGTGACTATTTCCCTGAGTGGCCGTGTTGTCCCAGTGCCCTGGTTCAGTGTCTCCTGA
GTGGATGACAGGTCTTCACTTCTATCTTGAATGTATTATGGTTACTAATAGTTTTATAATGGAGGTCTAAGAAT
TAAAGTTGTGTGGGAGTTTTCAGGACAAAGGAAGGCTAAAAGTTTGTCAAGACGTTGAGCGTATTTTGGTTACCTA
TGAGAAGGGTTGTGACAGTGTACAGTGGCAGCTGTTGGCCACGCTGCAGAAATGAGCTGGAGCTCATGGGTTTTTC
AGCTACATTTTTTACATAACTTTGTAGTACATCCATCTTGAGTAAATTAAGCCACAATTTGGTACCTAGGGTCTCAA
ACTAAAATTTATTTTTATAAATGAATTTTAAAAAGAAAAATATCTACTTCTTTTAAAGTTAGAAGAAAAATTAACC
TGCTGACAGGCAACATTTTTGGGGTGCTTTCTGCACTAGTTTTCTTGTAAATGATTTGAGTGAGTAGGTTTGGT
TTCTGACGAAAGTAGACTGGAGGGTAGCATTGTATGCCTCAAATGTCTCAGTGTGTTTGGCTCATACGTGGGCTA
TACTGTATTATTTTGGTATGCTTACAAATGACTAACCAATCAAATTGTCATTAATGTTTGGAAAATCTGTTAATG
CACATGCACAATAATTTCTGAAAGCCATAGGACATGTCTGTAGTCAGCACCACGATAGCACCGTTTCATGAAAG
GCATGGCGGCTGCATTTTATACCACATCAAAATACAGTAACATTTCTATACTAAATTAACAGTAATACCTCAAAA
CTGCTCCGGTAGTAGTTTTTAATGGATTGAAATTTACAGTTTAGTAAAAGGCTTAAATTACTTATACTTATGAA
ATAAACTTTACCAGTTGACTAAAATAATGCATGTAAACAGTTGGTCTGTATTTGCATGTAAAAGTGGGCCACCAG
AGAACCCTTATTGATTACTTAAGTGTTTACATTATTTTAAAGACTCCTGTTTAAAGAGCTTTCAGAAATTGTACTGG
GTGAATCTCATTTATAAACTTCCCTAAGAGACTATCTGAACCTCTATACTCCAGACAGTTAGGTGGGAGTATAAAT
CTACCCCTTTTGATGACCCAGGCTTGAGTTTTTAAATGACTACCCAGAAGGGCACAAGGGGGAAGGAAATGGT
ATTTGTATATGTATATAAATATGCACCTAGGAGAATGTGCTTTTTTAAATAATGACTACTGTTTTTATTAAACA
TAAGAACTACACCCCAAAATAAGACTTTTCAATTCACATTCACAAAGCAAACATCTAGTACATGTCTTTCCTTC
ACTTTATGATAGTGTATTGGATGATTTGGGCATTACGATCACCTCTTACCACAGCACAGAACATACATTCTTCAA
CAGCATTAACGGAGTTTGCCAAGTGCAATTAAGAGGTCACGTGGAGGGTACGTTTCATATGAAACAATCTGCAGAA
AGTGGGGTAAGAAAGGGCACATGGCACAGTTAAAGTTGTAGAAATCAAATTACTATCATTTTTTTGTGCCAAAAC

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FIGURE 5034B

AAAGTCTTACATTTAACCCCCCTTTCTACCACCCCCCTCCACACTTCACGTCAGCTACATAGTTTCCACAGGGTA
ATTCACTAAGAGCTTGTGGAGCTTGGTTTTAAAATCCTTAGCCTGGTCTGACTTTAGGCATAGCTTCCAGTTCTT
CCTTCCGTGTCTGGTTTCTTGTTTCAGTTTTACTTCTAATCCAACAACAAAAGAAATGTCTGGCTGGTCTCAGCT
AGAGTCTGATGTGTCTTAGAGCATGTGTGCGTATCTGAACCATCATCCCTGCTCTCATCTCAGCTCCCTCCAGGC
CTGAGCACCGGTTCCTTTTGTCCCATACGTCATGAAGTCACACTATTGGGAAACCTGTGCTTCCCTCTCCATGGC
TTAACTCCCTGTCAGTGTCTGGAGTGTATAAGAATGCTTGTAATACTGTAATATATTTATTAATATTTGAAAGGC
ATTCATTCAGTGGACAGTGGGAATTAAGTCTCCCAAGGCAAGTGAAAATGAATGATTGACGTACGTTGATTTAAC
AATCTTACTAGATTTTAATTCTTAAGGATTTCAAATGAAACCAGAAGGTGGTTATGTAAGAGGCTTAAAAATGATC
TTATGTTTAAAGAGATTCTGTTATTAGCACCATGAACTCGTACTATGAAATTTTTAAGCCTTTTATTTTTCTAAC
TATATTACTGTAGGACTGGATATTAGGTGTCATATAGGAAACACAAAAGTTTATTGCTGTTTGCTAAAGCAAAAT
AGCAGAAAAATTTTGTATATGCAAACTGTTGAAGGACCATAGAGAAATGTGTACTACTGACGGGGCTTTTACTAG
GCTTCCTGCGTGTGTAAAAGTCGAGGTATTGCTGGCATTTCAGGGTGACATGATGGTACTAAATGTTTTCCATTAA
AGTCTTCTATTTTAAAAATTTAGAGAAAAATAAAATGGCTTTCCATCAG

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FIGURE 5035

MRDLRNGVKLKKVQERQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKVMVNGDIPPRLKKS AHEIILD F I R S R P P L
NPVSARKLKPTPPRPRSLHERILEEIKAEKLRPVSP E E I R R S R L A M R P L S M S Y S F D L S D V T T P E S T K N L V E S S M
VNGGLTSQTKENGLSTSQQVPAQRKKLLRAPTLAELDSSESEEEETLHKSTSSSSSVSPSFPEEPVLEAVSTRKKPP
KFLPISSTPQFERRQPPQRRHSIEKETPTNVRQFLPPSRQSSRSLEEF C Y P V E C L A L T V E E V M H I R Q V L V K A E L E
KYQQYKDIYTALKKGKLCFCCRTRRFSFFTWSYTCQFCKRPVCSQCCKKMRLPSKPYSTLP I F S L G P S A L Q R G E S
SMRSEKPSTAHHRPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTMEVCVDCKKFISEI I S S S R R S L V L A N K R
ARLKRKTQSFYMSSPGPSEYCPSERTISEI

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FIGURE 5036

TTCTTTCTTGCCGTGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCACCAGACTTTCTGTAAGA
AGTGTGGCAAGCACCAACCCACAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTATGCCCAGGGAAAGT
GGCGTTATAACAGGAAGCAGAGTGGCTATGGTGGGCAGACTAAGCCGATTTTCCAGAAAAAGGCTAAAAC TACAA
AGAATACTGTGCTAAGGCTTGAGTGC GTTGAGCCCAACTGCAGATCCAAGAGAATGCTGGCTATTAAAAGATGCA
AGCATTTTGA ACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCCGTTCTAAGTGT CATCTTTTATTATGA
AGACAATAAAA

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FIGURE 5037

GGCACGAGGCAGACCATGAGGTTTAACTGAGTGAACACCGCTGTTCCGGGGCTCTGCCTCTCGCTGAACGCTCCT
GCTGGGCTGGGGCCTCCCGAGTAGCTGGAAGTACAGATAATCACAGCTGGCTTATCAATATTGCTGTTTGATGCG
ATCCTGACCAGTGCAACCACGGGATGCCTCCTGCTCGGTGCGCTTGAGAGGCCTTGCTGGTTTTCTCAGAGCGG
AAGAGCTCCTGAACAAGACGGTCAAGAGAAAGACTCACAGGCTGCTGCGGGAGAACAGCTTGACACCTGTGTAC
GAGCCCCTGGTCTCATAGCTCCCTGTTGGATGTGTGTCAGAAAGAGGAATGCAAGGACAGTGAGGCCAGGTGGGCAG
TGCCATCACCTCACCCAAGTGAATGTGGTGGTGGCTGATGAGGCCGAGGCCCTGGTGCTTCAAGGAGCACCTT
TCTGGGGGTCTGCAGGTCAGTGCAGAGGAGCGGTCTGTTACATCTTCCCATTTGGAGAACCTCTCTCAACCGTGC
TGTAGCTGGTTCTGCAGAAACAGGAAGTACAGGATTTTCATGGGCTGGCTCTGCTCGCCTCGACTGAGCTTCACAC
CTCTGGATGCCACATGCTCTCTCCCAAACACTGCTTTCAGTGCAAGGTAGTGGGCCTAAGGGTTTTGGTTGTCT
TTTTTTTTTTTTCATTTTAAATTTTAAATTTTATTATTATTATTTTATAGAGACAAGGCCTCGCTCTATCGC
CTAGGCTGAAGCACAGTGGTGCATCACAGCTCGCTGCAGCCTTGACCTCCTAGGATCAAGCCATCCTCCTGCCT
CAGCATCCACAGTAGCTGATGTGCACCACCAGACCCGCTCTCATTTTTTCTATTTTTATTATTTTAGAGATGGGGA
TCTCACTGTGTTGGCCAGGCTGGTCTCAAACCTCGGCTCAAGCAATCCTCCACCTTGGCCTCAAAGTATTGA
GATTACAGGCATGAGCCACTGCACCCGGCCTTTCTCATTTTTATTTTTAAATTGACAGACGTAACAGTGCGCATT
TATCACGCACAACACAATGCTTTGGGAATGGTTAAATCTAGCTCACAAATGCATTACCTCACACGGTTGTCATTT
TTGTGGTGAGGCTTGTTGTATGTTTTGTTTCATTCTGTTTTTACATCCTTGGAGTCTCCTCTGGGTCCGTCCT
TTCTTTGCTGTCATGCTGGCTTGCTTAAGGCCACCGCCACCTGCGTACGAGCATTTTAAACTCTAGAGTGAGTG
ACAGCCTTTTTATGGTTGGTGTACTATTTATTTTCTGCTCTAAACTTCTCGTGGTCCTTATAAACTTGTGAGG
ATGTGTGTTGCGTTGAATTCTGCATGTCCTTTTTTTGCCACCCCTCAGGTTAAGCTGGTACTAAGCTTATCCCCAG
AGGAAACAGGGTTTATGAGCACTGACAGATGTCTTCCCTGGGCAAAAAAAAAAAAAAAAAATAGTATATGTATACAC
ACACACATACACATTTATATTTATATTTCTTAAAGCTTTAATCCCTTTCATTCCCTGATATCTCAGAGATTTCA
AATCATTGAACACTGAAGTATATTTTTCAGGCCAGATGAAAAATTGTATTTAAACCCTATTCTGGTCAGGCGCA
GTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGAAGTAAGCAGATCACCTGAGGTCGGGAGTTCAAGACA
AACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAACTACAAAAAATTAGCCTGATGTGGTGTGTGTCCT
GTAGTCCCAGCTACTTAGGAGGCTGAGGTAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAA
ATTACGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACAGTCTCAAAAACAACAACAACAACAAAAACCTAT
TCCTTGCTTTGTAGGAGTCAAAATAAATGAACTTCTTTTTTCTTTTTTTTATTATTATACTTTAAGTTCTGGGG
TACACGTGCAGAATGTGCAGGTTTGTTACATAGGTATGCACGTGCCATGGTGGTTTGCTGCACCCATCAACCTGT
CACCTACATTAGGTATTTCCCCTAATGTTATCCCTCCCTAGCCCTCCATCCCTGACAGGCCCTGGTGTGTGAT
GTTCCCTCCCTATGTCCATGTGTTCTCATTGCTCCAAAAATAAATGAATTTACACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 5038

MPPARCAWRGLAGFLRAEELLNKTVKRKTHRLLENSTLYTCVRAPGLIAPCWMQCQKEECKDSEARWAVPSPSPK

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FIGURE 5039

GAATTCccccccccccccccagtgctccgcgcgctcttgacgtccggagccccctggagtaggcgcttccggccatt
catactgcagtcggtcagtggttcggttgaaaggattctgtgtgctgtcggacccagaggggtgacggcgccgctagg
atgaagctcgtgagatTTTTGATGAAATTGAGTCATGAAACTGTAACCATTGAATTGAAGAACGGAACACAGGTC
CATGGAACAATCACAGGTGTGGATGTCAGCATGAATACACATCTTAAAGCTGTGAAAATGACCCTGAAGAACAGA
GAACCTGTACAGCTGGAAACGCTGAGTATTCGAGGAAATAACATTCGGTATTTTTATTCTACCAGACAGTTTACCT
CTGGATACACTACTTGTGGATGTTGAACCTAAGGTGAAATCTAAGAAAAGGGAAGCTGTTGCAGGAAGAGGCAGA
GGAAGAGGAAGAGGAAGAGGACGTGGCCGTGGCAGAGGAAGAGGGGGTCCTAGGCGATAATGTCTCTCAAGATTT
CAAAGTCATATGAGATTTGGGATATTTTTGTACAGGTTGTGTTTGTATGTTCAGTTTTTAATAAACATAAATG
TGGGACAGAGCTGTCTATTTAGTATATCAAAGTTTTAGTAGTTTCCTCCACATTCACGAAATTACCACAGTGAGA
GCTAAGCATTCTACTGGGCAGTTTCATTTTTAGTTGATCAGGTTTTAAGTTTTTGAAGTAAATTTTTCTTTTT
CTTTTTATGATGAATAAGGTTAAATAAAAGCCTTAGACAAATTAAATTTGGCAGAGTTTAATTGAGCAAAGGAC
AATTCACAAATCAGGTAGCCCCCTGAACCATAATAGGCTCAGAGGCTTCAGCCCAGCTGCATAGTTGAAGATTTAT
GGACAGAAGGAAAAGTGATGTATGGAAAATGGAAGTGAGATACAGCAACAGCCGGATTAGTTACAGTTTCAGCGTTT
GCCTTATTTGAATATGGTTTGAACAGTTTCGCTGTCTTTGGTTGGCTGAAACTTAGTGATTGCCACAAGAGTAGGG
TACCGTCTGTTTACACGTCCAGTTAGGCTACAGTTCTATGTACTGAGAAACCTTTAAGCTGAACTTGAGATATGT
AAAGAGACTTTAGGCTAAACTTAACAATATATATAGGAATATATCCCTTCTACTTCACATGCACTGAATATGCAT
TTTATTGCTTTACTCTTCATTCTGTGGCACCTACCCACAGGGGAAGTAAGAAGTTTGTTTTGGTATTTTCGGAAAC
TAAAGTCCTTATGGGATGGGGTCTAGAATTGATTCTCCTTTCCTGAGTTTTACTCCACGGAGTCTTAGGTACCTG
GTAAAAAGTTGTCTTCTAAATTAAGGGTCATTGCTTTGTTGTCTAGCTGCTAATGTCTTACTTTTGTTCCTTTG
CTTTTTAATCAGTTCTTAATAGGATATAGTTTTATGTTTTCCAAGTTATAACTTGGAGTTAATGGTCACTAGATT
ATCAGTTATGAGCAGTGTTAAATCTCCTATTAATGTGTAATGTACCTGTCAGTGCCTCCTTTATTAAGGGGTTT
TTTGAGAATAAAAGAGAAAAGACCTACTTTATTTGACAGCAAAAAAAAAAAGGAATTC

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FIGURE 5040A

ATGGGATGGCTGTGGATCTTTGGGGCAGCCCTGGGGCAGTGTCTGGGCTACAGTTCACAGCAGCAAAGGGTGCCA
TTTCTTCAGCCTCCCGGTCAAAGTCAACTGCAAGCGAGTTATGTGGAGTTTAGACCCAGCCAGGGTTGTAGCCCT
GGATACTATCGGGATCATAAAGGCTTGTATACCGGACGGTGTGTTCCCTGCAATTGCAACGGACATTCAAATCAA
TGCCAGGATGGCTCAGGCATATGTGTTAACTGTCAGCACAAACCCGCGGAGAGCACTGTGAACGCTGCCAGGAG
GGCTACTATGGCAACGCCGTCCACGGATCCTGCAGGGCCTGCCCATGTCTCACAATAACAGCTTTGCCACTGGC
TGTGTGGTGAATGGGGGAGACGTGCGGTGCTCCTGCAAAGCTGGGTACACAGGAACACAGTGTGAAAGGTGTGCA
CCGGGATATTTGCGGAATCCCCAGAAATTCGGAGGTAGCTGCCAACCATGCAGTTGTAACAGCAATGGCCAGCTG
GGCAGCTGTCTATCCCCTGACTGGAGACTGCATAAACCAAGAACCACAAAGATAGCAGCCCTGCAGAAAGATGTGAT
GATTGCGACAGCTGTGTGATGACCTCCTGAACGACCTGGCCACCATGGGCGAGCAGCTCCGCTGGTCAAGTCT
CAGCTGCAGGGCCTGAGTGCCAGCGCAGGGCTTCTGGAGCAGATGAGGCACATGGAGACCCAGGCCAAGGACCTG
AGGAATCAGTTGCTCAACTACCGTTCTGCCATTTCAAATCATGGATCAAAAATAGAAGGCCTGGAAAGAGAACTG
ACTGATTTGAATCAAGAATTTGAGACTTTGCAAGAAAAGGCTCAAGTAAATTCCAGAAAAGCACAAACATTAAAC
AACAATGTTAATCGGGCAACACAAAGCGCAAAAAGAACTGGATGTGAAGATTAAAAATGTCATCCGGAATGTGCAC
ATTCTTTTAAAGCAGATCTCTGGGACAGATGGAGAGGGGAAACAACGTGCCTTCAGGTGACTTTTCCAGAGAGTGG
GCTGAAGCCCAGCGCATGATGAGGGAAGTGCAGGAACAGGAACCTTTGAAAGCACCTCAGAGAAGCAGAAGCTGAT
AAAAGGGAGTGCAGCTCTTGCTGAACCGGATAAGGACCTGGCAGAAAACCCACCAGGGGGGAGAACAATGGGCTT
GCTAACAGTATCCGGGATTCTTTAAATGAATACGAAGCCAAACTCAGTGACCTTCGTGCTCGGCTGCAGGAGGCA
GCTGCCCAAGCCAAGCAGGCAAATGGCTTGAACCAAGAAAACGAGAGAGCTTTGGGAGCCATTCAGAGACAAGTG
AAAGAAATAAATTCCCTGCAGAGTGATTTACCAAGTATCTAACCCTGCAGACTCATCTTTGTTGCAAACCAAC
ATTGCGCTGCAGCTGATGGAGAAAAGCCAGAAGGAATATGAAAAATTAGCTGCCAGTTTAAATGAAGCAAGACAA
GAACTAAGTGACAAAGTAAGAGAAGCTTTCCAGATCTGCTGGCAAAACATCCCTTGTGGAGGAGGCAGAAAAGCAC
GCGCGTCTTTACAAGAGCTGGCAAAGCAGCTGGAAGAGATCAAGAGAAACGCCAGCGGGGATGAGCTGGTGC
TGTGCTGTGGATGCCGCCACCGCCTACGAGAATCTCTCAATGCCATCAAAGCGGCCGAGGACGCAGCCAAACAGG
GCTGCCAGTGCATCTGAATCTGCCCTCCAGACAGTGATAAAGGAAGATCTGCCAAGAAAAGCTAAAACCTGAGT
TCCAACAGTGATAAACTGTTAAATGAAGCCAAGATGACACAAAAGAAGCTAAAGCAAGAAGTCAGTCCAGCTCTC
AACAACCTACAGCAAACCTGAATATTGTGACAGTTCAGAAAGAAGTGATAGACACCAATCTCACAACCTCTCCGA
GATGGTCTTCATGGGATACAGAGAGGTGATATTGATGCTATGATCAGTAGTGCAAAGAGCATGGTCAGAAAGGCC
AACGACATCACAGATGAGGTTCTGGATGGGCTCAACCCCATCCAGACAGATGTGGAAAGAATTAAGGACACCTAT
GGGAGGACACAGAACGAAGACTTCAAAAAGGCTCTGACTGATGCAGATAACTCGGTGAATAAGTTAACCAACAAA
CTACCTGATCTTTGGCGCAAGATTGAAAGTATCAACCAACAGCTGTTGCCCTTGGGAAACATCTCTGACAACATG
GACAGAATACGAGAACTAATTCAGCAGGCCAGAGATGCTGCCAGTAAGGTTGCTGTCCCCATGAGGTTCAATGGT
AAATCTGGAGTCGAAGTCCGACTGCCAAATGACCTGGAAGATTGAAAGGATATACATCTCTGTCTTGTCTC
CAAAGGCCCACTCAAGAGAAAATGGGGGTACTGAGAATATGTTTGTGATGTACCTTGGAAATAAAGATGCCTCC
CGGGACTACATCGGCATGGCAGTTGTGGATGGCCAGCTCACCTGTGTCTACAACCTGGGGGACCGTGAGGCTGAA
CTCCAAGTGGACCAGATCTTGACCAAGAGTGAGACTAAGGAGGCAGTTATGGATCGGGTGAAATTTAGAGAATT
TATCAGTTTGCAAGGCTTAATTACACCAAAGGAGCCACATCCAGTAAACCAGAAAACACCCGGAGTCTATGACATG
GATGGTAGAAATAGCAATACACTCCTTAATTTGGATCCTGAAAATGTTGTATTTTATGTTGGAGGTTACCCACCT
GATTTTAAACTTCCCAGTCGACTAAGTTTCCCTCCATACAAAGGTTGTATTGAATTAGATGACCTCAATGAAAAT
GTTCTGAGCTTGTACAACCTTCAAAAAAACATTCAATCTCAACACAACCTGAAGTGAGCCTTGTAGAAGGAGGAAG
GAAGAGTCAGACAAAAATTATTTTGAAGGTACGGGCTATGCTCGAGTTCCAACCTCAACCACATGCTCCCATCCCA
ACCTTTGGACAGACAATTACAGACCACCGTGGATAGAGGCTTGCTGTTCTTTGCAGAAAACGGGGATCGCTTCATA
TCTCTAAATATAGAAGATGGCAAGCTCATGGTGAGATACAACTGAATTACAGAGCTACCAAAAGAGAGAGGAGTT
GGAGACGCCATAAACAACGGCAGAGACCATTGATTACAGATCAAATTTGGAAGAACTCCAAAAGCGTATGTGGATA
AATGTGGACGTTCAAACACTATAATTGATGGTGAAGTATTTGATTTACAGACATATTATCTGGGAGGAATTCCA
ATTGCAATCAGGGAAAGATTTAACATTTCTACGCCTGCTTTCCGAGGCTGCATGAAAAATTTGAAGAAAACCAGT
GGTGTCTGTTAGATTGAATGATACTGTGGGAGTAACCAAAAAGTGCTCGGAAGACTGGAAGCTTGTGCGATCTGCC
TCATTCTCCAGAGGAGGACAATTGAGTTTCACTGATTTGGGCTTACCACCTACTGACCACCTCCAGGCCTCATTT
GGATTCAGACCTTTCAACCCAGTGGCATATTATTAGATCATCAGACATGGACAAGGAACCTGCAGGTCACCTCTG

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FIGURE 5040B

GAAGATGGTTACATTGAATTGAGCACCAGCGATAGCGGCGGCCCAATTTTTAAATCTCCACAGACGTATATGGAT
GGTTTACTGCATTATGTATCTGTAATAAGCGACAACCTCTGGACTACGGCTTCTCATCGATGACCAGCTTCTGAGA
AATAGCAAAAGGCTAAAACACATTTCAAGTTCCCGGCAGTCTCTGCGTCTGGGCGGGAGCAATTTTGAGGGTTGT
ATTAGCAATGTTTTTGTCCAGAGGTTATCACTGAGTCCTGAAGTCCTAGATTTGACCAGTAACCTCTCTCAAGAGA
GATGTGTCCCTGGGAGGCTGCAGTTTAAACAAACCACCTTTTCTAATGTTGCTTAAAGGTTCTACCAGGTTTAAAC
AAGACCAAGACTTTTCGTATCAACCAGCTGTTGCAGGACACACCAGTGGCCTCCCCAAGGAGCGTGAAGGTGTGG
CAAGATGCTTGCTCACCCTTCCCAAGACCCAGGCCAATCATGGAGCCCTCCAGTTTGGGGACATTCCCACCAGC
CACTTCTCTATTCAAGCTTCCTCAGGAGCTGCTGAAACCCAGGTCACAGTTTGCTGTGGACATGCAGACAACATCC
TCCAGAGGACTGGTGTTCACACGGGCACTAAGAACTCCTTTATGGCTCTTTATCTTTCAAAGGACGTCTGGTC
TTTGCACTGGGGACAGATGGGAAAAAATTGAGGATCAAAAGCAAGGAGAAATGCAATGATGGGAAATGGCACACG
GTGGTGTGGCCATGATGGGAAAAGGGGCGCTTGGTTGTGGATGGACTGAGGGCCCGGGAGGGAAAGTTTGCCT
GGAAACTCCACCATCAGCATCAGAGCGCCAGTTTACCTGGGATCACCTCCATCAGGGAAACCAAAGAGCCTCCCC
ACAAACAGCTTTGTGGGATGCCTGAAGAACTTTAGCTGGATTCAAAACCCTTGTATACCCCTTCTTCAAGCTTC
GGGGTGTCTTCTGCTTGGGTGGTCCTTTGGAGAAAAGGCATTTATTTCTCTGAAGAAGGAGGTGATGTCGTCTTG
GCTCACTCTGTATTGTTGGGGCCAGAATTTAAGCTTGTTTTCAGCATCCGCCCAAGAAGTCTCACTGGGATCCTA
ATACACATCGGAAGTCAGCCCGGGAAGCACTTATGTGTTTACCTGGAGGCAGGAAAGGTACAGGCCCTCTATGGAC
AGTGGGGCAGGTGGGACCTCAACGTCGGTCACACCAAAGCAGTCTCTGTGTGATGGACAGTGGCACTCGGTGGCA
GTCACCATAAAACAACACATCCTGCACCTGGAACCTGGACACAGACAGTAGCTACACAGCTGGACAGATCCCCCTC
CCACCTGCCAGCACTCAAGAGCCACTACACCTTGGAGGTGCTCCAGCCAATTTGACGACACTGAGGATCCCTGTG
TGGAAATCATTCTTTGGCTGTCTGAGGAATATTCATGTCAATCACATCCCTGTCCCTGTCACTGAAGCCTTGGAA
GTCCAGGGGCCTGTCAGTCTGAATGGTTGTCCTGACCAGTAAACCCAAGCCTATTTTACAGCAAGGAAATTCACCT
TCAAAAGCACTGATTACCCAATGCACCTCCCTCCCCAGCTCGAGATCATTCTTCAATTAGGACACAAACCAGACA
GGTTTAATAGCGAATCTAATTTTGAATTCTGACCATGGATACCCATCACTTTGGCATTGAGTGTACATGTGTAT
TTTATATAAAAATCCCATTCTTGAAGATAAAAAAATTGTTATTCAAATTGTTATGCACAGAATGTTTTTGGTAA
TATTAATTTCCACTAAAAAATTAAATGTCTTTT

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FIGURE 5041

MGWLWIFGAALGQCLGYSSQQQVRPFLQPPGQSQLQASYVEFRPSQGCSPGYRDKGLYTGRVCPCNCNGHSNQ
CQDGSIGVCVNCQHNTAGEHCERCQEGYYGNAVHGSCRACPCPHTNSFATGCVVNGGDVRCSCKAGYTGTCERCA
PGYFGNPQKFGGSCQPCSCNSNGQLGSCHPLTGDCINQEPKDSSPAEECDDCDSCVMTLLNDLATMGEQLRLVKS
QLQGLSASAGLLEQMRHMETQAKDLRNQLLNYRSAISNHGSKIEGLERELTDLNQEFETLQEKQVNSRKAQTLN
NNVNRAQSAKELDVKIKNVIRNVHILLKQISGTDGEGNNVPSGDFSREWAEAQRMRELNRNFGKHLREAEAD
KRESQLLLNRIRTWQKTHQGENNGLANSIRDSLNEYEAKLSDLRARLQEAAAQAKQANGLNQENERALGAIQRQV
KEINSLOSDFTKYLTADSSLLQTNIALQLMEKSQKEYEKLAAASLNEARQELSDKVRELSRSAGKTSLVEEAEKH
ARSLQELAKQLEEIKRNASGDELVRCAVDAATAYENILNAIKAAEDAANRAASASESALQTVIKEDLPRKAKTSL
SNSDKLLNEAKMTQKKLKQEVSPALNNLQOTLNIVTVQKEVIDTNLTTLRDGLHGIQRGDIDAMISSAKSMVRKA
NDITDEVLDGLNPIQTDVERIKDTYGRTONEDFKKALTDADNSVNKLTKLPDLWRKIESINQQLPLGNISDNM
DRIRELIQQARDAASKVAVPMRFNGKSGVEVRLPNDLEDLKGYSLSLFLQRPNSRENGGTENMFVYLGNKDAS
RDYIGMAVVDGQLTCVYNLGDREAEQVDQILTKSETKEAVMDRVKFQRIYQFARLNYTKGATSSKPEPVGVD
DGRNSNTLLNLDPENNVFYVGGYPPDFKLPSRLSFPYKGCIELDDLNNENVLSLYNFKKTFNLNTTEVEPCRRRK
EESDKNYFEGTGYARVPTQPHAPIPTFGQTIQTTVDRLGLFFAENGDRFISLNIEDGKLMVRYKLNSELPKERGV
GDAINNGRDHSIQIKIGKLQKRMWINVDVQNTIIDGEVDFDSTYYLGGIPIAIRERFNISTPAFRGCMKNLKKTS
GVVRLNDTVGVTKKCEDWKLVRASFSRGGQLSFTDLGLPPTDHLQASFQTFQPSGILLDHQWTWRNLQVTL
EDGYIELSTSDSGGPIFKSPQTYMDGLLHYVSVISDNGLRLIDDQLLRNSKRLKHISRRQSLRLGGSNFEGC
ISNVFVQRLSLSPEVLDLTSNSLKRDVSLGGCSLNKPPFLMLLKGSTRFNKTCTFRINQLLQDTPVASPRSVKVV
QDACSLPKTQANHGAHQFGDIPTSHLLFKLPQELLKPRSQFAVDMQTTSSRGLVFHTGTKNSEFMALYLSKGRLV
FALGTDGKKLRIKSKEKCNKGWHTVVFHGDGEKGRLLVVDGLRAREGSLPGNSTISIRAPVYLGSPPSGKPKSLP
TNSFVGCLKNFQLDSKPLYTPSSSFGVSSCLGGPLEKGIYFSEEGGHVLAHSVLLGPEFKLVFSIRPRSLTGIL
IHIGSQPGKHLVCVYLEAGKVTASMDSGAGGTSTSVTPKQSLCDGQWHSVAVTIKQHILHLELDTDSSYTAGQIPF
PPASTQEPLHLGGAPANLTTLRIPVWKSFFGCLRNHVNHIHVPVTEALEVQGPVSLNGCPDQ

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FIGURE 5042

CCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGTAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGT
GGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGG
GGCAGAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGT
TCCAGCAGCAGCAGTAGCTGTGTCAGTGGCAGAAGATTTTAAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCC
AGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCCTAGC
TGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTGTTTGTGACTA
ATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGCGTTTTAATGTAGAT

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FIGURE 5043

CCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGTAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCCTTAAGTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGTGG
AAGCAATTTTGGAGGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCAT
GAAGGGAGGAAATTTTGGAGGCAGAACTCTGGCCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAAAACCACGAAA
CCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTGTGTCAGTGGCAGAAGATTTTAATTAGGAAACAAAGC
TTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCAC
AGTGGTGGCAGGGCCTAGCTGCTAC

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FIGURE 5044

MSKSKSPKEFEQQRKLFIGGLSFETTDESLRSHCEQWGMLTDCVVMRDPNFKHSRGCGFVTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEHHHLRDYFEQLEAILQVVEATVILAITTISLQI
LDP

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FIGURE 5045

CCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCCTTAAGTGTGAA
AAAGATATTGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGG
GAGGAAATTTTGGAGGCAGAACTCTGGCCCCCT

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FIGURE 5046

CCTTTCTGCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGA
AATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGA
CCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGC
CCTGTCAAAGCAAGAGATGGCTAGTGTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGG
TCGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTTCATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGG
CAGCCGTGCTGGTGGTAGATATGGTGGCAGTGGGGATGGCTCTAATGGATTGGTAATGATGGAAGCAATTTTGG
AGGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAA
TTTTGGAGGCAGAACTCTGGCCCCATGGCGGTGGAGGCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTA
TGGCGGTTCCAGCAGCAGCAGTAGCTGTGTTCAGTGGCAGAAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAG
GAGAGCCAGAGAAGTGACAGGGAAGCCACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGG
GCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTGTTT
GTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGCGTTTTAA
TGTAGATTTTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATGT
CTTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAA
GTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTG
TCTTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGTGACCTGAAGTTTACCATTAAAAGGGATTACCC
AAACAAAGTCATGGAATGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTA
CCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAACAATTTAATTC
TCTTGAA

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FIGURE 5047

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSGFGFVYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPD AHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSQRGRSGSNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSRGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYYN

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FIGURE 5048

AAGTCTCTCTTCACCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACT
GTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCCAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTGGAAGTGTTCTGGAACTTTGGTGGTGGTTCGTGGAGGTGGTTTCGGTGGGAATGACAACTTCGGTC
ATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCAGCTCTAATGGATTGTTGGTAATGATGGAAGCAATTTTG
GAGGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAA
ATTTTGGAGGCAGAACTCTGGCCCCTATGGCGGTGGAGGCCAGTACTTTGCAAACCACGAAACCAAGGTGGC

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FIGURE 5049

ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGA
GCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGA
GAGATCCAAACACCAAGCGCTCCAGGGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTA
TGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAA
GACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAA
GAGATTATTTGAACAGTATGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGG
GCTTTGCCTTTGTAACCTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGCCGTGCTGGTGGTAGATATGG
TGGCAGTGGGGATGGCTCTAATGGATTTGGTAATGATGGAAGCAATTTTGAGGTGGTGGGAAGCTACAATGATTT
TGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGG

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FIGURE 5050

TTTTCTTAGACATTAAC TGCAGACGGCTGGCAGGATAGAAGCAGCGGCTCACTTGGACTTTTTTACCAGGGGAAAT
CAGAGACA**ATG**ATGGGGCTCTTCCCCAGAACTACAGGGGCTCTGGCCATCTTCGTGGTGGTCATATTGGTTTCATG
GAGAATTGCGAATAGAGACTAAAGGTCAATATGATGAAGAAGAGATGACTATGCAACAAGCTAAAAGAAGGCAAA
AACGTGAATGGGTGAAATTTGCCAAACCCTGCAGAGAAGGAGAAGATAACTCAAAAAGAAACCCAATTGCCAAGA
TTACTTCAGATTACCAAGCAACCCAGAAAATCACCTACCGAATCTCTGGAGTGGGAATCGATCAGCCGCTTTTG
GAATCTTTGTTGTTGACAAAAACACTGGAGATATTAACATAACAGCTATAGTCGACCGGGAGGAACTCCAAGCT
TCCTGATCACATGTCGGGCTCTAAATGCCCAAGGACTAGATGTAGAGAAACCACTTATACTAACGGTTAAAAATT
TGGATATTAATGATAATCCTCCAGTATTTTACAAACAAATTTTCATGGGTGAAATTGAAGAAAATAGTGCCTCAA
ACTCACTGGTGATGATACTAAATGCCACAGATGCAGATGAACCAAACCACTTGAATTCTAAAATTGCCTTCAAAA
TTGTCTCTCAGGAACCAGCAGGCACACCCATGTTTCTCTAAGCAGAAACACTGGGGAAGTCCGTACTTTGACCA
ATTCTCTTGACCGAGAGCAAGCTAGCAGCTATCGTCTGGTTGTGAGTGGTGCAGACAAAGATGGAGAAGGACTAT
CAACTCAATGTGAATGTAATATTAAGTGAAAGATGTCAACGATAACTTCCCAATGTTTAGAGACTCTCAGTATT
CAGCACGTATTGAAGAAAATATTTTAAGTTCTGAATTACTTCGATTTCAAGTAACAGATTTGGATGAAGAGTACA
CAGATAATTGGCTTGCAAGTATATTTCTTTACCTCTGGGAATGAAGGAAATTGGTTTGAAATACAAACTGATCCTA
GAACTAATGAAGGCATCCTGAAAGTGGTGAAGGCTCTAGATTATGAACAACACTACAAAGCGTGAACTTAGTATTG
CTGTCAAAAACAAAGCTGAATTTACCAATCAGTTATCTCTCGATACCGAGTTCAGTCAACCCAGTCACAATTC
AGGTAATAAATGTAAGAGAAGGAATTGCATTCGGTCTCTGCTTCCAAGACATTTACTGTGCAAAAAGGCATAAGTA
GCAAAAATTTGGTGGATTATATCCTGGGAACATATCAAGCCATCGATGAGGACACTAACAAAGCTGCCTCAAATG
TCAAATATGTCATGGGACGTAACGATGGTGGATACCTAATGATTGATTCAAAAACCTGCTGAAATCAAATTTGTCA
AAAATATGAACCGAGATTCTACTTTCATAGTTAACAAAACAATCACAGCTGAGGTTCTGGCCATAGATGAATACA
CGGGTAAAACCTTCTACAGGCACGGTATATGTTAGAGTACCCGATTTCAATGACAATTGTCCAACAGCTGTCTCG
AAAAAGATGCAGTTTGCAGTTCTTCACCTTCCGTGGTTGTCTCCGCTAGAACACTGAATAATAGATACACTGGCC
CCTATACATTTGCACTGGAAGATCAACCTGTAAAGTTGCCTGCCGTATGGAGTATCACAAACCTCAATGCTACCT
CGGCCCTCCTCAGAGCCCAGGAACAGATACCTCCTGGAGTATACCACATCTCCCTGGTACTTACAGACAGTCAGA
ACAATCGGTGTGAGATGCCACGCAGCTTGACACTGGAAGTCTGTCTAGTGTGACAACAGGGGCATCTGTGGAACCT
CTTACCCAACCACAAGCCCTGGGACCAGGTATGGCAGGCCGCACTCAGGGAGGCTGGGGCCTGCCGCCATCGGCC
TGCTGCTCCTTGGTCTCCTGCTGCTGCTGTTGGCCCCCTTCTGCTGTTGACCTGTGACTGTGGGGCAGGTTCTA
CTGGGGGAGTGACAGGTGGTTTTATCCAGTTTCTGATGGCTCAGAAGGAACAATTCATCAGTGGGGAAATTGAAG
GAGCCCATCCTGAAGACAAGGAAATCACAAATATTTGTGTGCCTCCTGTAACAGCCAATGGAGCCGATTTTCATGG
AAAGTTCTGAAGTTTGTACAAATACGTATGCCAGAGGCACAGCGGTGGAAGGCACCTTCAGGAATGGAAATGACCA
CTAAGCTTGGAGCAGCCACTGAATCTGGAGGTGCTGCAGGCTTTGCAACAGGGACAGTGTGAGGAGCTGCTTCAG
GATTCGGAGCAGCCACTGGAGTTGGCATCTGTTCTCAGGGCAGTCTGGAACCATGAGAACAAGGCATTCCACTG
GAGGAACCAATAAGGACTACGCTGATGGGGCGATAAGCATGAATTTTCTGGACTCCTACTTTTCTCAGAAAGCAT
TTGCCTGTGCGGAGGAAGACGATGGCCAGGAAGCAAAATGACTGCTTGTTGATCTATGATAATGAAGGCGCAGATG
CCACTGGTTCTCCTGTGGGCTCCGTGGGTTGTTGCAGTTTTATTGCTGATGACCTGGATGACAGCTTCTTGGACT
CACTTGGACCCAAATTTAAAAAACTTGCAAGATAAGCCTTGGTGTGATGGTGAAGGCAAGAAGTTCAGCCAC
CCTCTAAAGACAGCGGTTATGGGATTGAATCCTGTGGCCATCCCATAGAAGTCCAGCAGACAGGATTTGTTAAGT
GCCAGACTTTGTCAGGAAGTCAAGGAGCTTCTGCTTTGTCCGCCTCTGGGTCTGTCCAGCCAGCTGTTTCCATCC
CTGACCTCTGCAGCATGGTAACTATTTAGTAACGAGACTTACTCGGCTTCTGGTTCCCTCGTGCAACCTTCCA
CTGCAGGCTTTGATCCACTTCTCACACAAAATGTGATAGTGACAGAAAGGGTGATCTGTCCCATTTCAGTGTTT
CTGGCAACCTAGCTGGCCCAACGCAGCTACGAGGGTCACATACTATGCTCTGTACAGAGGATCCTTGCTCCCGTC
TAATA**TGA**CCAGAATGAGCTGGAATACCACACTGACCAATCTGGATCTTTGGACTAAAGTATTCAAAATAGCAT
AGCAAAAGCTCACTGTATTGGGCTAATAATTTGGCACTTATTAGCTTCTCTCATAAACTGATCACGATTATAAATT
AAATGTTTGGGTTTCATACCCCAAAAGCAATATGTTGTCACTCCTAATTCTCAAGTACTATTCAAATTTAGTAAA
TCTTAAAGTTTTTCAAACCCCTAAAATCATATTCG

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FIGURE 5051

MMGLFPRTTGALAI FVVVILVHGELRIETKGQYDEEEMTMQQAKRRQKREWVKFAKPCREGEDNSKRNP IAKITS
DYQATQKITYRISGVGIDQPPFGIFVVDKNTGDINITAIVDREETPSFLITCRALNAQGLDVEKPLILTVKILDI
NDNPPVFSQQIFMGEIEENSASNSLVMILNATDADEPNHLNSKIAFKIVSQEPAGTPMFLLSRNTGEVRTL TNSL
DREQASSYRLVVS GADKDGEGLSTQCECNIKVKDVNDNFPMFRDSQYSARIEENILSSELLRFQVTDLD E EYTDN
WLAVYFFTSGNEGNWF EIQTDPR TN E GILKVV KALDYEQLQSVKLSIAVKNKAEFHQSVISRYRVQSTPVTIQVI
NVREGIAFRPASKTFTVQKGISSKKLVDYILGTYQAIDEDTNKAASNVKYVMGRNDGGYLMIDSKTAEIKFVKNM
NRDSTFIVNKTITAEVLAIDEYTGKTSTGT VYVRVPDFNDNCPTAVLEKDAVCSSSPSVVVSARTLNNRYTG PYT
FALEDQPVKLP AVWSITTLNATSALLRAQE QIPPGVYHISLVLTDSQNNRCEMPRSLTLEVCQCDNRGICGTSYP
TTSPGTRYGRPHSGRLGPAAIGLLLLLGLLLLLLLAPLLLLLTCD CGAGSTGGVTGGFIPVPDGSEGTIHWGIEGAH
PEDKEITNICVPPVTANGADFMESSEVCTNTYARGTAVEGTSGMEMTTKLGAATESGGAAGFATGTVSGAASGFG
AATGVGICSSGQSGTMRTRHSTGGTNKDYADGAISMNFLDSYFSQKAFACAEEDDGQEANDCLLIYDNEGADATG
SPVGSVGCCSFIADDDLSFLDSLGPKFKKLAEISLGVDGEGKEVQPPSKDSGYGIESCGHPIEVQQTG FVKCQT
LSGSQGASALSASGSVQPAVSIPDPLQHGNYLVTETYSASGSLVQPSTAGFDPLLTQNVIVTERVICPISSVPGN
LAGPTQLRGSHTMLCTEDPCSR LI

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FIGURE 5052

CCCACGCGTCCGGATGGTCCTGGTCACAAAATATTAAAGAGACCGACCGCTAAGGGAACAGGAAAAACGTCCGAG
ACAGCCGTTGCAATTACGAATGGACCAGACTTGGTAGCACGGGGCATTGATTGCTGGTGCCCAACCGGACCCCTCC
TCCCCCTCTTCCCATCCCTTCCCCACCCAAAGCAGGCTCCCGCTGCGGCCGGGACCTCGCATCCCTGCAACGTGG
CCGGGGCTGCATTTTTTCATGAGCCTAGGGTGAACAGGTGCGAAGTGCCTGGGAGCATCCGGCCAGCGGCCGAGC
GCGGGGAACATGGAGAGCGAGCGGACATGTACCGCCAGTTCAGGACTGGTGCCTCAGGACTTACGGGGACTCA
GGCAAGACCAAGACGGTGACCCGTAAAAAATACGAACGGATCGTCTAGCTCCTCAATGGCTCCGAGTCGAGCTCC
ACGGACAACGCCAAATTTAAATTCTGGGTCAAATCGAAGGGCTTCCAGCTGGGCCAGCCGGACGAGGTCCGCGGG
GGAGGCGGCGGCCAAGCAAGTGTCTAGTGCCTGTCAAGACCACGGATGGCGTAGGGGTAGATGAGAAGCTAT
CTTTACGACGGGTAGCTGTGGTTGAAGATTTCTTTGACATTATTTATTTCGATGTCATGTGGAAACGGGGCCAAATG
GAGAACAAATTCGGAACACGCTGGACAAAAGAGAACTTACAAAGCAATTTAGAGAGCTATGCCTTCTTACCAA
GAGAAGCGGTGACACGATTTCTAATGAGCTGCTCAGAGTGCCAGAAAAGAATGCATTTAAACCCAGATGGAACAG
ATCATAAAGATAATGGAAAACCTCCCACTTTGGTGACCAGCATGATTGACTACAACATGCCAATTACCATGGCCT
ACATGAAACACATGAAGCTGCAGCTGCTAAACTCACAGCAAGATGAGGATGAAAGTTCAATAGAAAGTGATGAAT
TTGACATGAGTGATTCAACACGGATGTGAGCTGTGAACTCTGATCTTAGCTCCAATCTTGAAGAAAAGATGCAAA
GTCCCCAGAATCTTCATGGCCAGCAAGATGATGATTCTGCTGCAGAGAGCTTTAATGGCAATGAGACTCTGGGGC
ACAGTTCAATTGCTTCAGGGGGAACACACAGCAGGGAGATGGGAGACTCCAACAGTGATGGCAAAAACCTGGGCTGG
AGCAAGATGAACAGCCACTGAACCTGAGTGACAGTCCCCCTCTCTGCGCAGCTAAGTTCCGAATACAGAATAGATG
ATCACAACAGTAATGGGAAAAACAAGTATAAGAATCTTCTAATTTCTGACCTCAAGATGGAACGAGAGGCGAGAG
AAAATGGAAGCAAGTCTCCTGCACATAGTTACTCCAGCTATGACTCTGGCAAAAATGAGAGTGATAGACCGAGGAG
CTGAGGACCTCTCACTAAACAGGGGAGATGAGGACGAAGATGACCACGAGGACCATGACGATTCGGAGAAAGTTA
ATGAGACAGACGGCGTTGAAGCCGAGCGGCTGAAAGCTTTTAATATGTTTGTGAGGCTGTTTGTAGATGAAAAC
TGGACCGAATGGTCCCAATCTCTAAGCAGCCCAAGAAAAGATCCAGGCTATCATTGACTCATGCAGGCGACAAT
TCCCTGAGTATCAAGAGCGTGCCAGAAAACGTATACGTACTTACCTCAAGTCTGCAGGCGGATGAAAAGAAGTG
GTTTTGAGATGTCTCGACCTATTCTTCCACCTTACTTCAGCAGTTGCAGAGAGTATCTTGGCTTCAGCTTGTG
AGAGTGAGAGTAGAAATGCCGCCAAGAGGATGCGTCTGGAGAGACAGCAGGATGAGTCTGCTCCAGCTGACAAAC
AGTGTAACCAGAGGCGACCCAGGCCACTTACTCAACATCAGCTGTTCCAGGCTCACAGGACGTGCTGTACATCA
ATGGAATGGGACCTATAGTTACCATAGTTACAGAGGGCTAGGAGGGGGTCTGCTAAATCTGAATGATGCTTCCA
GCAGTGGACCCACTGATCTCAGCATGAAGAGACAATTGGCGACTAGCTCAGGATCCTCCAGCAGCTCAAACCTCA
GACCCAGCTGAGTCCAATGAAATCAATGCCGTGAGACAGCTTGTTCAGGATATCGAGAATCAGCTGCATTTT
TATTGCGATCTGCAGATGAAGTGGAAAATCTCATTTTACAACAGAACTGAGACAGACGACCACCATATTTCACTGA
GGTCTAAATTTGCAGTTCCACTAATGACATTTTGATTTCCCAACAGAGATACTTCTGGTCTTACTGCACAGTCTT
TTAAGAGAAAATACTTCCATTATGCCACATTGTCTTGATCCGTAAGTGATGTGTTAAGGTGCTTCAAAGGAACTC
TGACCTCTGAAGTACTTGAGCTACTTTAGTATGTCCAGCCTATTGCTTTTTGTTTTAGTGTGTACCATAAATAT
CAGGGGCATAAAAGGCTATCTATTCTTAATTCAAGGATAAAACAGAAGAAGCTTGTGGTATAAAACAATAGTTCA
AGATCCAGCTGAAATATTAGTGGAATTTGCTACTGACTCATTGGACTGAAAGCTGAAGTACCTGGCAAAAAAAA

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FIGURE 5053

MHVETGPNGEQIRKHAGQKRTYKAISESYAFLPREAVTRFLMSCSECQKRMHLNPDGTDHKDNGKPPTLVTS MID
YNMPITMAYMKHMKLQLLNSQQDEDESSIESDEFDMSDSTRMSAVNSDLSSNLEERMQSPQNLHGQQDDDSAAES
FNGNETLGHSSIASGGTHSREMGDSDGKTGLEQDEQPLNLSDSLPLSAQLTSEYRIDDHNSNGKNKYKNLLISD
LKMEREARENGSKSPAHSYSSYDSGKNESVDRGAEDLSINRGDEDEDDHEDHDDSEKVNETDGVEAERLKAFNMF
VRLFVDENLDRMVPISKQPKEKIQAIIDSCRRQFPFYQERARKRIRTYLKSCRRMKRSGFEMSRPIPSHLTSAVA
ESILASACESES RNAAKRMRLERQQDESAPADKQCKPEATQATYSTSAVPGSQDVLYINGNGTYSYHSYRGLGGG
LLNLNDASSSGPTDLSMKRQLATSSGSSSSSNSRPQLSPTEINAVRQLVAGYRESAAFLRSADLENLILQQN

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FIGURE 5054

ATCTTGCTGGTTTGC GGCCGGTCTTG GATGAAGCGGCGGCGGTGGTGAGAGCGTGGGGAAGGGTGGGGTGAGGGG
GCGAGGCCGCGAGCTAGGGCGGCGAAACTCTCCTCCCCCTCGGCCCCACCGCGTGGGACGGCGTGAACGTGGTGTCTG
GAGGGATGTCAGCCTTCTCTGAGGCGGCGCTGGAGAAGAAGCTGTCGGAGTTGAGCAACTCGCAGCAGAGCGTGC
AGACCTTGTCCCTGTGGCTCATTACCACCGTAAACACTCGCGTCCCATCGTCACCGTGTGGGAGCGGGAGCTGC
GGAAAGCCAAACCAAACAGGAAGCTTACTTTTCTCTACCTAGCCAATGATGTCATACAGAACAGCAAGAGGAAGG
GGCCAGAGTTTACAAAAGATTTTGCACCAGTTATAGTGGAGGCTTTTAAGCATGTTTCAAGTGAAACTGATGAAA
GTTGTAAGAAGCACCTTGGAAGAGTGTTATCTATTTGGGAAGAAAAGGTCTGTTTATGAAAATGATGTATTAGAAC
AACTTAAACAAGCTCTGTATGGTGATAAGAAGCCTAGGAAGCGAACTTATGAACAGATAAAGGTGGATGAAAATG
AAAAGTGTTCCTCTCTGGGATCTCCAAGTGAACCAACACAGACTCTAGATCTCGTTAGAGCATTACAAGATCTGG
AAAATGCAGCCTCAGGTGATGCAGCAGTTCATCAGAGGATAGCTTCTTTACCTGTTGAAGTCCAAGAAGTATCTC
TATTAGATAAAAAATAACAGATAAAGAATCTGGAGAAAAGGCTTTCCAAAATGGTAGAGGATGCGTGTATGTTGCTGG
CAGATTACAATGGCAGATTGGCGGCAGAAATAGATGATAGAAAAGCAACTCACTCGAATGTTAGCAGATTTTCTTC
GTTGTCAAAAAGGAAGCCCTTGCGAGAGAAAGAGCATAAAATTGGAAGAGTACAAGCGCAAGCTAGCCAGAGTTTCCC
TGGTGCGCAAAAGAACTCAGGTCCCGGATCCAGAGCCTGCCAGACTTATCTCGATTGCCCAATGTCAGTGGCAGCC
ACATGCACCTGCCCTTTGCGGGAGACATCTACAGTGAAGATTGATGGACCAGCCTCTTTCCAGGTCCCAGGACTT
TGCAAGAGATGGAGACAGGTTAGGTGGATAGTCCTGTAGTGTTATTTTTGTATATTGTTGAGAAAAGAAACACTAA
CAAAAGGAACAACGAGTAATTTATAAAATTGTTTAAATGTTGGTTTGTACTATTTTATTGGTAAATTAACAT
GACTTAATTTGAACAAAGTGATGATTTGTGTGTATTAATAAGCTCACAAATAGTGATTATTTTCAAAAGATCTTT
TTGTAAATTTTTTTTTTTGATCCAAGGCCTTGAGAGAAATCTCTTGTGTTGATTTCTTCAGGTATTTTCAATTGTT
TTTCTTTATTTTCTTCAGCATTAAATCACTGTATACTATGTAATTCCTGAAGGGGAAGAACTAATTAGGAGTTGA
TTGAGACTTTATTATGGTATAGTTAGGACTTGATTGTAGAAGGGACTAAATGTTCCAACATAATCTTTACCCTTC
TCCCCAAACAAAATATCAATTCTGTGTCTCTACATGCCTTTGATTCCCTTAGAGGTCGGTAATTTAACATAAAACA
GGGATGTCACCTTTGAGGGGCAGATGAAAGTCTAGAGAACTGTTCCCTTAATAGCATTGTAAAAGTTCCATTCCAAC
TGCCAGTGTAGATTTTAAAAGTGTTAAATAGTGACTCCCTTGATTAAACTGTTTGTAATTATTTGAGTAGATTAA
TAATGAAAATACTTTGGAATAATATACATTTTGACATTCTACCAAGAGGACAACCTTTGGTCTGGAAGTGGTTT
CTATTTGTCAAATCAGTTTCCTTTTAAACATAATTAATCCCTTTAACAAAAAGCCGTCTATGGGATTTAAAGACAC
GTGAAATGATACTTTTATTATTCCCTTGCTCATATAACTTTAAAAATAATACTTTTAGCTCTAATAGCTCAAGAA
CACAAATATTCGTTAATGTTTCAAGTAAAGTAGCCTGAGACATTTTCAATGTTTCCTTAAGGTTTTTGAATGACTGTA
TATTTGGCAGTTAAGCAGTGCCACACTACAGGGTAGATATGGTAAATTTTATATTTGTATATTTACAGTTACAAA
ACAAATGTACTTTTACCTTTTATTTCTGACCCTGTGTGTTAGAGCAGTTGCATGCTCTCCTGCTGTAAAAACAC
ATTGTTAAGCTGTGGATTTGTACTCAATAATGACTTAGGATAAACATTTATTTTCATTCAATTGCTTTACATACTA
GACATTTTCTTCTCTTTGTAAGTAGATTCAAAATTAGATAGTCAATAAAACATCTTGAAAAATCCCAACAAGCC

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FIGURE 5055

ACCGCGTGTTTCGCGCCTGGTAGAGATTTCTCGAAGACACCAGTGGGCCCCGTTCCGAGCCCTCTGGACCGCCCCGTG
TGGAACCAAACCTGCGCGCGTGGCCGGGCCGTGGGACAACGAGGCCGCGGAGACGAAGGCGCAATGGCGAGGAAG
TTATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTACAAATCCCCTTCATGAAGTAAAGCAGCTGCTTTC
CCCCAGACCACTGAGAAAATTAGTCCGAATTGGGAATCTGGCATTAAATGTTGACTTGGCAATTTCCACACGGCAA
TATCATCTACAACAGCTTTTTCTACCGCTATGGAGAAAATAATTCTTTGTGAGTTGAAGGGTTCAGAAAATTACTT
CAAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCAT
CACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGAGCACGAGCATCACTCTGACCATGATCATCAC
TCTCACCATAATCATGCTGCTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCAGACCATGACTCAGATAGTTCA
GGTAAAGATCCTAGAAACAGCCAGGGGAAAGGAGCTCACCGACCAGAACATGCCAGTGGTAGAAGGAATGTCAAG
GACAGTGTTAGTGCTAGTGAAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACACTCACTTTCTAGAGACA
ATAGAGACTCCAAGACCTGGAAAACCTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTACATCAAAAG
AGCCGGGTGAGCCGGCTGGCTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCC
AGAAACACAAATGAAAATCCTCAGGAGTGTTTCAATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAG
GTTCCGCTGAATGCAACAGAGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTGATGCTAGATCTTGTCTG
ATTATACAAAGTGAAGAAGGCTGAAATCCCTCCAAAGACCTATTATTACAAATAGCCTGGGTTGGTGGTTTTT
ATAGCCATTTCCATCATCAGTTTCTGTCTCTGCTGGGGTTTATCTTAGTGCCTCTCATGAATCGGGTGTTTTTT
AAATTTCTCTGAGTTTCTTGTGGCACTGGCCGTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTTCCA
CATTCTCATGCAAGTCAACCATAGTCATAGCCATGAAGAACCAGCAATGGAAATGAAAAGAGGACCACTTTTC
AGTCATCTGTCTTCTCAAACATAGAAGAAAGTGCCATTTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGA
GGCCTGTATTTTCATGTTTCTTGTGAACATGTCTCACATTGATCAAACAATTTAAAGATAAGAAGAAAAAGAAT
CAGAAGAAACCTGAAAATGATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACA
AATGAGGAGAAAGTAGATACAGATGATCGAAGTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTT
GATTCTCAGCAGCCTGCAGTCTTGAAGAAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAAT
GAATATGTACCCAGAGGGTGCAAGAATAAATGCCATTACATTTCCACGATACACTCGGCCAGTCAGACGATCTC
ATTACCAACCATCATGACTACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCCTCACAGTCACAGC
CAGCGCTACTCTCGGGAGGAGCTGAAAGATGCCGGCGTCGCCACTCTGGCCTGGATGGTGATAATGGGTGATGGC
CTGCACAATTTACGCGATGGCCTAGCAATTGGTGCTGCTTTTACTGAAGGCTTATCAAGTGGTTAAGTACTTCT
GTTGCTGTGTTCTGTCTATGAGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCGTT
AAGCAGGCTGTCTTTATAATGCATTGTGAGCCATGCTGGCGTATCTTGGAATGGCAACAGGAATTTTCATTGGT
CATTATGCTGAAAATGTTTCTATGTGGATATTTGCACTTACTGCTGGCTTATTCATGTATGTTGCTCTGGTTGAT
ATGGTACCTGAAATGCTGCACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGTATTTCTTTTTTACAGAAT
GCTGGGATGCTTTTGGGTTTTTGAATTATGTTACTTATTTCCATATTTGAACATAAAAATCGTGTTTCGTATAAAT
TTCTAGTTAAGGTTTTAAATGCTAGAGTAGCTTAAAAAGTTGTCTAGTTTTCAGTAGGTCATAGGGAGATGAGTTT
GTATGCTGTACTATGCAGCGTTTTAAAGTTAGTGGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAA
GTCAGTTAAAGGTACGTTTTAATATTTAAGTTATTCTATCTTGGAGATAAAAATCTGTATGTGCAATTCACCGGTA
TTACCAGTTTATTATGTAAACAAGAGATTTGGCATGACATGTTCTGTATGTTTCAGGGAAAAATGTCTTTAATGC
TTTTTCAAGAACTAACACAGTTATTCTATACTGGATTTTAGGTCTCTGAAGAACTGCTGGTG

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FIGURE 5056

AGTTGGCGACATGGTGGCACCCGTGCTGGAGACTTCTCACGTGTTTTGCTGCCCAAACCGGGTGCGGGGAGTCCT
GAACTGGAGCTCTGGGCCAGAGGACTTCTGGCCTTTGGCACGTCCTGCTCCGTGGTGCTCTATGACCCCCCTGAA
AAGGGTTGTTGTTACCAACTTGAATGGTCACACCGCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGATGG
CTCCCCCTTCTACTGAATTAGTTTTCTGGAGGATCTGATAATCAAGTGATTCACTGGGAAATAGAGGATAATCAGCT
TTTAAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTATGCGGTGCATGCTGTTTACCAGAGGAGGACATC
AGATCCTGCATTATGTACACTGATCGTTTCTGCAGCTGCAGATTCTGCTGTTTCGACTCTGGTCTAAAAAGGGTCC
AGAAGTAATGTGCCTTCAGACTTTAAACTTTGGAAATGGATTTGCTTTGGCTCTCTGCTTATCTTTTTTGCCAAA
TACTGATGTACCAATATTAGCATGTGGCAATGATGATTGCAGAATTCACATATTTGCTCAACAAAATGATCAGTT
TCAGAAAGTGCTTTCTCTCTGTGGACATGAGGATTGGATTAGAGGAGTGAATGGGCAGCCTTTGGTAGAGATCT
TTTCTAGCAAGCTGTTTACAAGATTGCCTGATAAGAATATGGAAGCTGTATATAAAGTCAACATCTTTAGAAAC
TCAGGATGACGATAACATAAGACTGAAAGAAAATACTTTTACCATAGAAAATGAAAGTGTTAAAAATAGCATTTCG
TGTTACTCTGGAGACAGTGCTAGCCGGTTCATGAAAACCTGGGTAAATGCAGTTCAGTGGCAACCTGTGTTTTACAA
AGATGGTGTCTTACAGCAGCCAGTGAGATTATTATCTGCTTCCATGGATAAAACCATGATTCTCTGGGCTCCAGA
TGAAGAGTCAGGAGTTTGGCTAGAACAGGTTTCGAGTAGGTGAAGTAGGTGGGAATACTTTGGGATTTTTATGATTG
CCAGTTCAATGAAGATGGCTCCATGATCATTGCTCATGCTTTCCACGGAGCGTTGCACCTTTGGAAACAGAATAC
AGTTAACCCAAGAGAGTGGACTCCAGAGATTGTCATTTACAGGACACTTTGATGGTGTCCAAGACCTAGTCTGGGA
TCCAGAAGGAGAATTTATTATCACTGTTGGTACTGATCAGACAACCTAGACTTTTTGCTCCATGGAAGAGAAAAGA
CCAATCACAGGTGACTTGGCATGAAATTGCAAGGCCTCAGATACATGGGTATGACCTGAAATGTTTGGCAATGAT
TAATCGGTTTCAGTTTGTATCTGGAGCAGATGAAAAAGTTCTTCGGGTTTTTTCTGCACCTCGGAATTTTGTGGA
AAATTTTTGTGCCATTACAGGACAATCACTGAATCATGTGCTCTGTAATCAAGATAGTGATCTTCCAGAAGGAGC
CACTGTCCCTGCATTGGGATTATCAAATAAAGCTGTCTTTCAGGGAGATATAGCTTCTCAGCCTTCTGATGAAGA
GGAGCTGTAACTAGTACTGGTTTTGAGTATCAGCAGGTGGCCTTTCAGCCCTCCATACTTACTGAGCCTCCAC
TGAGGATCATCTTCTGCAGAATACTTTGTGGCCTGAAGTTCAAAAACCTATATGGGCACGGTTATGAAATATTTTG
TGTTACTTGTAACAGTTCAAAGACTCTGCTTGCCTCAGCTTGTAAGGCAGCTAAGAAAGAGCATGCAGCTATCAT
TCTTTGGAACACTACATCTTGAAACAGGTGCAGAATTTAGTTTTCCACAGTTTGACAGTCACGCAGATGGCCTT
CTCACCTAATGAGAAGTTCTTACTAGCTGTTTCCAGAGATCGAACCTGGTCATTGTGGAAAAAGCAGGATACAAT
CTCACCTGAGTTCGAGCCAGTTTTTAGTCTTTTTGCCTTCACCAACAAAATTACTTCTGTGCACAGTAGAATTAT
TTGGTCTTGTGATTGGAGTCCTGACAGCAAGTATTTCTTCACTGGGAGTCGAGACAAAAGGTGGTTGTCTGGGG
TGAGTGCGACTCCACTGATGACTGTATTGAGCACAACATTGGCCCCCTGCTCCTCAGTCCTGGACGTGGGTGGGGC
TGTGACAGCTGTCAGCGTCTGCCCAGTGCTCCACCCTTCTCAACGATACGTGGTTGCAGTAGGATTGGAGTGTGG
AAAGATTTGCTTATATACCTGGAAAAAGACTGATCAAGTTCCAGAAATAAATGACTGGACCCACTGTGTAGAAAC
AAGTCAAAAGCCAAAGTCATACACTGGCTATCAGAAAAATTATGCTGGAAGAATTGCAGTGGAAAAACTGAACAGAA
GGAAGCAGAAGGTGCTGAGTGGTTACACTTTGCAAGCTGTGGTGAAGATCACACTGTGAAGATACACAGAGTCAA
TAAATGTGCACTGTAAATGG

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FIGURE 5057

MVAPVLETSHVFCCPNRVRGVNLWSSGPRGLLAFGTSCSVVLYDPLKRVVVTNLNGHTARVNCIQWICKQDGSPS
TELVSGGSDNQVIHWEIEDNQLLKAVHLQGHEGPVYAVHAVYQRRTS DPALCTLIVSAAADS AVRLWSKKGP EVM
CLQTLNFGNGFALALCLSFLPNTDVPILACGNDDCRIHIFAQQNDQFQKVLSLCGHEDWIRGVEWAAFGRDLFLA
SCSQDCLIRIWKLYIKSTSLETQDDDNIRLKENTFTIENESVKIAFAVTLETVLAGHENWVNAVHWQPVFYKDG
LQQPVRLLSASMDKTMILWAPDEESGVWLEQVRVGEVGGNTLGFYDCQFNEDGSMIIAHAFHGALHLWKQNTVNP
REWTP EIVISGHFDGVQDLVWDPEGEFIITVGTDQTTRLFAPWKRKQSQVTWHEIARPQIHGYDLKCLAMINRF
QFVSGADEKVLRVFSAPRNFVENFCAITGQSLNHVLCNQSDLP EGATVPALGLSNKAVFQGD IASQPSDEEELL
TSTGFEYQQVAFQPSILTEPPTEDHLLQNTLWPEVQKLYGHGYEIFCVTCNSSKTLLASACKAAKKEHAAIILWN
TTSWKQVQNLV FHSLTVTQMAFSPNEKFLLAVSRDRTWSLWKKQDTISPEFEPVFSLFAFTNKITSVHSRIIWSC
DWSPDSKYFFTGSRDKKVVVWGECDSTDDCIEHNIGPCSSVLDVGGAVTAVSVCPVLHPSQRYVVAVGLECGKIC
LYTWKKTDQVPEINDWTHCVETSQSQSHTLAIRKLCWKNC SGKTEQKEAEGAEWLHFASCGEDHTVKIHRV NKCA
L

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FIGURE 5058

CTCTCCTCCCGCCGCCCAAGATGCCGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCCTGCTGTCTG
TGAAGAAGCAGGAGGCTAAGAAAGTGGTGAATCCCCTGCTTGAGAAAAGCCCTAAGAATTTTGGCATTGGACAGG
ACATCCAGCCCAAAAGAGACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCGGCAGAGAGCCA
TCCTCTATAAGCGGCTGAAAGTGCCTCCTGCGATTAACCAAGTTACCCAGGCCCTGGACCGCCAAACAGCTACTC
AGCTGCTTAAGCTGGCCCAAAATACAGACCAGAGACAAAGCAAGAGAAGAAGCAGAGACTGCTGGCCCGGGAGG
AGAAGAAAGCTGCTGGCAAAGGGGACGTCCCCACGAAAAGACCACCTGTCCTTCGAGCAGGAGTTAATACCGTCA
CCACCTTGGTGGAGAACAAAGAAAGCTCAGCTGGTGGTAATTGCACATGACGTGGATCCCATCGAGCTGGTTGTCT
TCTTGGCTGCCCTGTGTCGTAAAATGGGGGTCCCTTACTGCATTATCAAGGGGAAGGCAAGACTGGGACGTCTAG
TCCACAGGAAGACCTGCACCACTGTCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCACCTTTGGCTAAGCTGA
TGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGATCCGCCGTCCTGGGGCGGCAACGTCCTGGGTC
CTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGGCTAAAAGACCTTGCCACTAACTGGGTTAAATGT
ACACTGTTGAGTTTTCTGTACATAAAAATAATTAAATAATACAAATTTTCTTC

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FIGURE 5059

MPKGKKAKGKKVAPAPAVVKKQEAKKVVNPLLEKRPKNFGIGQDIQPKRDLTRFVKWPRYIRLQRQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAKYRPETKQEKQRLAREEKKAAGKGDVPTKRPPVLRAGVNTVTTLVENK
KAQLVVIAHDVDP IELVVFLAALCRKMGVPYCI IKGKARLGRLVHRKTCTTVAFTQVNSEDKGTLAKLMEAIRTN
YNDRYDEIRRHWGGNVLGPKSVARIAKLEKAKAKDLATKLG

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FIGURE 5060

GGCACGAGGGCGGGGCGCATCTCCCGCTAGGAGTTCCTAGTAAAGTGGCGGGAGCCGCAGCTATGGAGCCGCAGG
AGGAGAGAGAAACGCAGGTTGCTGCGTGGTTAAAAAAAATATTTGGAGATCATCCTATTCCACAGTATGAGGTGA
ACCCACGGACCACAGAGATTTTACATCACCTTTCAGAACGCAACAGGGTCCGGGACAGGGATGTCTACCTGGTAA
TAGAGGACTTGAAGCAGAAAGCAAGTGAATACGAGTCAGAAGCCAAGTATCTTCAAGACCTTCTCATGGAGAGTG
TGAATTTTTCCCCCGCCAATCTCTCTAGCACTGGTTCAGGTATCTGAATGCTTTGGTTGACAGTGCGGTGGCCC
TTGAAACAAAGGATACCTCGCTAGCTAGTTTTATCCCTGCAGTGAATGATTTGACCTCTGATCTCTTTCGTACCA
AATCCAAAAGTGAAGAAATCAAGATTGAACTGGAAAACTTGAAAAAATTTAACTGCAACTTTAGTATTAGAAA
AATGTCTACAAGAGGATGTCAAGAAAGCAGAGTTGCATCTGTCTACAGAAAGGGCCAAAGTTGATAATCGTCGTC
AGAACATGGACTTTCTAAAAGCAAAGTCAGAGGAATTCAGATTGGAATCAAGGCTGCAGAGGAGCAACTTTCAG
CCAGAGGCATGGATGCTTCTGTCTCATCAGTCCTTAGTAGCACTATCAGAGAACTGGCAAGATTAAAGCAAC
AGACTATACCTTTGAAGAAAAAATTGGAGTCCTATTTAGACTTAATGCCGAATCCGTCTCTTGCTCAAGTGAAAA
TTGAAGAAGCAAAGCGAGAACTAGATAGCATTGAAGCTGAACTTACAAGAAGAGTAGACATGATGGAAGTGTAC
AAAAAGCCAAATAAACATCCTTTTCCCTAACAAAGTAAATTGAATAGGACTTTACAGAGTTCTTTTTCTCTTGGC
ATTTCTTAATAACAAAACCTTTCTGTGTTCTTAGATTACAGAATATCATAATTGATAGAATATGGTTTCTTACTGT
GTGTTGCATTTTTGTGCCCAAATACATAGTTTTTCATATTAAAAAGCCTTTTCTTTAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5061

MEPQEERETQVAAWLKKIFGDHPIPOYEVNPRTEILHHLSENRNRVRDRDVYLVIEDLKQKASEYESEAKYLQDL
LMESVNFSPANLSSTGSRYLNALVDSAVALETKDTSASFIPAVNDLTSDLFRTKSKSEEIKIELEKLEKNLTAT
LVLEKCLQEDVKKAELHLSTERAKVDNRRQNMDFLKAKSEEFRTGFIKAAEEQLSARGMDASLSHQSLVASEKLA
RLKQQTIFLKKKLESYLDLMPNPSLAQVKIEEAKRELDSEAEELTRRVDMMEL

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FIGURE 5062

GTCCCAGTCAGTCCGGAGGCTGCGGCTGCAGAAGTACCGCCTGCGGAGTAACTGCAAAG**ATG**CTGTCCGTGCGCG
TTGCTGCGGCCGTGGTCCGCGCCCTTCCTCGGCGGGCCGGACTGGTCTCCAGAAATGCTTTGGGTTTCATCTTTCA
TTGCTGCAAGGAACTTCCATGCCTCTAACACTCATCTTCAAAAGACTGGGACTGCTGAGATGTCCTCTATTCTTG
AAGAGCGTATTCTTGGAGCTGATACCTCTGTTGATCTTGAAGAACTGGGCGTGTCTTAAGTATTGGTGATGGTA
TTGCCCAGTACATGGGCTGAGGAATGTTCAAGCAGAAGAAATGGTAGAGTTTTCTTCAGGCTTAAAGGGTATGT
CCTTGAACTTGGAACTGACAATGTTGGTGTGTCGTGTTTGGAAATGATAAACTAATTAAGGAAGGAGATATAG
TGAAGAGGACAGGAGCCATTGTGGACGTTCCAGTTGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGGTA
ATGCTATTGATGGAAGGGTCCAATTGGTTCCAAGACGCGTAGGCGAGTTGGTCTGAAAGCCCCCGGTATCATT
CTCGAATTTTCAGTGCGGGAACCAATGCAGACTGGCATTAAAGGCTGTGGATAGCTTGGTGCCAATTGGTCGTGGTC
AGCGTGAACTGATTATTGGTGACCGACAGACTGGGAAAACCTCAATTGCTATTGACACAATCATTAACCAGAAAC
GTTTCAATGATGGATCTGATGAAAAGAAGAAGCTGTACTGTATTTATGTTGCTATTGGTCAAAAGAGATCCACTG
TTGCCCAGTTGGTGAAGAGACTTACAGATGCAGATGCCATGAAGTACACCATTGTGGTGTGCGCTACGGCCTCGG
ATGCTGCCCCACTTCAGTACCTGGCTCCTTACTCTGGCTGTTCCATGGGAGAGTATTTTAGAGACAATGGCAAAC
ATGCTTTGATCATCTATGACGACTTATCCAAACAGGCTGTTGCTTACCGTCAGATGTCTCTGTTGCTCCGCCGAC
CCCCGCTGCTGAGGCCATCCTGGTGATGTGTTCTACCTACACTCCCGGTTGCTGGAGAGAGCAGCCAAAATGA
ACGATGCTTTTGGTGGTGGCTCCTTGACTGCTTTGCCAGTCATAGAAACACAGGCTGGTGATGTGTCTGCTTACA
TTCCAACAAATGTCATTTCCATCACTGACGGACAGATCTTCTTGGAACAGAATTGTTCTACAAAGGTATCCGCC
CTGCAATTAACGTTGGTCTGTCTGTATCTCGTGTCGGATCCGCTGCCCAAACCAGGGCTATGAAGCAGGTAGCAG
GTACCATGAAGCTGGAATTGGCTCAGTATCGTGAGGTTGCTGCTTTTGGCCAGTTTCGGTTCTGACCTCGATGCTG
CCACTCAACAACTTTTGAGTCGTGGCGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATTCTCCCATGGCTA
TTGAAGAACAAGTGGCTGTTATCTATGCGGGTGTAAGGGGATATCTTGATAAACTGGAGCCCAGCAAGATTACAA
AGTTTGAGAATGCTTTCTTGTCTCATGTGCTCAGCCAGCACCAAGCCTTGTGGGCACTATCAGGGCTGATGGAA
AGATCTCAGAACAATCAGATGCAAAGCTGAAAGAGATTGTAACAAATTTCTTGGCTGGATTTGAAGCT**TAA**ACTC
CTGTGGATTACATCAAATACCAGTTCAGTTTTTGTCAATTGTTCTAGTAAATTAGTTCCATTTGTAAAGGGTTAC
TCTCATACTCCTTATGTACAGAAATCACATGAAAAATAAAGGTTCCATAATGC

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FIGURE 5063

MLSVRVAAAVVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEMSSILEERILGADTSVDLEETGRVL
SIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVFNDKLIKEGDIVKRTGAIVDVPVGEELLGRV
VDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPPIGRGQRELIIGDRQTGKTSIAIDT
IINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYF
RDNGKHALIIYDDLKQAVAYRQMSLLLRRPPGREAYPGDVFYLSRLLERAAMNDAFGGSLTALPVIETQAG
DVSAYIPTNVISITDGOIFLETIFYKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAFAQFG
SDLDAATQQLLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVVSQHQALLGT
IRADGKISEQSDAKLKEIVTNFLAGFEA

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FIGURE 5064

CCATGGACTTTATCAACGACGCCACCGACGTCAACGATGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCT
CGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTCAGATGGCAACTCGCAGGGCGCCACGCCCCTGCCATCG
AGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGAGATCTTCGTGGTGGTTCGTGGGCGCCAGGTGAATGAGC
CCCACATCCGCGTCCTGGTCACCGGCAAGACGGCCGAGTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTG
TCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCACCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCCA
CCCTGCACGCCGGCACCAAACCCTGTCTCCCACCCCTCCCCACTCATCACTAAACAGAGTAAAATGTGATGCGA
ATTTTCCCGACCAACCTGATTCGCTAGATTTTTTTCTTCTGTGTTTTTTTCTGAACCATATCCATGTTGCTGAC
TTTTCAAATAAAGGTTTTCACTCCTC

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FIGURE 5065

CTCAGCCCCAGCTCCAACAGAAGCAGCCCCGGCCACCCACTCCCCGTGACCGCCACGCCACATGGACACAGCCCT
CGCCCTCCGCCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCGCACCAGCCCTGCCCCACCTGCCCT
CCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGGGGAGGGAGGAGGCAGCGACTCCTTGGACAGAGGCCTGGGC
CCTCAGTGGACTGCCTGCTCCACAGCCTGGGCTGACGTCAGAGGCCGAGGCCAGGAAGTGAAGTGAAGGCCCTGG
TCCTGGGTCTCAGGATGGGTCTTGGGGGCTCGTGTTTCATCAAGACACCCCTCTGCCCAGCTCACCACATCTTCA
TCACCAGCAAACGCCAGGACTTGGCTCCCCCATCCTCAGAACTCACAAGCCATTGCTCCCCAGCTGGGGAACCTC
AACCTCCCCCTGCCTCGGTTGGTGACAGAGGGGGTGGGACAGGGGCGGGGGTTCCCCCTGTACATACCCTGCC
ATACCAACCCAGGTATTAATTCTCGCTGGTTTTGTTTTTATTTTAAATTTTTTTGTTTTGATTTTTTTAATAAGA
ATTTTCATTTTAAGCACATTTATACTGAAGGAATTTGTGCTGTGTATTGGGGGAGCTGGATCCAGAGCTGGAGG
GGGTGGGTCCGGGGGAGGGAGTGGCTCGGAAGGGGCCCCCACTCTCCTTTTCATGTCCCTGTGCCCCCAGTTCTC
CTCCTCAGCCTTTTCTCCTCAGTTTTCTCTTTAAACTGTGAAGTACTAACTTTCCAAGGCCTGCCTTCCCCTC
CCTCCCACTGGAGAAGCCGCCAGCCCCTTTCTCCCTCTGCCTGACCACTGGGTGTGGACGGTGTGGGGCAGCCCT
GAAAGGACAGGCTCCTGGCCTTGGCACTTGCCTGCACCCACCATGAGGCATGGAGCAGGGCATAGCAAGGGCCCC
GGGACAGAGTTTTCCCAGACCTGGCTCCTCGGCAGAGCTGCCTCCCGTCAGGGCCCACATCATCTAGGCTCCCCA
GCCCCCACTGTGAAGGGGCTGGCCAGGGGCCCCGAGCTGCCCCCACCCCGGCCTCAGCCACCAGCACCCCCATAG
GGCCCCCAGACACCACACACATGCGCGTGCGCACACACACAAACACACACACTGGACAGTAGATGGGCCGACA
CACACTTGGCCCCGAGTTCCTCCATTTCCCTGGCXTGGCCCCCACCCCAACCTGTCCCACCCCCGTGCCCCCTC
CTTACCCCGCAGGACGGGCCTACAGGGG

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FIGURE 5066

AGGTTTCGATACAAGAGGCTGTTTTCTAGCGTGGCTTGCTGCCTTTGGTAAGAACATGTCGTCCATCTTGCCATT
CACGCCGCCAGTTGTGAAGAGACTGCTGGGATGGAAGAAGTCAGCTGGTGGGCTCTGGAGGAGCAGGCGGAGGAGA
GCAGAAATGGGCAGGAAGAAAAAGTGGTGTGAGAAAGCAGTGAAAAGTCTGGTGAAGAAGCTAAAGAAAACAGGACG
ATTAGATGAGCTTGAGAAAAGCCATCACCCTCAAACTGTAATACTAAATGTGTTACCATAACCAAGCACTTGCTC
TGAAATTTGGGGACTGAGTACACCAAATACGATAGATCAGTGGGATACAACAGGCCTTTACAGCTTCTCTGAACA
AACCAGGTCTCTTGATGGTTCGTCTCCAGGTATCCCATCGAAAAGGATTGCCACATGTTATATATTGCCGATTATG
GCGCTGGCCTGATCTTCACAGTCATCATGAAGTCAAGGCAATTGAAAAGTGCGAATATGCTTTTAATCTTAAAAA
GGATGAAGTATGTGTAAACCTTACCCTATCAGAGAGTTGAGACACCAGTTTGCCTCCAGTATTAGTGCCCCG
ACACACCGAGATCCTAACAGAACTTCCGCCTCTGGATGACTATACTCACTCCATTCCAGAAAACACTAATTCCC
AGCAGGAATTGAGCCACAGAGTAATTATATTCCAGAAACGCCACCTCCTGGATATATCAGTGAAGATGGAGAAAC
AAGTGACCAACAGTTGAATCAAAGTATGGACACAGGCTCTCCAGCAGAACTATCTCCTACTACTCTTTCCCCTGT
TAATCATAGCTTGGAATTTACAGCCAGTTACTTACTCAGAACCTGCATTTTGGTGTTCGATAGCATATTATGAATT
AAATCAGAGGGTTGGAGAAACCTTCCATGCATCAGCCCTCACTCACTGTAGATGGCTTTACAGACCCATCAAA
TTCAGAGAGGTTCTGCTTAGGTTTACTCTCCAATGTTAACCAGAAATGCCACGGTAGAAATGACAAGAAGGCATAT
AGGAAGAGGAGTGCCTTATACTACXATAGGTGGGGAAGTTTTTGCTGAGTGCCTAAGTGATAGTGCAATCTTTG
TGCAGAGCCCCAATTGTAATCAGAGATATGGCTGGCACCCTGCAACAGTGTGTAATAATCCACCAGGCTGTAATC
TGAAGATCTTCAACAACCAGGAATTTGCTGCTCTTCTGGCTCAGTCTGTAAATCAGGGTTTTGAAGCCGTCTATC
AGCTAACTAGAATGTGCACCATAAGAATGAGTTTTGTGAAAGGGTGGGAGCAGAAATACCGAAGGCAGACGGTAA
CAAGTACTCCTTGCTGGATTGAACTTCATCTGAATGGACCTCTACAGTGGTTGGACAAAGTATTAAGTCAAGTGG
GATCCCCCTTCAGTGCCTTGCTCAAGCATGTCATAAAGCTTCACCAATCAAGTCCCATGAAAAGACTTAATGTAAC
AACTCTTCTGTCATAGCATTGTGTGTGGTCCCTATGGACTGTTTACTATCCAAAAGTTCAAGAGAGAAAACAGCA
CTTGAGGTCTCATCAATTAAGCACCTTGTGGAATCTGTTTCCTATATTTGAATATTAGATGGGAAAATTAGTGT
CTAGAAATACTCTCCATTAAAGAGGAAGAGAAGATTTTAAAGACTTAATGATGTCTTATTGGGCATAAACTGA
GTGTCCCAAAGGTTTTATTAATAACAGTAGTAGTTATGTGTACAGGTAATGTATCATGATCCAGTATCACAGTATT
GTGCTGTTTATATACATTTTTAGTTTGCATAGATGAGGTGTGTGTGTGCGCTGCTTCTTGATCTAGGCAAACCTT
TATAAAGTTGCAGTACCTAATCTGTTATTCCCACTTCTCTGTTATTTTTGTGTGTCTTTTTTAATATATAATATA
TATCAAGATTTTCAAATTATTTAGAAGCAGATTTTCCCTGTAGAAAACATAATTTTTCTGCCTTTTACCAAAAATA
AACTCTTGGGG

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FIGURE 5067

TCCTCTTTCCCTAAGCAGCCTGAGGGTTGACTGGATTGGTGAGGCCCGTGTTGGCTACTTCTGTGGAAGCAGTGCT
GTAGTTACTGGAAGATAAAAGGGAAAAGCAAGCCCTTGGTGGGGGAAAGTATGGCTGCGATGATGGCATTTCCTTAG
GACACCTTTGGATTAATAATGAAAACACTACTCTCTGAGCAGCTGTTCGAATCATCTGATATTTATACTGAATG
AGTTACTGTAAGTACGTATTGACAGAATTACACTGTACTTTTCTCTAGGTGATCTGTGAAAATGGTTTCGCTATTCT
ACTTGACCCGGAGAACCCACGAAATCATGCAAATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACAACCTCG
TGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACGAAGTATCTGAAAGATGTCACTTTACAGAA
ACAGTGTGTACCATTCGACGTTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAATGGGGCTGGACACA
AGGTCGGTGGCCCAAAAAGAGTGCTGAATTTTTGCTGCACATGCTTAAAAACGCAGAGAGTAATGCTGAACTTAA
GGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGGACCTA
CAGAGCTCATGGTCGGATTAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACA
GATTGTTCTAAACCAGAAGAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAAACT
TATGGCACGGGAGTAAATTTCAGCATTAAAATAAATGTAATTAAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5068

MVRYSLDPENPTKSCKSRGSNLRVHFKNTRETAQAIGMHIRKATKYLKDVTLQKQCVPFRRYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLHMLKNAESNAELKGLDVDSLVIIEHIQVNKAPKMRRRTYRAHGRINPYMSSPCHIEML
TEKEQIVPKPEEEVAQKKKISQKKLKKQKLMARE

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FIGURE 5069

GCTGAGCATCGCCAGGGCGGGCGGCAGGGCGCGGCCTCTCCGCCGGGTGTACCTCCTGTGCGGCGCGAGACCTC
TGGTCAAAGAAAAGATGTTTGTCCCGGTTAAGAGTAGTTTCCACCACTTGTACTTTGGCATGTGACATTTGCACA
TAAAAGAAAAGGCAAGCCACTTATGCTGAACCCAAGAACAACAAGGGAATGGCATTACTTTACAAGAACGAC
AAATGCTTGGTCTTCAAGGACTTCTACCTCCCAAAATAGAGACACAAGATATTCAAGCCTTACGATTTTCATAGAA
ACTTGAAGAAAATGACTAGCCCTTTGGAAAAATATATCTACATAATGGGAATACAAGAAAAGAAATGAGAAATTGT
TTTATAGAATACTGCAAGATGACATTGAGAGTTTAAATGCCAATTGTATATACACCGACGGTTGGTCTTGCCTGCT
CCCAGTATGGACACATCTTTAGAAGACCTAAGGGATTATTTATTTTCGATCTCAGACAGAGGTCATGTTAGATCAA
TTGTGGATAACTGGCCAGAAAATCATGTTAAGGCTGTTGTAGTGAAGTATGAGAGAGAGAAATCTGGGTCTTGGAG
ATCTGGGTGTCTATGGAATGGGAATTCCAGTAGGAAAACCTTTGTTTGTATACAGCTTGTGCAGGAATACGGCCTG
ATAGATGCCCTGCCAGTGTGTATTGATGTGGGAACTGATAATATCGCACTCTTAAAAGACCCATTTTACATGGGCT
TGTACCAGAAACGAGATCGCACACAACAGTATGATGACCTGATTGATGAGTTTATGAAAGCTATTACTGACAGAT
ATGGCCGGAACACACTCATTTCAGTTCGAAGACTTTGGAAATCATAATGCATTTCAGGTTCTTGAGAAAGTACCGAG
AAAAATATTGTACTTTCAATGATGATATTCAAGGGACAGCTGCAGTAGCTCTAGCAGGTCTTCTTGCAGCACAAA
AAGTTATTAGTAAACCAATCTCCGAACACAAAATCTTATTCCTTGGAGCAGGAGAGGCTGCTCTTGGAAATTGCAA
ATCTTATAGTTATGTCTATGGTAGAAAAATGGCCTGTGAGAACAAGAGGCACAAAAGAAAATCTGGATGTTTGACA
AGTATGGTTTATTAGTTAAGGGACGGAAAAGCAAAAATAGATAGTTATCAGGAACCATTTACTCACTCAGCCCCAG
AGAGCATACCTGATACTTTTGAAGATGCAGTGAATATACTGAAGCCTTCAACTATTATTGGAGTTGCAGGTGCTG
GCCGTCTTTTCACTCCTGATGTAATCAGAGCCATGGCCTCTATCAATGAAAGGCCTGTAATATTTGCATTAAAGTA
ATCCTACAGCACAGGCAGAGTGCACGGCTGAAGAAGCATATACACTTACAGAGGGCAGGTGTTTGTGTTGCCAGTG
GCAGTCCATTTGGGCCAGTGAAACTTACAGATGGGCGAGTCTTTACACCAGGTCAAGGAAACAATGTTTATATTT
TTCCAGGTGTGGCTTTAGCTGTTATTCTCTGTAACACCCGGCATATTAGTGACAGTGTTCCTAGAAAGCTGCAA
AGGCCCTGACAAGCCAATTGACAGATGAAGAGCTAGCCCAAGGGAGACTTTACCCACCGCTTGCTAATATTCAGG
AAGTTTCTATTAAACATTGCTATTAAAGTTACAGAATACCTATATGCTAATAAAATGGCTTTCCGATACCCAGAAC
CTGAAGACAAGGCCAAATATGTTAAAGAAAGAACATGGCGGAGTGAATATGATTCCCTGCTGCCAGATGTGTATG
AATGGCCAGAATCTGCATCAAGCCCTCCTGTGATAACAGAATAGAAGCACTCCCCTGATAAAATACCTTCTGTGCT
CCAGGGAACCCCTTTTTTTCAGACAAGAAGAGATAATGTCTTCAGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5070

MLSRRLRVVSTTCTLACRHLHIKEKGKPLMLNPRTNKGMAFTLQERQMLGLQGLLPKQIETQDIQALRFHRNLKKM
TSPLEKYYIYIMGIQERNEKLFYRILQDDIESLMPIVYTPTVGLACSQYGHIFRRPKGLFISISDRGHVRSIVDNW
PENHVKAVVVDGERILGLGDLGVYGMGIPVGKLCCLYTACAGIRPDRCCLPVCIDVGTDNIALLKDPFYMGLYQKR
DRTQQYDDLIDEFMKAITDRYGRNTLIQFEDFGNHNAFRFLRKYREKYCTFNDDIQGTAVALAGLLAAQKVISK
PISEHKILFLGAGEAALGIANLIVMSMVENGLSEQEAQKKIWMFDKYGLLVKGRKAKIDSQEPFTHSAPESIPD
TFEDAVNILKPSTIIGVAGAGRLFTPDVIRAMASINERPVIFALSNPTAQAECTAEEAYTLTEGRCLFASGSPFG
PVKLTGGRVFTPGQGNNVYIFPGVALAVILCNTRHISDSVFLEAAKALTSQLTDEELAQGRLYPPLANIQEV SIN
IAIKVTEYLYANKMAFRYPEPEDKAKYVKERTWRSEYDSSLPDVYEWPESSASSPPVITE

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FIGURE 5071

GCTAGGGCGCGGGCGGGCGGTTTGAATTTTGCTTACAGAGTCCCGTCTCACCATCCTGGGCTTCCAACGGAGACTG
CGGTATCCGCAGCTGGAGACCCAGCGGCGAGTAGCCTTTTGCTCCCGGACGGACTTGAGGTTGGAGTCTGTGTGT
TGGGGACCCTGCCTTTGGAAGCGCCGAGAGGCTTAAAGGATGGCCTCGTCAGATCTGGAACAATTATGCTCTCA
TGTTAATGAAAAGATTGGCAATATTAAGAAAACCTTATCATTAAGAACTGTGGCCAGGAACCTACCTTGAAAAC
TGTATTAAATAAAATAGGAGATGAGATCATTGTAATAAATGAACTTCTAAATAAATTGGAATTGGAAATTCAGTA
TCAAGAACAAACCAACAATTCACTCAAGGAACCTCTGTGAATCTCTTGAAGAAGATTACAAAGACATAGAACATCT
TAAAGAAAACGTTCCCTTCCCATTTGCCTCAAGTAACAGTAACCCAGAGCTGTGTTAAGGGATCAGATCTTGATCC
TGAAGAACCAATCAAAGTTGAAGAACCTGAACCCGTAAAGAAAGCCTCCCAAAGAGCAAAGAAGTATTAAGGAAAT
GCCATTTATAACTTGTGATGAGTTCAATGGTGTTCCTTCGTACATGAAATCCCGCTTAACCTATAATCAAATTAA
TGATGTTATTAAAGAAATCAACAAGGCAGTAATTAGTAAATATAAAATCCTACATCAGCCAAAAAGTCTATGAA
TTCTGTGACCAGAAATCTCTATCACAGATTTATTGATGAAGAAACGAAGGATACCAAAGGTGCTTATTTTATAGT
GGAAGCTGACATAAAGGAGTTCAACAACCTTTGAAAGCTGACAAGAAGTTTCACGTGTTACTGAATATTTTACGACA
CTGCCGGAGGCTATCAGAGGTCCGAGGGGGAGGACTTACTCGTTATGTTATAACCTGAGTCCCTTGTAACCTTTT
GAACATAACCAACAGGGTATAGAGTATAGAGGCTATTTCTATAATTTTCTTATATATAATTTTTTTAACTTTTAAAT
CTTTTTTGTTCCTTTTTTTTTTTTTTTTGTAGACAGGATCTTGCTTTGTACCCAGGGGCTTGCTTTGTACGCAGG
CTAGAGTGCAGTGGCGCAAACATGGCTCACTGCAGCCTCAACCTCCCAGGCTCAAGTGATCCTCCCACCTCAGCC
CCCTGAATGGCTGGGACTACAAGCGTGCGCCACCATGCCTGGCTAATTTTTGTATTTTTTGGAGAGATGGGGTTT
CACCATGTTGCCTAGGCTGGTCTTGAGCTCCTGAGCTCAAACAATCCACCCTCCTCAGCCTCCCAAAGTGCTGGG
ATTACAGGCTTGAGCCACCACACCTGACCTATTCTTGTTCCTATAAAAATAAACTTTTTTGGATAAAGCTTAT
TTCTTGTTTTTTCTTTTTCTTTTTTTTTTTTTTTTGTAGACAGTCTCGCTCTTTCACCCAGGCCGGACTGCAGCGG
CGCTATCTCGGCTCACTGCAAACCTCTGCCTCCCAGGTTACGCCATCCTCCTGCCTCAGCTACTCAGGAGAATTG
CTTGAACCTAGGAGGTGGAGGTTCAGTGAGCCGAGATCGTGCCACTGCACTCCAGTCTGGGCAACAGAGCGAGA
CTCCATCTCAGAAAAAAGAAAAAAGACTGGGTACAGATGTGATATTGGAAGAAAAAGATCAAGCTGATGAGGT
TAGGATACCCAGGCCCTTTGGACTTAAAGATCACTAGTGCTAAATTCCATCGATGGCATTTCAGTCTATAGGTA
AACTTCCTGGAAGCTGGATTGGAGACAGTTTATCATCTGATTATTGGGCTTTCGTATAGGTCCTTAGGGAGCAG
CTTACCTGAAATGCATTTAGTGTACACCAGTCTGTAACTTCAACCTGTAATGAAAGTGTAATAAATGTACATTG
AGTTGATGTGATAATGTGATATAATAAGAAATATATATTTGATCTTCCTATCTAGTTCCTTGTTTCAGAGCTCCTA
AAACCTTGTAATTTCCAAAGTGATGGAGTACATCTTTTGTTCAGTATTTGGTCTTTGACCCAGTTCCTGACA
CAAAGCTCCTAAATTCCTTTAAATTTCCCAGTGATAGGAGAATTTTTTGTTCATAGGTTCACTCTTGATGGG
ACCTGGATAACTCAGGATGGGGGCTGCTCACAAAGACCACATCATGATTGGAAGTTTCAAACCTTCAGTCTCCCA
CCTCCAGAGAGGGGAGAGGGGCTGGAGATTTGTGTCAATAATCCATCAGGCCTATGTCAACAAGACATAATCCGT
TAACTATGGAGTTCAGGGAGCTTCAGGGTTGGCAACATTTTGATGTGCCAGGAAGGTGACGCACTCCAGCTTTA
TGAAGTCAGCAAGTCCGTGTCTCAGGATGCTTCTGGACCTTGCCCCAGGTACCCCTTCATGTGGCTGTTGTTTCAT
CTGTATCCTTTGTAGTAGCCTTAAATAAACTGTTAAACAC

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FIGURE 5072

CCGACATGTTGAGTCATAAGACGCGTCGGTGTTCAGTCTGTGTCCTTGGAGGTGACCAGGGCCACTGCAGGCAT
GGTGCTAGCAGAGCTGTACGTCTCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGAAACCATT
TAAACAGGTCTAAAGGCTTTGATGACAGTAGGGAAAGAACCATTTCCTACCATTTACGTAGATTACAAAAAGA
AAATGAGAGGTGGAATGTTATTTCTAAATCACAGTTGAAGAACATTAAAAAGATGTGGCATAGGGAACAAATGAA
GAGTGAATCCCGGGAAAAGAAAGAGGCAGAAGATAGTTTACGAAGAGAAAAGAACCTGGAAGAAGCAAAGAAGAT
TACCATTAAAAATGATCCAAGTCTCCAGAGCCAAAATGTGTGAAGATTGGTGCCTTAGAAGGATATAGAGGCCA
AAGAGTAAAGGTGTTTGGCTGGGTCCACAGGCTGCGCAGGCAAGGAAAGAATTTAATGTTTCTGGTGTTCGAGA
TGGTACAGGTTATCTTCAGTGTGTCTTGGCGGATGAGTTGTGTGTCAGTGTACAATGGAGTTCTCTTGTCCACGGA
GAGCAGTGTTCAGTGTATGGAATGCTAAATCTTACCCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTGAG
TTGTGACTTCTGGGAATAATTGGGTTGGCCCTGCTGGAGGAGCTGACAACCTGATCAATGAGGAGTCTGACGT
TGATGTCCAGCTCAACAACAGACACATGATGATCCGAGGAGAAAACATGTCCAAAATCCTAAAAGCACGATCCAT
GGTCACCAGGTGCTTTAGAGATCACTTCTTTGATAGGGGGTACTATGAAGTTACTCCTCCAACATTAGTGCAAAC
ACAAGTAGAAGGTGGTGCCACACTCTTCAAGCTTGACTATTTTTGGGGAAGAGGCATTTTTGACTCAATCCTCTCA
GTTGTACTTGGAGACCTGCCTCCAGCCCTGGGAGATGTTTTTTGTATTGCTCAGTCATACCGGGCAGAGCAGTC
CAGAACACGAAGGCACCTGGCTGAGTACACTCAGCTGGAAGCTGAGTGTCTTTCTGACTTTTGACGACCTCCT
GAACCGTTGGAGGACTTGGTTTGTGATGTGGTAGATCGAATATTGAAGTCACCTGCAGGGAGCATAAGTGCATGA
GCTCAACCCGAACCTTTCAGCCCCCAAACGGCCTTTCAAACGGATGAACCTATTGAGATGCTATCGTTTGGCTAAA
AGAACATGATGTAAAGAAAGAAGATGGAACCTTCTATGAATTTGGAGAAGATATCCAGAAGCTCCTGAGAGACT
GATGACAGACACCATTAAATGAACCAATCTTGCTGTGTGCGATTTCTGTGGAGATCAAGTCCTTCTACATGCAGCG
ATGTCTGAGGATTCCCGTCTTACTGAATCTGTGACGTGTTGATGCCAATGTTGGTGAGATTGTGGGAGGCTC
AATGCGTATCTTTGATAGTGAAGAAATACTGGCAGGTTATAAAAGGGAAGGGATTGACCCCACTCCCTATTACTG
GTATACGGATCAGAGAAAATACGGTACATGTCCCATGGAGGATATGGCTTGGGCTTGGAAACGATTCTTAACGTG
GATTCTGAATAGGTATCACATCCGAGACGTGTGCTTATACCCTCGATTTGTCCAGCGTTGCACGCCATAACCATT
TTCTCCAGAAGCGTGGAGGAAAGATTATGAAAGGAACAGGCTCTTTAAAAAAGAAAACAAAAAGCCAGAATCTTC
CTTTTTTTTGTTCATTGGGGTTTCTCTTTCTGTTTTTCTTTCTACTACCATAAAAACTATCTCAAATCACCTGA
ACATCAAGTGATATTAAGGTTGTCATCTTAAGAAAAAATATCCATTTTTTTCTTAAGTTCGGGAAACAAAGTTCG
GGGAAAATACCTGGCATGAACTGTAGTTAGGGATACATTTACGATTTTACTCACTTTATCCAAGTTATTCATT
TTATTCAGTTATATGTATGTATAATTCAACAATTTTAGATTATGGTGTAAAGATACTCCAGTAACCTTATCTTCT
GTCCTTTTAAGTGACCTGGAATTCTTTGATTTATTTTATTGCATCAATGAATTAACAAAAAATCTTGGGGGAA
GAAATTGGCAATATCGTATAAAAAATCTGCTCATATTAGAACACAGTATAATTACAGCAGTAAACACTAGAATCAAA
TGAATAGCCTTTTGTATCAGTTATTAATCTTTTCTAACTCTGCTTAGCTGCTAATAATCCTGAGGCATAGAAATT
GAAGAATTTGTAAAAATAGAATTGCCTTAAAGGATTTGAAGTAAGAACATAATTTTGGGGAGAGTTTTTTTAGTGA
TTCACAGTATCCCTCTTAGCATTAATTTAAGGTAAAGAGGCAGATTGATTTTCCCTCTTCTGCTAATTCCTAA
GTAATTAAGAATAAATAAGTTCCAAAAGAAAATTGTAGCTGGAATCTTAATAACAATTGTGAGTGGCTGTTTGAGT
TGCCCCCACCATGTCCTTAGATCTAATCTGTGCTACCTTATTAACCTCACAGCAGGCTTACTGAATGGCTTCATTT
CAGATTTAGTTGATTTCTCCACCAAATGCATGTCTATTTCTCAATAGGCTGTATTCCCAGCAGTCAATAAATG
AACACCCGTAAAAA

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FIGURE 5073

MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKENERWNVISKSQLKNIKMMWHREQM
KSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGALEGYRGQRVKVFGWVHRLRRQGKNLMFLVLR
DGTGYLQCVLADELCCQYNGVLLSTESSVAVYGMLNLTPKGKQAPGGHELSCDFWELIGLAPAGGADNLINEESD
VDVQLNNRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYEYVTPPTLVQTQVEGGATLFLKLDYFGEEAFLTQSS
QLYLETCLPALGDVFCIAQSYRAEQSRTRRHLEAYTHVEAECPLTFDDLLNRLEDLVCDVVDRIKSPAGSIVH
ELNPNFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIPAPERLMTDTINEPILLCRFPVEIKSFYMQ
RCPEDSRLTESVDVLMPNVGEIVGGSMRIFDSEEILAGYKREGIDPTPYWYTDQRKYGTCPHGGYGLGLERFLT
WILNRYHIRDVCLYPRFVQRCTP

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FIGURE 5074

CGGCCAGCGACGCGGTTACCTCCTGCTGTCTCGCCCTCGCCCCGGCGAGCTGCCCCGACGCGAGATGTCTTA
TTTACCAACAAATCCACCAGGGAGCATTCTTATTTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGGAGTGCCGG
AGGGGGAAGCGCGATTTACGGAAGACTATTACCCAGAAGAAAAGATGTTTGTGTTTTTACAAGCCAAAGATGTACC
GAAGTATAGAGGGCTACTGTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAA
AGGACTTCCAGAGCTGTTTGGATTGCATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCTGCTTGTGAA
AAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGT
CTAAAGACTACATTGAAACCAAGAAAGTGAAAACCTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAAA
CTGCAGAAGGAATTTAAACGTCATAATTCTGATGCTCACAATACCACCTCAAGTGCCTCCCCAGCTCCATCTCCT
CGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTTCC
TTTTTAGATCTCACATACTGGAAGACAGAAGATATGTTGTGGGATCAACTATAAAGGCCGTTTTTGGGGAAGTC
CTCATTGACACACATCCCTTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCCGAGAAGCCAGAGGAGCAGGGG
CCAGAGCCTCTGCCCATCTCCACTCAGGAGTGGTGACTGAGGTTTTTATGTAGAAGGGGAACAAAAAAATCTGA
ATTTTGAAAAGACCACAAAGCAGCAAACTGACCCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTT
TGCTCTTGTACCAGGCAGGAGTGAGTGGCGTGATCTTGGCTCACTGCAACTTCCGTCTCCCGGGTTCAAGTG
ATTCTCCTGCCTTAGCCTCCCAAGTAGCTGGGTTTATATGTGCCCGCCACCAGACCCGGCTAATATTTTAGTTTT
AGTAGAGACGGGTTTTACACATTGGCCAGGCTGGTCTCAAATGACCCTCTTATTTTTAACTTGATACCTGCT
ATTCTGCCAAAAGACAATTTCTACAGTAGTTTTGAATGGGTTGATATCCCCTAGTCCCACAAACTCTGAAGCCAG
TGTCCAGCTTACTAAAAAAGAGTGGTACATAATATTAAGATGCTGAGTATTTCATAGGAAAGATGAATGCTGC
TGTAAGTACTCTTTAAGTCTTTTTTTTTTTTTTAATCCCTTCTAATGAATGAACTAGGGGAATTTAGGGGACA
GAGATGGGATTTGTTGTATGATAAACTGTATGTAGTTTTTAGTCTTTCTGTATTGAGATGCAGTGGTTGGGGCAT
TTTTAAGATGGCTGGCTACTTGTTTTCCCTCATGATAATAAATTTGTCATAACTCAGTAACATGAACTTGCCCT
AGAGGTAGTTGTTAATGATTTTGAAATATTAAGGTCTTGCCAAGCTTGATGATTCAAACCTGTACTACTGATT
ATTAAGCAGGACAGACTGAGCTTTCTGTTGCAAATACCTTGGAGGAGAAAGTAACCTCTAAATATACAGAGAGGT
AACTTGACTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATATTTGATAAAGATTTAATTTTTGTAAAC
TTCTAAAGCAGAATCAAAGCTCCTCTTGGGGAAATGGCAAGTCTTAGGACAGGCGAGACCCTGTATGAATAGTA
CCAAAGCATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAAATGTACAAGT
CCTCAGGATGGCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATA
TAATCGACTTTTGTGTTGTTCTGTGACTTCATTGAAAATCTTTACAATTCAGTTTCAGCTCTGGATTACTTCAG
TTGACCTTTGTGAAGTTTTTATCTGTGTAGAATGGGTGTTTGACTTGTTTTAGCCTATTAAGTTTTTATTTCT
TTCACTCTGTATTAAGTAAACTTACTAAAAAGAAAGAGGTTTGTGTTACATTAAATGGTTTTGTTTTGGCT
TCTTTTAGTCAGGCTTTCTGAACATTGAGATATCCTGAACCTAGAGCTCTTCAATCCTAAGATTTTCATGAAAAG
CCTCTCACTTGAACCTAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTTCAAGGAAAAGCATCGCCAGTTCTG
GTCTTTTCAGAAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTCATTTTTTAACTGCAT
TTTAAAAATTGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTCTT
AATCTAAACATTTTATATTTTCTTCTTTTGGAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATACA
GCGAGTTGAGTTGGCTTCTCCACAGTCTTTGAGGCGAATTACAAAAGTCCAGCCATTATCATCCTCCTGAGTTA
TTTTGAAATGATTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTAC
TTCTGTATTTATTTATTTATTACTAGACCTCAACCACAGTCTTCTTTTTCCCTTCCACCTCTCTTTGCCTGTAG
GATGTACTGTATGTAGTCATGCACTTTGTATTAATATATTAGAAATCTACAGATCTGTTTTGTACTTTTTTACT
GTTGGATACTTATAATCAAACTTTTACTAGGGTATTGAATAAATCTAGTCTTATTAGAAAATAAAAAAAGAA
AGAAA

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FIGURE 5075

GCTGTCCTCGCCCTCGCCCCGGCGAGCTGCCCCGACGCGAGATGTCTTATTTACCAACAAATCCACCAGGGAGC
ATTCTTATTTGCTGGCTCGGCGTCTCTCTCAGCAGTCACCGGAGTGCCGGAGGGGGAAGCGCGATTTACGGAAGA
CTATTACCCAGAAGAAAAGATGTTTGTTTTTACAAGCCAAAGATGTACCGAAGTATAGAGGGCTACTGTATTTG
CAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTATGAAAAGGACTTCCAGAGCTGTTTGGATTG
CATGAGACTCGTTCAGGAGACATCTGCAATGCCTGTGTCTGTGTTGTGAAAAGATGGAAGAAGTTGCCAGCAGGA
TCAAAAAAAAAAACTGGAATCATGTGGTAGATGCAAGGGTTGGACCCAGTCTAAAGACTACATTGAAACCAAAGA
AAGTGAAAACCTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAGTAACTGCAGAAGGAATTTAAACGTCATA
ATTCTGATGCTCACAATACCACCTCAAGTGCCTCCCCAGCTCCATCTCCTCGTTACAGTAACCAGTCAGATGACG
GCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCAGTTTTTTCCTTTTGTAGATCTCACATACTGGCCTC
ATTGACACACATCCCTTCAAGCCTTGCTGCAGCAAT

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FIGURE 5076

ACTTCTGCCCTTTTGGCTCTCTGACCAGCACCATGGTGGTGGGCAAGAACAAGCACCTTACGAAAAGGCGGCAAAA
AGGGAGCCAAGAAGAAAGTGGTTGATCCATTTTCTAAGAAAGATTGGTTTGACGCGAAAGCACCTACTACGTTCA
ATATAAGAAATATTGGAAAGACGCTCATCACCAGGACCCAGGGAACCAAAATTGCATCTGATGGTCTCAAGGGTC
GTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAGCTGATTACTGAAGA
TGTTCAGGGCAAAAACCTGCCTAACTTCCATGGCATGGATCTTACCCATGACAAAATGTGTTCCATGGTCAAAAAA
TGGCAGACAAATGATTGAAGCTCATGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGTCTTTTCTGTGTTGGT
TTTACTAAAAAACGCAGCAATCAGATACGGAAGACCTCTTATGCTCAGCAACAACAGGTCCGCCAAATCCGGAAG
AAGATGATGGAAATCATGACTCGAGAGGTGCAGACAAATGACGTGAAAGAAGTGGTCAATAAATTGATTCCAGAC
AGCATTGGAAAAAGACATAGAAAAGACTTGCCAATCTATTTATCCTCTCTATGATGTCTTCGTTAGAAAAGTAAAA
ATGTTGAAGAAGCCCAAGTTTGAAGTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCT
GCTGGGGACGAGACAGGTGCTAAAGTTGATGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGT
TCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGT

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FIGURE 5077

MDLTHDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFVGVFTKKRSNQIRKTSYAQQQQVRQIRKKMMEIMTREVQ
TNDVKEVVNKLIPDSIGKDIEKTCQSIYPLYDVFVRKVKMLKKPKFELGKLMELHGEGSSSGKAAGDETGAKVE

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FIGURE 5078

ATGAAAGAGGCCATCGGATGCGAGGACATCAGCCCAGTAACTTTGAGGGAAGAAGGTTTTCTTCCCCTGCTGCC
TATGCCGTGGGGTTTGAGCACGTCTCTCGGGGGGAAGTCATGGCCCATAGCCAGCTTGCTGCAATGGAAGCGATG
CTTACAGTAAGGCGAGTTCCCTGGACACGATATATGAGAGTGAGGACACAGTGCCCAGAGTTGGGAGTTGACCGA
ACCTACCTTCAGATGGGATTTCTGCTTGAAAACCAGGAAGCAGAACTCAGATGTGAATTACGCTTTCTAGACATT
CAACTGCTATCAAAGAATAATTGCCATGCTAAATTATTTATATTTGTGGAGCAAATGACTTTAGGCACTAAGGCT
TTTATCTCTTCCCCTGAGGAACCTTTTGAACCTTGTTTTCTTGAACCTCTATGCCATCCAGGCAGGGGGATTAGAA
GAACCTCCTAATCTGAGTAATTTGAATAAACTGAGGGAAATTGTGAAAAGAAAGATTACAAGGTGATGAAAAAG
AGAGTAGATAATGAAGAGGGTGTA AAACTTATAAGGTACTGGAAAGGGCAGCCATGAAATTCCTGACCATGGAA
CCCAAAC TGAGAGATGACAGACTTGAAGGATATGGAGAAAAAGATTCAAGTTCTTGGCGGAGAAGGTCATGTTCA
GAAGCAAGTAAGGTAGTGAGAGCGTACTTACAACCTATCGTGTGGAAGCTGCTCAGTGATGAGACTGGGAAAGAT
GAATATGCGTACGCTCTTTCACTCACAGCAAAATCACTAAGCTTCTCTGAGGGTATAGGATACTTTCTTTTCTAT
GGGTCAGTGATGGTCATTACTGGAAGTCCCATCACTTCCCGGTCCATCTTCCTGTGCTGGAGAACAAACCTAAA
CACGAGGGTTGGGGAAACTTGA

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FIGURE 5079

MKEAIGCEDISPVTLREEGFPSPAAYAVGFEHVSERGEVMAHSQLAAMEAMLTVRRVPWTRYMRVRTQCPELGVDR
TYLQMGFLLLENQEAE LRCELRFIDIQLLSKNNCHAKLFIFVEQMTLGTKAFISSPEEPFELCFLELYAIQAGGLE
EPPNLSNLNKLREIVEKKDYKVMKKRVDNEEGVKTYKVLERAAMKFLTMEPKLRDDRLEGEYGEKDSSSWRRRSCS
EASKVVRAYLQLIVWKLLSDETGKDEYAYALSLTAKSLSFSEGIGYFLFYGSVMVITGSSHFPVHLPVLENKPK
HEGWGN

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FIGURE 5080

ATGGTCTATGGAATTAAAAATATGGTCCCTTTGTTGCAGACTTTGCTGATAAACTCAATGAGCAAAACCTTGCC
CAACTAGAAGAGGCGAAGCAGGCTTCCATCCAACAAATCCAGAATGCAATTGATATGGAGAAGTCACAACAGGCA
CTGGTTCAGAAGCGCCATTACCTTTTTGATGTGCAAAGGAATAACATTGCTATGGCTTTGGAAGTTACTTACCGG
GAACGACTGTATAGAGTATATAAGGAAGTAAAGAATCGCCTGGACTATCATATATCTGTGCAGAACATGATGTGT
TGA

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FIGURE 5081

MVYGIKKYGPFVADFADKLNEQNLAQLEEAQASIQQIQNAIDMEKSQQALVQKRHYLFDVQRNNIAMALEVTYR
ERLYRVYKEVKNRLDYHISVQNMMC

ACGTGGTACGGAACACGGCGCGCGCTTGTGCTGTTGTAACAGGCGCTTGCCTAGTGGCGCTTCTTCCCAGGTGCG
CCCTCAGTCTCCACTAGAGACAGGACTGACCAGTTGCTCTTCCCTTCCAAGAACCTTCGAGATCTGCGGTCTGGGG
TCTGGTTGAAAGATGGCGGCCCTCACTACCCTGTTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAAA
CTCGCAAAATGGGTGGCTATCCAGAGTGTGTCTGCGTGGCCGGAGAAGAGAGGGCGAAATCAGGAGGATGATGGAA
GTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACCTGGTGGATATCGGAAAACAAAAGCTCCCTGAT
GGCTCGGAGATCCCGCTCCCTCCTATTCTGCTCGGCAGGCTGGGCTCCGACCCACAGAAGAAGACCGTGTGCATT
TACGGGCACCTGGAATGTGCAGCCTGCAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCCTGGTGGAGCGA
GACGGCAAGCTGTATGGGAGAGGTTGCACTGATGATAAGGGCCCCGGTGGCCGGCTGGATAAACGCCCTGGAAGCG
TATCAGAAAACAGGCCAGGAGATTCTGTCAACGTCCGATTCTGCCTCGAAGGCATGGAGGAGTCAGGCTCTGAG
GGCCTAGACGAGCTGATTTTTGCCCCGAAAGACACATTCTTTAAGGATGTGGACTATGTCTGCATTTCTGACAAT
TACTGGCTGGGAAAGAAGAAGCCCTGCATCACCTACGGCCTCAGGGGCATTGTCTACTTTTTTCATCGAGGTGGAG
TGCAGCAACAAAGACCTCCATTCTGGGGTGTACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTCTGCTG
ATGGGCTCTTTGGTGGACAAGAGGGGGAACATCCTGATCCCCGGCATTAAACGAGGGCCGTGGCCGCCGTACCGAA
GAGGAGCACAAAGCTGTACGACGACATCGACTTTGACATAGAGGAGTTTGCCAAGGATGTGGGGGCGCAGATCCTC
CTGCACAGCCACAAGAAAGACATCCTCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATGGCATCGAAGGC
GCCTTCTCTGGGTCTGGGGCCAAGACCGTGATTCCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTCGTGCCG
AACATGACTCCTGAAGTCGTGGCGAGCAGGTCAACAAGCTACCTAACTAAGAAGTTTGCTGAACCTACGCAGCCCC
AATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCTGGGTCTCCGACTTCAGTCACCCTCATTACCTGGCT
GGGAGAAGAGCCATGAAGACAGTTTTTGGTGTGAGCCAGACTTGACCAGGGAAGGCGGCAGTATCCCCGTGACC
TTGACCTTTTCAGGAGGCCACGGGCAAGAACGTGCATGCTGCTGCCTGTGGGGTCAGCGGATGACGGAGCCCCACTCC
CAGAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAAACCAAGATGCTGGCCGCGTACCTGTATGAGGTCTCC
CAGCTGAAGGACTAGGCCAAGCCCTCTGTGTGCCATCTCCAATGAGAAGGAATCCTGCCCTCACCTCACCCTTTT
CCAACTTGCCCAGGGAAGTGGAGGTTCCCTCTTTCCCTTTCCCTCTTGTCAGGTTCATCCATGACTTTAGAGAACAG
ACACAAGTGTATCCAGCTGTCCACGGGTGGAGCTACCCGTGGGCTTATGAGTGACCTGGAGTGACAGCTGAGTC
ACCCTGGGTAAGTTCTCAGAGTGGTCAGGATGGCTTGACCTGCAGAAGATACCCAAGGTCCAAAAGCACAAAGGT
TGCGGAAAGTTCTGGTTGTGCGCCGGGCACACGGCTCACACCTATAATCGAGCACTTTGGGAGGCCAAGACAGG
AGGATCACTTGAGGCCAGGAGTCTGAGACAAGCCTAGGCAACAAAACAAGACTCTGTCTCTACAAAAAGTTTAAG
AAATGAGCCAGACATGGTGGTGTATGCCTGTAGTCCCAGCCACTCAGAAGGCTGAGGCAGGAGGATCGCTTGAGA
CCAAGAGTTTGAGCCTGCGGTGAGCTGTGAATGCACCACGGCACTCAAGCCTGGGCAATGTAGCAAGATCCTGTCT
TCTACAAGAAATTTTTTAAAAATGAGCCAAGTGTGGTGGTGCATGCCTGTAGTTCCAGCTACTCAGGACACTGAC
GTAGGAGGGTTGCTTGAGACTGAGAGTTGGAGGCTGCGATGAGCCATGAATGCCCCACTGCACTCCAGCCTGGGC
GACAGAACGAGACCCCATCTCAAAAAAATAAGTTCTGGTTGTCAATTGAATTGGGATAAACAGAGAGCTTGATGC
TTTCTGCCTTCTGTCTCAGGTGATGCATTGCACATTTGGGATATTTGGAAAGGAAATGAGGAAAGAAATTAGGGC
CTCCTCTGATCTCTCGCTATCTGCGGGTCTGTCTTTTCTCAAGACCTTCACCATTACTGGCATTTTCTGTCT
TCTCTTTAGTATGATCCCTCAAAACCTCACTAACTGGAAGGATGATTTTGTCTCAGTTTGTACTCTTAAATAAAA
AGTAAACATGACACCTCT

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FIGURE 5083A

AATCTGAGAGAGGCCGAGTGGAGTTCGGTCCCTTCTCTGAACACTTTTAGCTGAGAGTACCAGCATCCAACCTGGGA
GCGTTGTCATTGCATTTCCACATTCCCAGGAAAGCCCAGGTGCTGGCTGCCAGCTGCTGCGCCCCCATGTAGAA
GGTGCACCTCCTGGGAGCAGGCACGTCTTTTGGCTCTTCTGACCATGGAGAGATAGGACGGTCCCTGCAGCCCCG
GCGACAGAAAGCTGTGCCGCCACCACCGGCCGCGCCCTTTCGGATGGATCGCAACAGAGAGGCCGAGATGGA
GCTGAGGCGAGGCCCCAGCCCCACCAGGGCCGCGGGGCCACGAGGTGGATGGGGACAAGGCTACCTGCCACAC
CTGCTGCATCTGCGGCAAGAGCTTCCCTTCCAGAGCTCGCTTTTCGAGCACATGCGCAAGCACACGGGCGAGAA
GCCCTACAAGTGTCCCTACTGCGACCACCGGGCTTCCAGAAGGGCAACCTGAAGATTACATCCGGAGCCACCG
CACGGGGACTCTGATTACAGGGACACGAGCCGGAGGCGGGCGAGGCGCCCTGGGTGAGATGCGCGCCTCCGAGGG
CCTGGACGCCTGCGCCAGCCCCACCAAGAGCGCCTCGGCCTGCAACCGGCTGCTGAACGGGGCCTCGCAGGCCGA
CGGCGCCAGGGTCTTGAACGGGGCCTCGCAGGCCGACAGCGGCAGAGTCTGCTGCGGAGCAGCAAGAAGGGGGC
AGAGGGGTCCGCATGCGCCCCGGGGGAGGCCAAGGCAGCGGTCCAGTGCTCCTTCTGCAAGAGCCAGTTCGAGCG
TAAGAAGGACCTGGAGCTGCACGTGCACCAGGCGCACAAGCCGTTCAAGTGCAGGCTGTGCAGCTACGCGACGCT
GCGGGAGGAGTCGCTGCTGAGCCACATCGAGAGGGACCACATCACCGCGCAGGGGCCCCGCGAGCGCGAGGCCTG
CGTGGAGAACGGCAAGCCCCGAGCTGAGCCCCGGGGAGTTCCCGTGCAGGTTGTGTGGCCAGGCCCTTACGCCAGAC
CTGGTTCTGAAGGCGCACATGAAGAAGCACCGGGGCTCCTTCGACCACGGCTGCCACATCTGCGGCCGTAGGTT
CAAGGAGCCCTGGTTCTCAAGAACCACATGAAGGCGCACGGCCCCAAGACGGGCAGCAAGAACAGGCCCAAGAG
TGAGCTGGACCCCATCGCCACCATCAACAACGTGGTCCAGGAGGAGGTGATCGTCGCCGGCCTGAGCCTCTACGA
GGTCTGCGCCAAGTGCGGGAACCTGTTTACAAACCTGGACAGCTTGAACGCCCCACAATGCCATCCACCGCAGAGT
CGAGGCCAGCCGCACGCGCGCCCCGGCCGAGGAGGGGGCGAGGGGGCCCTCGGACACCAAGCAGTTCTTCTCTCA
GTGCCTGAACCTGAGGCCGTGCGCGGCCGGCGACTCGTGCCCTGGCACGCAGGCCGGACGGCGGGTGGCTGAGCT
GGACCCGGTCAACAGCTACCAGGCCTGGCAGCTGGCCACGCGGGGTAAGGTGGCCGAGCCGGCCGAGTACCTCAA
GTACGGGGCCTGGGACGAGGCGCTGGCCGGGGACGTGGCCTTCGACAAGGACAGGCGCGAGTACGTCCTGGTGAG
CCAGGAGAAGCGCAAGCGTGAGCAGGATGCACCAGCCGCGCAGGGGGCCCCCGCGGAAGCGCGCAGCGGGCCTGG
GGACCCCGCGCCCCGCCGCCACCTCGATCCCCGCTCGGCCGCGCGCCCCAACCAGGGGCCGAGCCACCACCGG
CCAGGGCAAGTCTCCGAGTGCTTCGAGTGCGGCAAGATCTTCCGCACCTATCATCAGATGGTGCTGCACTCACG
CGTGCAATCGCCGCGCGCGCCGCGAGAGGGACAGTGACGGGGACAGGGCGGCGCGGGCCCCGCTGCGGATCACTCAG
TGAGGGTGACTCGGCCTCCAGCCCAGCAGCCCTGGCTCCGCCTGTGCCGCTGCTGACTCCCCGGGCTCTGGCCT
GGCCGACGAGGCTGCCGAAGACAGTGGTGAGGAGGGCGCCCCGTAACCTGCACCAGGGGGACAGCCGCGCCGCTG
CTGCTTTTCCGAAGAGGTGACTTCGACCGAGCTCTCCAGTGGAGACCAGAGTCACAAGATGGGAGATAACGCCTC
GGAAAGAGACACCGGCGAGTCCAAGGCAGGGATCGCAGCTTCTGTGTCCATACTTGAAAACAGTAGCAGAGAGAC
TTCTAGAAGGCAAGAGCAGCACAGATTTTCTATGGACTTAAAGATGCCAGCATTTACCCCAAGCAGGAGGTGCC
CGTCCCTGGTGATGGTGTGGAGTTCCCTTXCCAGTACGGGAGCGGAGGGCCAGACGGGTACCCCTGCAGAAAAGC
TGTCGATTTGCACAACAAGGAACACTCTGGGGGAGGGAAGCGGGCGCTGGCCCCAGACCTCATGCCGCTAGATT
TAAGTGCGAGGTGACGCGGGATGACCCAGCAATAAGGAGACGGCCTCCTCCCTGCAGGCGGCTTTAGTCGTTT
ACCCGTGTCCTTACTGCAGCCACAAGACCTACTACCCGAGGTCTGTGGATGCACAAACGCATCTGGCACCGCG
TCAGCTGCAACTCCGTGGCTCCCCCGTGGATTACGCCCAATGGTTACAAAAGCATCAGAAGCAATTTXGGTTTTT
CTTTCCCGGAGCGGACGCACGGGCCCCCGCCTGCCCTCGGTGGCAAAGAATGCCAGCCTTTGCTCCTTGCTCXG
GTTACCCGCACTCAGGTGCCAGGGGGGATGCCGGGGTCCAAAAGTGGCTCTTCTCCCCCTGGGAGTGGTCACAAA
AGCCGCTAGCATGCCTAAGAATAAGGAGAGCCATTCCGGAGGTCCCTGCGCTCTGTGGGCGCCCCGGCCCTGACGG
GTATCGACAGACCAAACCTTGTCACGGCCAGGAGCCACATGGCGCGGCCACACAGGGGGCCCCCTGGCCAAGCCCAG
GCAGGAGGCTAGCTCCAAACCGGTGCCCTGCCCCGGXGTGGCGGGGGCTTCAGCAGGAGCGCCACCCCTACGCCCA
CCGTATCGCCCCGGGCTGGCGCGCAGCCCTCGGCCAATAGCAAGCCTGTGGAGAAGTTTGGGGTCCCCCAGCGG
GGGCTGGCTTTGCCCCCACAATAAGCACAGTGCCCCGACTCCCTGAAAGCCAAATTCAGTGCTCAGCCTCAGG
GTCCACCTCCTGCAAAGGGCGAAGGGGGCGCTCCTCCTTACCTCCCCGCGAGCCCCCTCGAAGGCAGCCCAGG
AGCTGAGGACTCTGGCCACCTGTGCTGCGGGGTCCAGGGGCGACGCGGCCTTGACAGGCCAGCCCGCGTGGCTG
GGGCGCCCCCGTCTTACACTCCATCAAACAGGXAGCCGGTGGCCGAGGGGCATGAGAAGCGCCTGGACATCCT
CAACAXTCTTTAAGACGTACATTXCAAAGGACTTTGCGACCCTCTACCAGGGATGGGGTGTACGCGGCCCTGGG
TTGGAGCACAGAGGGACACTCCGGACGCAGGCCCGGCCAGGAGAGTTCTGCTGTCATCGAGTGCGGAAAGAGCTTC

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FIGURE 5083B

CACCAGCCCCGGCCACCTCAGGGCCCCACATGCGGGCACACTCAGTGGTGTTTGAGTCCGATGGGCCTCGGGGTTCT
GAAGTTCATACCACCTCCGCAGACGCCCCCAAACAAGGGAGAGACCATTCTAACACAGGTACCGTCCAGACAGTG
CCTCTGAGAAAGGGAACCTAAAGGCGTGTTTCCGACGCACCCAGGTCCCCGTAACGGCCATTAGCAGTACCCTC
ACGATGTCCCAGCAGCCTCCCACCTGTGACCTGGCCGCTCCATGGAAGAACAGCCGGGGAACTCCTGAGCAGACA
CCTCACATCCCAGCCGCTGCGCTGGAGTGGAACCTGAAGGCAGATGCCTCTCCTTGTTAAACGTTTCAGAAATAA
ATGAAGATGCTATATTCTAGAAATACATGTAGATACTATATACGCATTTACGTGCTCATCGTCCATAGTCCATA
TTTTCTTATAATAAACAGTAGTACTGGCAGGCACAGTAGGGGCACAAGGCATCTGTCTTATTCAAGACAAGTTTG
AGACACTGGAAAAAAGATACTTGTGTGTGTGTGGACAGAGTGGCGAGGCTGAGCACTGTCACAGGGGCCTCC
CATGTTAAGAGGGACTGTGGGGATGATGTCAGAACAAGACGTGGTGATTTGAGGTTGATCGAGTATTAATACTA
CTGCCTCTCCTTGCTTAGTGGGTATTTAAAATAGTAAATAAGAGAGAGGAAGGAGGTGACGTTTCAGGTGCTGTG
GGAAGCAGGCTTGCGGAGGGGTATGATGATGAGACCCTCATTGTTCACTGGCTCCATCGCACTCCTCCCTGGGG
CCGTGTGCCTGTTCCATTCTTCCCACCATTCGAACTGAGCGAATCTGGCAAAGGAGACACGTCTGTGGGAATGCG
TAGATTCCGCCTCGGAAGAGAGCTAGCGCAACACTAAGAAAAGCAGGCTTCTTGTTTATTCTCAGGACCTTTTTG
TAACAGGGCTACATTCTGCAAACTGCTTACAAAGGAAGACTATACGTCTTAACAAATTATTTAGCCACTGAGTCC
TCCCGATTTCGACCTGTTTTAGTAATGGCAGAAGAATCCCTGAGCAGGTTTCAGGTGCCCTAGATGACTAGGGTGC
TGAGCTCTGGCGCCTTCTGTCCCCACTCTTTGCCTCCCCGCCCTTCCCTGAGCCACCCCAGCAAGTGGGTGTCT
TTTCTCCCTGGGCCTGGTGACCTCCACAGGATGAGTGACTTTGTTTCATAAAGGGTGGGGATCACCAGCCCCCTTGG
GTGGGGGACGGCTTCATATACCTCTTCCCTCAGTAATGCAAATGCGAGTTTTTGTGGTGGGGGTTAAGGCCATAA
CAAAGGATCTTAAACCATGCAGTGTACGCAATTGAAATGGTATTCCACAGATATAAAATATTTTCTTTTCCCATTG
CCGTGACACTATGTGTGATGGTAATATTTCTGAGAGTTTCAGATTTTTGCACATATGATTTTATGCATTATCAA
AGTTACTGCTGCCTTGAATGAAAATGTTCTGTGAAATTTTTTGCAAAAGCTTTACTAGGTTTTTTTTTTAATTGTG
AAATTTTTGTAAAGGCAGGAAATGGATTAAAACGAGCATGCTAAATATATTTTTTCAAAAAGCAATAATTTTACAT
GTACAGAAATTATCCTAACCTTTAATACTGGCGAGAGCAACAGTTTTACTTAATACGGTAATGGACTAGTGCAGTT
TTTGTAGACAGTGGGCTTCTGATACAAAGTCTTGTTTAAACACAGACACACACACACACAAACACACACACAC
CCTAAAGTGTGGGTTTCTGTCTAATGATTTGTTGAATATTATTATATTATTATTATTATTATTATTATTATTG
TTATTGTTATTAGTAATGTTTGGTCTGGATTCTACTTGTTACTGAGTTTAAATTACTTGACGGTTCAGGTTACT
TTGCAACACTTTCAAACGATGCAATGTAAGTGGCTAGCTTATATATATATATATATATATATATATATATATTTT
TTTTTTTTTTTACTTATTTTTTTCTGATATTCTTACACCAGATATGTACGAAAATGATCTGTCCTGTTGGTGTA
TTAGGAATGTCCATGCAGATACAGTTAAACAACCTGTAATTGACTGTTCTGTAAAGTTATTTTGGGCAAAGTTGCG
GAGACACATTCTCTGTCCACCTAAGAAATCAGAAGACTCTTCTGTTGATTTATGTTTAATCATTTTCAGTAGTTT
CCCCACAGTGATCATTTCTGCATTTTCTGGCTTTTGTCTTGGCTGAAAGTGAATGGTGACTGTTAGGAATGT
CAGGGACTAGTGACCCAGTCTGTTTCTGTGTTTTAGTTATTAAAAAGAAATTCTGTACCCAAAGTG

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FIGURE 5084A

AGACCATCCAAGAAGACAGTGCAGCCACCTCCGAGAGCCTGGATGTGATGGCGTACAGAAAGAGACCCTCCCAGA
GGCACGGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATGCCAGGCATGGCTTCCCTCCCAAGGCACAGAG
ACACGGGCATCCTTGACTCCATCGGGCGCTTCTTTGGCGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGG
TGAGCTCTGAGGAGTAGAGGAGTTTTAGTTTTAAATGGAAAAAGCAAAGGAGAAATCAGTAGGTGAACCTCAGCCAT
TAGAGGAAGAAGTGGCACGTAGCCTCTTGCTGTCTAAGGTCTCGTTCCGTGCTGGAGAATGCATATGAGCCCAAG
AGTGTGGGCCTGAGTGGCTGCTTAGGACGTTTTCTGTTAACTCACCCCTCTTTTCTCACAAGGGATGGTGGCC
GGGGTGTGGCTCAGGAATGTAAGGACATGCTGAATTCTGGATCTCTAAGGGTGCCTGGACATGGGCGTTGCAGAA
AGAGAGCCACATTCTCAGGGTCTCTGGTGGTGTGTGCTTGCAGACTTGATGACTGATGTTGCCTCTGCAGCCAC
ACGCTGGGGTTCAACACTGGGTATGCTCGTTTTTCTGGAGTCAGTGTGCTAGCTTCATGTTGCTCTGCGAC
AATCATAGGATTGAGGTGAGGAAGACTTTTGAACAACTCCTCAATTTAAATCCGCCCTGAGCAAACGTTCTCT
GTGGTCTGAGAAGTGAAGGGGGAGGGATAAATGAGTGTCTATGAATCAAAGCTTTATTATCTTGTGATTCCAT
TAATTTGCATACAGAGTCTTAGAAGTTTCTTTATTCAAAGCAAATGTGGATAAAAAATGTATTACAAAAA
AACTCTGCTATGGGGTCCAGAGTCTAGGAGTGGTTTCTGCAGTTGATTGTCAGTGGAGAACCCTGTGGCTGCTGGT
TCATCAAAGCGCTGGTCCCTGAGTGCCATTGAGATTGCAGATGCAGTATTTTACGTGATGTTTAGAGTGTGGT
GGTTGTGTAATTTTGGAGAGAAAAGTTTTTCCAAAAAGTCCCTAGTTTATTGGGTGTTCTCACACAACCTG
TAAGATGAAGCTGTTTTTCTGCCTGTGTGCAGGGCTGATTCTGGAATTCCAGAAGGCCCTTGTGGGAGCGTAAAAG
GCTTTTGAATAAAGTGTGGAACAGAGCGCCTCATTCTGATAACATGCAATCATAAAAACCATAGGGCAACTTGA
GTTAAGGAGTTTCTAGAATTTGCTTTAGTCTCCAACGCAATTTCTTTATTGATCATGAAATTGTTGAAGAGAAAC
ACAAATGTCAGTTTTACCTTTCTGTGGGCGTGAAAGCACATCGAAGTTTCAGGCAACTGTTAACATCTCTACCA
TCTGTCTGAGTTGAGATTTAGGTTGTGACACTTGCCGTGACTTATTTGTAAATGACATTTTGTGTGCTTAGAT
ACTAATGGAATTCATATTCTGGCTAGTTCTTTAGTGCATTTGTAGACATGTTCTTTCTTTGTAGCAGTCCCTC
CCTCACCTGAAATGTTGGTGTCTAACCATTCTAATGCTAATTTCAACTGGAAGCACTTTTTCAAGCCAGC
TATCAAACCACACCAGACATGTATGGATTGGGTTGCCAATAAAGCGTTGCTATTATGTAAGCATCCCTCACGC
ATACAGCATCACAGTTTTGAAAGCTTGAACATTTCTGCTTACTTCAAGGTACAGAAAAAATGTACTTAA
CTGTGCAGAAAAGATGAAATCACTGGATAATATGTATTATAAAATAAGCTTCATGTGAGTGACACTGGTTTAA
TGAAATAAATGGTGAAAGCATTGATATCAATCATTGTGACTTTATCTCAAAACAATATTGACACACATAGATGT
TTTTCTTCTTTATGGTAAGATTACAGCCTTTATTGTCTTAAATCTCTTATACTCTCAATATTTTCAAAGAAA
CATTCTAGTCTCAGAAATAGTCCATCTCTTTGCAAAACAGGGCTGGCCAATTATCAAGGACCATAAAAAATCAA
ACACTTTCAAAATTTTAAAAATAAAATAAATTTTACATGATTGCTTTAGGAATTTTGAAGTATCCATTCTTT
CACTATGGAGTGTTGAATATAGAAGATTTTTTAAATGAACAGGCTTGCCCTTTGATGCCAAAGGCAAAAAATA
ATAATAACATTTGCACGTGTGATCACAGAGCAGCTGTGAGGCATCCCGGGGAGCGCACGCAGTGGGGATGTGAT
TGCTCCACTCAACTATTTTATCACAAAGTGTGTAAACATGGGAGATGAAAGCTTAACTCTCTACACCCAGCT
ACAGACCCGCAATGGCCCTAAAAATCTGGGGTATTGATTGGGTGGGCTGCCATGGAGGAATTTTGGTTTTGT
TTATTTTATTTGTTGTTCTGTTTACAAATCAGGAGAGCCCTGTTTTTATATGCTAGGAAGGTCCTTGGGATAG
GCCGAAGAGGTGTGCAAACGAGCAGTGAAGGCCCGGGCCCTGTCTCTCAGGACCACGGCGGCCTGCCCCACA
CAGTTCTGCTTCTCCCTATCTAGAACGAGGTTTTCTGGCAGATTCTGCCAGACTCTGAGTGGAGCCCCCAT
GACCCTATAAAAGGGCTGTTTGTCTCTCCACCCCTCTGTGCTCTTCTCTCCCTCCCTTGAGGGCACATGGC
CGCTGGTACCACATGTTGGAGCGGCCGCCCGAGCCCGGGAATGCCCTAACAAACCCATGCTTGTGTTGCTGG
GAGCTGACATTCAAGAAAAGTGCAATTAATAATTCCTTGAGAAGGCATATTCTTTTGGAGCCGTAAATGAAAAGT
GCATTCACGGAGAACATGCTCCTTTGTTGTGAGAGGAAAGAAAGGACTGTTGTTGCCTTTAAGGAACAGGTTTCC
CAGTTCCCGGAATGTCAGGGTACATGAGGAATGGGTGAGCACTTAGGGCCAAGATTGTCGTGTGCTTGGCCCG
GCAGCTTCTCTCTAAGTGACCTCTCCAGCATCACTCTGTGCCAGTGCTCATATCTGAGGCCACTTGAGTGTACG
AGGCAGAGCCTGGAAACATTAGCTTTGGAAACCGTTCCTTCTTTTATGTGGAGGAAGTAAGGTTTACAAGAC
ACCTAAGCTGGACATGGTGTGATGTGCCACTTGGATAGTTCCCAAAGCAGAAAGCAGCCAGGACATCCAGTACCC
ACTTCTCCGTGCCGTGTACTTTTAGGGAGGTTTTCGAAAGCTAGCTTCTTACCGATGATTTTGTCTATTTTCTG
TTTTATGTGAAACCTTCATTTATAACCTGCTCTTCTCAGTGTCTTCTATTTCAGCATTGAGTATGACTTCTATG
CCTCTAATTGCGACTGTATGGAGAAGACTGTTTGTCAATTCAGTGCCGTGGGATATAATCAGTCCTGTAAATTCA
TCAGAATGTTCTGTTGCCTGATTTTTTTTTTCATTGCATTTTAAATTCATTAAACATATTTTAGTTCTACAGTAAC

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FIGURE 5084B

CTAATTCCTCATTGTTACCATGAGATCCTAATTCTGTAGCTGTGTTCTGTAATCCCATGGGGCATGTACCATTG
GAGACACATGAAGGATACAGTAGACAGCACGGAAGGCAGCAGCAACACACAGGGGTGTCCTCCCTCCCCAGAGCC
CAGTGTGCACACAGAACCAAATTCAATCTCATTTCATCGTGAGCTTGCATGGTAACTGATCCAGCCACTCAGTACC
TCCATTGGATAAGAGATTTGGCCACAGATTCTTCTAGAGAAAATCCAAATGTGGAGGGTGCATTTGTTTCTGCAC
CCAAACAAATACCTTTTGAGATTTCTTATAGGCATTCCTCTCGAAGTCTCATTACTCTGATCAGTTATTGATCGG
AGGCTACCCTGGCTCAGTCACCAGCTGCTCACTGTGTCCTTCTGTGGTCTCAGGAGCTGCAGTTGTTGCTGTTGT
ATGAATAGACGATAGTTAATTAGACTGGATGTGTCTGTACTGGCAGTGATTTTGCAACTTCCTCTGTATAAGCGA
TACATTTGTAAATCATGGGAATGTATTTGATGGTAATTGCCTGTGGTGGTTGTATCATGATTTAATTTTATTATG
AGCTTTTGGCTTTATATATTTTTCTGCCTTTTTATGCATTCATTAAACAGTTTAAACAGAC

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FIGURE 5085

MGNHAGKRELNAEKASTNSETNRGESEKKRNLGELSRTTSEDNEVFGEADANQNNGTSSQDTAVTDSKRTADPKN
AWQDAHPADPGSRPHLIRLF SRDAPGEGGQHLQRQAL

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FIGURE 5086

CCTGGATGTGATGGGCGTCACAGAAGAGACCCCTCCCAGAGGCACGGATCCAAGTACCTGGCCACAGCAAGTACCAT
GGACCATGCCAGGCATGGCTTCCTCCCAAGGCACAGAGACACGGGÇATCCTTGACTCCATCGGGCGCTTCTTTGG
CGGTGACAGGGGTGCGCCCAAGCGGGGCTCTGGCAAGGTACCCTGGCTAAAGCCGGGCGGAGCCCTCTGCCCTC
TCATGCCCCGAGCCAGCCTGGGCTGTGCAACATGTACAAGGACTCACACCACCCGGCAAGAACTGCTCACTACGG
CTCCCTGCCCCAGAAGTCACACGGCCGGACCCAAGATGAAAACCCCGTAGTCCACTTCTTCAAGAACATTGTGAC
GCCTCGCACACCACCCCCGTCGCAGGGAAAGGGGGCCGAAGGCCAGAGACCAGGATTTGGCTACGGAGGCAGAGC
GTCCGACTATAAATCGGCTCACAAGGGATTCAAGGGAGTCGATGCCAGGGCAGCCTTTCCAAAATTTTTAAGCT
GGGAGGAAGAGATAGTCGCTCTGGATCACCCATGGCTAGACGCTTGAAAACCCACCTGGTTCCGGAATCCTGTCCT
CAGCTTCTTAATATAACTGCCTTAAAACTTTAATCCCACTTGCCCTGTTACCTAATTAGAGCAGATGACCCCTC
CCCTAATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTACCGGCAATTTCCGGCCAACAGTT
AAATGAGAACATGAAAACAGAAAACGGTTAAAACTGTCCCTTTCTGTGTGAAGATCACGTTCCCTTCCCCCGCAAT
GTGCCCCCAGACGCACGTGGGTCTTCAGGGGGGCCAGGTGCACAGACGTCCCTCCACGTTACCCCTCCACCCTTG
GACTTTCTTTTCGCCGTGGCTGCGGCACCCTTGCGCTTTTGCTGGTCACTGCCATGGAGGCACACAGCTGCAGAG
ACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCTTCCTTTGTTTTTTTTTCTGTCTCTCTC
ACCTCCTAAAGTAGACTTCATTTTTTCCTAACAGGATTAGACAGTCAAGGAGTGGCTTACTACATGTGGGAGCTTT
TGGTATGTGACATGCGGGCTGGGCAGCTGTTAGAGTCCAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCCAG
GCCGTGGCTGCCACACACCCCAATTAGCTG

5519/6881
FIGURE 5087

MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKVPWLKPGRSPLPSHAR
SQPGLCNMYKDSHHPARTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGAEGQRPFGYGGGRASY
KSAHKGFGVDAQGTLSKIFKLGGDRDSRSGSPMARR

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FIGURE 5088

GGCGCCTGAGCGGACTGACGCCGAGACGCGCGCGGGTCAGCGGCGCGGGGACGCGGGGCGCTGGGCGCGGGGCTG
GGGGCGCAGGCCCCGAGGCCGAGGAGCGCGCGGAGCGGCGATGAGCAGGCGGCCGGTGGCCCCGCGGGGCGCGGA
GCCCCGTGACAGCCTCGGCCAGGCGGGCGCTGCGATGGAGGCCGAGGGCCTGGACTGGCTCCTGGTGCCACTGCAC
CAGCTGGTGTCTGGGGCGCGGCCGCGGCCATGGTCTTCGAGGGGTGGTGCCCTACGTCCCGCAGTATCGGGAC
ATTGCGAGGACGCAGAACGCCGACGGCTTCTCCACCTACGTGTGCCTGGTGCTGCTGGTGGCCAACATTTTGGCG
ATACTCTTCTGGTTTGAAGGCGCTTTGAGTCCCCGCTGCTGTGGCAGAGCGCCATCATGATCCTGACCATGCTG
CTGATGCTGAAGCTGTGCACCGAGGTCCGTGTGGCCAACGAGCTCAACGCCAGGCGCCGCTCCTTTACAGCTGCA
GATAGCAAGGATGAAGAAGTCAAGGTTGCCCCCAGGCGGTCTTCTGGACTTCGACCCCCACCACTTCTGGCAG
TGGAGCAGCTTCTCGGACTACGTGCAGTGCCTGCTGGCCTTACGGGCGTGGCGGGCTACATCACCTACCTGTCC
ATTGACTCCGCCCTGTTTGTGGAGACCCTGGGCTTCTGGCTGTGCTGACCGAAGCCATGCTGGGTGTGCCCCAG
CTTTACC GCAACCACCGCCACCAGTCCACGGAGGGCATGAGCATCAAGATGGTGCTCATGTGGACCAGTGGTGAC
GCCTTCAAGACGGCCTACTTCTGCTGAAGGGTGCCCTCTGCAGTTCTCCGTGTGCGGCCTGCTGCAGGTGCTG
GTGGACCTGGCCATCCTGGGGCAGGCCTACGCCTTCGCCCGCCACCCCCAGAAGCCGGCGCCCCACGCCGTGCAC
CCCCTGGCACCAAGGCCCTCTGACAGTGGGGAGGACGAGGATGTGGGACCGCCAGCCGCGGGCACTGGTGGGGC
CTGACCTCCCCGCGGGGAGGGTGGGTGCTGTGGCCCCCTGCAGGTGTGGCAGAGATGGGGCATGGGCATTGGGGTCT
TCCATCAGCCTCTGTGGGTGTCTCAGGGTGGGCAGTGGGGGTGGGGCTGGGACGCTGTTTGTGCTCAGCGGGGA
CAGCCAGGGTTGATCTGGCCCCGAGGGTTTTGGATGTTTTTAGGATGACATAAAAAGCAAGTGTTTTCCCCATTT
CCTCTTATGAAACACCGTCTGAGCCCAAGGTACACATTGGGGCGCCTGCAGGAACCTGCTCCAGGTGGACACACG
GGCCAGCAGCCGCAACCTTGAAGCTGGGGTGACCGCAGGAGACCCTGTAAGGCCTGTGAGCGGAGCCCTCGACC
CCGTGACACCCTGGCCAGACACCCTGCTTGGACTGGGGTGGCCTCTGCTACCCAGGGGTCTGGCACGGGGGAGGG
CTGGGGCTTTCTCTGCCTGGTACACACGGAAAGGCGGCTGTGCGGACGCAGGGTCACCGTGCTCCGGGTTTTCTG
ACAGTCGGTGTTTTCTGGGCCCTTTGGAGTGGCTGCGAGGCCTGAACGCCTTGTGGATCCGCTGTGTCCAGCCCGG
CTGAGCATCGCCAGGGCTAGCTCATGCTGCTCTTGTGAGCCTCTGGTCTCTCCTCGAGTCCTTGGGGACGTGGCAG
ATGCCAGCGACCATCAGACAACGTGGAGGCCCTCATGGGCAATGGCTGAGGGGGCCGGGCTGAGGCTGTGCACAT
GCAGTCTGCACGCCACTCTTGGGCTCTGCTGGCGGAGATCCCCTTCTTCTGGGTGCAGACTGCACCTCCGGATG
CAGTTTTGATGTCCATCTTCCAGGAGAGACGGTCTCGGGTCCAGGGAGTGGAGGGGGCTGCCCTGCCGTGCAGG
TCCTGGCCGATGGCGCCTTACCCTGCTGCCCTGGGCTTTTGGCCTGAAGCAAATTCCTGAGTGGGGGGTACTGGG
GCCTGCCGCATCCTGTCTGTCCACTGCCACCCCCGTGTGCTGGCTCCCTCACTTCTGGCTGCAGTGGGAGCCG
CCAGTCTGACCCTTGTACCCGCACGCTCTGCCCCACCCCGTTGCAAGAGGTCACACCATGTCAGCAGCCTTGCA
CTGACCGCAGCCGGCCCCCAGGCCTCAGAGTTCTGGATGCTTCCGTGCGGCTCCAACAGGCATCGTCTTCCCTTC
CGCAGGTGGAGGGGCCGCTTCCCGCAGGCATCTGAGCTCTGTGCCGGGGCCGTGGCCATGGGAAGATGTTCCACG
CTGCCTCCTCCTCGAGTTTTCTCGGAAACACTCTTGAATGTCTGAGTGAGGGTCTGCTTAGCTCTTTGGCCTG
TGAGATGCTTTGAAAATTTTTATTTTTTTAAGATGAAGCAAGATGTCTGTAGCGGTAATTGCCTCACATTAACT
GTCGCCGACTGCAGGCGCAGTGACTGCTGAATGTACCCTGTGTGGCGACTTGGAATCAATAAACCATTTGTGGAT
CCTG

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FIGURE 5089A

CTGGGTTGTGTCGCCGCGGTAGGCGCTGCGCTCTGAGCGCAGCGCAGGCCCGGTACCGACCGCCCGCCCGCCCTC
TGTCCGCGATGGAGGTGCCGCGCGCGGGTTCGCGTTCTTGCCGAGGGCGCCCGACGGCGGGCTGTGGCCGAGGTGC
GCTGCCCGGGGCCCCGCGCCGCTGCGCCTGCTGGAGTGGAGGGTGGCGGCGGGCGCGGCCGTGCGCATCGGCTCGG
TGCTGGCCCGTGTTCGAGGCCGCCGCTCCGCGCAGTCTCTCCGGGGCCTCTCAGTCCCGTGTAGCCTCCGGGGGCT
GCGTGCGCCCCGCGCGGCCGGAACGCAGGCTGAGGTTCGAGCGCGCGGGCGTGGTGCGGGAGCTGTGCGCGCAGC
CGGGCCAGGTGGTTCGCCCCAGGAGCGGTTCTGGTGAGGTTGGAAGGATGCAGCCACCCGGTTGTTCATGAAAGGCC
TGTGTGCTGAATGTGGCCAAGACCTCACCCAGTTGCAGAGTAAGAACGGGAAGCAGCAGGTGCCGCTGTCCACGG
CGACCGTGTCCATGGTGCACAGCGTGCCGGAGTTGATGGTGAGCTCCGAGCAAGCTGAACAGCTGGGAAGAGAAG
ACCAGCAGCGACTGCACCGAAACCGGAAGCTGGTGCTCATGGTGGACTTGGACCAGACGTTGATTACACAACCG
AGCAGCACTGTGAGCAGATGTGCAATAAAGGCATCTTTCACCTCCAGCTGGGCCGGGGTGAGCCCATGCTGCACA
CGCGCCTGCGTCCACACTGCAAGGACTTCTTGAGAAGATCGCCAAGCTGTACGAGCTGCACGTCTTCACCTTCG
GCAGCCGGCTGTACGCACACACCATCGCAGGCTTTTTAGACCCCGAGAAGAAGCTTTTTTCTACCGAATATTAT
CAAGGGATGAATGTATTGACCCATTTTTCTAAACCGGGAACCTTAGAAATCTCTTTCTTGTGGAGACTCAATGG
TTTGCAATTATTGATGATCGAGAAGATGTCTGGAAGTTTGCCCCAATCTGATAACTGTGAAGAAATATGTATACT
TCCAGGGCACGGGTGATATGAATGCGCCCCCTGGGTCCCCGAGAATCTCAGACGAGAAAGAAAGTAAATCATTTCTC
GAGGCACTGAGGTCTCAGAGCCATCTCCGCCCCGTGAGAGACCTGAGGGGGTAACGCAGGCCCTGGAGTGGAGC
CCAGCAATGGCTGGAGAAGCCTGCACGGGAGCTGAACGGCAGCGAGGCCGCCACCCCGCGGGACTCACCCCGCC
CCGGGAAGCCAGACGAGAGGGACATCTGGCCCCCTGCCAGGCCCCACCAGCAGCCAAGAGCTGGCAGGCGCTC
CTGAGCCCCAGGGATCCTGTGCGCAGGGTGGCCGGGTGGCACCGGGACAGCGGCCTGCCAGGGTGCCACGGGCA
CTGACCTGGACTTTGACTTATCCAGCGACAGCGAGAGCAGCAGTGAGTCCGAGGGCACGAAGTCTCTCTCTCCG
CCTCTGATGGCGAAAGCGAGGGGAAAAGAGGCCGGCAGAAAGCCGAAGGCTGCCCCAGAGGGAGCCGGGGCGCTGG
CACAGGGCAGTTCCCTGGAGCCGGGGCGGCCCTGCAGCACCGAGTCTCCCCGAGAGGGCCGAGCCTGGCGCGCATG
CCCCGACAAAGGAGCCTGAGCTGGGTGGGCAGGAGGAGGGCGAGCGGGATGGCCTCTGCGGCCTGGGCAACGGCT
GTGCCGACAGGAAGGAGGCGGAGACCGAGTCACAGAACAGCGAGCTGTGCGGGGTCACTGCGGGTGAGTCCCTGG
ACCAGAGCATGGAGGAGGAGGAGGAGGAGGACACGGATGAGGATGACCACCTCATCTACCTGGAGGAGATCCTGG
TCCGTGTACACACTGACTACTATGCCAAGTATGACCGCTACCTCAACAAGGAGATCGAGGAGGCGCCGGACATCC
GCAAGATCGTGCCGGAGCTCAAGAGCAAGGTGCTGGCAGACGTGGCCATAATTTTTCAGTGGGCTACACCCGACAA
ACTTCCCGATAGAGAAGACGCGGGAGCATTACCACGCCACGGCGCTGGGAGCGAAGATCCTCACTCGGCTGGTG
TGAGCCCCGACGCCCTGACAGGGCCACGCACCTGATCGCCGCGGAGCTGGCACAGAGAAGGTGCTGCAGGCAC
AGGAGTGCGGACACCTGCACGTGGTCAACCCTGACTGGCTGTGGAGCTGCCTGGAGCGCTGGGACAAGGTGGAGG
AGCAGCTCTTCCCGCTCAGGGACGATCACACCAAGGCACAGAGGGAGAACAGCCCTGCGGCCTTTCCCGACCGGG
AGGGTGTGCCCCCACCGCCTTGTTCCACCCGATGCCGGTTCTTCCCAAGGCCAGCCTGGCCCCGAGGTTCCGA
TCTACGACTCCAACACGGGGAAGCTCATCAGGACGGGCGCCCGGGGGCCCCAGCACCTCCAGCTCCCTACCCA
TCCGCCAGGAGCCCTCTTCTTTCAGAGCGGTTCCGCCACCCAGCCGAGATGTTTGGTGAAGAGCTGCCTGACG
CTCAGGACGGAGAGCAGCCTGGCCCTTCTAGAAGAAAGCGACAGCCAGTATGTCTGAGACAATGCCGCTGTACA
CTCTTTGTAAAGGAGGATTTAGAGAGTATGGACAAAGAGGTGGACGACATCCTTGGAGAAGGCAGCGACGACGCG
ACAGCGAGAAGAGGAGGCCTGAGGAGCAGGAGGAGGAGCCCCAGCCCCGAAGCCAGGGACCCGAGGGAGCGGA
CGCTCGGGGCACCTGCGTCCAGCGAGAGGAGCGCGGCAGGGGGCCGGGGGCCAGAGGCCACAAGAGGAAGCTGA
ATGAAGAGGACGCCGCCAGCGAGTCCAGCAGGGAGTCCAGCAACGAGGATGAGGGCAGCAGCTCCGAGGCCGACG
AGATGGCCAAGGCGCTGGAGGCGGAGCTCAACGACCTCATGTGAGCGCGGGCAGCGGGCAGGGACTGAAGCCTGA
CCGACCTCCAGCAGCACTCGGACGTCCCCGGACAGCCCTCAGTCTCGGTCCACGCTGCTTTCTTCCCAAAGGAC
ATGTATATTTGCAGAGCTCCACATACAGAAACACATTATTTTGAGAAATAGGTGTTTTTAAGAAGTTTACTAC
AGGAATGTCTACTTTTGTAAAGTGACAGGTGTTAAAGGCCAGGTGTGCTGTGCCAAAGAGCTCAGCAGAGGCTCA
CGTGGCCCAGGCTGGTGCGCCGCTGTCTCGGTAAGGGGCGGGTTGGTGTGTTTTCCCTTGTGTACCAGAGCAC
ATTCTTAGGGGACGGCTTTGGGGGTCCCACGAGACATGGACTAGGAGTTAAGCAGGACAGTGTGCGTGCACGA
GCTCCGAGCCAGCACAGACATGCCTGGAACCCCCGCGCCTGCTGCTCCCTCCTAGGGAACCCATTTCCGGGGA
ACGCCGTGACTGTGCGGCAGCCTGGAGCTTCTGACGCTCCTACGAGGGTCCACGCCACGTGGCCTGGGCTGC
CATCTGCGCTCCTCCCACTGGCATCCTGGCAAGGGGGCGTTGCTTTTCTGGGCGGCCTTTTATGTCTTGGAGA

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FIGURE 5089B

CACCTGATGTAAAGTTTCTGTAAATCTATTTTCATATCTGACCCACCAAACAGATTTCCTTTAATAAAAAATCCTT
TTTGTAAGTTC

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FIGURE 5090A

CACCCTTCCATCACCCCAGCCTGAAACTCTACCCATTGAACACGAGCTGCCCAACTCCGCCTTGCTTCCCCATTCTGCGCGACCACTGCTTCTGTCTCTGTGAATTTTACTATTCTAGGCACTTCACAAAACCTGGACTCATACGATATCTGTAGTTTTTGCCTCTGGCTTCTCTATTGAATTCTTAAAGGGGGGTGGGAACCTAAGCAGATCACAAGGGAGCTGCCCACAGAGGTAAAGACAAGGTCAGGTAGGCTGAGAGACGCAGGAAAGCGGGTCAAGGCGTAGGGCTGGAGGGCAGGGCGGGCCCTGGGCGTGGGCTGGGGGTCTGCCCCGGGGCGCACCCCGGGCGAGGGCTGCCCGGAGGAGCCGAGGTTGGCGGACAGCTTGGCCCTGAGCTTGAGGGGAAGGCAGCGATGGGACAAAGGACGGAGGTCTAGGAAGAGGGTCTGTCAGAGCAGAAAGCACGGGTAGGGGCGGCCCTGACGCTCGGAAGACAACGCATGGGAGCCGTGTGCACGTCGGGAGCTCGGAGTGAGCGTGAGTTCCGTGCCAGGCCCGCGACTCGGCCCGACAGGACAGCGCTCCGGGTGACGGGGTCTGGAGCCGCGCTCGGGGAGGGCGCAGCGGAGGGCGAGCGGCGGCGTTAGGACCCGGAGGCGGGCGGACTGGGGCGGGGGCTAGGACCCAGCGGCTCCGGCAGAGCGGAAGCGGCGGGGAGCTTCCGGGAGGGCGGCTCGCAGGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTGAGACCTATGCCGTGCCCTTCATCCAGCCAGACCTGCGGCGAGAGGAGGCCGTCCAGCAGATGGCGGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTTCAGCAGGTGGGTGCTGCCACTCACCCCCACCTGATGAGAGGGCCATCCCTGTCTGGGCAATCCCAGCAACACACCCTCTGGGAGCAGCCCCCTTGGGGAATCCCGGTCTGGGGAACCCATCTGGCTTCCCTGTGTGGGAGGGGGCTGAAGTGAGAGCCCCAATTGGAAGCTTTTACTCCTGGGAGTCCAAGAGCTCACTCCCTTCCACCCCACTTAGCCTCCTGGTTTCTGTGGTGGCTCTGCTCTCACAACTCATGCTTTTCTCCATTGGAGGGCCTATTCTTCACGTTTTCTGCAGCCAACAAATATTTACCCAGCAGTGCTCGTGTGCAAGGCAGTGTGGGAATCTCTATATATCCAGCCACGGATAAGGCAACATACCTCTCCACCTGGAGCGCACATTCTGGCAGGAGAGAAAGACCTAAATTAAGCAATAGATGATTAGTTCTTCAATAACAGTTGTGACAAGGTCTATTGATAATATTTTGTAACTACTAATATTCATATAAACCGTGCACAACCATTGATTTGAGTGCATTAACTCACACTTCATGAGCAGGCACTGCCGTCACTCTATTTATAGATGAGGAACTGAGGCACAGAAGGGCTGAGAGACCTGGCCTAGTGACAGAGCCAGGATTCAAAGCCATAGATCATGGCCCCGGGTTATGTAGTTATTACTGCATCTGTTTACGGGGAGATGGGGTACTGTGAGGCTCGTCATGGGAAGCCTGGCTTGGTCTCAGGTCAGGGAAGGCAGACGTGAGGAAATGACATTTATGGTAAAGTCTGAGGGTTGAGTGGGTAGGTTGGGAAGAACATTCCAGAAAGAAGCACATGAACTACAGCCTGGAGGTGGAGGACCTAAAAGGAAGCCAGCATGGCTGGAGCACGGAGTGGCCATTGAGGGAGGCGAGCTGGAGGGCTGCAGCTTCTTGTATTGGCAGTGCTGACCTCGCACAGTCTTGGCTCCAGTGACTTCACTCAGTGTTTATCTAACATGAGTGAGTGAATGGTGTGTTGCTCTTTTTTGGTAAAGGTCACAGGGTTGTGCGGTACACAGGTCCTGTCTTGGCCATAAGCAAACCTGAAATGAGGCTTGGTCTCCTTCCCAGGATCCACACCATGCCTCACATGGTAGACCCCACTGGGAAGTATGTGACTGCCTGACTCAGGTGCCTCTCGTGGTCCAAGCCATCCCTGCCCTGTCCCTTCCCTGGTTGTGCGCAGACCTGGAGCCCCTGCTCCTTCACTTTGCAGCCTCTCTTCTGTACCAACTGGGAACCCACCTCTTCTGAAAGTCTTCCCCCACTGACTCACCGGCTTGCCCCGAGTTGTCAAGAATGTCCAGTAACCAGGGGACACACAGTGAAAGTGACTGAGGGGTTACCTTGGAGTTGATGCCTTGGCTCAGATCCAGCTCCCCTGTTTTCTTCTCTGTAACTTGGGCAACCCCAACCCCTCTAAGCCTCGGTGTTCTCATTGTGAAGTTGTGGTAATAATGGTAGCTTCTGGTAGAATTATTTTAAATATTAAATTAATCAAAACATGCAAAGGAATGGAACAGTGCCCTGGCACTTAGGAAGCCTTCAGGAAATGCTATCTTCCCTGTTGATAATCTTGACCCGTACACTGCCTTTGGTTGCCATTATATAACCTGCCACCAATAGTAACAAAGTGCTGGATGCACCTTTTGTGCTTATCTTTGTGCTAAATGTGCCCGAGGGACACCTAGGGAAGAGGATGCAGGTCTTTAAGAGCCATCAGCTCCAGATTATGGCCACCCCATGTCCAGCACTTAGAATGGAGGCCAAAACCATTCCTCGGAAATTGTGTTTTCTTGGCAAGATGGGGACTGCGTGGTTGCCCTTCTCTGAGGGCAGCGCTGGATTTTTGGCGTCTTTCTTTCTGTCTGGTACTTGGCACCTGTAGACAGTTGCATGTCCCTGCCAGGGATGGGATGAGGAGAGGGCAGGAAGGCATTTCTGGGTAGTGGAGTGCTGCGTTCAATTGAGTGTGGGTCTCTCAAGCTGCTGGCACAGCGCAGGGAGGGCCAGATGCCTCTCAGGAGCCTTGGGCCTGAGTCTGGCTCCCTCACTCCTGGGTTCAGGTCACTGCATCTGTCTCTCCACCATGTGCTCCACCTCGTGCTGGACCTTAAGAGATACCAATTATGTGGCTGCCACTGTGTCCTAGAGGCTGGAATGGGAACACATAGGGCGAGATTGATTGTTAATTGCTAGCATGAACCGGTGGGCTTCTCAGGGTCTAGAGTGGAGAGAAATCGGTAAGAATTGTGGCACGCTGTGAGAACTCCCCAGACCAAGCTAAGCAAAAATTAACCAATCAGTAGAGCAGCCTTCGGAGTAAAGGGCTAAAATGATGTCCTCAGGGCCTGGTTTTGCTTTCTTCCATGTCAAGTTTGCTTTTGGGTCTGGCTGCATTCCCAGACAGGCCATGCTCTCGTGGTAGCAAGGTGACATGACACAGGGTCAGGTCCAGCAGGAAAGAATGCTGCTCTGTGTCCCCACTTCTCCAGAAGCCACACTCACTCATCCCACCTGGCTTGGTCTCATGTCTATCCCAGAATCCATTAATGGGGCCAGGGGACTATGACACACCCTTGGCTTAGACTGAGGAGCTCTGTGGGCAGCCCCACCTGAAGC

5524/6881
FIGURE 5090B

TCTGGGACTAAGCCTGCGAGAGAGATGGATTCCCCAAGGGAAATGGGGCCATTGCTTGAGTAAAAAGGAAATAGT
TGCTGAAGAGGAAAACACGTGCTTACTCCACATAGGGCAGACTCCTGGAAGAGGGGGGCAGGGTAGGGAGGTGG
ATATGCAGGTTGCCCTGGCAGGGTCTGGAAATGGGGGCTGCAGGCTTGAGGGAGGCCTCAGTGTGGCTTGGAAC
GTGGTGTATGGTGGTCTGCCGGAAGGCCGGCTGCACAGGGGTGGGAGGGGGGTGCTTCTGCATGGGAAGCACA
GACAGCGCTGCCTCTCCCTTGCACTCAGCTCTCGGGGCATGAGAGGCTAACTTTCCGTGAGCCTGTGGGCCAGGC
CTCTTTGAATGGGGCTGAGGGAGCTTTGCCCTGGTTCCTTTGTGTCCCCACGGTGCCACGGGAGGCTCCCTGGCA
GGGTGTGGGGCAGGGCAGTGAGTGAAGAGTTGGGATGAGTGAGTTAGGGCCCACGGATTACTCAAGACAGGACTT
CAAGTTGATTCAGGCGTGTTAGGGAGCTGTGATTGGATTTTGAGCAGGGCAGGGATGGGACAGAAGAGTTTGGGG
AAGGTTCCCTCAGGCATCCGTCACAGAAGGGACAAGAAGGGAGAGAGAGTGGATGCCAGGGACACCCAGAAGCTGT
TATTGTAGTCAGGATACGACAGGGGTGAGGCTACAGACAGGGGACTTGCAAGCAGGGAGGGCAGGGTGAGACATT
CAGAGGAAACGACGACAGGAAATGGTGACAGATAGGGAACGAGGATGAAGGGAAGGGAGAGCCAGTGACGACTGG
CAGTGGAGTGGGGAGCACCGCCACCTCTCCTCCTCCACTTGCCCCCTCCTGTGGCACTGGACAAGCTAGTGGGCTT
TTCGTTGTCCATGGGCTTTTTTCGGTGGGGATGTGACCAGCTTTGAACCCGTCCCCTTAAACATGCTCCTCCTGCA
CGGAAGAGACAGGGGCAGGGGAGAGACTCTCTCCCCACCACCCGGCTCAGGCCCCAGCACAGCCCGGCTCTGGC
CTCACTGGCGTCTGTGCCCAGTGACGCAGGCAGGTGAGCTCCTGGCAAATTAGCATTGCAGGCTGTGCTCTCTCC
TCCTGCTCTGCTGCAGCTGGGAGTGTGCAGAGACTGGAGGGGATGACAGTCACCCTCTGTTTTCTGTGGTGGCTC
TGTTTTCTGTGGTGTGGATGCACCTCTGTTTTCTGTGGTGGCTCCAAGAGAGTGCACGGTCCCTGCTGATTGAA
AGAAGGATGAAGGGCAGAAGAGGGGCGGGGAGCTGTGTGCCCTAAGATCTCATTGCCTTTTTATGCCGATTAAACA
TGCTTTTAGCCCCTACTGAGCTTATAGTTAACAGAAGTTTCCAGGTCTTTCTTCACCTGAAGTGTGTCTAAAGCA
AGTTCCCTCCACCTTCTGTATTTATACGCTTGATTTTAAACCTAAATGTTGGGCTTCACATTTGTTCCCTGTA
AATTTATCTTGGTGTGATTGCAGTCTACCCTCTGGCC

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FIGURE 5091

MRGPSLSWAIPATHPLGAAPLGNP GPGEPIWLPCVGGAEVRAQLGSFYSWESKSSLPSTPLSLLVSCGGSALTTH
AFPPIGGP IPSRFPAANKYLPSSARVQGSVGISIYPATDKATYLTWSAHSGRRERPK

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FIGURE 5092

AGATGATGATTATTCCCCACCTTCTAAGAGACAAAGACCAACGAGCCGCCACAGCCACCAGTCCCAGAACCCGCC
AATGCTGGGGAACGGAAAATGAGGGAGTTCAACTCTGGCCCTCACAATCCAGTGGAGGAGACGCAACTCATCTGC
CTCTGTCCCTCTGGGCACGCCTCGTGCCAGGTGCATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGG
AGAAAGCTGCCAGGCTCAGGTCTGAAGGCCAGAATTCTACAGTAAGTCCTACTGAGTCAAGGTGGGAGCAGGGTC
GGTAGCTTCCGAGGCTCTGCGGGAGAATCTGTTTCTGGCCGTAGAGGTGGCCTGCACTCCTCAGCCTGTGCTGC
CCGTCTCGAATGACTGGAGTTTCTGCTTCTGTCACTACACCTCCCACCCTCTCCATCACCTGCTCTGCTCTTAC
AAGGATCCGAAGAAATGGAATCATCGTATCGCTGATCTACGTAAACAACTGAAGAATTGTCTGAAAGAAAATAT
GACATGAACCTTATGAATTCAATAGGTGAAGATTTACAACCTTGATAAATCAACTTTGTCTGAGCTCGAGCTGTAAAAG
CCAAAGGTCCGGTGATGATCCCATACCCTTTTTTCCAGTCTCATGTTGAAGATTTTTATGTAGAAGGCCTTCCCA
AAGGAATTTTTTTTTTTTTTTTTTTTTTGTAGATGGAGTTTTCTACTCTTATCGCCAGGCTGGGGTGCAATGGCAC
AACCTTGCTGGTCACTGCAACCTCTGCCTCCTGGGTTCAAGAAATTCTCCTGCCTTAGCCTCCCAAGTCACTGGG
ATTACAGGTGCCACCACACCAGGCTAATTTTTGTATTTTTAGTGGAGATGCGGTTTTACCATGTTGGCCGG
GCCAGTCTCGAATCCTGACGTCAAGTGATCTTCCCGCCTCGACTCCTGATATCAAGTGATCTTCCCGCCTCGGC
CTCCAGAGTGCTGAGATTACAGACGTGAACCCATGCCTGGCCAGGAATTTTGTTTTTTAGGAAGGCTTTCTACT
AATGGAATTCCTGGCCTTGAGAGGATGTTACTTTAGAAGGAAAGGATTTTTTGTATTATAAAGCTGGACCTACC
ATGAAAGACTTCTGAATCCAGGAAGAGAACTGACTGGGCAACATGTTATTCAGAAACAGGACCTTGCCCTGTCA
CTCAGGATGGAGTTCAGTGGTCTATCATGGCTCATTATAGCCTCAAACCTCCAGGCTCAAGCAATCCTACCATG
TCAGCCTTCCCAGTAGCTGGAACCTACAGATACCGGGTCTCACACTGTCACCCAGGCTGGAGTACAGTGGCACAAAC
CTCTGCTCACTGCAGCCTCCACCTGCCAGGCTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGTGATTT
CCAGGAAGTGCCTCACAATGACTCAAGCTGCCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCT
GCAAGCTTAGGGGTGCTACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAACGGCGTGGGATGGTTCCT
TTCAAATGCACTTGAGCAGCGGTCTCCAACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTGT
GAATCCAGGAAGAGAGACTGACTGGGCAACATGTTATTCAGAATCTCCCTGTGCCATCCAGGCTGGAGTGCAGTG
ATGTGATCATAGCTCACTATAGCTTTGGCCTTCTGAGATCAAGCAATCCTCCCATCTCAACCTCCCAAGTAGCTA
GGACTACACACGCATGCCACCCATGCCAGATCATTTTGTAGAGTCAGAGTTTCACCGTGGTGGCCAGGTTGGC
CATGTTGGCCAGATGGGGTCTTCTTTTGTGTCAGGCTGGCCACAAATCCTGGGCTCAAGTGATCCTCCCACC
TCGTCCCTGTAGAGATGAGATTTAGTTATGTCTGTCAGGCTGATCTCAAACCTCCTGGGCTAAATCGATTGTCTCA
CCTCAGCCTCTCAAGTATGTTATGAAGGTTATATGTTAGGAAGGGTCCCAGGAGGTAAACCCACACAGATGGGAT
TTGGGCATAGGTTTGGTTTCCCAGGGGGCAGTGCTGAGCTCTTTGCCAGTGGGAAATGGGATGCTGGTGATTTCC
AGTAGGTGACCTCACAGTCAAGCTACCACTTACTGTTGATTGTGACGAAATGCCAGCTGAGGCACATGCCT
TGGGAGCTAAGTGGTTGCTGCCCTTGACCACTGTGAAGACTGGTGTGGGAAGGGTCGTTTTGGATGCACTTGAGC
AGGGGTCCCCAACCCCTGAGCCATGGAGCCGCAAGGAGCCACACAGCAGGAGGTGGGAACATCCAGTTGCAGGAA
AACAAGCTTAACACGCCCCTGATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCT
CCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACGTACGGCAGCCT
CCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCA
GCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTC

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FIGURE 5093

GCACGGGACGCGCTGGGACCGGCGTCGGGGGTCGCGGGGACCATGCAGCGGAGGTGGGTCTTCGTGCTGCTCGA
CGTGCTGTGCTTACTGGTCGCCTCCCTGCCCTTCGCTATCCTGACGCTGGTGAACGCCCCGTACAAGCGAGGATT
TACTGCGGGGATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCACCCACGGGCTCATGGCTGGGGTCAC
CATCACGGCCACCGTCATCCTTGTCTCGGCCGGGGAAGCCTACCTGGTGTACACAGACCGGCTCTATTCTCGCTC
GGACTTCAACAACCTACGTGGCTGCTGTATACAAGGTGCTGGGGACCTTCCTGTTTGGGGCTGCCGTGAGCCAGTC
TCTGACAGACCTGGCCAAGTACATGATTGGGCGTCTGAGGCCCACTTCCTAGCCGTCTGCGACCCCGACTGGAG
CCGGGTCAACTGCTCGGTCTATGTGCAGCTGGAGAAGGTGTGCAGGGGAAACCCTGCTGATGTCACCGAGGCCAG
GTTGTCTTTCTACTCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTTCCTTGGCGCTGTATGTGCAGGCACG
ACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCCTGGTGGCCTTTGCCCTCTACGTGGG
CTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTCCTTGTGGCCTCCTGCAGGGGGCACTGGTGGC
TGCCCTCACTGTCTGCTACATCTCAGACTTCTTCAAAGCCCGACCCCCACAGCACTGTCTGAAGGAGGAGGAGCT
GGAACGGAAGCCCAGCCTGTCACTGACGTTGACCCTGGGCGAGGCTGACCACAACCACTATGGATACCCGCACTC
CTCCTCCTGAGGCCGGACCCCGCCCAGGCAGGGAGCTGCTGTGAGTCCAGCTGATGCCCACCCAGGTGGTCCCTC
CAGCCTGGTTAGGCACTGAGGGTTCTGGACGGGCTCCAGGAACCCTGGGCTGATGGGAGCAGTGAGCGGTTCCGC
TGCCCCCTGCCCTGCACTGGACCAGGAGTCTGGAGATGCCTGGGTAGCCCTCAGCATTGAGGGGGAACCTGTTT
CCGTCGGTCCCCAAATATCCCCTTCTTTTTATGGGGTTAAGGAAGGGACCGAGAGATCAGATAGTTGCTGTTTTG
TAAATGTAAATGTATATGTGGTTTTTAGTAAATAGGGCACCTGTTTCACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5094

MQRRWVFVLLDVLCLLVASLPFAILTLVNAPYKRGFYCGDDSI RYPYRPDTITHGLMAGVTITATVILVSAGEAY
LVYTDRLYSRSDFN NYVAAVYKVLGTFLEGA AVSQSLTDLAKYMIGRLRPNFLAVCDPDWSRVNCSVYVQLEKVC
RGNPADVTEARLSFYSGHSSFGMYCMVFLALYVQARLCWKWARLLRPTVQFFLVAFALYVGYTRVSDYKHHWSDV
LVGLLQGALVAALTVCYISDFFKARPPQHCLKEEELERKPSLSLTTLGEADHNHYGYPHSSS

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FIGURE 5095

GCCGCGGGCGGGCGGGCAGCGGTTGGAGGTTGTAGGACCGGGCAGGAATAGGAATC**ATG**GCGGCTGCGCTGTTCTGCTGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACCTTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTGAAGGGGGCGTGGTGCTGAAGGAGGACGCGCTGCCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGGGAGAGTACTCCTGCGTCTTCTCCCCGAGCCCATGGGCACGGCCAACATCCAGCTCCACGGGCCTCCAGAGTGAAGGCTGTGAAGTCGTCAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCACCTGTCAGTACTGGGCCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGTTCTTCGTGAGTTCTTCGCGAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGGCCGACCCCGGCAGTACCGGTGCAACGGCACCCAGCTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTGGCCGCCCTCTGGCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTGCTGGTCACCATCATCTTTCATCTACGAGAAGCGCCGGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCCAGAAATGACAAAGGCAAGAACGTCCGCCAGAGGAACCTCTTCT**TGA**AGGCAGGTGGCCCCGAGGACGCTCCCTGCTCCACGTCTGCGCCGCCGCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCGTTAGATTCCCATCATACACTTCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTCAAGGATTCTGTTCTTAGGTTTTTTTCTTCTGAAGTGTTTCACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCCGTCTGTGGCTTTCAGCCTCTGGGTCTGAGTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTGTGAAAGTCACAGGTCACACGAGGGGCCCCGTGCTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTGTGCTTTTATGTTTAAATTTTATGAGGGCCACGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTTGGCCACAGAGGACTCACTTGCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTGTCTGTGCATCCGGGGGCAGCTCTGGAGGGGGTTTGCTGGGGAACCTGGCGCCATCGCCGGGACTCCAGAACCGCAAGAGCCTCCCACTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCACCCACCGCCACAATAAAGATCGCCCCACCTCCACCCTC

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FIGURE 5096

MAAALFVLLGFALLGTHGASGAAGTVFTTVEDLGSKILLTCSLNDSETEVTGHRWLKGGVVLKEDALPGQKTEFK
VDSDDQWGEYSCVFLPEPMGTANIQLHGPPRVKAVKSSEHINEGETAMLVCKSESVPVTDWAWYKITDSEDKAL
MNGSESRRFFVSSSQGRSELHIENLNMEADPGQYRCNGTSSKGSQAIITLRVRSHLAALWPFLLGIVAEVLVLVTI
IFIYEKRRRPEDVLDDDDAGSAPLKSSGQHQNKGKGNVRQRNSS

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FIGURE 5097

CGGGCGGCGGCGGCGGAGCGGTTGGAGGTTGTAGGACCGGCGAGGAATAGGAATCATGGCGGCTGCGCTGTTTCGTGC
TGCTGGGATTTCGCGCTGCTGGGCACCCACGGAGCCTCCGGGGCTGCCGGCACAGTCTTCACTACCGTAGAAGACC
TTGGCTCCAAGATACTCCTCACCTGCTCCTTGAATGACAGCGCCACAGAGGTCACAGGGCACCGCTGGCTGAAGG
GGGGCGTGGTGTGAAGGAGGACGCGCTGCCCGGCCAGAAAACGGAGTTCAAGGTGGACTCCGACGACCAGTGGG
GAGAGTACTCCTGCGTCTTCTCCCCGAGCCCATGGGACAGGCCAACATCCAGCTCCACGGGGCTCCCAGAGTGA
AGGCTGTGAAGTCGTGAGAACACATCAACGAGGGGGAGACGGCCATGCTGGTCTGCAAGTCAGAGTCCGTGCCAC
CTGTCACTGACTGGGCTGGTACAAGATCACTGACTCTGAGGACAAGGCCCTCATGAACGGCTCCGAGAGCAGGT
TCTTCGTGAGTTCTTCGCAGGGCCGGTCAGAGCTACACATTGAGAACCTGAACATGGAGGCCGACCCCGGCCAGT
ACCGGTGCAACGGCACCACTCCAAGGGCTCCGACCAGGCCATCATCACGCTCCGCGTGCGCAGCCACCTGGCCG
CCCTCTGGCCCTTCTGGGCATCGTGGCTGAGGTGCTGGTGTGGTACCATCATCTTCATCTACGAGAAGCGCC
GGAAGCCCGAGGACGTCCTGGATGATGACGACGCCGGCTCTGCACCCCTGAAGAGCAGCGGGCAGCACCAGAATG
ACAAAGGCAAGAACGTCCGCCAGAGGAACCTTCTCTGAGGTGGCCCGAGGACGCTCCCTGCTCCACGTCTGCGCC
GCCGCCGGAGTCCACTCCCAGTGCTTGCAAGATTCCAAGTTCTCACCTCTTAAAGAAAACCCACCCCGTAGATT
CCATCATACACTTCTTCTTTTTTAAAAAAGTTGGGTTTTCTCCATTAGGATTCTGTTCCCTTAGGTTTTTTTCC
TTCTGAAGTGTTTACGAGAGCCCGGGAGCTGCTGCCCTGCGGCCCGTCTGTGGCTTTCAGCCTCTGGGTCTGA
GTCATGGCCGGGTGGGCGGCACAGCCTTCTCCACTGGCCGGAGTCAGTGCCAGGTCCTTGCCCTTTGTGGAAAGT
CACAGGTCACACGAGGGGCCCCGTGCTCCTGCCTGTCTGAAGCCAATGCTGTCTGGTTGCGCCATTTTGTGCTTT
TATGTTTAATTTTATGAGGGCCACGGGTCTGTGTTGACTCAGCCTCAGGGACGACTCTGACCTCTTGCCACAG
AGGACTCACTTGCCACACCGAGGGCGACCCCGTCACAGCCTCAAGTCACTCCCAAGCCCCCTCCTGTCTGTGC
ATCCGGGGGCGAGCTCTGGAGGGGGTTTGTGGGGAACGCGGCCATCGCCGGGACTCCAGAACCGCAGAAGCCTC
CCCAGCTCACCCCTGGAGGACGGCCGGCTCTCTATAGCACCAGGGCTCACGTGGGAACCCCCCTCCACCCACCG
CCACAATAAAGATCGCCCCACCTCCACCTC

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FIGURE 5098

GGCACGAGGATACCTCCTCATCAACTCTGACATAGTGTGCGAACAGGACATCTACGAGTGGACTAAGATCAATGG
CCGGCGGCGGGTGCCGCGCGGGGGGCGGGCGGCGGAGTAGGTGGCGGCGGCC**ATG**GCCGAGGCGTCGCCGCAT
CCCGGACGGTACTTCTGCCACTGCTGCTCCGTGGAGATCGTCCCGCGCCTGCCGGATTATATCTGTCCAAGATGC
GAGTCTGGTTTTATCGAGGAGCTTCCGGAAGAGACCAGGAGCACAGAAAATGGTTCTGCCCCCTCCACAGCTCCC
ACAGACCAGAGCCGGCCACCGCTGGAGCACGTGGACCAGCACCTGTTACGCTGCCGCAGGGCTACGGACAGTTT
GCTTTCGGCATCTTCGATGACAGCTTCGAGATCCCCACGTTCCCTCCTGGGGCGCAGGCTGACGACGGCAGGGAC
CCTGAGAGCCGGCGGGAGAGAGACCATCCGTCCCGGCACCGGTACGGCGCCCGACAGCCCCGCGCCCGCCTCACC
ACGCGGCGGGCCACCGGCCGGCACGAAGGCGTCCCCACGCTGGAAGGGATCATCCAGCAGCTCGTCAACGGCATC
ATCACGCCCCGCCACCATCCCCAGCCTGGGCCCCCTGGGGAGTCTGCACTCAAACCTATGGACTACGCCTGGGGG
GCCAACGGCCTGGATGCCATCATCACACAGCTCCTCAATCAGTTTGAAAACACAGGCCCCCCACCGGCAGATAAA
GAGAAAATCCAGGCCCTCCCCACCGTCCCGTCACTGAGGAGCACGTAGGCTCCGGGCTCGAGTGCCCTGTGTGC
AAGGACGACTACGCGCTGGGTGAGCGTGTGCGGCAGCTGCCCTGCAACCACCTGTTCCACGACGGCTGCATCGTG
CCCTGGCTGGAGCAGCACGACAGCTGCCCCGTCTGCCGAAAAAGCCTCACGGGACAGAACACGGCCACGAACCCC
CCTGGCCTCACTGGGGTGAGCTTCTCCTCCTCGTCGTCATCGTCCTCCTCCAGCTCGCCCAGCAACGAGAACGCC
ACAAGCAACTCG**TGAG**CCCCACGTGCGCCGTGCGGAAAAGCACGGGGCCTTTCCACCCACCCTCAGCCAGCGCCAC
ACGGCACCCACAGACTGGGTGCCCCGGCGGCGCCACGCTTGGCTGGTCAGCGCTGCAGGTCCCGCCTGTTCCAGG
GCAGGACCCGGGCCCCGGCCACCGGCCCCCTGGCTTGGGAAGGCGTGGGCCACATGGTCCCTCTGGGGCGTCCC
CAGCCTCCCCGTCTCTGTCTAACCTCACCTCTAAACGTTACGCGGTGGAAGATTTTTATAATTTAAATTAT
TACTGCTTTGAAATAAACGGACGTTTGAGCTCACGTGGCGGCCATGCATGGTTTGTGGCGGAAGACGGGGCCAG
CGGCTCCCCCAGCGCTGAAGCACGGGGTTCAGCGGCTCCCCAGTGCTGCAGGTGCCGCCAGGACGGGGCCACGTG
GGCCCCCAGCCTCCCCCTCGGCCGCTCCACGACCCGGAGTAGGGGGGCTCGGGACCATGAGGATGACCAGCAAA
ATTCAAGAACAACAACTGCTCCAACAGACTTTTTTAAAGGAAAAAATATGTGTATCTTGAAAGCTATTTAAATAC
ACTACTTACAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5099

MAEASPHPGRYFCHCCSVEIVRLPDYICPRCESGFIEELPEETRSTENGSA
PSTAPTDQSRPPLEHVDQHLFTL
PQGYGQFAFGIFDDSFETFPFGAQADDGRDPESRRERDHP
SRHRYGARQPRARLTTRRATGRHEGVPTLEGII
QQLVNGIITPATIPSLGPWGLHSNPM
DYAWGANGDAIITQLLNQFENTGPP
PADKEKIQALPTVPVTEEHVGS
GLECPVCKDDYALGERVRQLPCNHLF
HDGCIVPWLEQHDSCPVCRKSLTGQNT
ATNPPGLTGVSFSSSSSSSSSSSS
SPSNENATSNS

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FIGURE 5100

CTTGTGAGTCTATAACTCGGAGCCGTTGGGTTCGTTTCTGCTATTCCGGCGCCTCCACTCCGTCCCCCGCGGGTC
TGCTCTGTGTGCC**ATGG**ACGGCATTGTCCAGATATAGCCGTTGGTACAAAGCGGGGATCTGACGAGCTTTTCTC
TACTTGTGTCACTAACGGACCGTTTATCATGAGCAGCAACTCGGCTTCTGCAGCAAACGGAAATGACAGCAAGAA
GTTCAAAGGTGACAGCCGAAGTGCAGGCGTCCCCTCTAGAGTGATCCACATCCGGAAGCTCCCCATCGACGTCAC
GGAGGGGGAAGTCATCTCCCTGGGGCTGCCCTTTGGGAAGGTACCAACCTCCTGATGCTGAAGGGGAAAAACCA
GGCCTTCATCGAGATGAACACGGAGGAGGCTGCCAACACCATGGTGAACACTACTACACCTCGGTGACCCCTGTGCT
GCGCGGCCAGCCCATCTACATCCAGTTCTCCAACCACAAGGAGCTGAAGACCGACAGCTCTCCCAACCAGGCGCG
GGCCAGGCGGCCCTGCAGGCGGTGAACCTCGGTCCAGTCGGGGAACCTGGCCTTGGCTGCCTCGGCGGCGGCCGT
GGACGCAGGGATGGCGATGGCCGGGCAGAGCCCCGTGCTCAGGATCATCGTGGAGAACCTCTTCTACCCCTGTGAC
CCTGGATGTGCTGCACCAGATTTTCTCCAAGTTCGGGCACAGTGTTGAAGATCATCACCTTCACCAAGAACAACCA
GTTCCAGGCCCTGTGTCAGTATGCGGACCCCGTGAGCGCCAGCAGCCAAGCTGTGCTGGACGGGCAGAACAT
CTACAACGCCTGTGTCACGCTGCGCATCGACTTTTCCAAGCTCACCAGCCTCAACGTCAAGTACAACAATGACAA
GAGCCGTGACTACACACGCCAGACCTGCCTTCCGGGGACAGCCAGCCCTCGCTGGACAGACCATGGCCGCGGC
CTTCGCCTCTCCGTATGCGAGAGCTGGTTTCCCTCCACCTTTGCCATTCTCAAGCTGCAGGCCTTTCCGTTCC
GAACGTCCACGGCGCCCTGGCCCCCTGGCCATCCCCCTCGGCGGCGGCGGAGCTGCGGCGGCAGGTTCGATCGC
CATCCCGGGCCTGGCGGGGGCAGGAAATTCTGTATTGCTGGTCAGCAACCTCAACCCAGAGAGAGTCACACCCCA
AAGCCTCTTTATTCTTTTCGGCGTCTACGGTGACGTGCAGCGCGTGAAGATCCTGTTCAATAAGAAGGAGAACGC
CCTAGTGACAGATGGCGGACGGCAACCAGGCCAGCTGGCCATGAGCCACCTGAACGGGCACAAGCTGCACGGGAA
GCCCATCCGCATCACGCTCTCGAAGCACCAGAACGTGCAGCTGCCCCGCGAGGGCCAGGAGGACCAGGGCCTGAC
CAAGGACTACGGCAACTCACCCCTGCACCGCTTCAAGAAGCCGGGCTCCAAGAATTCCAGAACATATTCCCGCC
CTCGGCCACGCTGCACCTCTCCAACATCCCGCCCTCAGTCTCCGAGGAGGATCTCAAGGTCTGTTTCCAGCAA
TGGGGGCGTCTCAAAGGATTCAAGTTCTTCCAGAAGGACCGCAAGATGGCACTGATCCAGATGGGCTCCGTGGA
GGAGGCGGTCCAGGCCCTCATTGACCTGCACAACCACGACCTCGGGGAGAACCACCACCTGCGGGTCTCCTTCTC
CAAGTCCACCATC**TAG**GGGACAGGCCCCACGGCCGGGCCCCCTGGCGACAACCTCCATCATTCCAGAGAAAAG
CCACTTTAAAAACAGCTGAAGTGACCTTAGCAGACCAGAGATTTTATTTTTTAAAGAGAAATCAGTTTACCTGT
TTTTAAAAAATTAATCTAGTTTACCTTGCTCACCTTGCGGTGACAGGGACAGCTCAGGCTCTTGGTGACTGTG
GCAGCGGGAGTTCCCGGCCCTCCACACCCGGGGCCAGACCTCGGGGCCATGCCTTGGTGGGGCCTGTGTGGGC
GTGGGGCCTGCAGGTGGGCGCCCCGACCACGACTTGGCTTCTTGTGCCTTAAAAACCTGCCTTCTTGCAGCCA
CACACCCACCCGGGGTGTCTTGGGGACCCAAGGGGTGGGGGGGTACACCAGAGAGAGGCAGGGGGCCTGGCCGG
CTCCTGCAGGATCATGCAGCTGGGGCGCGGCGGCCGCGGTGCGACACCCCAACCCAGCCCTCTAATCAAGTCA
CGTGATTCTCCCTTACCCCGCCCCAGGGCCTTCCCTTCTGCCCCAGGCGGGCTCCCCGCTGCTCCAGCTGCG
GAGCTGGTCGACATAATCTCTGTATTATATACTTTGCAGTTGCAGACGTCTGTGCCTAGCAATATTTCCAGTTGA
CCAAATATTCTAATCTTTTTTCAATTTATATGAAAAGAAATAGTTTTAAGTAACTTTTTATAGCAAGATGATACA
ATGGTATGAGTGTAATCTAAACTTCCTTGTGGTATTACCTTGTATGCTGTTACTTTTATTTTATTCCTTGTAAAT
AAGTCACAGGCAGGACCCAGTTTCCAGAGAGCAGGCGGGGCCGCCAGTGGGTGAGGCACAGGGAGCCCCGGTCC
TATCTTAGAGCCCTGAGCTTCAGGGAAGGGCGGGCGTGTGCGCCCTCTGGCATCGCTCCGGTTGCCTTACA
CCACGCCTTCACCTGCAGTCGCCTAGAAAACCTGCTCTCAAACCTCAGGGTTTTTTCTTCTTCAAATTTTGAC
CAAAGTCTCATTTCTGTGTTTTGCCTGCCTCTGATGCTGGGACCCGGAAGGCGGGCGCTCCTCCTGTCTTCTCTG
TGCTCTTTCTACCGCCCCGCGTCTGTCCCGGGGCTCTCCTAGGATCCCTTTCCGTAAAAGCGTGTAACAAG
GGTGTAATATTTATAATTTTTTATACCTGTTGTGAGACCCGAGGGCGGCGGCGGTTTTTTATGGTGACACA
AATGTATATTTTGCTAACAGCAATTCCAGGCTCAGTATTGTGACCGCGGAGCCACAGGGGACCCACGCACATTC
CGTTGCCTTACCGGATGGCTTGTGACGCGGAGAGAACCGATTAAACCGTTTGAGAACTCCTCCCTTGTCTAGC
CCTGTGTTGCTGTGGACGCTGTAGAGGCAGGTTGGCCAGTCTGTACCTGGACTTCGAATAAATCTTCTGTATCC
TCGCTCCGTTCCGCCTTAAA

A

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FIGURE 5101

MDGIVPDIAVGTKRGSDELFSTCVTNGPFFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTSTVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRIIVENLFYPVTLDVLHQIFSKFGTVLKIITFTKNNQFQAL
LQYADPVS AQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLP SGDSQPSLDQTMAAAFASP
YAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIP SAAAAAAAAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFI
LFGVYGDVQVRVKILFNKKENALVQ MADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYG
NSPLHREKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFKFFQKDRKMALIQMGSVEEAVQ
ALIDLHNHDLGENHHLRVSF SKSTI

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FIGURE 5103

MDGIVPDIAVGTKRGSDELFSTCVTNGPFFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKLPIDVTEGEV
ISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTSTVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAA
LQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRIIVENLFYPVTLDVLHQIFSKFGTVLKIITFTKNNQFQAL
LQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLP SGDSQPSLDQTMAAAF GAP
GIISASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAGRIAPGLAGAGNSVLLVSNLNP
TPQSLFIFGVYGDVQRVKILFNKKENALVQADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQ
GLTKDYGNSPLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFKFFQKDRKMALIQMG
SVEEAVQALIDLHNHDLGENHHLRVFSKSTI

[illegible]

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FIGURE 5105

MKLQAVMETLLQRQQRARQELEARQQLPDPFPAAPPGRARAAPDEDREPESARMQRAQMAALAAMRAAAAGLGHP
ASPGGSEDGPPGSEEEEDAAREGTPGSPGRGREGPGEEHFEDMASDEDMKPKWEEEEEEMEEDLGEDEEEEEEDYEDE
EEEEDEEGLGPPGPASLGTTALFPRKAQPPQAIFRGDGVPRVLGGQERPGPGPAHPGGAHVAPQLQPPDHGDWTY
EEQFKQLYELDGDPKRKEFLDDLFSFMQKRGTFPVNRIPIMAKQVLDLFMLYVLVTEKGGLVEVINKKLWREITKG
LNLPTSITSAAFTLRTQYMKYLYPYECEKRGLSNPNELQAAIDSNRREGRRQSFGGSLFAYSPGGAHGMLSSPKL
PVSSLGJLAASTNGSSITPAPKIKKEEDSAIPITVPGRLPVSLAGHPVVAQAAAVQAAAAQAAVAAQAAALEQLR
EKLESAEPPEKKMALVADEQQRLMQRALQQNFLAMAAQLPMSIRINSQASESRQDSAVNLTGTNGSNSISMSVEI
NGIMYTGVLFAQPPAPTPTSAPNKGSGGGGGSSNAGGRGGNTGTSGGQAGPAGLSTPSTSTSNNSLP

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FIGURE 5106

GGCAAGATGGCGGCGCCCATGGAGGTGGCCGTGTGTACGGACTCGGCGGCCCCGATGTGGAGCTGCATCGTGTGG
GAACTTCACTCGGGCGCCAACCTGCTCACCTACCGCGGCGGCCAGGCGGGACCCCGCGGCCTGGCGCTGCTCAAT
GGCGAGTATCTGCTGGCGGCGCAGCTGGGCAAGAATTACATCAGCGCCTGGGAGCTCCAGCGGAAGGACCAGCTC
CAGCAGAAGATCATGTGCCCCGGGCCTGTCACTGTCTGACTGCATCACCCAATGGTCTCTACGTCTTGGCAGGA
GTTGCAGAAAGCATCCACCTGTGGGAGGTCTCCACCGGGAACCTTCTGGTCATCCTGAGTCGACACTACCAGGAC
GTCTCCTGCCTTCAGTTACAGGGGACAGCAGCCACTTCATCTCAGGGGGCAAGGACTGCCTGGTGCTGGTTTGG
AGCCTCTGCAGCGTGCTGCAGGCCGACCCCTCCAGGATTCCGGCGCCCAGGCACGTCTGGTCTCACCACGCGCTC
CCCATCACGGACCTGCACTGCGGCTTTGGGGGCCCCCTGGCCCGGTGGCCACCTCCTCACTGGACCAGACGGTG
AAGCTATGGGAGGTCTCCTCGGGGGAGCTGCTGCTCTCCGTCTCTTTGACGTGTCCATCATGGCAGTGACCATG
GACCTGGCTGAGCACCATATGTTCTGCGGGGGCAGTGAGGGCTCCATCTTCCAGGTCGACCTCTTCACCTGGCCC
GGACAGAGGGAGAGGAGCTTCCACCCAGAGCAGGACGCCGGAAGGTCTTCAAAGGGGCACAGGAACCAGGTGACT
TGCCTGTCAGTGTCCACTGACGGCAGCGTGCTGCTCTCAGGCTCCCACGACGAGACCGTGCGCCTCTGGGACGTG
CAGAGCAAGCAGTGATCCGGACGGTGGCCCTCAAAGGCCAGTCAACAATGCCGCCATCCTGCTGGCGCCCGTC
AGCATGCTGAGCTCAGACTTCAGGCCCAGCCTGCCGCTGCCCCACTTCAACAAGCACCTGCTGGGCGCCGAGCAC
GGGGACGAGCCGCGCCACGGGGGCCTCACTCTGCGCCTGGGCCTCCACCAGCAGGGCTCGGAGCCCAGCTACCTG
GACCGCACGGAGCAGCTGCAGGCCGTCTGTGTCAGCACCATGGAGAAGAGCGTGCTCGGCGGCCAGGACCAGCTG
CGCGTCCGTGTGACGGAGCTGGAGGACGAGGTGCGCAACCTGCGCAAGATCAATCGGGACCTGTTGACTTCTCC
ACGCGCTTCATCACGCGGCCGCCAAGTGAGGCCCCGAGACCCGGCCCCGAGGCGCCCAGGCCTGAGCCCCATGC
CTCCCAGCAACCAGGGCCCGCGGGTGTGGCCCCCACCAGCCCAGGCCTGGACTCTCCTCAGTTCTGTGTCGTGTT
CGGGTTTTTCTCTGTGACTGGGCCGTCTTGGTGCTCTCGTGGCACGCGTCACAGTGGTGCTAGTCTGTTTTTAAC
AAAAGAGGATGAAAAGCC

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FIGURE 5107

MAAPMEVAVCTDSAAPMWSCIVWELHSGANLLTYRGGQAGPRGLALLNGEYLLAAQLGKNYISAWELQRKDQLQQ
KIMCPGPVTCLTASPNGLYVLAGVAESIHLWEVSTGNLLVILSRHYQDVSCLOFTGDSSHFISSGGKDCLVLVWSL
CSVLQADPSRIPAPRHVWSSHALPITDLHCGFGGGLARVATSSLDQTVKLWEVSSGELLLSVLFDVVSIMAVTMDL
AEHHMFCCGGSEGSIFQVDLFTWPGQRERSFHPEQDAGKVFKGHRNQVTCLSVSTDGSLVLSGSHDETIVRLWDVQS
KQCIRTVALKGPVTNAAILLAPVSMLSSDFRPSLPLPHFNKHLGAEHGDEPRHGGLTLRLGLHQGSEPSYLDL
TEQLQAVLCSTMEKSVLGGQDQLRVRVTELEDEVNLRKINRDLDFDFSTRFITRPAK

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FIGURE 5108

ATGAGCTCCACGCAGTTCAACAAGGGCCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGGCTCCCGCGAAT
CTTGGGGAGCACCCAGGTCTGAGATCTGGGGGACGAGTGACCCATTCCCCCCCCAACATCTAGGGGTAGTTGGG
TCTGACTTCGTCCCCTCGCCATGGCCCCAGGACCCCCACGTGTCCTTACAGCTGACTTCTGCAGGGGAAACTGCC
TCTGCACGCTCTGAGGGCACCGGCCCTGCCAGCCCCAACAGCCACCTGCCCGGCGGCACTCCAGGGCCGGCAGAC
TGGAGGGAGAATTCCTGCTTCCCCGCTGGGCCATCTGCACCCTGCATTCATAGAGCCCCCGTGCAGTGGGGTGG
GCACCCTGCCGCACCCTGCATACAGCCGGCTAA

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FIGURE 5109

ACCAGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGGCCTCT
CCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAACCTATCTTATGCACACTCATGAACAAGCTACAGCCGG
GCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACCTTCATCAAGGCCA
TGGTCAGCTACGGCATGAACCCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGG
TGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTGGACATTGGCGTCA
AGTACTCGGAGAAGCAGGAGCGGAATTTTCGACGATGCCACCATGAAGGCTGGCCAGTGCCTCATCGGGCTGCAGA
TGGGCACCAACAAATGCGCCAGCCAGTTCGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGA
ACCATATCCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGG
GCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACCTCCTCCA
TGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGGCCGGCAGATATATG
ACCCCAAGTACTGCCCCGAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCGGACCCGGGGG
AGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTGAGGCTCCCAGCACGCTCTCTCCCCACATC
GTCTGCCCATCTGGGTTTTTTGGGTTTTTCTGTGTTTTTCATCTTTTTTTTTTTTTTCTTAACCCGTTTCAGTGCTGC
CAGTCAACCAAGGGTCTGTGAGTGTGAGCGTGGGATCAGGCAGCAGAGCTTTTTTCCCCTTTGCCTTGATCCTTC
GCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCAATACGTGTAGGGCGAGGGTCCCTGC
TGGCACATTTCAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGGAAGGAACCGGTCCCCGACGTTTTCTGCTTGCC
TCGCCTCTTCCCCCTTTTGTGCTGAGCAGTTTTGTGGTTTTCTATGCCCGCAAGTTTCAGGAAGTATTCACAAAA
GAAAAATACATTTTTTCCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGTCCCCTGGGAAA
GGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTGACTGGATTTGCCTAGGACCTTCAGACCAACAGA
CTTCAGACCCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGAGGGCCGTACAAGGAAGTGAAATTCTGAGTTG
TTGGGGCTAAGCCTGACCCCTCTCCATGCTCCCCGCCCCAACCCACTCTGGCCTCAGTAGATTTTTTTTTTTCAGT
TGTGGTTGTTGCCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCCGGGCTCAAGCGA
TTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCGGCTAATTTTTGTATTTTTAG
TAGAGATGGGGTTTTCCCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCGCCCGCCTCCGC
CTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGCCAGCCCCCTCAGTAGGTTTTAAGGAGCCCCCAGCCC
TCCTCCCTTCTGGGCCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCCGCCAAGTACTGCACAGG
GACCCCCCACCAGGGGACCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAAACGCAATAAAACCTCTG
TTGTACGAAG

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FIGURE 5110

GGCGGCGGCGGCGGAGGCTGCCATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAATCCGCAAGACCATCAT
GCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCTTGACCAGACCCTGGAGGAGTTCAAAGCCCA
ATCTGGGGACAAGCCGAGTGAGGGGCGGCCGCGGCGCACGGACCTCACCGTGCTGGTGGCCCACAACGATGACCC
CACCGACCAGATGTTTGTGTTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG
CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGCAGCAGGGCATGACACCCTCCGCCAAGCAGTCCCT
GGTCGACATGGCCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCAGGAGCTGCTCATCAACATCACGGAGCACGA
GCTAGTCCCTGAGCACGTCGTCATGACCAAGGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAA
CCAGCTGCCCAGGATCCAGGCGGGGGACCCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT
CATCCGGCCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGCAGTAGCTACCGCCTGACAGCCCCTA
GAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCCTGCCCTGCCAGAATCCGGCCCCCACAGCTC
TCACGGCTGCTGCTCCTCTGGACTCCCCAAGGCAGGTGGCCTCCACCCACGTTCTCCCGTCTCTGGGGTGAGGCTT
CCTGTGGCCCAGCCCGCCCCATTACCTGTGGATTTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCCAGAG
GGAGGTCACCTGGGGGCAGCTGGTGCCGGGTCTTCACCCAGACCACGCTGGGTCCCCTCTGTTGGGGGTTTGGGG
TCCGGGTCTCCACCAGCCACTGCTTCCTCCTGGGCCCTCGGCCCTCCACCCCTCGTCTTCCCTCCCTCGGGGGC
CCTGATGCGTGCGGGCCCCCGCCGGCCTCGGCTCTTTACTCCATTACAGCCATGCACGCGCTCAAGCCACCAG
GGTGCAGAGATGCCAGCTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA
GCAAATAAATTTGCTTGATACAG

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FIGURE 5111

MDDEEETYRLWKIRKTIMQLCHDRGYLVTQDELDQTLEEFKAQSGDKPSEGRPRRTDLTVLVAHNDDPTDQMFVF
FPEEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAQSLVDMAPKYILEQFLQQELLINITEHELVPEHVV
MTKEEVTELLARYKLRENQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ

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FIGURE 5112

CGGGGAGGCGCGGAAAGCCGACGCGCGTCCATTGGTCGGCTGGACGAGGGGAGGAGCCGCTGGCTCCCAGCCCCG
CCGCGATGAGCCTCGGCCGCCCTTTGCCGCCTACTGAAGCCGGCGCTGCTCTGTGGGGCTCTGGCCGCGCCTGGCC
TGGCCGGGACCATGTGCGCGTCCCGGGACGACTGGCGCTGTGCGCGCTCCATGCACGAGTTTTCCGCCAAGGACA
TCGACGGGCACATGGTTAACCTGGACAAGTACCGGGGCTTCGTGTGCATCGTCACCAACGTGGCCTCCCAGTGAG
GCAAGACCGAAGTAACTACACTCAGCTCGTCGACCTGCACGCCCCGATACGCTGAGTGTGGTTTTCGGGATCCTGG
CCTTCCCGTGTAACCAGTTCGGGAAGCAGGAGCCAGGGAGTAACGAAGAGATCAAAGAGTTCGCCGCGGGCTACA
ACGTCAAATTCGATATGTTTCAGCAAGATCTGCGTGAACGGGGACGACGCCACCCGCTGTGGAAGTGGATGAAGA
TCCAACCCAAGGGCAAGGGCATCCTGGGAAATGCCATCAAGTGGAAC TTCACCAAGTTCCTCATCGACAAGAACG
GCTGCGTGGTGAAGCGCTACGGACCCATGGAGGAGCCCCTGGTGATAGAGAAGGACCTGCCCCACTATTTCTAGC
TCCACAAGTGTGTGGCCCCGCCCGAGCCCCTGCCCACGCCCTTGAGGCCTTCCACCGGCACTCATGACGGCCTGC
CTGCAAACCTGCTGGTGGGGCAGACCCGAAAATCCAGCGTGACCCCCGCCGGAGGAAGGTCCCATGGCCTGCTGG
GCTTGGCTCGGCGCCCCCACCCTGGCTACCTTGTGGGAATAAACAGACAAATTAGAAAAAAAAAAAAAAAAA

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FIGURE 5113A

GCCCCAAACCCGGAAGTGAGCGGCGGCAGCTGCGAGGCTCGGAGAAACAGGCGCCGCGGGCTCCGCGCCCGGCCG
GACCCGGGCCCCGAGATCATGATGCTGCCGCCACCGCCGCCACCACGGAGCGAGAAGCCAGATAGACGCCCCGGC
GGCCCCGGGTCTTGAGTCCCGCCGCTGCTGCCCGGCCGAGGACCCACCCCGCTGCCGCCGATGCTTGACG
TGGGGCCCGCCATGGACAGGGATTACCCGCAGCATGAACCCCGCCGCGGGCAGCCTCCTGTACAGCCCGCCG
CCCTGCAGAGCGCCATGCTGCACTGCCCTACTGGAACACCTTCTCGCTGCCGCCATACCCTGCCTTCTCCAGCG
ACAGCCGCCCCGTTTCATGAGCTCCGCCTCCTTCCTCGGCAGCCAGCCCTGCCAGACACCAGCTATGCCCCCGTGG
CCACCGCCTCCAGCTTGCCACCAAGACCTGCGACTTTGCTCAGGACTCCTCCTATTTTGAGGACTTCTCCAACA
TCTCCATCTTCTCCTCGTCCGTGGACTCCCTGTGCGACATCGTGGACACGCCCCGACTTCTGCCGGCTGACAGCC
TCAACCAGGTGTCCACCATCTGGGACGATAACCCTGCCCCCTCCACCCACGATAAGCTGTTCCAGCTCAGCAGGC
CGTTTGACAGGCTTCGAGGACTTTCTGCCCTCCCACAGCACCCCGCTTCTCGTCAGCTACCAGGAGCAGAGTGTGC
AGAGCCAGCCAGAGGAGGAGGACGAGGCTGAGGAGGAGGAGGCGGAGGAGCTGGGGCACACAGAGACCTACGCCG
ACTACGTGCCGTCCAAGTCCAAGATCGGGAAGCAGCACCCAGACCGCGTGGTGGAGACCAGCACACTGTCCAGCG
TCCCACCCCCAGACATCACCTACACCCTGGCCCTGCCCTCGGACAGCGGGGCCCTGTCTGCCCTGCAGCTAGAGG
CCATCACCTACGCCTGCCAGCAACACGAGGTCTGCTCCCCAGCGGGCAGCGCGCGGGCTTTCTCATCGGCGATG
GGGCCGGCGTGGGCAAAGGCCGGACGGTGGCCGGAGTCATCCTGGAGAACCACCTGCGCGGCCGGAAGAAAGCAT
TGTGGTTTCAGCGTCTCCAACGACCTCAAGTACGATGCGGAGCGCGACCTGCGGGACATCGAAGCCACGGGCATCG
CGGTGCACGCGCTCAGCAAGATCAAGTACGGTGACACCACTACCTCAGAGGGCGTCTCTTCGCCACCTACTCCG
CCCTGATTGGGGAGAGCCAGGCCGCGGCCAGCACCGCACTCGCCTCCGGCAGATCCTGGACTGGTGTGGGGAGG
CCTTCGAGGGCGTCATCGTGTTGACGAGTGTACAAAGCCAAGAATGCCGGCTCCACCAAGATGGGCAAGGCTG
TGCTAGACCTGCAGAACAAAGCTGCCCTGGCCCGCGTGGTCTACGCCAGCGCCACAGGTGCCTCTGAGCCTCGGA
ACATGATCTACATGAGCCGCTTGGGTATCTGGGGCGAGGGCACACCCTTCCGGAACCTTGAGGAGTTCCTGCACG
CCATCGAGAAGAGGGGGCGTTGGCGCCATGGAGATCGTGGCCATGGACATGAAGGTGAGCGGCATGTACATCGCAC
GCCAGCTCAGCTTCTCCGGCGTCACCTTCCGCATCGAGGAGATCCCGCTGGCCCCAGCCTTCGAGTGGCTCTACA
ACCGCGCGGCCCTGCTGTGGGCCGAGGCCCTGAACGTGTTCCAGCAGGCGGCCGACTGGATCGGCCCTGGAGTCGC
GCAAGTCCCTGTGGGGCCAGTTCTGGTCCGCACACCAGCGCTTCTTCAAGTATCTGTGCATCGCAGCCAAGGTGC
GCCGGCTGGTGGAGCTGGCCCCGAGAGGAGCTGGCGCGAGACAAGTGCCTGGTTCATCGGGCTGCAGTCCACGGGCG
AGGCGCGCACGCGGAGGTGCTGGGGGAGAACGATGGGCACCTCAACTGCTTCGTCTCGGCCGCTGAAGGCGTGT
TCCTGTGCTAATTGAGAAGCACTTTCCGTCCACCAAGAGAAAGCGGGACAGAGGAGCGGGCAGCAAGCGGAAAC
GGCGACCTCGGGGACGCGGGGCCAAAGCCCCCGGCTGGCGTGCAGACAGCGGGCGTCATCCGCATCAGTGACG
ACAGCAGCACGGAGTCGGACCCTGGCCTGGACAGCGACTTCAACTCCTCCCCGAGTCCCTGGTGGATGACGACG
TTGTCATCGTTGATGCAGTCGGGCTCCCCAGTGACGACCGGGGACCCCTGTGCCTCCTGCAGAGAGACCCGCATG
GCCCCGGGGTCTTGAGCGGGTGGAGCGGCTGAAGCAGGATCTGCTGGACAAAGTGCGGCGGCTGGGCCGGGAAC
TGCCAGTCAACACCCTGGACGAGCTCATCGACCAGCTGGGCGGCCCCACAGCGGGTGGCGGAGATGACCGGCAGGA
AAGGCCGCGTGGTGTCCAGGCCGACGGGACGGTGGCCTTCGAGTCGCGGGCAGAGCAGGGTCTGTCCATCGACC
ACGTGAACCTCAGGGAGAAGCAGCGCTTCATGAGCGGCGAGAAGCTCGTGGCCATCATCTCGGAGGCCTCCAGCT
CGGGTGTCTCCCTCCAAGCCGACCGCCGTGTCCAGAACCAGCGGCGCCGCGTGCACATGACCTTGAGCTGCCGT
GGAGCGCCGACCGCGCCATCCAGCAGTTCCGCCGCACCCACCGGTCCAACCAGGTCTCCGCGCCAGAGTATGTCT
TCCTCATCTCGGAGCTGGCCGGGGAGCGCCGGTTCGCCTCCATCGTGGCCAAGCGCCTGGAGAGTCTGGGGGCC
TGACCCACGGAGACCGCCGCGCCACGGAGTCCCGTGACCTCAGCAAGTACAACCTTGAGAACAAGTATGGCACCC
GGGCCCTGCACTGTGTCTCACCACCATCCTGAGCCAGACTGAGAACAAAGTGCTGTGCCCCAGGGATACCCTG
GAGGGGTCCCCACCTTCTTCCGGACATGAAGCAGGGCCTGCTGTCTGTGGGCATTGGTGGCCGGGAGTCCCGGA
ATGGCTGCCTGGACGTGGAGAAGGACTGTTCCATCACCAAGTTCTGAACCGCATCCTGGGGCTGGAGGTGCACA
AGCAGAACGCCCTGTTCCAGTACTTCTCAGACACCTTCGACCACCTCATCGAGATGGACAAGCGGGAGGGCAAAT
ACGACATGGGCATCCTGGACCTTGCTCCCGGTATCGAGGAGATCTACGAGGAGAGCCAGCAGGTGTTCTGGCTC
CCGGGCACCCGAGGACGGGACGGTGGTCTTCTACAAGATCAGCGTGGACCGCGGCCTGAAGTGGGAGGACGCCT
TTGCCAAGTCGCTGGCGCTGACGGGCCCCATGACGGCTTCTACCTCTCTACAAGGTCCGCGGTAAACAAGCCCA
GCTGCCTGCTGGCGGAGCAGAACCAGCGGCCAGTTCTTCACGGTGTACAAGCCCAACATCGGCCGGCAGAGCCAGC
TGGAGGCCCTGGACAGCCTCCGCCGCAAGTTCCACCGGGTCACCGCGGAGGAGGCCAAGGAGCCCTGGGAGAGTG

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FIGURE 5113B

GCTACGCTTTGTGCTGACGCACTGCAGCCACAGCGCCTGGAACCGGCACTGCCGGCTGGCGCAGGAGGGTAAGG
ACTGCCTGCAGGGGCTGCGGCTGCGGCACCACTACATGCTGTGCGGCGCGCTGCTGCGCGTGTGGGGCCGCATCG
CCGCCGTGATGGCCGACGTGAGCAGCAGCAGCTACCTGCAGATCGTGCGGCTGAAGACCAAGGACAGGAAGAAGC
AAGTGGGCATCAAGATCCCCGAGGGCTGCGTGCGCCGGGTGCTGCAGGAGCTGCGGCTGATGGATGCGGACGTGA
AGCGCAGGCAGGCGCCCCGCCCTGGGCTGCCCCGCCCCGCCCCGCCCCGCGCCGCTGGCGCTGCCTTGCGGCCCCG
GAGAGGTGCTGGACCTCACCTACAGCCCCCGGCCGAGGCCTTCCCGCGCCCCCGCACTTCTCTTTCCCGGCGC
CGCTGTCCCTGGACGCCGGCCCCGGCGTCGTGCCGCTGGGCACCCCCGACGCCAGGCCGACCTGCGGCCCTCG
CGCACCAGGGCTGCGACATCAACTTCAAGGAGGTGCTGGAGGACATGCTGCGCTCGCTGCACGCGGGGCCGCCCT
CCGAGGGCGCGCTGGGGGAGGGCGCGGGGGCGGGGGCGCGGCGGGCGGTGGTCCCGAGCGGCAGAGCGTGATCC
AGTTCAGCCACCCCTTCCCGGCGCCCAGGCTCCTCTCTGACACGCCTTTAGGCGAAACATGCCCCAAGACACAG
GGACCGTTTTCTCCCTAGGAGCAGCGGTGGGGAGCAGGGCCAAGGTCCCCTGACCACTGCTCAGAGGAGCCCTAG
GCCCTGGCCGCAGTGCCTTCAGCGCCCGACCCGGGGCCCCCACCTGGTCAGCCCTGGCGGGGGCCCACTCAGGACAG
CTGGGGGGCGGGGCGTGGCAGGGCCCTCTCTGTGCCTCTCCTCCCAAGTAGGAAGGGGCTCCGGGTGGCTGCTCT
GGGACTGGGCACCCACAAGGGCTCAGTGGGCCCCAAACCTTGAAATCCGTGAAACCGGGTGGTCCCAAGAGCTAG
AAACTCAGGAAACCCAGGTGCTCAGGGCCCCGCGTCTCGGGGGCTCCGTGGGGCAGACCCCTGCTAATATATGC
AATTCTCCCTCCCCCAGCCCTTCCCTGACCCCTAAGTTATTGCCCGCTCACCTCTCCCAGGCCCCAGGCCGCGGA
GCTGGCAGGGTGGCGCCTGCGGTTTCTATGTATTTATAGCAAGTTCTGATGTACATATGTAAAGGACTTTTTTAA
AT

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FIGURE 5114

CCCAGGGTCCCCGAGGACGAAGTTGACCCTGACCGGGCCGTCTCCAGTTCTGAGGCCCGGGTCCCACTGGAAC
CGCGTCTGAGCCGCCGTCCCGGACCCCCGGTGCCCGCCGGTCCGCAGACCCTGCACCGGGCTTGGACTCGCAGCC
GGGACTGACGTGTAGAACAATCGTTTCTGTTGGAAGAAGGGTTTTTCCCTTCCTTTTGGGGTTTTTGTTCCTTT
TTTTTTTCTTTTTTCTTTGTAAAATTTTGGAGAAGGGAAGTCGGAACACAAGGAAGGACCGCTCACCCGCGGACT
CAGGGCTGGCGGCGGGACTCCAGGACCCTGGGTCCAGCATGGAGGTGGTGGACCCGCAGCAGCTGGGCATGTTCA
CGGAGGGCGAGCTGATGTCGGTGGGTATGGACACGTTTCATCCACCGCATCGACTCCACCGAGGTCATCTACCAGC
CGCGCCGCAAGCGGGCCAAGCTCATCGGCAAGTACCTGATGGGGGACCTGCTGGGGGAAGGCTCTTACGGCAAGG
TGAAGGAGGTGCTGGACTCGGAGACGCTGTGCAGGAGGGCCGTCAAGATCCTCAAGAAGAAGAAAGTTGCGAAGGA
TCCCCAACGGGGAGGCCAACGTGAAGAAGGAAATTCACTACTGAGGAGGTTACGGCACAAAAATGTCATCCAGC
TGGTGGATGTGTTATACAACGAAGAGAAGCAGAAAAATATATATGGTGTATGGAGTACTGCGTGTGTGGCATGCAGG
AAATGCTGGACAGCGTGCCGGAGAAGCGTTTTCCAGTGTGCCAGGCCACGGGTACTTCTGTCAGCTGATTGACG
GCCTGGAGTACCTGCATAGCCAGGGCATTGTGCACAAGGACATCAAGCCGGGGAAACCTGCTGCTCACCACCGGTG
GCACCCTCAAAATCTCCGACCTGGGCGTGGCCGAGGCACTGCACCCGTTTCGCGGCGGACGACACCTGCCGGACCA
GCCAGGGCTCCCCGGCTTTCCAGCCGCCCCGAGATTGCCAACGGCCTGGACACCTTCTCCGGCTTCAAGGTGGACA
TCTGGTCCGGCTGGGGTCACCTCTACAACATCACCACGGGTCTGTACCCTTCGAAGGGGACAACATCTACAAGT
TGTTTGAGAACATCGGGAAGGGGAGCTACGCCATCCCGGGCGACTGTGGCCCCCGCTCTCTGACCTGCTGAAAG
GGATGCTTGAGTACGAACCGGCCAAGAGGTTCTCCATCCGGCAGATCCGGCAGCACAGCTGGTTCCGGAAGAAAC
ATCCTCCGGCTGAAGCACCAGTGCCCATCCCACCGAGCCCAGACACCAAGGACCGGTGGCGCAGCATGACTGTGG
TGCCGTACTTGGAGGACCTGCACGGCGCGGACGAGGACGAGGACCTCTTCGACATCGAGGATGACATCATCTACA
CTCAGGACTTCACGGTGCCCGGACAGGTCCCAGAAGAGGAGGCCAGTCACAATGGACAGCGCCGGGGCCTCCCCA
AGGCCGTGTGTATGAACGGCACAGAGGCGGCGCAGCTGAGCACCAATCCAGGGCGGAGGGCCGGGGCCCCCAACC
CTGCCCCGAAGGCCTGCTCCGCCAGCAGCAAGATCCGCCGGCTGTGGCCTGCAAGCAGCAGTGAGGCTGGCCGC
CTGCAGCCCGTGTCCAGGAGCCCCGCCAGGTGCCCGCGCCAGGCCCTCAGTCTTCTGCCGGTTCCGCCCCGCCCT
CCCGGAGAGGTGGCCGCCATGCTTCTGTGCCGACCACGCCCCAGGACCTCCGGAGCGCCCTGCAGGGCCGGGCAG
GGGGACAGCAGGGACCGGGCGCAGCCCTCCCCCTCGGCCGCCCGGCAGTGCACGCGGCTTGTGACTTCGCAGC
CCCGGGCGGAGCCTTCCCGGGCGGGCGTGGGAGGAGGGAGGCGGCCTCCATGCACTTTATGTGGAGACTACTGGC
CCCGCCCGTGGCCTCGTGCTCCGCAGGGCGCCCAGCGCCGTCCGGCGGCCCGCCGCGAGACCAGCTGGCGGGTGT
GGAGACCAGGCTCCTGACCCCGCCATGCATGCAGCGCCACCTGGAAGCCGCGCGGCCGCTTTGGTTTTTTGTTTG
GTTGGTTCCATTTTCTTTTTTTCTTTTTTTTTTTAAGAAAAAATAAAAGGTGGATTTG

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FIGURE 5115

GTCTCTCTCGCCCTCCAGGCCGCCCGCGCCGCGCCGGAGTCCGCTGTCCGCCAGCTACCCGCTTCCTGCCGCCCCG
CCGCTGCC**ATG**CTGCCCCGCCGCGCTGCTCCGCCGCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCCGTGCCTATG
CCGAGGCCGCCGCCCGCCCGGCTGCCGCTCTGGCCCCAACCAGATGTCCTTCACCTTCGCCTCTCCACGCAGG
TGTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCACGCTGACCGGAGCCTTCGGCATCCTGGCGGCC
ACGTGCCACGCTGCAGGTCTGCGGCCGGGGCTGGTCGTGGTGCATGCAGAGGACGGCACCACTCCAAATACT
TTGTGAGCAGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTGACGCTGG
ACATGTTGGACCTGGGGGCAGCCAAGGCAAACCTTGGAGAAGGCCAGGCGGAGCTGGTGGGGACAGCTGACGAGG
CCACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGGCCCTGGAG**TAG**CGGTGCGTA
CCCGGTGTCCCGAGGCCCGGCCAGGGGCTGGGCAGGGATGCCAGGTGGGCCAGCCAGCTCCTGGGGTCCCGGCC
ACCTGGGGAAGCCGCGCCTGCCAAGGAGGCCACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCCCAGGCCCTGCC
TGTGTTGAAAGCTCTGGGGACTGGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGGGGCT
CTCTTCCGCCTCTCAAGATCCCCCAGCCTGACGGGGCCGCTTACCATCCCCTCTGCCCTGCAGAGCCAGCCGCC
AAGGTTGACCTCAGCTTCGGAGCCACCTCTGGATGAACTGCCCCAGCCCCGCCCCATTAAAGACCCGGAAGCC
TGAAAAAAAAAAAAAAAAA

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FIGURE 5116

MLPAALLRRPGLGRLVRHARAYAEAAAAPAAASGPNQMSFTFASPTQVFFNGANVRQVDVPTLTGAFGILAAHVP
TLQVLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSVQLLAEAAVTLDMLDLGAAKANLEKAQAELVGTAD EATR
AEIQIRIEANEALVKALE

[illegible]

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FIGURE 5118

MSLAIHSTTGTRYDLAVPPDETVEGLRKRLSQRLKVPKERLALLHKDTRLSSGKLQEFVGDGSKLTLVPTVEAG
LMSQASRPEQSVMQALESLTETQPPAAPGPGRAGGGGFRKYRFILFKRPWHRQGPQSPERGGERPQVSDFLSGRS
PLTLALRVGDHMMFVQLQLAAQHAPLQHRHVLAAAAAAAAAARGDPSIASPVSSPCRVPSSAARVPPVPTSPSPAS
PSPITAGSFRSHAASTTCPEQMDCSPTASSSASPGASTTSTPGASPAPRSRKPGAVIESFVNHAPGVFSGTFSGT
LHPNCQDSSGRPRRDIGTILQILNDLLSATRHYQGMPPSLAQLRCHAQCSPASPAPDLAPRTTSCEKLTAAPSAS
LLQGQSQIRMCKPPGDRLRQTENRATRCKVERLQLLLQKRLRRKARRDARGPYHWSPSRKAGRSDSSSSGGGGS
PSEASGLGLDFEDSVWKPEVNPDIKSEFVVA

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FIGURE 5119

GAGGCTCGGGTCGTTGTGGTGCGCTGTCTTCCCGCTTGCCTCAGGGACCTGCCCCGACTCAGTGGCCGCCATGGCA
TCAGATGAAGGCAAACCTTTTGTGGAGGGCTGAGTTTGGACACCAATGAGCAGTCGCTGGAGCAGGTCTTCTCA
AAGTACGGACAGATCTCTGAAGTGGTGGTTGTGAAAGACAGGGAGACCCAGAGATCTCGGGGATTTGGGTTTGT
ACCTTTGAGAACATTGACGACGCTAAGGATGCCATGATGGCCATGAATGGGAAGTCTGTAGATGGACGGCAGATC
CGAGTAGACCAGGCAGGCAAGTCGTCAGACAACCGATCCCGTGGGTACCGTGGTGGCTCTGCCGGGGGCCGGGGC
TTCTTCCGTGGGGGCCGAGGACGGGGCCGTGGGTCTCTAGAGGAGGAGGGGACCGAGGCTATGGGGGGAACCGG
TTCGAGTCCAGGAGTGGGGGCTACGGAGGCTCCAGAGACTACTATAGCAGCCGAGTCAGAGTGGTGGCTACAGT
GACCGGAGCTCGGGCGGGTCTACAGAGACAGTTATGACAGTTACGCTACACACAACGAGTAAAAACCTTCCTG
CTCAAGATCGTCCTTCCAATGGCTGTGTGTTTAAAGATTGTGGGAGCTTCGCTGAACGTTAATGTGTAGTAAATG
CACCTCCTTGTATTCCCACTTTTCGTAGTCATTTTCGGTTCTGATCTTGTCAAACCCAGCCTGACCGCTTCTGACGC
CGGGATGGCCTCGTTACTAGACTTTTCTTTTTAAGGAAGTGCTGTTTTTTTTTGAGGGTTTTCAAAACATTTTGA
AAAGCATTTACTTTTTTGACCACGAGCCATGAGTTTTCAAAAAAATCGGGGGTTGTGTGGGTTTTTGGTTTTTGT
TTTAGTTTTTGGTTGCGTTGCCTTTTTTTTTTTAGTGGGGTTGGCCCCATGAAGTGGGTGCCCCACTCACTTCTC
TGAGATCGAACGGACTGTGAATCCGCTCTTTGTCGGAAGCTGAGCAAGCTGTGGCTTTTTTCCAACCTCCGTGTGA
CGTTTCTGAGTGTAGTGTGGTAGGACCCCGCGGGTGTGGCAGCAACTGCCCTGGAGCCCCAGCCCCCTGCGTCCA
TCTGTGCTGTGCGCCCCACAGTAGACGTGCAGACGTCCCTGAGAGGTTCTTGAAGATGTTTATTTATATTGTCCT
TTTTTACTGGAAGACGTACGCATACTCCATCGATGTTGTATTTGCAGTGGCTGAGGAATTCTTGTACGCAGTTTT
CTTTGGCTTTACGAAGCCGATTAAAAGACCGTGTGAAATG

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FIGURE 5120

CCAAGATGGCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCCCG
CTGTGCAGGCACGAGGTGTCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCCAAAGG
CCAGAGCCGTGGCTCCCAAACCCAGCAGCCGGGGCGAGTATGTGGTGGCCAAGCTGGATGACCTCGTCAACTGGG
CCCGCCGGAGTTCTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGATGCACATGGCAGCAC
CCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCGCGCCAGTCCGACGTCATGATCGTGGCCG
GCACACTCACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAGATGCCGGAGCCGCGCTACGTGGTCT
CCATGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCTACTCGGTGGTGAGGGGCTGCGACCGCATCG
TGCCCGTGGACATCTACATCCCAGGCTGCCCACCTACGGCCGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGA
GGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGGTACCGCAGGTAGCGCCGCCCGCCGCCGCCGCGGAGCCTGT
CGCCGTCTGTCCCCAGCCTGCTTGTGTCCCGTGAGGTTGTCAATAAACCTGCCCTCGGGCTGCCGCCAAAAAA
AAA

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FIGURE 5121

MAVLSAPGLRGFRILGLRSSVGPAVQARGVHQSVATDGPSSSTQPALPKARAVAPKPSSRGEYVVAKLDDLVNWAR
RSSLWPMTFGLACCAVEMMHMAAPRYDMDRFGVVFRASPRQSDVMIVAGTLTNKMAPALRKVYDQMPEPRYVSM
GSCANGGGYYHYSYSVVRGCDRIVPVDIYIPGCPPTAEALLYGILQLQRKIKRERRLQIWYRR

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FIGURE 5122

CCCCGGCCCACAAGCCCCTGCAGGGAGCGGGCCCGGGCGGCGCGGATCGAGGTCGGGTGCGCGTCCAGCCTGCA
GC**ATG**AGCGCCCCCAGCGCGACCCCATCTTCGCGCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA
TGCACGCGCTGGCCGCCGCCCTCCTCCAAAGGGGGCCGGGTCTTGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTTCGCTGCTGAAGCCGGGGGGCGTCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGAGACGCAGGTGCCGCGCTGCTGGAGG
CCGGCTTCCGGAGGGAGAACATCCGTACGGAGGTGATGGCGCTGGTCCCACCGGCCGACTGCCGCTACTACGCCT
TCCCACAGATGATCACGCCCCTGGTGACCAAAGGC**TGAG**CCCCCACC CGGCCGACACCCATGCCCTCCTC
CGTGCCCTTCCTGGCCGGGAGTCCAGGGTGTGCGACCCAGCCCTGGGCTGATCCCAGCTGTGTGTCACCAGAAGCTT
TCCCGGCTTCTCTGTGAGGGGTCCCACCAGCCAGGGCTGATCCCAGCTGTGTGTCACCAGCAGCTTTCCAGCT
TCTCTGTGAGGGTCACTGCTGCCCACTGCAGGGTCCCTGAGGTGAAGTAAACGCCGCGCTGGGCTTGCCAGTC
GGCAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5123

MSAPSATPIFAPGENCSPA WGAAPAAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVGFMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDTYPLSEETWHTHQFN
FIKNHAFRLKPGGVLTYCNLT SWGELMKSKYSDITIMFEETQVPALLEAGFRRENIRTEVMALVPPADCRYAF
PQMITPLVTKG

5559/6881
FIGURE 5124

CCCCGGCCACAAAGCCCCTGCAGGGAGCGGGCCCGGGCGGCGCGGATCGAGGTCGGGTCGCCGTCCAGCCTGCA
GCATGAGCGCCCCCAGCGCGACCCCCATCTTCGCGCCCGGCGAGAACTGCAGCCCCGCGTGGGGGGCGGCGCCCG
CGGCCTACGACGCAGCGGACACGCACCTGCGCATCCTGGGCAAGCCGGTGATGGAGCGCTGGGAGACCCCTATA
TGCACGCGCTGGCCGCCGCCCTCCTCCAAAGGGGGCCGGGTCCTGGAGGTGGGCTTTGGCATGGCCATCGCAG
CGTCAAAGGTGCAGGAGGCGCCCATTTGATGAGCATTGGATCATCGAGTGCAATGACGGCGTCTTCCAGCGGCTCC
GGGACTGGGCCCCACGGCAGACACACAAGGTCATCCCCTTGAAAGGCCTGTGGGAGGATGTGGCACCCACCCTGC
CTGACGGTCACTTTGATGGGATCCTGTACGACACGTACCCACTCTCGGAGGAGACCTGGCACACACACCAGTTCA
ACTTCATCAAGAACCACGCCTTTCGCCTGCTGAAGCCGGGGGGCGTCCTCACCTACTGCAACCTCACCTCCTGGG
GGGAGCTGATGAAGTCCAAGTACTCAGACATCACCATCATGTTTGAGGTGCGCCACCTGAAGTTCCCCATGGGT
CTCCAGGAAGTGACCTTGATGGGGTGGGAAGGGGCTGCTGGAGCCACCTTGCTACCTGGGGAGGGTCCCTTCC
TGACCCCTGGGTGGGCTGGACTGTGCTGGTTTCATTTAGAAATCAAAGTCCTTTGCCTGGCGCAGTGGCTGCCAG
GAGCAGTGGCTCAGGTCTATAATCCCAGCACTGTGGAAGGCCGAGGTGGGCAGATTGCTTGAGCCTAGGAGTTCA
AGACCAGCCTGGGCTACAGAGCAAGACCTCATCTTTCCTAAAAAAAAAAAAATACAAAAA

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FIGURE 5125

MSAPSATPIFAPGENCSPA WGAAPAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLEVFGMAIAA
SKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGILYDTYPLSEETWHTHQFN
FIKNHAFRLLKPGGVLTTCNLTSWGELMKS KYS DITIMFEVRPPEVPHGSPGSDLGWGWEGAAGATLLPGEGPFL
TPWVGWTVLVHLEIKVLC LAQWLPGAVAQVYNPSTVEGRGGQIA

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FIGURE 5126

CTGCGCAGGCGCGGACCAAAGCGATCTCTTCTGAGGATCCGGCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCG
GACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTCGACCAGCTGCTGGACATGTCCTACGAGCAGCTGATGCA
GCTGTACAGTGC GCGCCAGCGGCGGCGGCTGAACCGGGGCCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCT
GCGCAAGGCCAAGAAGGAGGCGCCGCCCATGGAGAAGCCGGAAGTGGTGAAGACGCACCTGCGGGACATGATCAT
CCTACCCGAGATGGTGGGCAGCATGGTGGGCGTCTACAACGGCAAGACCTTCAACCAGGTGGAGATCAAGCCCGA
GATGATCGGCCACTACCTGGGCGAGTTCTCCATCACCTACAAGCCCGTAAAGCATGGCCGGCCCGGCATCGGGGC
CACCCACTCCTCCCGCTTCATCCCTCTCAAGTAATGGCTCAGCTAATAAAGGCGCACATGACTCC

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FIGURE 5127

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEKPEV
VKTHLRDMIILPEMVGSMVG VYNGKTFNQVEIKPEMIGHYLGEFSITYKPVKHGRPGIGATHSSRFIPLK

ACGATGCGAGTTCCGGTCACTTGAAGGTTGCTGGGGCCGTGGTTTGAGCTTCATGGGCTCAGGTCATGGCCCGTTGAG
TGTGGCGAAACTGAGGCACGCTGTGCGGGGGACGGGGGGCGCTCACAGAAGGTAGGGGGCCTCCTGTGCCTTCAT
CCAGGCACCTGCCCGGCCCTTTCCACCCCTGTTGCTAAAGCAGGTGATGACAGAGGTGATTTGATCAGCCAGACCC
GTGCGGCACGTGGAGCCTTCGTCCGTGGGAGACCACACTGCCGAGGGGCAGGCCAGAGCCGAGGGGGCCCTGACG
CTTCTCTGAGTGACCCTGAAGTCGGTGCTGCTTCAGCCCTGCTGCACCTGGGCTTGCATACGTGGGGGAGCAGGGA
GCCATACGTAGTTTCTGCTGAATGTGGGAGTCACCAGGACGTCAATGCCACCTCTCACCTTCGCCACCCCTGCC
TCCCTAAGTGTGTGCTCCAGGAGGTTGCACGGCCCTTGGAGAGGTTTTCGGTGGCGGGCTTGTTCGTCTCTGGC
TTCCAGAGACAGCAGGAATGAGAGCCAGGCCAGCTCAGTGAGTCCATCCCGTGGGTGCCACGGCTTTTGCAGG
AATGGAAGCCCCGCCCCAGGAGGGCCACTGCTGGCGAGGCTTGAGCTCTTTCTGTGACCCGATCCCCCTGGTCA
CACGCTTTGCTAAGGCGGGTAGCCTAGAGCTGGAAGCCCCCTCCTGCCACCCAGCCACTGTGCCTCTCCCAGCTGA
TGGACGAGGAAGCCTCCATTACTTGATTTTTGTTTTTATTTATTTTGGAGACAGGGTCTCATTCTGTACCCAGG
CTGGAGTACCGTGGCACGATCATAGCTTATTGCAGCCTCGGCCTCCCAGTCTCAAGCGATCCTCCTGCCTCTGCC
TCCAGAGAAGTAGGGACCACAGATGCGTGCTACCACGCCCAGCTAATTTTTGTATTGTATTTTTTGGTAGAGAT
GGGGGTGTCACTATGTTGTCCAGGCTGGTCTCTAACTCTTGGGCTCAAGTGTTCCCTCCCGCCTCGGCCTCCCAA
GTGCTGGATTACAGGCGTGAGCCACCACACCTGGCTGCATCCGTCAATGTTAAGAAGACCCCGGCTGGCAAGCTCA
CTCGGGGACTGCAGGGAACCCCTGCCCTTTGGGGGCAGTAGTGAGGGGTGCCAGGAGGATGGGGTGGTCAGCAGG
CAGTGATGCTGCTGTGTCTCTCAGACCCCCCAGTTCCCTTCAGGATGATGGAGGATGCGGAGGCCCCGGGAG
AGCAGCTCTACCAGCAAAGCCGGGCCTACGTGGCTGCCAACCAGCGGTGCAGCAGGCGGGCAACGTGCTGAGGC
AGAGGTGTGAGCTCCTGCAGCGAGCCGGCGAGGACCTGGAGCGGGAGGTGGCCCAGATGAAGCAGGCAGCATTAC
CGGCAGCCGAGGCTGCCTCCTCAGGCTGACCTCTCGGGGCCTGCAGGCTTGGGCAGCGCACAAAGGTGGCCTGCAC
CCAGGCTTTCCCTGGGGGTCCGTGCGCCCCAGACTGGCATTACGGGGTCCCAGCCACGTGGGTGTTGACACAG
GCGCCCCCTCCTGATGCTGGGGCTGCGGTTTCATCCGTGCTCTCATTTCATGCCGAGTTGGTGGGACCCACCCAGCTG
GCTCCGTCTCTGCGTGACCTGAGGGCCCCACTGGGGTTCTGGAAGAGGATAGGGACATTATTGCTGTACTGTGATT
CTGTGCTCAGCTCACAGTGCCGTGCTCTGCACTGGGGCCCCCTGGGAGCAGGTGCCACCTCCTTCTCTCCCGG
GCAGGCACCTGCGCTGTCCACTTCTGAGTCCAGGTGTTGGGATCGAGGTGTTAACTGTGATTCCATCCAGCGAGTG
CCCACCAATGTGAGAGCAGCCCCGAGGGCCAGCCTGAGCCCCCTGACCCCACTTCCCTTCTGGGCCCCGGGCTCCTC
CCACAAGCCACGTTGATCTTCACAACGACCCTGGGCCGCTGGGGTCACCCAAGAGAAGCAGCCCTGAGACCCAGC
CAGGCTGGGCCTAGCTCCACGGCACGGGTGTCTCCAGCCACTGCCCTTGCTGGAGGACCCTGTGAGTCACTGG
CCAGGAGCCCAGGGTGTCTGAGTCTCATAGCCACCCTGCCAGCTGCAGCAGGTCCCTGGGCCTGCTTCCCTGCGG
GTTCTGGCCCTGGGGGAGGGGGCGTTAGTGCGGCGGAGGGTCTTGCCAAAGGCTTTTCATCCTAAATAGCAACTT
GAGTGGAAACCTGGGCAAGGCGGGCCAGAGGCTGGGCCCTGCACATAAAGCTTTTCGTGTGTGTC

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FIGURE 5129

MGSKAKKRVLLPTRPAPPTVEQILEDVRGAPAE DPVFTILAPEDPPVPFRMMEDAEAPGEQLYQQSRAYVAANQR
LQQAGNVLRQRCELLQRAGEDLEREVAQMKQAALPAEEAASSG

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FIGURE 5130

CGCGGGGAAACTGAGGCAGAGAGATGGGCTCCAAGGCAAAGAAGCGCGTGCTGCTGCCCACCCGCCAGCGCCCC
CCACGGTGGAGCAGATCCTGGAGGATGTGCGGGGTGCGCCGGCAGAGGATCCAGTGTTACCATCCTGGCCCCGG
AAGGTAGGGGGAGCCCGGTCCCGGGGAAAAGCGGACCTGAGACCCCGGCAGCAAGGGGACGGGAGAGAAGCACAC
CCCTAACTCCTGACCCACGCCCTGGGAACCCCGCAACATGGGCACGGTCCGTATCCTCTCCGAGTCTCCCTCT
ACTCCTCCGTAGAGTGGGACCGATTTTCAGAGGGTTCTTCTGACAGGGGTGGAGGCCGGGCGCTGTGGTTCAGGC
CTGTAAGCCCAGCACTTTCGGAGGATGAGGCGGGAGGATCGCTTGAGCCCAGGAGTTCGAGACCAGCCTGGCCAA
CATGGTGAAACCCCGTCTCTGCTAAAAATGAAAAACAAAAC

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FIGURE 5131

GC GG GCG CAG GAG CCG GGC GCA ATG GAG CGG AAG AGG TGG GAG TGG CCG GCG CTCC CGC AGG GCTGG GAG AGG GA
AGA AGT GCC CAG AAG GTCG GGG CTGT CGG CCG GCC CAG GGTAT GTCTTTT ACTATAG CCG GAG CGG GAAGA GTT
CCG CAG CAAG CCG CAG CTGG CCG CTAC CTGG GCG GCTCC ATGG ACTGAG CAC CTTT CGACTTCC GCAC GGG CAA
GATG CTGATGAG CAAGATGA ACAAG AGCCGCC AGCG CTGCG CTACG ACTCCTCCA ACCAGGTCAAG GGC AAGCC
CGACTGA ACACGG GCGTGG CCGTGG CCGCAG ACGG CTTCC ATCTTCA AGCAG CCGGTGAC CAAGATTACCA ACCA
CCCCAG CAACAAG GTCAAG AGCGAC CCGCAGA AGGCG GTGG ACCAG CCGCG CCAGCTCTTCTGG GAGAAGAAGCT
GAGCG GCCTGAAC GCCTTCGACATTGCTGAG GAGCTGGTCAAG ACCATGG ACTCCCCAAG GGCCTGCAG GGGGT
GGGACTGG CTGCACGG ATGAGACGCTGCTGTGG GCCATCG CCAGCG CCGTGCAC ACTAGC ACCATGCCC ATCAC
GGGACAGCTCTCG GCGCGCTGG AGAAGAAC CCGGCGTATGGCTCAAC ACCACG CAGCCCTGTG CAAAAGCCTT
CATGGTGA CCGACGAGGACATCAG GAAGCAG GAAGAGCTGGTGCAGCAGGTGCG GAAGCGGCTGGAGGAGGCGCT
GATGG CCGACATGCTGG CGCACGTGGAGGAGCTGG CCGCTGACGGGGAGGCG CCGCTGGACAAGGCCTGCGCTGA
GGACGACGACGAG GAAGACGAGGAGGAGGAGGAGGAGGAGGAGCCGAC CCGGAC CCGGAGATGGAGCAGCTCTAGGG
CAGGTGCTGCG GGGGCCACGG GGGCTCCCTGGAGTGG GGTCTGGCAGTGGGGACTGCTGGTGAACACAGATGTG
CTTGGGATGACGGGTGCCTCCCAAGAGCTTCCCATCTCCCTAGAAGAGCCCAAGCGTCCCCGTCCCGTGGAGTCG
CTAAAGCCAGCCCTCCCTGTCTTTCCAGAGGCCCTGCCGAGAGCCCGTGTCTGCTGCTGGAGCCCGCTGCAGAC
GCGGTCTTCGG CCCCCACGTGAACCAGGCTCGGCGGCGAAGCCAGCCTTGGAGACACCCAGGAGGAAGGCCGTGC
TCCTGGCTCCCTCCTCG GCGCGTCCCCACTTCCCGGGGCTCGGGGCACACAGCTGGGGCTGCCCCCACC CGAAA
GACCTCCACGCTCGTCTCTACAGAGTCCGGCTTCGGGAAGTGCCGGGTGCTCCTGGGCCCTGCCTGGCTCCCT
ACGACCTTTGGGCTCGAGGCCAGCTCCTCCCCATG CCGCTGTCCCAGCTCCTTGAGACTGGAGAGCAGCCAGCA
GGTGCCCGCAGCTCGGCGCCACGGCTTGCTGACAGCTGGGAGGGTTTCTCGGTCTGGAGGCGTAGTTTTGAAAC
TCACATCACCCACTGTGCAGCGTGAGGACGGGACTCTGGTCTGCTGTGGGGGGCATGCAGGACGGCGCCACTCTC
TGCCCTGCCATGCGGCTGGTGGTGCCACAGAGCCTCACCGTGCTGAGTGGCATGCCCAGGAGGCCGCTCTCCTT
CAGTAAATGTAACACAGTCGAGGCACGTATCGGGCAGCCTTCCCTGTGTGCCAACGCCAGCCTTCGCTTCTGAA
AACC AAACTCCAGCCGCTGCCAGTCGGGACTTGGTCG CCGGCGCTGCCAGAATGCTCCACTGCCAGCCGGCCCC
CCTGCCTCGGTTTTCCCTTCTGTTTAGTGGCGACACAGGCACCCAGCTTTGGGGTGGTGCTGACGCTCCCAGGGGT
GCCAGGAGCCACTGGGACAGGGTGAGGCTCC CAGACGCTCCTCGAGGTGCCAGCTCTCCAGGGAGCTTCTGGCC
CAAGGCCGTCTGAGGGATCTGCTCCTTAAC CCCCCAGTGCCTTGGCGAGGGCAGGTTCCAAGCCACAGACGCCTG
CCCCGAGTGGACTCTGCGGCCAGTCCCTGGTGCCTCCTGGCCCTGCTGCCAGTGAGGGCTCCTACGGGTGGGT
TCATTGGCCTGGGCCCAGCGAGCCCCCACCTGCATTGACCTTAGGCCCATAGAGAGGGCCTGTCCCGGTGCTGCC
CCAGCCAGGATCTGGTGCCTGCCCCAGGGGGACTGATGGGCAGAGTCGCCCTGTGGCTGGACTGTGACCATCCC
TGATGGGGCCTGACCGCGGGAGCTGAGGAAGCGCCGCTCCACCGTCTGCCCTCCAAGGACCCGCATGGAGGCAGT
GGGCTGGCAGCTTCTGTGCTCCTGTGTCAGAGTCAAAGCACAAATCCTCAGGACGGGGCTCAAGGGCCAGGGCAG
CCGAGGGAAGCTCCAGGTGGGGACCACGTCTTCTGAGGTTGGTGCCCACTGGCTGGGACCCCTTTCAGTGGGGT
GGCCTCCCTCTGTCTGCCTGGTGGAGGGAGCCGTGGGCGTGGGGACGTGACTGAATAAAGCCACCATGGGTGGA
TGTGCTTG

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FIGURE 5132A

GCCTGAGGTGCCCCGCCCTGGCCCCAGGAGA**ATGA**ACCAGCCGCAGAGGATGGCGCCTGTGGGCACAGACAAGGAG
CTCAGTGACCTCCTGGACTTCAGCATGATGTTCCCGCTGCCTGTCACCAACGGGAAGGGCCGGCCCCGCCTCCCTG
GCCGGGGCGCAGTTCGGAGGTTTCAGGTCTTGAGGACCGGCCAGCTCAGGCTCCTGGGGCAGCGGCGACCAGAGC
AGCTCCTCCTTTGACCCAGCCGGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGCAGCCTCTCTTCA
TCCACATTCTTGGGACCGGGA CTGAGGCAAGAGCGGTGAGCGGGGCGCCTATGCCTCCTTCGGGAGAGACGCA
GGCGTGGGCGGCCTGACTCAGGCTGGCTTCTGTGTCAGGCGAGCTGGCCCTCAACAGCCCCGGGCCCCCTGTCCCCCT
TCGGGCATGAAGGGGACCTCCAGTACTACCCCTCCTACTCCGGCAGCTCCCGGCGGAGAGCGGCAGACGGCAGC
CTAGACACGCAGCCCAAGAAGGTCCGGAAGGTCCCGCCGGGTCTTCCATCCTCGGTGTACCCACCCAGCTCAGGT
GAGGACTACGGCAGGGATGCCACCGCTACCCGTCCGCCAAGACCCCCAGCAGCACCTATCCCGCCCCCTTCTAC
GTGGCAGATGGCAGCCTGCACCCCTCAGCCGAGCTCTGGAGTCCCCCGGGCCAGGCGGGCTTCGGGGCCCATGCTG
GGTGGGGGCTCATCCCCGCTGCCCCCTCCCGCCCGGTAGCGGCCCGGTGGGCAGCAGTGGAAGCAGCAGCACGTTT
GGTGGCCTGCACCAGCACGAGCGTATGGGCTACCAGCTGCATGGAGCAGAGGTGAACGGTGGGCTCCCATCTGCA
TCCTCCTTCTCCTCAGCCCCCGAGCCACGTACGGCGGCGTCTCCAGCCACACGCCGCTGTACGCGGGGCCGAC
AGCCTCCTGGGCTCCCGAGGGACCACAGCTGGCAGCTCCGGGGATGCCCTCGGCAAAGCACTGGCCTCGATCTAC
TCCCCGGATCACTCAAGCAATAACTTCTCGTCCAGCCCTTCTACCCCGTGGGCTCCCCCAGGGCCTGGCAGGA
ACGTACAGTGGCCTCGAGCAGGAGCCCCGGTGCCTTATCGCCCAGCTACGACGGGGGTCTCCACGGCCTGCAG
AGTAAGATAGAAGACCACCTGGACGAGGCCATCCACGTGCTCCGCAGCCACGCCGTGGGCACAGCCGGCGACATG
CACACGCTGCTGCCGTCACGGGCGCTGGCCTCAGGTTTACCCGGCCCCATGTCACTGGGCGGGCGGCACGCA
GGCCTGGTTGGAGGCAGCCACCCCGAGGACGGCCTCGCAGGCAGCACCAGCCTCATGCACAACCACGCGGCCCTC
CCCAGCCAGCCAGGCACCCCTCCCTGACCTGTCTCGGCCTCCCGACTCCTACAGTGGGCTAGGGCGAGCAGGTGCC
ACGGCGGGCCGCCAGCGAGATCAAGCGGGAGGAGAAGGAGGACGAGGAGAACACGTACGCGGCTGACCACTCGGAG
GAGGAGAAGAAGGAGCTGAAGGCCCCCGGGCCCGGACCAGCCAGACGAGGACGAGGACGACCTTCTCCCCCA
GAGCAGAAGGCCGAGCGGGAGAAGGAGCGCCGGGTGGCCAATAACGCCCGGGAGCGGCTGCGGGTCCGTGACATC
AACGAGGCCTTTAAGGAGCTGGGGCGCATGTGCCAACTGCACCTCAACAGCGAGAAGCCCCAGACCAAACCTGCTC
ATCCTGCACCAGGCTGTCTCGGTATCCTGAACTTGAGCAGCAAGTGCAGAGCGGAACCTGAATCCCAAAGCA
GCCTGTTTGAAACGGCGAGAAGAGGAAAAGGTGTGAGGTGTGGTTGGAGACCCCCAGATGGTGCTTTTCAGCTCCC
CACCCAGGCCTGAGCGAAGCCACAACCCCGCCGGGCACATG**TGA**AAGGTATGCCTCCGTGGGACGAGCCACCCG
CTTTTCAGCCCTGTGCTCTGGCCCCAGAACGGCCACTCGAGACCCCGGGCTTCATCCACATCCACACCTCACACAC
CTGTTGTGACGATCGAGCCAACACCAACCTGACAAGGTTTCGGAGTGATGGGGGCGGCCAAGGTGACACTGGGTCC
AGGAGCTCCCTGGGGCCCTGGCCTACCACTCACTGGCCTCGCTCCCCCTGTCCCCGAATCTCAGCCACCCGTGTCA
CTCTGTGACCTGTCCCATGGATCCTGAACTGCATCTTGGCCCTGTTGCCTGGGCTGACAGGAGCATTTTTTTTTT
TTTTCCAGTAAACAAAACCTGAAAGCAAGCAACAAAACATACACTTTTGTGAGAGAAGAAAAAATGCCTTAACATAT
AAAAAGCGGAGAAATGGAACATATCACTCAAGGGGGATGCTGTGGAAACCTGGCTTATTCTTCTAAAGCCACCA
GCAAATTTGTGCTAAGCGAAATATTTTTTTTTTAAGGAAAATAAAAACATTAGTTACAAGATTTTTTTTTTCTTAAT
GTAGATGAAAATTAGCAAGGATGCTGCCTTTGGTCTCTGGTTTTTTTTAAGCTTTTTTTTGCATATGTTTTGTAAGC
AACAAATTTTTTTGTATAAAAGTCCCGTGTCTCTCGCTATTTCTGCTGCTGTTCCCTAGACTGAGCATTGCATTTT
TTGATCAACCAGATGATTAAACGTTGTATTAAAAAGACCCCGTGTAACCTGAGCCCCCGCTCCCCCCCCCCCC
CCGGAAGCCACTGCACACAGACAGAACGGGGACAGGCGGGCGGGTCTTTTGTTTTTTTTGATGTTGGGGGTCTCTTT
GGTTTTGTGATGTGAAAGTGATGCGTGGGCGTTCCCTGATGAAGGCACCTTGGGGCTTCCCTGCCGCATCCTCT
CCCCTCAGGAAGGGGACTGACCTGGGCTTGGGGGAAGGGACGTCAGCAAGGTGGCTCTGACCCTCCAGGTGACT
CTGCCAAGCAGCTGTGGCCCCAGGGCTACCCTACACAACGCCCTCCCCAGGCCCCCTAAGCTGCTCTCCCTTG
GAACCTGCACAGCTCTCTGAAATGGGGCATTTTTGTTGGGACCAGTGACCCCTGGCATGGGGACCACACCCTGGAG
CCCGGTGCTGGGGACCTCCTGGACACCCTGTCTTCACTCCTTTGCCCCAGGGACCCAGGCTCATGCTCTGAACT
CTGGCTGAGAGGATGCTGCTCAGGAGCCAGCACAGGACACCCCCACCCACCCACCATGTCCCCATTACACCA
GAGGGCCATCGTGACGTAGACAGGATGCCAGGGGCTGGCCAGCCTCCCCAATGCTGGGGAGCATCCCTGGGCC
TGGGGCCACACCTGCTGCCCTCCCTCTGTGTGGTCCAAGGGCAAGAGTGGCTGGAGCCGGGGGACTGTGCTGGTC
TGAGCCCCACGAAGGCCTTGGGCTGTGCGTCCGACCCTGCTGCAGAACAGCAGGGTGTCCCTCGGGGCCATCT
GTGTCCCATGTCCCAGCACCCAGGCCTCTCTCAGGTCTCCTTTTCTGGTCTTTTGCCATGAGGGTAACCAGCTC

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FIGURE 5132B

TTCCCAGCTGGCTGGGGACTGTCTTGGGTTTAAAACTGCAAGTCTCCTACCCTGGGATCCCATCCAGTTCCACAC
GAACTAGGGCAGTGGTCACTGTGGCAGCCAGGTGTGGGCCTGGCTAGCTGGGGGCCTTCATGTGCCCTTCATGCC
CCTCCCTGCATTGAGGCCTTGTGGACCCCTGGGCTGGCTGTGTTTCATCCCCGCTGCAGGTCGGGCGTCTCCCCC
GTGCCACTCCTGAGACTCCCACCGTTACCCCCAGGAGATCCTGGACTGCCTGACTCCCCTCCCCAGACTGGCTTG
GGAGCCTGGGCCCCATGGTAGATGCAAGGGAAACCTCAAGGCCAGCTCAATGCCTGGTATCTGCCCCAGTCCAG
GCCAGGCGGAGGGGAGGGGCTGTCCGGCTGCCTCTCCCTTCTCGGTGGCTTCCCCTACGCCCTGGGAGTTTGATC
TCTTAAGGGAACCTTGCTCTCCCTCTTGTTTTGCTCCTGGCCCTGCCCCTAGGTCTGGGTGGGCAGTGGCCCCAT
AGCCTCTGGAACCTGTGCGTTCTGCATAGAATTCAAACGAGATTACCCAGCGCGAGGAGGAAGAAACAGCAGTTC
CTGGGAACCACAATTATGGGGGGTGGGGGGTGTGATCTGAGTGCCTCAAGATGGTTTTTCAAAAAAATTTTTTAA
AGAAAATAATTGTATACGTGTCAACACAGCTGGCTGGATGATTGGGACTTTAAAACGACCCTCTTTCAGGTGGAT
TCAGAGACCTGTCCTGTATATAACAGCACTGTAGCAATAAACGTGACATTTTATAACG

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FIGURE 5133

MNQPQRMAPVGTDKELSDLLDFSMFPLPVTNGKGRPASLAGAQFGGSGLED RPSSGSWGS GDQSSSSFDPSRTF
SEGTHTESHSSLSSTFLGPGLGGKSGERGAYASFGRDAGVGGLTQAGFLSGELALNSPGPLSPSGMKGTSQYY
PSYSGSSRRRAADGSLDTQPKKVRKVPPGLPSSVYPPSSGEDYGRDATAYPSAKTPSSTYPAPFFYVADGSLHPSA
ELWSPPGQAGFGPMLGGGSSPLPLPPGSGPVGSSGSSSTFGGLHQHERMGYQLHGAEVNGGLPSASSFSSAPGAT
YGGVSSHTPPVSGADSLGSRGTTAGSSGDALGKALASIYSPDHSSNNFSSSPSTPVGSPQGLAGTSQWPRAGAP
GALSPSYDGGHLGLQSKIEDHLDEAIHVLRSHAVGTAGDMHTLLPGHGALASGFTGPMSLGGRHAGLVGGSHPED
GLAGSTSLMHNHAALPSQPGTLPDL SRPPDSYSGLGRAGATAAASEIKREEKEDEENTSAAADHSEEEKKELKAPR
ARTSPDEDEDDLPPPEQKAEREKERRVANNARERLRVRDINEAFKELGRMCQLHLNSEKPQTKLLILHQAVSVIL
NLEQQVRERNLNPKAACLKRREEEKVSGVVGDPQMVLSAPHPGLSEAHNPAGHM

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FIGURE 5134

CAGCAACTCCGTGGCCAAGCTGAGGAGGCCCCAGGGCCCCGCTCCTGCTTCTCCACGGGTGTGCTCTGTGGCCCCCG
ATGGAAGGGGGAAGGATCCAAGCAGGCCCTCCCTGCCAGGGCAGAAGATTCTGGAGTCCTGGGCGTTGCCTGTG
AGTGTTCTGAGAGATAAGGGCCCCGCCCCGCCCCGGGACCAAGGTCCTCGTCCCGTCCCTTGCTGCGCCGG
GAACTCCTGCCCCACGCAGGCTTCTGGTCTCCACACTGGGCTTGTTCTGGGTGATGAGATTCGGCTCCACCCTC
ACGGGCTGCCAGCCTCCTGCCGATGGGTGAGCCTCTGCTGCTGCTTCAGCAAAGGGCGGGCCCCACTTCCCACAC
TGGCAGGTGGGGACAGGGAGACCCTGGGCCTCCCCAGAGCTCATGGGTTAGCTTCCACACCCTCATGCTGTCATG
AGCCTTTCTCACAGGGTCAGAAGAGTCTGCATCTGACACAGAGACCCCAGTCCACATAGTCAGGGCTGGGCCAGA
GGGAGGGACTTGGGGCTGATGGGGAGGAGGCTCGGCGTGAGAGTGAGGTCTTTGCCCAAGGAGGGTATGAAAGCT
GGGGCTTTAGTGGGTGGGTAGGAGTTGGCCAGCAGAGAGCCGACGGAAGAGTTAATTTAAGTTTATGGACCTGTA
AGTGCTCCGAGTCCCAGGGTGTCTGGGTGTTAGCTGCTGACTGGTGTCTCATGAGTCGGGCTGGGTGAGGCTGG
GTTAGGAAGGGTTCCACAAGCCCCCGGGTCCACTGAGGTTTGCCCCCTGAGATGATGAACCGAAGCTTTTAGAGC
TGGGCAGGCGTGAGGGTGACCCATAACTCTCTCTGCTCCTGCCTGCAGGTCTTGAGGACCGGCCAGCTCAGGCTC
CTGGGGCAGCGGCGACCAGAGCAGCTCCTCCTTTGACCCAGCCGGGTAGGAGTCCCCGTGAGGCCTGAGACCCT
GAGTTTCTGTCCCCAGAGTTGGGGGCGAGGGGTGTGGGGAACTGAGGCTGAGAGAAGGGGCCAGCCTTCCAGG
GGTTTGACTGGGGGACATGGGTTTGAGTCCTGCCTCTCCAGCTGTAATGCGGGGTGGAGGGGGGGCCTGTGAAG
CCCCAGCACCTCTCATCCCCACCCATCTCCCTAGACCTTCAGCGAGGGCACCCACTTCACTGAGTCGCACAGC
AGCCTCTCTTCATCCACATTCTTGGGACCGGGACTCGGAGGTGAGTGCCTGGCCTGGTGCGGTCCCTCTGCTGTG
CACAGATGTGCAGACGTGGGCCTTGGCATGGTCAGTGCACGCACAGCGCCAGGCAAGTCCCCAGCGTTACCCAG
AGGGTGTGGACAGCCGAAGCCTCTGCCCCGTCTGGGAGCAGCTGCGGGGAGGTGCAGGGGACGTGGCCCGGACTC
CCTGGCACGGCACTCTGCAACTAGGCTTCCCCGCTGAGCGTAGAGGCAGGGAGGCCGTTCCAGACCCCACTTCC
TCCCTGGGATTTCTGCAGGGCTCCTCCTGCTTCCCGGGGAGGGGTACGCCGGGCTGGCCTGTGCCCCGCTGGGAAG
GAGGCGTAGGAGTTCTGGAGACTCGGGAGGGCGGCCAGAGTGTGCGGTGGTCAGAGCCCATGCCCTTCCGCAGAC
CGCCCGCCCGCCCTCTTTCCCTGGGGGGCCCTCCTGTTAACCGAGAGAATCGTGACTCAGGTTGGGCTCGGTGGC
TCACGCCTGTAATACCAGCACTTTGGGAGAGCGAGGTGGGTGGATCACCTGAGGTGAGGAGTTTGAGACCAGCCT
GGCCAACATGGTGAAACCCCGCTTCTACCAAAAAACAAAAAATTAGCCGGTCATGGTGTGGATGCTTATAGTGC
CAACTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGTGGAGGCTGCAGTGAGCCGAGATCACGC
CATTGCCCTCCAGCCTGGGTGATGGAGCGAGATTCCATCTT

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FIGURE 5135A

GCGGGCGGCGGCGACCGCGGCGCCAGTGAGGGGGCCCTGGGGCCCGGGCGGCTCCGGGCGGGGCCCCGCCGCGG
GACGGACCATGCTACGCTCCACTGGCTTCTTCCGGGCCATTGACTGCCCTATTGGTCTGGGGCGCCCGGGGGG
CCTGCCGCGGCGCCCTACTGCCACTTCCGGCACCGCGGGGCCCGGGGCTCCGGCGCGCCCGGTGACGGCGGAGAGG
CGCCCCCGCAGCAGGGCTGGGTTACGACCCCTACAACCCTGAGCTGCCAAGCCCCCGCGCAGAGGGAGAATG
GCACCTTGGGCTGGGGGAGGAGCCGCGCCCGGATGTGCTGGAGTTGGAGCTGGTCAACCAGGCCATCGAGGCCG
TGCGCAGTGAGGTGGAGCTGGAGCAGCGGCGCTACCGGGAGCTGCTGGAGACGACCCGTGAGCACCCTCCGCCG
AGGCCCCCGCCCTGGCGCCCCGCGGCCCAACGCCAGCCCCACTGTGGGCCCGGACGAGGATGCCTTCCCCTG
CCTTCGACTACAGCCCCGGCAGCCACGGCCTATTAAGCCCTGATGCCGCTACCAGCCCACCCCACTGGCCGCC
CTGCCGAGCCGGGCGAGCAAGTACTCGCTGGCGTCCCTGGACAGGGGTGAGGGCAGAGGTGGAGGGGGTGGCGGTG
CCCTGGAATACGTCCCCAAGGCTGTGAGCCAGCCCCGGCGGCACAGCCGCCCGTTCCAGTGCGAAGTACGTGG
TGGACAACCTCAGGCCACCCACAGACCTGGAGTATGACCCTCTCTCCAACCTACTCGGCCCGGCACCTCAGCAGGG
CCAGCTCCCGGGATGAGCGGGCCGCCAAGCGGCCCGGGGCTCCCGCGGCAGTGAGCCCTACACACCTGCTCCCA
AGAAGCTCTGTGACCCCTTTGGCAGTTGCGATGCAAGGTTCTCAGACTCAGAAGATGAGGCCGCCACGGTCCCAG
GTAACGAGCCCACCACGGCCAGCACCOCCAAAGCCAGGGCCGACCCTGAGATCAAGGCCACCGGGCAGCCACCCT
CCAAAGAGGGCCTGGAGGCCGAGGGGGCGGCCCTGCGGGAGACCAAGGAGACGGCCGTGACGTGCGACGTGGGGG
ACCTCCAGCCGCCCCAGCCAAGCCCGCTCCCCAGCCAGGTCCAGTCTCACAGGATGGGGGCTGCCCAAGG
AGGGAAAACCAAGAAGAAAAAACCGGGGCCCACTGCCCCAGCTGCAAAGACGGGGCCAGGGGAAGGACA
AGACCAAGGACAAGGGCCGAGGGCGGCCTGTGGAGAAGCCCGTGGCGACAAGAAGGGCCCGCAGGCCAGCAGCC
CCCGGCGCAAGGCAGAGCGGCCGGAAGGGACCAAGAAGAAGCCATCTTCGGCCACTCCTGTGGCCACCTCAGGGA
AAGGGAGGCCTGACCGGCCAGCGCGGCGGCCGAGCCCCACAAGCGGGGACTCCCGACCGGCGGCCGCGCAGAGGCC
CACCCCGCCCCCTCAGCTGCCCGACAGGAAGAGCACCAAGGCCCGCTCGGGGAAGCTAGTGAGCGGAAAGCCC
GCTACTAGACGAGGGCGCCTCCAGGACGCCCCCAAGCTGAAGAAGCGGGCCCTGAGCCACGCCGACCTCTTTG
GGGACGAGAGTGAGGACGAGGCCGACGGGCCAGGGGTGCCGAGCGTGTGGCCCTCTGCCCTCCCCAGCCTCAGCT
CGGACTCAGACTCCGACTCAGACTCCAGCCTGGGCTTCCCGGAGGCGCAGGGGCCGCCAAGCGGCTCAAGGCCT
CCCCGCCCCCTCCCCCGCCCCATCCTCCTCCTCCTCCTCCTCCTCCTCCACCTCCAGCGCGGGGGCGGATGTGG
ACTACTCGGCCCTGGAGAAGGAGGTGGACTTTGACTCCGACCCCATGGAGGAGTGCCTGCGGATCTTCAACGAGT
CCACCAGCGTCAAGACGGAGGACAGAGGCCGGCTGGCCCCGCGAGCCCCCAAGGAAGAGAAGAGTGAGGAGAAGG
GGCTTTCGGGTCTGACCACTCTGTTCCCCGGGCAGAAAGAGGAGGATCTCCACCTTTCCAAGCAAGGCCAGGAGG
TGGAGCCCCCGAGGAGGGGTCCGCGGCTGCCCCGGCCCCGGCCCCGACGCGCAGGAGGTGTGCTACCTGCGGG
CCCAGCAGGCGCAGAGGGCATCGGCGAGCTTGCTGCAGGCCCCCGCCAGGCTGGCAGAGAAGTGCCTCCGTCC
ACATTTCCGCCCCCTGGCGAGAAGAGGAGGATCGCCACATCCCCAACCCCCGCTGGCTGCAGCCCCCACAGGTG
CCAAGAGGACCCCTGCGGCCAGCGGCAGCCAGTCTCCAACGGCCCTGAGCCAGGTGGCCAGCAGCTGAAAACAC
GCACATTGTGCGGGATGGCGTCCAAGACTACCACCACCATCATCCCTAAGCGAATCGCCACAGTCCATCCTTAC
AGAGTTTAAAGAAACCCATTATCCCCAAAGAGTTTGGGGGCAAAGTCCCCACCGTCATCGGCCAGCGCTATCTCA
ACCTGTTTCATCGAGGAGTGTCTCAAGTTCTGTACCTCCAACCAGGAGGCCATAGAGAAGGCACTGAACGAGGAGA
AGGTGGCCCTATGACCGCAGCCCCAGCAAGAACATCTACCTGAATGTGGCCGTGAACACCCCTCAAGAAGCTCAGGG
GCCTGGCCCCCAGCGCTGTGCCCCGCCCTCAGCAAAACCACTGGCCGCGAGGTTGTGTCCCACGAGGTGGTGTGG
GGGGCAGGTTGGCCGCCAAGACCAGCTTCTCGCTCAGCCGTCCAAGCAGCCCCCGGGTGGAGGACCTGAAAGGGG
CTGCCCTGTACAGCCGCCTCAGGGAGTACCTGCTCACCAGGACCAGCTCAAGGAGAACGGCTACCCCTTCCCGC
ACCCAGAGCGGCCCGGGGGCGCAATCATCTTCACAGCTGAGGAGAAGAGGCCCAAGGACTCTTCTGCAGGACCT
GCTGCCGCTGTGGCACCGAGTACCTCGTGTCTCTTCAGGCCGCTGCATCCGGGACGAGGAGTGTATTACCACT
GGGGACGGCTGCGCCGGAACCGGGTGGCCGGAGGCTGGGAGACCCAGTACATGTGCTGCTCGGCTGCCGCCGGCT
CTGTGCGCTGCCAAGTCGCAAAGCAACACGTGCAGGATGGCCGGAAGGAGCGCCTTGAGGGCTTCGTGAAGACCT
TTGAGAAAGAGCTCTCAGGAGACACCCACCCGGGATCTACGCCCTGGACTGCGAGATGTCTACACCACATATG
GCCTGGAGCTGACGCGCGTACCGTGGTGCACACGGACGTGCACGTGGTTTTATGACACCTTCGTGAAGCCTGACA
ACGAGATCGTGGACTACAACACCAGGTTTTTCGGGGGTGACGGAGGCTGACCTTGCCGACACAAGTGTACGCTGC
GTGACGTCCAGGCCGTTCTGCTGAGCATGTTTCAGCGCTGACACCATCCTCATCGGACACAGCCTGGAGAGCGACC
TCCTGGCCCTGAAGGTCATCCACAGCACCGTGGTGGACACGTCTGTGCTCTTCCCCACCGCCTGGGCCTCCCCCT

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FIGURE 5135B

ACAAGCGGTCCCTGCGGAACCTCATGGCCGACTACCTCAGACAGATCATCCAGGACAATGTGGATGGGCACAGCT
CCAGCGAGGACGCCGGCGCCTGCATGCACCTGGTGATCTGGAAGGTTGAGAAGACGCCAAGACCAAGCGATTGAC
GCCTGCCCCGCTCCCACCCGCCTCTCCTGCCGTCCCGCTGGTCCTTAGCCCCATGCCTCTTCCAAAACAGTGCAA
TAAATCTCCGGTAACCCGTCCACCTGGCCGAGGCAGCCAGAGCAGCGGGATGAGCTGGCGGCCAGAGAACGCCC
AGCCCAGCCCACCCCGCTCACGTCTGCCGCACCCCTCCGCCGGTCCCCACCCCTCTGCCCCCAGCCCTCTGGC
GTCTCTAGAAACTGCTGCTGATGGAGACCAGGACAGAGCCCGCCCCACCCGGCCCGCAGCCCTCCTGCCCTC
CTGCCAGGCCCTCCCTCCCGGGTGGTGGCCGGCACCTCTGCTCCTCACGTGGGTGCGGGGGCGGGCTTGTCCCAG
GTTTGTGTTGAGACAGTCTTTTTTTATTTTGTATTGTTATTTTTATTATTTTAAATTTAAACCTGATGACTTGAC
AGCATCTTTCCACCGGGAAGAGCGGGCCTGCTGCCTTCCCTCCTGCGGGGTGGGGGTGGGACAGACCCAGTGG
GGGCCAGGGCCACACTCAGCGCAGTGTGGGCTGGACCCGCCTCTGTGCTCCAGGGGCTGGCCGGTCTTCGGGGC
GCCGGCTTCCACCACTCGCCGCCCCACCCCTGCCTCCGTGACCTCTGAGAACCCAGCTGGCCCTCGTTAGCCC
CAGGGTCTGCCGTCTAGAGGGAGCCACCGGCCTCCGGACACTGTCTTCCCGCTAGAGCCCCGTCTCCTCTGCG
GGGCTCTCCGGACCCCTTCCCCCTCACCTCCAGGCAGGGACAGAATAAATGTTTGTATGGATTTT

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FIGURE 5136

MLRSTGFFRAIDCPYWSGAPGGPCRRPYCHFRHRGARGSGAPGDGGEAPPAAGLGYDPYNPELPKPPAQRENGTL
GLGEEPRPDVLELELVNQAIEAVRSEVELEQRRYRELLETTREHRSAPALAPRGPNASPTVGPDEDAFPLAFD
YSPGSHGLLSPDAGYQPTPLAAPAEFGSKYSLASLDRGQGRGGGGGGALEYVPKAVSQPRRHSRPVPSGKYVVDN
SRPPTDLEYDPLSNYSARHLSRASSRDERAAKRPRGSRGSEPYTPAPKKLCDPFGSCDARFSDSEDEAATVPGNE
PTTASTPKARADPEIKATGQPPSKEGLEAEGGGLRETKETAVQCDVGDLOPPPAKPASPAQVQSSQDGGCPKEGK
PKKKKTGAPPAPSCKDGAQGKDCTKDKGRGRPVVEKPRADKKGPQASSPRRKAERPEGTKKKPSSATPVATSGKGR
PDRPARRPSPTSGDSRPAAGRGPPRPLQLPDRKSTKAPSGKLVERKARSLDEGASQDAPKLKKRALSHADLFGDE
SEDEAAGPGVPSVWPSALPSLSSDSDSDSDSSLGFPQAQGPCKRLKASPPSPAPSSSSSSSSSTSSAGADVDYS
ALEKEVDFDSDPMEECLRIFNESTSVKTEDRGRLARQPPKEEKSEEKGLSGLTTLFFPGQKRRISHLSKQGQEVVEP
PRRGPAVPPARPTAQEVCYLRAQQAQRASASLLQAPARLAEKSPSVHISAPGEKRRIAHIPNPRLAAAPTGAKR
TLAASGSQSSNGPEPGGQQLKTRTLSGMASKTTTTIIPKRIAHSPSLQSLKKPIIPKEFGGKVPTVIRQRYLNL
IEECLKFCTSNQEAIEKALNEEKVAYDRSPSKNIYLNVAVENTLKKLRGLAPSAVPGLSKTSGRRVVSHEVVLGGR
LAAKTSFSLSRPSSPRVEDLKGAALYSRLREYLLTQDQLKENGYPFPHPERPGGAIIFTAEKRPKDSSCRTCCR
CGTEYLVSSSGRCIRDEECYHWGRLRRNRVAGGWETQYMCCSAAAGSVGCQVAKQHVQDGRKERLEGFVKTFEK
ELSGDTHPGIYALDCEMSYYTYGLELTRVTVDTDVHVVDYTFVKPDNEIVDYNTRFSGVTEADLADTSVTLRDV
QAVLLSMFSADTILIGHSLESDDLALKVIHSTVVDTSVLFPHRLGLPYKRSLRNLMA DYLRQIIQDNVDGHSSE
DAGACMHLVIWKVREDAKTKR

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FIGURE 5137

TGCAACGGGGCCCCCCCCAGGGCAGCTAGGAGGTCCTCCCCCTCTCCTCTCCACCACCCCCCTGCTGCCCCCCTCCCG
GGGTGGGGTTTGGGGGGGTGGAGTGGACTTCTGGGAGCCGGCCCCGGGGAAAGCACCCCCCTGCCCCATCCCTGCAG
ATTGGGATGAAGTGTTTCAGACAGCCATAGAGGAGTCGGGGGTTGACACGGCCCCCTGCCTCTCCCCACCCACCCC
CACCCACCCGAAAGCCATGGGAGTAGTTTCAGGGAAATGGGGGTGCAGCCCAGCCACCCCCCATTCGGGTACTCAA
TCTCAGGTGTCCACAAGTTCTGCACCGGTAGGGGCTGCCTGGCCCCCAGACCTCGGGGGTAGAGCCAGGAGTG
GGGCAGCGTTAGGATGCCCGAGGGGCTCCAGGTGTTGCTTCTGAGACCTGGGATGGGGAGGGAGGGGACCTCTG
GGTTCTTCCAAAGAACATTTGACTCAGTGGGGTCGGGAGGGAATCCTGGCTTATTTATTTTCTCTGTCTCGGG
TGTGGGGGCCCTAGCTCGCCCTCTCTGGGTGGGTGGGTGAGAGAGGCTGCAGGGGAGGCTGGCACCGGGCTTGGG
CCTCCAGTCCCTGCCTTGCTGACTTTGGCCGTTGCGGTATCACGTGACAATCAACTCTCCCTTAACGACGACTGC
GGCTGTTGGGCTGCGCTGCCCTCCCTGGCCTGCAGGTGGGGCCGTGGAGCCCATGCCCCCGGGGTTGCAGGCTC
TTCCGGGCCTGGGCTGCAGCCTGGCCCCGGCCCTGCTTCCCTGGCCTCCCTCCTTCTCCTGGGTGCTTGGGAAGAG
GTGGGTCCTGGCCCGTGGTTGAGGTCTTGCCCTCGTGGACTGGAAGCAGAGGGCTGGCTGTGCAGCCTCCTGGGGT
AGCTCGTTTTTTTTTGACCGGGTAGAATATTTTTTTCAGGCACGGATTCTTTTTTCTGGGCCCCCATGGGTGGT
CCGGCATCCTCAGGGGGTGTGAGTGTGTGTGGGGGGTCTCTGAGCTGAACCTGGGTGGGGTGGGGACTTGTTCCT
CGGGGGCCACCTTTGTGTCTTGTGACGGTCTGCTGTGGCCTGGGTGCAATTCCTCTTGGGGGGGGTAT
TGAGGACCCCCAGCCTGGAATGAGAAGGGTCCCCGGTTCCATGTCAGACCCAGAAAGGTGGATCCCCCACTGTT
GGCTGCAGGAGGTTTTTGGTACCCCCCTTTGTTCAGAACCGTCTGCCTCTCGCTTGGGGACAGGGGGGCTTTG
GATGGCACTGGTGTGCACCTGGACCCAGCCCCGGCCTGGCAGGATCCAGGGATGGGTGCCTGGGATCCTGGGGG
AGGGAGGCAGGGGACGCCCTTCTGGAGCTGGGCTCGGAGGGTCTGCCCATCCAGCCCTCGGCTCTCTGTGTTC
TCTGTCCCTAGCCTCAAACCCTCTTCTGGCAGCGCTAGTGAGATGCCTTAGTCTGTGGGGGTGGGTGGGGGACTG
GGGCCCCGTTTTCTTTGTGAGTCTTGGTTGGCCCCAGCCCTGGCAGGGGCCTGTCTGGAGCAGGGGTAGGTAGG
GCTGTGGGTTCCAGAACTCTATAACTGGGCCCCCTCTCCAGTGTCCAGGGGCTTGGAGAGACCTGCGCCCCACCCCT
CCACTCTCCAGGAGTCGCTGATCACTGGGACCTGGTTCCAGCCGTTTGCAGGGGAGGCGGCTCCGAGAGGCGTG
TGCTTTCCGTGGGTGGCGCCCCCTCCCCCGCCCTGCCTGGCCTCATCCTTGTATTTAATTAATTAATAACAAGCCCCCT
TTTTAAACCCT

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FIGURE 5138

GCGGAGGGACCGACGGACGCACGGGCGGGCGGCCGGGAGCCATGGAGCGCGGCCCTGGGGCCCCGGGGCGCGGGC
CGGGGTGGGCTTCCCACGGCACGACATGGAGACCTGTGGTTGCGAGGCTCCCTGGGGCTCGGCTTGGACCGCGAT
GGGGCTGGGCCCTGGCCTCCTAACGGGGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCCCCTGCCCGC
GACTCGGAGCACCCCCACCCCTCCCCTGCCGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCGGTGGAGGCC
CGGCCTGGGCGGCGCCCGCCATGAATGGGCTGTGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCGCCCTGCC
CCGGCCGCATCGCTGCCAAGCTCGCCTTCTGCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCCGAGCCGG
GGCCTGGTGGGGCCGGGGCCGCCCCCTTGGGGACCCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGC
ACCTGACGGAGCGTGCCGACTTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCG
CCCGCGGCAACCGCGTCTCCTGCATGTATGTTTCGCTGCGTGCCTGGTGCCAGACAAGGACACCAGGCTCAGGGAG
GCCATCCCCAGCTGGCATGGGTGGGCAGGCTGGGCGACTCCAACAACCCAGCGCCTGGTGGTTGCCTGCTGGGCG
AGAGCTGGGGCACAGGGGCTGCCCTGGCCTGCGGGTACATCCACCTTCTCGCCAGGTACACGGTCCCTCTTCTCGC
ACGGCAATGCCGTGGACCTGGGCCAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCT
TCTCCTACGACTACTCCGGCTACGGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACG
CCGCCTGGCAGGCCCTGCGCACAGGTACGGCATCAGCCCGGACAGCATCATCCTGTACGGGCAGAGCATCGGCA
CGGTGCCCCACCGTGGACCTGGCCTCGCGCTACGAGTGTGCCGCGGTGGTGCTGCACTCGCCGCTCACCTCGGGCA
TGCGCGTCGCCTTCCCCGACACCAAGAAGACCTACTGCTTCGACGCCTTCCCTAACATCGAGAAGGTGTCCAAGA
TCACGTCTCCCGTGCTCATCATCCACGGCACGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGCTCTACG
AGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACAGCCAGT
ACCTGGAGCGCCTGCGTCGCTTCATCTCCCAGGAGCTGCCAGCCAGCGCGCCTAGCGGGCGGCCCCAACCGGCCG
GACCTCAGCAATAAGGCGGGCCCCCGACCTCACCCCGCGCCGGCCCCCACCCAGGGGCTGCATGTGGACCCCCCG
GGCGGCCAGGGGACCCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACTCCTTTCC
TTTTGGAAGCAAGAAGAAAATACGTGAAAACGGAAATTAAAGATTTAAATTTTAAAAAAAAAAAAAAAAA

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FIGURE 5139

MNGLSLSELCCLFCCPPCPGRIAAKLAFLPPEATYSLVPEPEPGPGGAGAAPLGTLRASSGAPGRWKLHLTERAD
FQYSQRELDTIEVFPTKSARGNRVSCMYVRCVPGARQGHQAQGHPQLAWVGRLGDSNNPAPGGCLLGESWGTGA
ALACGYIHLLARYTVLFSGHNAVDLGQMSSFYIGLSRLHCNIFSYDYSYGASSGRPSEPNLYADIDAAWQALR
TRYGISPDSSIILYGQSIGTVPTVDLASRYECAAVVLHSPLTSGMRVAFPDTKKTYCFDAFPNIEKVSKITSPVLI
IHGTEDEVIDFSHGLALYERCPKAVEPLWVEGAGHNDIELYSQYLERLRRFISQELPSQRA

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FIGURE 5140

ATGAATGGGCTGTCGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCCCCGCCCTGCCCCGGCCGCATCGCTGCCAAG
CTCGCCTTCCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGCCCGAGCCGGGGCCTGGTGGGGCCGGGGCC
GCCCCCTTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCTGGAAGCTGCACCTGACGGAGCGTGCCGAC
TTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCACCAAGAGCGCCCGGGCAACCGCGTCTCC
TGCATGTATGTTTCGCTGCGTGCCTGGTGCCAGGTACACGGTCCTCTTCTCGCACGGCAATGCCGTGGACCTGGGC
CAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCAACATCTTCTCCTACGACTACTCCGGCTAC
GGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACATCGACGCCGCCTGGCAGGCCCTGCGCACC
AGGTGA

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FIGURE 5141

GGGATTTGCACGGCAGCAGAGTCACCGTGGAGAGGCCAGGGTATCACAACTT**ATG**GATTTTGACAAGAAAGGAG
GGAAAGGGGAGACGGAGGAGGGCCGGAGAATGTCCAAGGCCGGCGGGGGCCGGAGCAGCCACGGCATCCGGAGCT
CGGGGACCAGCTCGGGGGTCTGATGGTGGGCCCCAACTTCCGCGTCGGCAAGAAGATCGGCTGCGGCAACTTCG
GGGAGCTCCGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTATCAAATTGGAGCCGATCAAGTCCCGGG
CCCCGCAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCACAGAGGGCGTCCCTCAGGTCTACTACT
TCGGTCCGTGCGGGAATTACAACGCCATGGTGTCTGGAGCTGCTGGGGCCCAGCCTGGAGGACCTGTTTCGACCTGT
GCGACCGGACCTTCACGCTCAAGACGGTGTCTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTATGTGCACA
CCAAGAGCCTAATCTACCGGGACGTGAAGCCCGAGAACTTCCTGGTGGGCCGCGCCGGGGACCAAGCGGCAGCATG
CCATCCACATCATCGACTTCGGGCTGGCCAAGGAGTACATCGACCCCGAGACCAAGAAGCACATCCCGTACCGCG
AGCACAAGAGCCTGACGGGCACGGCGCGCTACATGAGCATCAACACGCACCTGGGCAAGGAGCAGAGCCGCCGCG
ACGACCTGGAGGCGCTGGGCCACATGTTTCATGTACTTCTGCGCGGCAGCCTCCCTGGCAGGGGCTCAAGGCCG
ACACGCTCAAGGAGCGGTACCAGAAGATCGGGGACACCAAACGCGCCACGCCCATCGAGGTGCTCTGCGAGAACT
TCCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCCTGGACTTCTTCGAGAAGCCCGACTATGACTACC
TGCGGAAGCTCTTCACCGACCTCTTCGACCGCAGTGGCTTCGTGTTTCGACTATGAGTACGACTGGGCGCGGAAGC
CCCTGCCGACCCCCATCGGCACCGTCCACACCGACCTGCCCTCCAGCCTCAGCTCCGGGACAAAACCCAGCCGC
ACAGCAAAAACCAGGCGTTGAACTCCACCAACGGGGAGCTGAATGCGGACGACCCACGCGCCGCCACTCCAACG
CCCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAAATGCTGCTGTTTCTTCAAGAGGAGAAAGA
GAAAATCGCTGCAGCGACACAAG**TGAC**CCCTGGGCGCGTGCAGCCCCCTGAATCTTCTCCGTGCAGCCCCCTGGGG
CGCGACCTTGTGCGAGGCCCTCGGGGCCCCACCCACAGCGGCCAGGGCCAGACCCTGGCTGGAAGCCAGAACGCA
GACTGCAGGGGCCGCGCCTGGCTCAGGCGGCCCCACCCCGGGACGTGGGGTCACTTCCTTCATGTAAGACTTTG
GCCGAAATTTCTACACCTGTGTCTAGTCTCCCTCCAAGAGCATTAATATTTAAACAAGGAAAAGAGGAAAA
AAAAAACAGAGGCCCGCCCTACCCCACTCCTGCCCTCCGTTTCTTTGCTGAAGTGAGTAGTGTGATCCTGGAGG
CCCCCGGCCCTGGCCCCGCCCCGCCAGCCGCCCCCGTTAGCGTCATAAAGTCCAGCTTGTCTCCCTCGATCCAAA
GGCCGTTTTCTCGAGGGGAGGGCAGGCCCGCCCTGGAGGGGTGCTGTGGAGCTGTCTTGCCAGGCCCTCCTGGG
AGGGGGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCCAGGCCTCCCCGAAACCAAAGGGGAAGGCAGGGGTG
GGGCCGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAGCTCGGGCGCCGCGGGCACGGCTGCTGCAG
TCTCTTCCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGCGGGTGCTTCTCGACGCACTTGCTCCCCG
GAGGCTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGGTTGGTGTACCCCTGCTCGGCCCTCAGCCCTGC
CGCGTGGGGCGCGTGGGCACGGAGCTTCTGCCTCTGCTCCGACACCCGGCAAGCAGCCGGAGACAAAACGCCTT
AAAGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGGCTGGGGGCGGCCCTGGACTGGCGGGCGGTTCCCCAG
TGGGGTGCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGCCGTGCCAGGGCGGTGGCTGTGAGTCTAGT
TTTTGCTTTACCAAGTGTACAGAAATGGCATTACGTTTCTCTGATGCTCCCTTGAAGCCATAGAATTTAGGGGC
TTTTTTAAAAAATAAAAGAAAAATGAAACCAAAAAAAAAAAAAAAAAA

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FIGURE 5142

MDFDKKGGKGETEEGRRMSKAGGGRSSHGIRSSGTSSGVLNVGPNFRVGKKIGCGNFGELRLGKNLYTNEYVAIK
LEPIKSRAPQLHLEYRFYKQLSATEGVPQVYYFGPCGNYNAMVLELLGPSLEDLFDLDCDRFTLKTVMIAIQLI
TRMEYVHTKSIIYRDVKPENFLVGRPGTKRQHAIHIIDFGLAKEYIDPETKKHIPYREHKSLTGTARYMSINTHL
GKEQSRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTRATPIEVLNENFPEEMATYLRVRRLDFF
EKPDYDYLRLKFTDLFDRSGFVFDYEDWAGKPLPTPIGTVHTDLPSQPQLRDKTQPHSKNQALNSTNGELNADD
PTAGHSNAPITAPAEVEVADETKCCFFKRRKRKSLQRHK

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FIGURE 5143

ATGGCGGCGGGTGGGAGCGGCGGGCGTGCCTCGTGCCCGCCGGGGGTGCGGGTTCGGCCCGGGCACGGGGGGCAGT
CCCCGGGCCAGCGCCAACGCCGCCGCCACCCCGCCCCCGGCAACGCGGCCGCCGCCGCCGCCGCCGCCGCC
GCCGCCGCCGCCCTGGGCGGACGCCGCCGCCGCCGCCGGGCGCCCGGGACAGACGCGCAGGCGCGGGCGCGGAG
CGGGCGGAGGAGGCGGCGGGCGGGGCGGGCGGCGCTGCAGCGCAGGCGCGTACAACCTGGCAGGCCAGCAAG
CCCACCGTGCAGGAGCGCTTCGCCTTCCTCTTCAACAACGAGGTGCTGTGCGACGTGCACTTCCTGGTGGGCAAG
GGGCTCAGCTCGCAGCGCATCCCCGCGCACAGGTTCTGTGCTGGCCGTGGGCAGCGCCGTCTTTGATGCCATGTTT
AACGGGGGAATGGCCACAACATCCACGGAGATTGAGCTGCCCGACGTGGAACCCGCCGCTTCCTCGCACTGCTC
AAGTTTCTCTACTCGGACGAGGTGCAGATTGGCCCCGAGACGGTGATGACCACGCTATACACCGCCAAGAAGTAC
GCGGTGCCAGCGCTCGAGGCCATTGCGTGGAGTTCTGAAGAAGAACCCTGCGAGCCGACAACGCCCTTCATGCTG
CTCACGCAGGCGCGACTCTTCGATGAACCGCAGCTGGCCAGCCTGTGCCTGGAGAACATCGACAAAAAACTGCA
GACGCCATCACCGCGGAGGGCTTCACCGACATTGACCTGGACACGCTGGTGGCTGTCTGGAGCGCGACACACTG
GGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCGCTGGTCCGAGGCCGAGTGTGACGGCAGCAGCTGCAG
GTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGCCCTGGGCCCTATTGCTTCCCGCTCATGACCATCGAG
GAGTTGCTGTCAGGTCCCGCACAGTCGGGCATCCTGGTGGACCGCGAGGTGGTCAGCCTCTTCCTGCACTTCACC
GTCAACCCCAAGCCACGAGTGGAGTTTATTGACCGGCCCGCTGCTGCCTGCGTGGGAAGGAGTGCAGCATCAAC
CGCTTCCAGCAGGTGGAGAGTCGCTGGGGCTACAGCGGGACCAAGTACCGCATCAGGTTCTCAGTCAACAAGCGC
ATCTTCGTGGTGGGATTTGGGCTGTATGGATCCATCCACGGGCCACCGACTACCAAGTGAACATCCAGATTATT
CACACCGATAGCAACACCGTCTTGGGCCAGAACGACACGGGCTTCAGCTGCGACGGCTCAGCCAGCACCTTCCGC
GTCATGTTCAAGGAGCCGGTGGAGGTGCTGCCAACGTCAACTACACGGCCTGTGCCACGCTCAAGGGCCAGAC
TCCCCTACGGCACCAAGGCCCTGCGCAAGGTGACACACGAGTCGCCACCACGGGCGCCAAGACCTGCTTCACC
TTTTGCTACGCGGCCGGGAACAACAATGGCACATCCGTGGAGGACGGCCAGATCCCCGAGGTCACTTCTACACC
TAGGCTGCCCCGACACCGACACCGCCCTCCCTCCGCGGGGATAGCCGAGCCCCAGGCCATCATCTGCTGCTGGGG
TCCCCCACCACGCGGTGCCAGGCCAGTGTCCCCAGGCCGTCTGTCCACTCCATGCCACCTTTCTCAGCATCA
GGACGGGGTTGCCCTGTGTTACACAGAGTGTGGCTGCTGGATCAGGGCAGCCGGGGAGGTGGCCAGGCCAGTGG
CCAGGCCCTGTGGAGACAATCCCTCAGGACTAGGGACAGGGCTGTGCCGGCCTGGGCCAGGGCCACGGACCCGC
AGCTCAGGGCGCCTGCCCACGTCTGTGCCGGCGGTGCGCCGCGGGCGTCCCTCGCGTCTCTTCACTGCACATTG
CAATGCATTTGCGATTCCCATTTCTCTGCTAGGAGCCAGCCTGGGTGGCGCTGCTCCCAGAGCCGTGGGTCCCAG
ACCTTGCGTTCCTTTTGTTCTGTCCGTTTATCAGGACACGGGCCCCACCTGTACGTGCCCGAGGCCACCCAAG
CCCAGCCTGCGGGGCGTTCCCACTGCCTGGATGCCGGCTTGAGTTCTGCGCACGCAGGATTAGTGTGGGGACGG
CCCCTGCCGGATAGGCCTAGCCCTGGCCCAGGTGGTGAGCGGTTTGAGTGTCCGTTCTCATCCACCTGATGGGC
CCAGATAAAGGCCCCCGCTGTCCAGCCTCCCTGGACGGCCCTCGCGGTCCCTGCAGCCCAAGATGGGACTCAGAC
CCTGTGCCCCAGAGCTCCCCTGCCGCAGAATGGGGCCCCAGCCGGCCCCGACCGGGTCCAGGAGCACTGCTCGCC
TGTACATACTGTTGCCCTAGCCCACCTGGTGCCGTGGGAGCCACCCCCAGGTGCTGGGGGCACAGCCCCCTCCCCA
CTCCGGCCACGCCCCACCCACCCCGCGTGTCTTCTGCCCTGTGACTCCTGGAACCTGCGTCTCTCCCAAGCCAT
GGGAGGGGTGTCTCTCCTCAGACCATGCCCCAGATGATTTTTTTAAATAAAGAAACAATGCACCTGCAAAAAA
AAAAATAGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5144

MAAGSGGRASCPGPGVGVPGTGGSPGPSANAAATPAPGNAAAAAAAAAAAAAPGPTFPAPPGPGTDAQAAGAE
RAEEAAGPGAAALQREAYNWQASKPTVQERFAFLFNNEVLCDVHFLVGKGLSSQRIPAHRFVLAVGSAVFDAMF
NGGMATTSTEIELPDVEPA AFLALLKFLYSDEVQIGPETVMTTLYTAKKYAVPALEAHCVEFLKKNLRADNAFML
LTQARLFDEPQLASLCLLENIDKNTADAITAEGFTDIDLDTLVAVLERDTLGIREVRLFNNAVVRWSEAEQQRQQLQ
VTPENRRKVLGKALGLIRFPLMTIEEFAAGPAQSGILVDREVVSFLHFTVNP KP RVEFIDRPRCCLRGKECSIN
RFQQVESRWGYSGTSDRIRFSVNKRIFVVGFGLYGSIHGPTDYQVNIQIIHTDSNTVLGQNDTGFSCDGSASTFR
VMFKEPVEVLPNVNYTACATLKGPDSHYGTKGLRKVTHESPTTGAKTCFTFCYAAGNNNGTSVEDGQIPEVIFYT

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FIGURE 5145

TATTTATAAACACACTCACAGGGCCAGATTTGGGCCACGGGCCATAGTTGCCAGCCCGGCTTTAACTGCTGGTCC
TCACGTTAGTCTCACTGCCTCCTGCAGGGTGGGCATGTGGGTGTCGTGTTACGCAGCCCCTTCCTCCACCCCAC
AGACACGCTGGTGGCTGTCCTGGAGCGCGACACACTGGGCATCCGTGAGGTGCGGCTGTTCAATGCCGTTGTCCG
CTGGTCCGAGGCCGAGTGTGAGCGGCAGCAGCTGCAGGTGACGCCAGAGAACAGGCGGAAGGTTCTGGGCAAGGC
CCTGGGCCTCATTCGCTTCCCGCTCATGACCATCGAGGAGTTCGCTGCAGGTAACAGAGCTCGGGCTCAGGGGCT
GGTTTGGGAGGGGAGTGGCACACAGGTGGGCATCTGGGTACCGAGGATAGTGCCCCGAGTTCACTGCGGAAAGC
CTGGCAGATGCCTGGCATATACAGATAGGAAGAAACCTGGCTTGTGAGGACGCGTCCACAGGGCCATCTGTTAGC
CCCGGCCCGGCTCTGTCCCCACCGTGCACACTGCCAGACCCCGCCTCTCGTGTCTGTCCAGCTGTTTTGGTGGCA
TCTTCCCAGGAGGGAAGGGAGTCCCGTCTCGCGCCCTTGTGCTACCTGCTGGTGCAGGTACCACTGTCTGTGAC
GAGCTCAGGAGGGCTCTGACATGGCCGGGGTGGCTGTGTCGCGCCGAGTGGGCCTTGGGGTCCCCCTGCTGCAGG
GCCTGGGTTCAGGGTGACGTGAAGGGGCAGCGCTAACGATGCCTCCTGCCCTCGTGGCTGCTCACTGCCTGACG
CCATCCAGCTCTGGAGCAAAACAGGCCTGGAACTTTCCAGAAGGGGCTGGGACAGAGCCCTGGGGCTGGTGCACA
CTCGCCGTCTGGCCTTCCCCAGGTCCACGCGGCC

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FIGURE 5146

GCTGGCGGGGCCCGGACAGAAG**ATCG**TGCAGAAGAAACCAGCCGAACCTTCAGGGTTTCCACCGTTCGTTCAAGGG
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCC GCCAGCCAGCCATTGACATCCCGGACGCCAAGAAGAGGGGCAAGAAGAAGAAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTTCGGAGCAGGGTTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCCT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTGTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCGGAACATCCTCTGTGAGCACCCCAACCA
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACCTCAACGGGGACTGCTCCCTATCTC
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGTTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCCAAGTCCTGCAACACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCCTGCAGAGGTGGGACAGTCACTTCCTCCTCCC
TCCCCACCCCTGTGCGATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAG**TGA**AGATCCTG
GAGGACCCTGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTTAATGTTACGATGTTTTT
AAAAGACAAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCCA
ATGTACCAGGTGAAGTACGGAGCTCAGAAGTTTTCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTGT
TTTGTAAGATTTAATAAAAAGTCAAAAAACTTGCAAAAAAAAAAAAAA

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FIGURE 5147

MVQKKPAELQGFRSFKGQNPFFELAFSLDQPDHGDSDFGQLQCSARPDMPASQPIDIPDAKKRGKKKKRGRATDSF
SGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKII EKQPGHIRSRVFREVEMLYQCQGHRNVLELIEFFE
EEDRFYLVFEKMRGGSILSHIHKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKIC
DFDLGSGIKLNGDCSPISTPELLTPCGSAEYMAPELVEAFSEEASIYDKRCDLWSLGVILYILLSGYPPFVGRCG
SDCGWDRGEACPACQNMLFESI QEGKYEFFDKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWVQGCAPEN
TLPTPMVLQRWDSHFLLPPHPCRIHVRPGGLVRTVTVNE

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FIGURE 5148A

CCAAGCCTGAGTGTTAATTTAACTCTATGTTGTCCGCGTGTAAACATCCGAGGTCATTTGTTGCGTTGAATTAT
CTGACCATCCTTTTTTACTGTGACTCTTCCCATTCTCTTTGGCAAGAAGTCCCCTTCTCGCCCCCAAACCAGCAA
GGGACTCCCCACCTGGGTCTGTGCCCTGCCCCGCGTGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCT
GTCTTGACGGTTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTCGCCAAGGTTTTCTCTCCCAGAACCACAGT
GGGCCGCCGCGATGCGCCCTCAAGATGGTGAAGGGCAGCATCGACCGCATGTTGACAAGAATCTGCAGGACTTGG
TCCGCGGCATCCGTAACCACAAGGAGGACGAGGCAAAATACATATCTCAGTGCATTGATGAGATCAAGCAGGAGC
TGAAGCAGGACAACATAGCGGTGAAGGCGAACGCGGTCTGCAAGCTGACGTATTTACAGATGTTGGGATACGACA
TCAGCTGGGCCGCTTCAACATCATAGAAGTGATGAGTGCCTCCAAGTTACCTTCAAGCGAATTGGCTACCTCG
CTGCTTCCCAGAGCTTTCACGAAGGCACCGACGTCATCATGCTGACCACCAATCAGATCCGTAAGGACTTGAGCA
GCCCCAGCCAGTACGACACAGGTGTTGCACTGACGGGTCTGTCTGCTTCGTCACCCAGACCTTGCCAGAGACC
TGGCAAATGACATCATGACACTGATGTACACACCAAGCCCTACATCAGGAAGAAGGCTGTGCTGATCATGTACA
AGGTGTTTCTGAAGTACCCGAGTCGCTGCGCCCTGCTTTTCCCGGCTGAAGGAGAAGCTGGAGGACCCCGACC
CCGGGGTTTCACTCGGCTGCCGTCAATGTTCATCTGCGAGCTGGCCAGACGCAACCCTAAGAACTACCTGTCCCTGG
CCCCGCTCTTTTTTCAAGCTGATGACGTCTCCACCAACAACCTGGGTCTCATCAAGATCATCAAGCTGTTCCGGTG
CTCTTACTCCTTTTGAACCGCGGCTGGGCAAGAAGCTGATCGAGCCCTCACCAATCTCATCCACAGCACGTCTG
CCATGTCTCTCCTCTATGAATGTGTGAACACCGTGATTGCACTGCTCATCTCGCTGTCTCCGGCATGCCAACC
ACAGCGCCAGCATCCAGCTTTGTGTTTCAAGAAATTAAGGATATTGATCGAGGACTCCGATCAGAACTGAAGTACC
TGGGGCTGCTGGCAATGTCCAAGATCCTGAAGACCCACCCCAAGTCCGTGCAGTCCCAAGGACCTCATCTGTC
AGTGCCTGGACGACAAGGACGAGTCCATCCGGCTGCGGGCCCTGGACCTGCTCTATGGGATGGTGTCCAAGAAGA
ACCTGATGGAGATCGTGAAGAAGCTGATGACCCACGTAGACAAGGCAGAGGGTACCACCTACCGTGACGAGCTGC
TCACCAAGATCATTGACATCTGCAGCCAGTCCAACCTACCAGTACATCACCACCTTCGAGTGGTACATCAGCATCC
TGGTGGAGCTGACCCGGCTGGAGGGCACACGGCACGGCCACCTCATCGCCGCCCAAATGCTGGACGTGGCCATCC
GCGTGAAGGCCATCCGCAAGTTCGCCGTGTCCCAGATGTCTGCGCTGCTTGACAGTGCACACCTGCTGGCCAGCA
GCACCCAGCGGAACGGGATCTGTGAGGTGCTGTACGCTGCCGCTGGATCTGCGGGGAGTTTCTCAGAGCATCTGC
AGGAACCACACCACACTTTGGAGGCCATGCTGCGGCCAGAGTCACCACGCTGCCAGGCCACATCCAGGCCGTGT
ATGTGCAGAACGTGGTCAAGCTCTACGCTCCATCCTGCAGCAGAAGGAGCAGGCCGGGGAGGCAGAGGGCGCTC
AGGCCGTACCCAGCTCATGGTGGACCGGCTGCCCCAGTTTGTGTCAGAGCGCAGACCTGGAGGTGCAGGAGCGGG
CGTCTGTCATCCTGCAGCTGGTCAAGCACATCCAGAAGCTTCAGGCCAAGGACGTGCCTGTGGCAGAGGAGGTCA
GCGCTCTCTTTGCTGGGGAGCTGAACCCAGTGGCCCCCAAGGCCAGAAGAAGGTTCCAGTCCCCGAAGGCCTGG
ACCTGGACGCCTGGATCAATGAGCCACTCTCGGACAGCGAGTCAGAGGACGAGAGGCCAGGGCCGTCTTCCACG
AGGAGGAGCAGCGGCGTCCCAAGCACCGGCCGCTCGGAGGCGGACGAGGAGGAGCTGGCTCGGCGCCGAGAGGCC
GGAAGCAGGAGCAGGCCAACAAACCCCTTCTACATCAAGAGCTCGCCATCGCCACAGAAGCGGTACCAGGACACCC
CGGGCGTGGAGCACATTCCCGTGGTGCAGATTGACCTCTCCGTCCCCTTGAAGGTTCCAGGGCTGCCTATGTGAG
ATCAGTATGTGAAGCTGGAGGAGGAGCGGCGGCACCGGCAGAAGCTGGAGAAGGACAAGAGGAGGAAAAAGAGGA
AGGAGAAGGAGAAGAAGGGCAAGCGCCGCCACAGCTCGCTGCCACGGAGAGCGACGAGGACATCGCCCTGCC
AGCAGGTGGACATCGTCACAGAGGAGATGCCTGAGAATGCTCTGCCAGCGACGAGGATGACAAAGACCCCAACG
ACCCCTACAGGGCTCTGGATATTGACCTGGATAAGCCCTTAGCCGACAGCGAGAACTGCCTATTGAGAAACACA
GAAACACCGAGACCTCAAAATCCCTGAGAAGGACGTTCCCATGGTAGAAAAGAAGAGCAAGAAACCCAAAGAAGA
AAGAGAAAAAACACAAAGAGAAAGAGAGAGACAAGGAGAAGAAGAAGGAGAAGGAGAAGAAGAAATCTCCCAAGC
CTAAGAAGAAGAAACACAGGAAGGAGAAGGAGGAGCGGACCAAAGGCAAGAAGAAGTCCAAGAAGCAGCTCCAG
GCAGCGAGGAGGCAGCGGGGAGCCGGTGCAGAATGGCGCGCCAGAGGAGGAGCAGCTCCCGCTGAGTCCAGCT
ACTCCCTCCTCGCTGAAAATTCCTATGTTAAATGACCTGTGACATCCGGGGCAGTCTGCAGGAGGACAGCCAGG
TCACTGTGGCCATCGTGTGAGAGAACAGGAGCAGCAGCATCCTCAAGGGCATGGAGCTCAGCGTGTGACTCAC
TCAATGCCAGGATGGCCCGGCCGAGGGCTCCTCCGTCCACGATGGCGTCCCGTGCCTTTCCAGCTGCCCCAG
GCGTCTCCAACGAAGCCAGTATGTGTTTACCATCCAGAGCATCGTCATGGCGCAGAAGCTCAAGGGGACCTGT
CCTTCATTGCCAAGAATGACGAGGGTGCAGCCACGAGAAGCTGGACTTCAGGCTGCATTTCAGCTGCAGCTCCT
ACTTGATCACCACCTCCCTGCTACAGTGACGCTTTTGCTAAGTTGCTGGAGTCTGGGGACTTGAGCATGAGCTCAA
TCAAAGTCGATGGCATTCGGATGTCCTTCCAGAATCTTCTGGCGAAGATCTGTTTTACCACCATTTTTCCGTTG

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FIGURE 5148B

TGGAGCGAGTGGACTCCTGCGCCTCCATGTACAGCCGCTCCATCCAGGGCCACCATGTCTGCCTCCTGGTGAAAA
AGGGTGAGAACTCTGTCTCAGTCGACGGGAAGTGCAGTGACTCCACGCTACTGAGCAACTTGTTAGAAGAGATGA
AGGCGACGCTGGCCAAGTGT**TG**AGAGCTGCCTGCGAGCCCCGCACCACCCGCGGAGCACGTACCCAGGGACCGC
AGCCCTGACGTGTCTCGCCTCTCCTCAGTCGTGTGTACTGTACCCAAGCCTGAGTGTTAATTTAACTCTATGTTG
TCCGCCGTGTAGACATCCGAGGTCATTTGTTGCGTTGAATTATCTGACCATCCTTTTTTTACTGTGACTCTTCCCA
TTCTCTTTGGCAAGAAGTCCCCTTCTCGCCCCCAAACCAGCAAGGGACTCCCCACCTGGGTCTGTGCCCTGCCC
CGCGCTGGGGGGCCGAGTCCTTGAATGTGGCTTCAGGGGCTCCTGTCCTGGGCCAGGGCCTGATGGGCACCACGTG
AGGGGCACCTTGGTGGACAGGGCGGGGCTGACGTGGCCTCCTCTGGGGTTCGCCTGCTTTTGACCCAAAGGTCCTGA
CGGTTGCGTCCGGGGGAGGGGAAGGAAGGGCCGCTGTCGCCAAGGTTTTCTCTCCCAGAACCCACAGTGGGAAAG
CGGTCTTGCCAGGCGTTGTCCATTGTTCAGTGTGCTCGTGGGCTGGTGACTGGGTCTTGGGATCCCAGGCCACGCG
CCAGCCAGGCTGTGGGCAGGGCGGGGCCAGGGACGCCAAAGAGAGGTTGCAGTCAGAACCCTGGACGGGGTGGGT
TGAGGCCTCTCTGCCACCCGTCCTTCCCTGGTTCAGCAGAAGTGCATCTCGGCTTGGGTTTGGGGTGGTCCGCATCCC
CTGCTTGCCACTATGCGCACCAAGGTTTCCCCACATCCTTCCCAGCACCCCTTAGGAAGGCCCAGGCAGGGCCTGG
AAGCAGCGGACCTGGGCTGTTCTGTGTTGAAGGAGTGTGCCCAGTGCCCTTGGGCAGGACCTGTGAGAGCCACCT
CACAGGCAGAGCCCCCACCAGGCAGGGCAAGGAGACTCCGCTCACTCCCCACGGCCAGCGTGGGCACAGGACTGA
CCCTTCTTCAGAGATAATGACATTTTATCTTCTCCTTTTGATGAAAAGTGTCACTTTAGCATGTAATCCATTACA
GAATCCCATGCAGTGATTCCAGGATTTGAAATTGTATGATGTGTTACATAAGAATTTATTTGCTATCGACATTCC
CGTATAAAGAGAGAGACATATCACGCTGCTGTATGATTTTGTGTCAAGATGATCCAATAAAGTTGTAAAACAGG

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FIGURE 5149

MALKMVKGSIDRMFDKNLQDLVRGIRNHKEDEAKYISQCIDEIKQELKQDNIAVKANAVCKLTYLQMLGYDISWA
AFNIIIEVMSASKFTFKRIGYLAASQSFHEGTDVIMLTNQIRKDLSSPSQYDTGVALTGLSCFVTPDLARDLAND
IMTILMSHTKPYIRKKAVLIMYKVFLKYPESLRPAFFPRLKEKLEDPDPGVQSAAVNVICELARRNPKNYLSLAPLF
FKLMTSSTNNWVLIKI IKLFGALTPLEPRLGKKLIEPLTNLIHSTSAMSLLYECVNTVIAVLISLSSGMPNHSAS
IQLCVQKLRLILIEDSDQNLKYLGLLAMSKILKTHPKSVQSHKDLILQCLDDKDESIRLRALDILLYGMVSKKNLME
IVKKLMTHVDKAEGTTYRDELLTKIIDICSQSNYQYITNFEWYISILVELTRLEGTRHGHLIAAQMLDVAIRVKA
IRKFAVSQMSALLDSAHLLASSTQRNGICEVLYAAA WICGEFSEHLQEPHHTLEAMLRPRVTTLPGHIQAVYVQN
VVKLYASILQQKEQAGEAEGAQAVTQLMVDRLPQFVQSADLEVQERASCILQLVKHIQKLQAKDVPVAEEVSALF
AGELNPVAPKAQKKVPVPEGLDLD AWINEPLSDSESEDERPRAVFHEEEQRRPKHRPSEADEEEELARRREARKQE
QANNPFYIKSSPSPQKRYQDTPGVEHIPVVQIDLSVPLKVPGLPMSDQYVKLEEERRHRQKLEKDKRRKKRKEKE
KKGKRRHSSLPTESDEDIAPAQQVDIVTEEMPENALPSDEDDKDPNDPYRALDIDLKPLADSEKLP IQKHRNTE
TSKSPEKDVPMVEKKSKKPKKKEKKHKEKERDKEKKKEKEKKKSPKPKKKKHRKEKEERTKGKKKSKKQPPGSEE
AAGEPVQNGAPEEEQLPPESSYSLLAENSYVKMTCDIRGSLQEDSQVTVAIVLENRSSILKGMELSVLDSLNAR
MARPGSSVHDGVPVPFQLPPGVSNEAQYVFTTIQSIVMAQKLKGTLSFIAKNDEGATHEKLDLFRHLHFSCSSYLIT
TPCYSDAFKLL ESGDLSMSSIKVDGIRMSFQNL LAKICFHHHFSVVERVDS C ASMYSRSIQGHHVCLLVKKGEN
SVSVDGKCS DSTLLSNLLEEMKATLAKC

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FIGURE 5150A

CGGGCCGTCCACTGGACTCCTGCGCCATATCCTGCAGCAGGTCTACAACCACTCGGTGACCGACCCCGAGAAGCT
CAACAACACTACGAGCCCTTCTCCCCGAGGTGTACGGGGAGACCTCCTTCGACCTGGTGGCCAGATGATTGATGA
GATCAAGATGACCGACGACGACCTGTTTGTGGACTTGGGGAGCGGTGTGGGCCAGGTCTGTCTCCAGGTTGCTGC
TGCCACCAACTGCAAACATCACTATGGCGTGCAGAAAAGCAGACATCCCGGCCAAGTATGCGGAGACCATGGACCG
CGAGTTCAGGAAGTGGATGAAATGGTATGGAAAAAGCATGCAGAATACACATTGGAGAGAGGCGATTTCCTCTC
AGAAGAGTGGAGGGAGCGAATCGCCAACACGAGTGTATATTTGTGAATAATTTTGCTTTGGTCTTGAGGTGGA
TCACCAGCTGAAGGAGCGGTTTGCAAACATGAAGGAAGGTGGCAGAATCGTGTCTCGAAACCCCTTTCACCTCT
GAACTTCAGAATAAACAGTAGAACTTGAGTGACATCGGCACCATCATGCGCGTGGTGGAGCTCTCGCCCTGAA
GGGCTCGGTGTCTGTGGACGGGGAAGCCAGTCTCCTACTACCTGCACACTATCGACCGCACCATACTTGAAAACCTA
TTTTTCTAGTCTGAAAAACCCAAACTCAGGGAGGAACAGGAGGCAGCCCGCGCCGCCAGCAGCGCGAGAGCAA
GAGCAACGCGGCCACGCCACTAAGGGCCAGAGGGCAAGGTGGCCGGCCCCGCCGACGCCCCCATGGACTCTGG
TGCTGAGGAAGAGAAGGCGGGAGCAGCCACCGTGAAGAAGCCGTCTCCCTCAAAGCCCGCAAGAAGAAGCTAAA
CAAGAAGGGGAGGAAGATGGCTGGCCGCAAGCGCGGGCGCCCCAAGAAGATGAACACTGCGAACCCCGAGCGGAA
GCCCCAAGAAGAACCAAACTGCACTGGATGCCCTGCACGCTCAGACCGTGTCTCAGACGGCGGCCTCCTCACCCCA
GGATGCCTACAGATCCCCTCACAGCCCGTTCTACCAGCTACCTCCGAGCGTGCAGCGGCACTCCCCCAACCCGCT
GCTGGTGGCGCCACCCCGCCGCGCTGCAGAAGCTTCTAGAGTCTTCAAGATCCAGTACCTGCAGTTCTTGGC
ATACACAAAGACCCCCAGTACAAGGCCAGCCTGCAGGAGCTGCTGGGCCAGGAGAAGGAGAAGAAGCGCCAGCT
CCTGGGTGCGGCTCAGCAGCTCCTCAGCCACTGCCAGGCCCAGAAGGAGGAGATCAGGAGGCTGTTTCAGCAAAA
ATTGGATGAGCTGGGTGTGAAGGCGCTGACCTACAACGACCTGATTCAAGCGCAGAAGGAGATCTCCGCCATAA
CCAGCAGCTGCGGGAGCAGTGGAGCAGCTGGAGCAGGACAACCGCGCGCTCCGCGGCCAGAGCTTGCAGCTGCT
CAAGGCTCGCTGCGAGGAGCTGCAGCTGGACTGGGCCACGCTGTCTGCTGGAGAAGCTGTTGAAGGAGAAGCAGGC
CCTGAAGAGCCAGATCTCGGAGAAGCAGAGGCACTGCCTGGAGCTGCAGATCAGCATTGTGGAGCTAGAGAAGAG
CCAGCGGCAGCAGGAGCTCCTGCAGCTCAAGTCTGTGTGCCGCTGACGACGCCCTGTCCCTGCACCTGCGTGG
GAAGGGCGCCCTGGGCCGCGAGCTGGAGCCTGACGCCAGCCGGCTGCACCTGGAGCTGGACTGCACCAAGTTCTC
GCTGCCTCACTTGAGCAGCATGAGCCCGGAGCTCTCCATGAACGGCCAGGCTGCTGGCTATGAGCTCTGCGGTGT
GCTGAGCCGGCCTTCTGTCGAAGCAGAACACGCCCCAGTACCTGGCCTCACCCCTGGACCAGGAGGTGGTGCCCTG
TACCCCTAGCCACGTGCGCCGCGCCGCGCTGGAGAAGCTGTCTGGCCTAGCCGCACCCGACTACACTAGGCTGTC
CCCGGCCAAGATTGTGCTGAGGCGGCACCTGAGCCAGGACCACACGGTGCCCGGCAGGCGCGCTGCCAGTGAGCT
GCATTTCGAGAGCTGAGCACACCAAGGAGAACGGCCTTCCCTACCAGAGCCCCAGCGTGCCTGGCAGCATGAAGCT
GAGCCCTCAGGACCCGCGGCCCTGTCCCCTGGGGCCTTGCAGCTTGTCTGGAGAGAAGAGCAGTGAGAAGGGCCT
GAGAGAGCGCGCCTACGGCAGCAGCGGGGAGCTCATCACCAGCCTGCCCATCAGCATCCCGCTCAGCACCGTGCA
GCCCCAACAAGCTCCCGGTGAGCATTCCCCTGGCCAGCGTGGTGTGCCAGCCGCGCCGAGAGGGCGAGGAGCAC
CCCCAGTCCCGTGTGTCAGCCCCGTGACCCCTCGTCCACACTTGAAGAAGCAGATTGGTGCTAATGCCACGGTGC
TGGGAGCAGAAGCCTTGCCCTGGCCCCCGAGGCTTCTCCTACGCTGGCTCGGTGGCCATCAGCGGGGCTTGGC
GGGAGCCCCGCTTCTCTCACACCTGGAGCCGAGCCGGCCACCTTGATGAGTCTCCAGCTCTGGGAGCCTTTT
TGCCACCGTGGGGTCCCGCAGCTCCAGCCACAGCACCCCTGCTGCTGGCACAGCCCCGGAACCTCGCTTCCTGC
CTCTCCCGCCACCAGCTCTCCTCCAGTCCCCGCTTGGTGGGGCCGCCAGGGCCGTTGCCCGAGGCCAGCAA
GGGAGACCTGCCCTCCGATTCCGGCTTCTCAGATCCTGAGAGTGAAGCCAAGAGGAGGATTGTGTTACCATCAC
CACTGGTGCGGGAGTGCCAAGCAGTCGCCCTCCAGCAAGCACAGCCCCCTGACCGCCAGCGCCCGTGGGGACTG
TGTGCCGAGCCACGGGCAGGACAGTCGAGGCGCGGCCGGCGGAAGCGAGCATCTGCGGGGACGCCAGCTTGAG
CGCAGGCGTGTCCCCAAGCGCCGAGCCCTGCCGTCCGTGCTGGCCTTTTACACAGCCTTCGGGGTCTCCCT
CAACCTCAACTCCATGGTCACTAACATCAACCAGCCCTGGAGATTACAGCCATCTCGTCCCCGAGACCTCCCT
GAAGAGCTCCCTGTGCCCTACCAGGACCAGACCAGCCCCCGTGTCTCAAGAAGGAGCGGCCTCTGAGCCAGAC
CAATGGGGCACACTACTCCCCACTACCTCAGACGAGGAGCCAGGCTCTGAGGACGAGCCAGCAGTGCTCGAAT
TGAGAGAAAAATTGCAACAATCTCCTTAGAAAGCAAATCTCCCCGAAAACCTTGAAAAATGGTGGTGGCTTGGC
GGGAAGGAAGCCCGCGCCCGCGGCGAGCCAGTCAATAGCAGCAAGTGGAAGTCCACCTTCTCGCCCATCTCCGA
CATCGGCCTGGCCAAGTCGGCGGACAGCCCGCTGCAGGCCAGCTCCGCCCTCAGCCAGAACTCCCTGTTTACGTT
CCGGCCCGCCCTGGAGGAGCCCTCTGCCGATGCCAAGCTGGCCGCTCACCCAGGAAAGGCTTTCCCGGCTCCCT

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FIGURE 5150B

GTCTGGGGGCTGACGGACTCAGCCCGGGCACCAACCCTGCCAACGGCTGCACCTTCGGCGGGGGCCTGGCCGCGGA
CCTGAGTTTACACAGCTTCAGTGATGGTGCTTCTCTTCCCCACAAGGGCCCCGAGGCGGCCGGCCTGAGCTCCCC
GCTGAGCTTCCCCTCGCAGCGCGGCAAGGAGGGCTCGGACGCCAACCCCTTTCCTGAGCAAGAGGCAGCTGGACGG
CCTGGCTGGGCTGAAGGGCGAGGGCAGCCGCGGCAAGGAGGCAGGGGAGGGCGGCCTACCGCTGTGCGGGCCCAC
GGACAAGACCCCACTGCTGAGCGGCAAGGCCGCCAAGGCCCGGGACCGCGAGGTGACCTCAAGAATGGCCACAA
CCTCTTCATCTCTGCGGCGGCCGTGCCTCCCGGAAGCCTCCTCAGCGGCCCGGCCTGGCCCCGGCGGCGTCTCTC
CGCAGGCGGGCGGCGCTCTCCGCCAGACGCACCGGTCTTCTGGGCCCCCTTCCCGCCGGGACCGCAGTTTCGC
GCTCGGCCCCATGTCCCTGCAGGCCAACCTCGGCTCCGTGGCCGGCTCCTCCGTGCTGCAGTCGCTGTTTCAGCTC
TGTGCCGGCCGCGCAGGCCTGGTGCACGTGTCTCGTCCGCTGCCACCAGACTGACCAACTCGCACGCCATGGGCAG
CTTTTCCGGGTGGCAGGCGGCACAGTTGGAGGTAAGTAGATTTCTACCTCAACCGCGAGACCTATGCAAGGAC
GGTGTGGACCAACTCGCGCCCCGCGGCATGGTGGCCGCGGCCTGCCGGGCTCCCACCCCTGGACGGCAGAGGCAA
GGACGGACGGGAGCTCCACTGTGAATCGGCGGCACGCGCCGCGAGGAGGCTGGGACTGGTCCAGTTTGTACTGTCTG
ATAGTTTTAGATAAAGTATTTATCATTTTTTAAAAAGTATAAACAATTCTGACTTATTTTATTCCATCTAAGTGG
TAAAAGGCAACTTATTGAGAAATATAAATATCTATATATGAGAGCTCTATATAAAGACACGTGTCTGCAGGGCGG
GCCCCGCCAGCGGATTCGCCACAGCCTGCCCCGGTGCTATCTCGTCCCCAGGCCCCGCGCCTGCCTCCACCCGCTTG
GTGCTGACTAGACGCTGACAACGCCGAACCCGTTCTCGGAAACGCCGCCCGGGCTCCCCGACGCGCTGCT
CCCGTACCAAAGGCAGGCCCGTCGCCACCACATTCCTCGGAGGCCTCCCCGCGGCCTGAGCCCCCTTCTGAGCGC
CCTGGCGCCTGCCCTGAGCTCTTCACCTTTACCCCGGCACTGTGAACCCCAAGACTGTTACCCCTCCGGGGCGTG
GGTTGCGCCCTTGCAATGTGAAGGGGCGCTGCGCGGTGACGCAGCTGGCCATGTGCTGCGCGATGGTGTGTGAGGA
CGGCGCGGGCACGTTGAACAAGTGCATTTACTTTTGTATTTCTCGGCTGTCCATGGCTCGCAGCATGCCCTGCGA
TGCGGGGCAGGCCTGTCTGCGGTCCCTTGGTGTCTGTACAGGAGAGAGTCACACTAATGAGTGGCAGTATTTT
ATAGAGATGTGATGAGAATTTATAAATTTATAGATTTGACAGCTTTTATTTTATAGATGGTATAATGCACAGTGA
AGAGGAAAGAAAAGCGAGGGGAAAAAACCTTATTTATTCAAACAGTGCACAAAATGGCCCCAGCGTCAGCCCCGA
CCCTAGACCCCTCAGTTGCAGCTCCCAGCAGCCCAGACAGAGCTGCCGGCGCCCCCTGCCTGCCCCACATCCCTTC
CTGTCAGGGCCACGCCTGGCACCCATCCCTTGGAGCCTGTGCTGGTTCTCCAGCTGCTGTGGGTGTGCTGGGGC
CAGGGTGCAGTGTGAAACCTGGCCTCTCTGGCCCTAGGCCCCAGGGTGACGTGGGCCCCCACTCTGCAGCCTT
GGCGGGTGCCCTGGGACTGGGTGTGGAAGGAGAGGAGCTGAGGCCGGGTGTAGCAGGCAGGCAGGGCCACTCCAG
TGCTTCTGGAGCCCTGAGCAGTCAGGGCCTGGGTGTCTGAGCAGTGGTGGCTCTGTGCCCTCCCTGGAGGATGG
GATCTGGGA

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FIGURE 5151

MIDEIKMTDDDLFVDLGSVGQVVLQVAAATNCKHHYGVEKADIPAKYAETMDREFRKMWKWYGKKHAEYTLERG
DFLSEEWRIANTSVIFVNNFAFGPEVDHQLKERFANMKEGGRIVSSKPFAPLNFRINSRNLSDIGTIMRVVEL
SPLKGSVSWTGKPVSYLHTIDRTILENYFSSLKNPKLREEQEAARRRQORESXSNAATPTKGPEGKVAGPADAP
MDSGAEEEEKAGAATVKKPSPSKARKKKLNKKGRKMAGRKRGRPKKMNTANPERKPKKNQTALDALHAQTVSQTAA
SSPQDAYRSPHSPFYQLPPSVQRHSPNPLLVAPTTPPALQKLLESFKIQYLOFLAYTKTPQYKASLQELLGQEKEK
NAQLLGAAQQLLSHCQAQKEEIRRLFQOKLDELGVKALTYNDLIQAQKEISAHNQQLREQSEQLEQDNRALRGQS
LQLLKARCEELQLDWATLSLEKLLKEKQALKSQISEKQRHCLELQISIVELEKSQRQOELLQLKSCVPPDDALS
HLRGKGALGRELEPDASRLHLELDCTKFSLPHLSMSPELSMNGQAAGYELCGVLSRPSKQNTPOYLASPLDQE
VVPCTPSHVGRPRLEKLSGLAAPDYTRLSPAKIVLRRHLSQDHTVGRPAASELHSRAEHTKENGLPYQSPSVPG
SMKLSPOPRPLSPGALQLAGEKSSEKGLRERAYGSSGELITSLPISIPPLSTVQPNKLPVSIPLASVVLPSRAER
ARSTPSPVLQPRDPSSTLEKQIGANAHGAGSRSLALAPAGFSYAGSVAISGALAGSPASLTPGAEPATLDESSSS
GSLFATVGSRSSTPQHPLLLAQPRNSLPASPAHQQLSSSPRLGGAAQGGLPEASKGDLPSDSGFSDEPESEAKRRIV
FTITTGAGSAKQSPSSKHSPLTASARGDCVPSHGQDSRRRGRRKRASAGTPSLSAGVSPKRRALPSVAGLFTQPS
GSPNLNLSMVSNNINQPLEITAISSPETSLSKSSEVPYQDHDQPPVLKKERPLSQTNAGHYSPLTSDEEPGSEDEPS
SARIERKIATISLESKSPKTLNENGGLAGRKPAFAGEPVNSSKWKSTFSPISDIGLAKSADSPLQASSALSQNS
LFTFRPALEEPSADAKLAHPRKGFPGSLSGADGLSPGTNPANGCTFGGGLAADLSLHFSFDGASLPHKGPEAAG
LSSPLSFPSQRGKEGSDANPFLSKRQLDGLAGLKEGSRGKEAGEGGLPLCGPTDKTPLLSGKAAKARDREVDLK
NGHNLFISSAAVPPGSLLSGPGLAPAASSAGGAASSAQTHRSFLGPFPPGPQFALGPMSLQANLGSVAGSSVLQS
LFSSVPAAAGLVHVSSAATRLTNHAMGSFSGVAGGTVGGVFNHAVPSASAHFFGARVGRGAACGSATLGPSPLO
AAASASASSFQAPASVETRPPPPPPPPPPPLPPPAHLGRSPAGPPVLHAPPPPNALPPPTLLASNPEPALLQS
LASLPPNQAFPLPTSAASLPPANASLSIKLTSPLPHKGARPSFTVHHQPLPRLALAAQAPGIPQASATGPSAVWVS
LGMPPPYAAHLSGVKPR

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FIGURE 5152

GGCACGAGGCTTTCTTTGCCCCGCGTTGCCCCAAACGAAGTCGTGGAGGTGGCGAAACGAGGAGGAGATAACGCGG
CCTTGGGCTCTGGTGTCTCCAGTCTGCTAAAGCCCTAAGGCCATCACC**ATG**GACTTCCAGCATCGCCCCGGGGG
CAAGACCGGGAGCGGGGGCGTGGCCTCCTCCTCCGAGAGCAACCGTGACCGCAGGGAGCGCCTCCGGCAGCTGGC
CCTGGAGACCATCGACATCAACAAGGACCCGTA**CTT**CATGAAGAACCACCTGGGCTCCTATGAATGCAA**ACT**CTG
CCTGACACTT**CACAACA**ATGAGGGGAGCTACCTGGCACATACGCAGGGGAAGAAGCACCAGACCAACCTGGCCCG
GCGAGCAGCCAAGGAGGCCAAGGAGGCCCTGCCCAGCCCGCGCCTGAGAAGGTCAAGGTGGAGGTGAAGAAGTT
TGTGAAGATCGGCCGCCCGGGCTACAAAGTGACCAAGCAGAGAGACTCGGAGATGGGCCAGCAGAGCCTCCTCTT
CCAGATTGACTACCCTGAGATCGCCGAGGGCATCATGCCACGTCACCGCTT**CAT**GTCTGCGTACGAGCAGAGGAT
CGAGCCTCCGGACCGGCGCTGGCAGTACCTGCTCATGGCCGCCGAGCCCTACGAGACCATTGCCTTCAAGGTGCC
GAGCAGAGAGATCGACAAGGCGGAGGGCAAGTTCTGGACACACTGGAACCGGGAGACCAAGCAGTTCTTCTCTCA
GTTCCACTTTAAGATGGAGAAGCCCCCGGCTCCACCCAGCCTCCCTGCTGGCCCCCCTGGGGTGAAGCGGCCTCC
ACCCCCGCTGATGAACGGTCTGCCCCCTCGGCCACCGCTGCCTGAGTCTTTGCCACCGCCCCCGCCAGGAGGCCT
GCCTCTGCCACCCATGCCCCCACAGGGCCTGCGCCCTCAGGGCCCCCGGGACCACCCAGCTACCCCCGCCAGC
TCCAGGGGTCCACCCCCCGGCCCA**GT**GGTGCATCCCCCTGCATCTGGGGTCCATCCCCAGCTCCTGGCGTCCA
CCCCCAGCTCCTGGCGTCCATCCCCAGCCCC**TGGGGT**CCACCCACCAACCTCTGGGGTCCACCCCCAGCTCC
TGGAGTCCACCCTCCAGCCCCCGGGTT**CACCCACCAGCCCCCGGAGT**CCACCCACCAGCCCCTGGGGTCCACCC
ACCAGCCCCAGGGGTCCATCCTCCCCATCAGCGGGGGTT**CACCC**AGGCCCGGGGGTGCACCCAGCAGCCCC
CGCCGTTACCCCTCAGGCCCCAGGGGTGCACCCACCAGCCCCAGGGATGCACCCTCAGGCCCCGGGGGTCCACCC
CCAACCTCCCGGGGTCCATCCGTGCGCTCCTGGGGTCCACCCTCAGCCTCCGGGAGTTACCCCTCAAATCCTGG
GGTGCACCCCCCAACTCCCATGCCCCCAATGCTGAGGCCCC**ACTT**CCCTCCGAAGGCCCAGGGAAACATACCTCC
CCCTCCCCCAACCA**ACTGAGA**AGCTGCTCCCTCCCCCAGCAAGCCCAGCGCCAGGTGCTCTTGCCCTTTTCCCACT
GAGAGAAGGCTGCTCTTTTGTACTGCCCCCGCTCATTAACAGCCTCCCCCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5153

MDFQHRPGGKTGSGGVASSSESNRDRRERLRQLALETIDINKDPYFMKNHLGSYECKLCLTLHNNEGSYLAHTQG
KKHQTNLARRAAKEAKEAPAPAPAEKVKVEVKKFVKIGRPGYKVTQORDSEMGQQSLLFQIDYPEIAEGIMPRHR
FMSAYEQRIEPPDRRWQYLLMAAEPYETIAFKVPSREIDKAEGKFWTHWNRETKQFFLQFHFMEKPPAPPSP
GPPGVKRPPPLMNGLP RPPLPESLPPPPPGGLPLPMPPTGPAPSGPPGPPQLPPPAPGVHPPAPVVHPPASG
VHPPAPGVHPPAPGVHPPAPGVHPPPTSGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPAPGVHPPSAGVHPQ
APGVHPAAPAVHPQAPGVHPPAPGMHPQAPGVHPQPPGVHPSAPGVHPQPPGVHPSNPGVHPPTPMPPMLRPPLP
SEGPGNIPPPPTN

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FIGURE 5154

TGCGAACGGCGAGCAGCGGGCGGCGGGAGAGACGCAGCGGAGGTTTTCTGGTTTCGGACCCAGCGGCCGG
ATGGTGAAATCCTCCCTGCAGCGGATCCTCAATAGCCACTGCTTCGCCAGAGAGAAGGAAGGGGATAAACCAGC
GCCACCATCCACGCCAGCCGCACCATGCCGCTCCTTAGCCTGCACAGCCGCGGGCGGCAGCAGCAGTGAGAGTTCC
AGGGTCTCCCTCCACTGCTGTAGTAACCCGGGTCCGGGGCCTCGGTGGTGCTCCTGATGCCCCCACCACCCCT
GAAGATCCCAGGTGGGCGAGGGAATAGTCAGAGGGATCACAATCTTTCAGCTAACTTATTCTACTCCGATGATCG
GCTGAATGTAACAGAGGAACTAACGTCCAACGACAAGACGAGGATTCTCAACGTCCAGTCCAGGCTCACAGACGC
CAAACGCATTAACTGGCGAACAGTGCTGAGTGGCGGCAGCCTCTACATCGAGATCCCGGGCGGCGCTGCCCGA
GGGGAGCAAGGACAGCTTTGCAGTTCTCCTGGAGTTCGCTGAGGAGCAGCTGCGAGCCGACCATGTCTTCATTTG
CTTCCACAAGAACCGCGAGGACAGAGCCGCCTTGCTCCGAACCTTCAGCTTTTTTGGGCTTTGAGATTGTGAGACC
GGGGCATCCCCCTTGTCCTCAAGAGACCCGACGCTTGCTTCATGGCCTACACGTTTCGAGAGAGAGTCTTCGGGAGA
GGAGGAGGAGTAGGGCCGCCTCGGGGCTGGGCATCCGGCCCCCTGGGGCCACCCCTTGTCAGCCGGGTGGGTAGGA
ACCGTAGACTCGCTCATCTCGCCTGGGTTTGTCCGCATGTTGTAATCGTGCAAATAAACGCTCACTCCGAATTAG
CGGTGTATTTCTTGAAGTTTAATATTGTGTTTGTGATACTGAAGTATTTGCTTTAATTCTAAATAAAAAATTTATA
TTTTACTTTTT

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FIGURE 5155

ACCATTCTGATGTTGGAGCGGCCTCGGTCCGGTTGACTTTGCGGACATCGAGGGCGGCTTCGGCTCCGATTTCGG
GGGCTCCGGCAGCGGGAAGCTGGACCCAGGGCTCATAATGGAGCAGGTGAAAGTGCAGATCGCCGTGGCCAACGC
GCAGGAGCTGCTGCAGAGGATGACGGACAAGTGTTCCGGAAGTGTATAGGGAAACCTGGGGGCTCCCTGGACAA
CTCCGAGCAGAAGTGCATCGCCATGTGCATGGACCGCTACATGGACGCCTGGAACACCGTGTCTCGCGCCTACAA
CTCGCGGCTGCAGCGGGAACGAGCCAACATGTGACCGGCGAGCGCGGGCCACCCACCCTGTTCAATTTCCATAAA
CGTGCTTTGAGAGGCGGGGTCCGCATGTACGTACTGCCTGCCCCGGGGCTTAGGAGGGTGGCACCGGTGCTGGGAC
ACACGGGACTGTGTCCTCGCCACCCCCGCCCTGCCCCCTGCCAGCCAGTGCAGCTTGGATCTCGGGGGTGTGGG
GCCCTGTGCCTTCCTGAAGTGCTGGCAGCCCAGTGGCACCTCCTTCAGGCCTTTGGGGTATTCCCCTAGTGTGCC
CAAGTCAGCCTCATATTCTGGGCGGACAGCTTGTCTGGACTTCGGAGTTGGGGGTGGTCAGACACCACAGGAGCT
GTCACCTCCTGCGGATGGGCAAATAAATTGGTGGAGGACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 5156

MEGGFGSDFGGSGSGKLDPLIMEQVKVQIAVANAQELLQRM TDKCFRKCIGKPGGSLDNSEQKCIAMCMDRYMD
AWNTVSRAYNSRLQRERANM

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FIGURE 5157

GGCACGAGGCCTCGTGCCGTTTTAATGGATATTTATTTTTTTTACATTGGTCAGTACACAGGTCAGGAGCTCACGC
CAGGGCCTTGAGGACAGGCTGACCCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCCCTCCGACGGCAGAGCCTC
CTTCAGAAAGTGCAGCTCAAGTCTTAAAGACACCAAACTGAGCCATGGGCACGCGCCGTCTCCGGGCC**ATG**GCG
TTCAGTGCAGGGCGGGGGCGGCACCGCTCCCCTGTGACTGCATCCCGCCTCCCTGGGGACCTGCCTGTGGCAGGA
AGGAATGGGGGGCCCCAGCCCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACCCGCTGCTCCACGT
AGCCCTGCTCGCTGCTCCTTGCTCTCAGAAAGTCCCGTCCCATGTAGAT**TAG**AGGGGGGCGCATCTTACCAAAGCA
TTTCCTCCTGGAGGCTACGCCGCTGTGCTCCCACTCAGGCGGCTGGTAGGGAGCTTTGCCCTGCCCCGGGGATACC
CTCTGCCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCCTCTTTCCACCTTCATAGCAGGAATCACC
CGGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTCTGGGGGTGGGTCTTGGTGATCTTGTCTATGGGGAGT
CTGCAGTGGTCTCAGCCACATCCTATGTATTTTGGCTCTGGAGGAGCAAAGCTGTATCCTGGAGTTGGTCTGTGA
TTTGCCGACAGCCTTGCAAGCTGGGCTCAGGGACAAAGTCCCCCCCCAAAACCCGCAGGTCTCATGTCCAGACGC
TGCCCACTCCTGTCTGAAAACAGCACGCCCCAGGCCACAGAACCCCCACCCTACATTTGCCCTTGGGTGGAGC
TGGGGGTGGTCTTAGGACTGCGGGTGCCCTTAGCTGAAGGGGGTGGGGAGAAGCGTGGACTGGGCAGCCTGTGGG
TAATTGGAGGTTCAATTGAGAATTGAGTCTTTGGAAACACTAAGAAAATCAAATTTTTAAAAGTTATTTATGGCCT
GGGAAACAATTTGCATTTGTCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGCGAAACCATCCCTCTGT
GTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACCCAGCCCTGGGGGA
GGCCACGCCTGCTGGACCAACGCGGGTTCTGGGGTGACAGCGCCAGGTTAACGCTGAAGCCTGCCCCGCTGAG
CCCAGGAGCCGGGAGGCCTGCGGGCTGACCCAGAATCCGATCATGCACCTGTCTCATGCCAGCGGCTTTGGCTG
GGGTGGTCTGAAGCCTGCACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCCTCAGTCTTGGGGCGTCGCCG
CCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCTGGGCTGCAGCT
GGGGCTGGCATGGACTTTTATTTTCAAGATTCGGTTTTTAAGAAGATGCATGCCTAATGTGTTCTTTTTTTTTTC
CAATGATTTGTAATATACATTTTATGACTGGAAACTTTTTTGTACAACACTCCAATAAACATTTTGATTTTAAAA
AAAAAAAAAAAAAAAA

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FIGURE 5158

MAFTAGRGRHRSPVTASRLPGDLPVAGRNGGPQPQAGKEPAADKAETPAAPRSPCSLSLLSEVPVPCR

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FIGURE 5159

CGTCGGACTACCGTTGGTTTCCGCAACTTCCTGGATTATCCTCGCCAAGGACTTTGCAATATATTTTTCCGCCTT
TTCTGGAAGGATTTTCGCTGCTTCCCGAAGGTCTTGGACGAGCGCTCTAGCTCTGTGGGAAGGTTTTGGGCTCTCT
GGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGCATCCACTGTGGATTATAATTGCAACATGAC
GCTGGAAGAGCTCGTGGCGTGCACAAACGCGGCGCAGAAGATGCAGACGGTGACCGCCGCGGTGGAGGAGCTTTT
GGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGAGTCGGCCAAGTTGATGAATGTGGACCCAGA
CAGCGTGGTCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGATGACATCGCCCTGCAAAATCCACTTCACGCT
CATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGTGTGCGGCATGCAGCGCCTGGCGCAGCTCCT
GGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCGAGACCTGCATTGTCTCCTGGTTCACGAACCCTCACAC
GGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTACTGCGAAGAAAGCCGGGGCAACAACCAGTGGGT
CCCCTACATCTCTCTTCAGGAACGCTGAGGCCCTTCCCAGCAGCAGAATCTGTTGAGTTGCTGCCACAAACAAAA
AATACAATAAATATTTGAACCCCCCTCCCCCCCAGCACACCCCCCAAAACAACCCAACCCACGAGGACCATCGG
GGGCAGAGTCGTTGGAGACTGAAGAGGAAGAGGAGGAGGAGAAGGGGAGTGAGCGGCCGCCCCAGGGCGGAGAT
CCAGGAGCTGGCGGCCGCCGATCCGATGGAGAAGGGGGGACCCAGGCCAGCAGGAGACAGGACCCCGAAGCTGA
GGCCTTGGGATGGAGCAGAAGCCGGAGTGGCGGGGCACGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTC
CACTCGGGGGTGGAGTGAGACTGACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGGCGTCTGCATACGAGAGA
CTTGGTTGAACTTGGTTGGTCCTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAA
GTTGCTCTGTACCCATGAACTCCCAGTTTGCGAATTATAGAGACAATCTATTTTGTTACTTGCACTTGTTATTTCG
AACCCTGAGAGCGAGATGGGAAGCATAGATATCTATATTTTTATTTCTACTATGAGGGCCTTGTAATAAATTC
TAAAGCCTC

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FIGURE 5160

GGGCAGGGGCGTGGGCGGGGCGTGGACCAGCCGCGCCGAGCGGGGCCTCTCCGGGCGCGTCTGTGGGGTCGAGA
CTGCGCGGCCGTTGGGCGTGCAGCGGCGCCAGTCGGCGGACGAGGGGCCCCGGGAGTTGCTGGACTGAGACATG
AGCCTCCAAC TGTGTGGTTGGGCTCGGTAGCACATCGTGGGACTTGGGTGTGCGCCACAGATGGTTTGGCCCTG
CAGTGACCAGAGCAGCCCAAGCCGCCACCATGGTGAAATTGCTAGTGGCCAAAATCCTGTGCATGGTGGGCGTGT
TCTTCTTCATGCTGCTCGGCTCCCTGCTCCCCGTGAAGATCATCGAGACAGATTTTGAGAAGGCCCATCGCTCGA
AAAAGATCCTCTCTCTCTGCAACACCTTTGGAGGAGGGGTGTTTCTGGCCACGTGCTTCAACGCTCTGCTGCCCCG
CTGTGAGGGAAAAGCTCCAGAAGGTCTTGAGCCTCGGCCACATCAGCACCGACTACCCGCTGGCCGAAACCATCC
TCCTGCTGGGCTTCTTCATGACCGTCTTCCTGGAGCAGCTGATCCTGACCTTCCGCAAGGAGAAGCCGTCCTTCA
TCGACCTGGAGACCTTCAACGCCGGATCGGACGTGGGCAGCGACTCGGAGTATGAGAGCCCCCTTCATGGGGGGCG
CGCGGGGCCACGCGCTGTACGTGGAGCCCCACGGCCACGGCCCCAGCCTGAGCGTGCAGGGCCTCTCGCGCGCCA
GCCCCGTGCGCCTGCTCAGCCTGGCCTTCGCGCTGTGCGGCCACTCGGTCTTTGAGGGCCTGGCCCTGGGCCTGC
AGGAGGAGGGGGAGAAAGTGGTGAGCCTGTTTCGTGGGGGTGGCCGTCCACGAGACACTGGTGGCCGTGGCCCTGG
GCATCAGCATGGCCCGGAGTGCCATGCCCCTGCGGGACGCGGCCAAGCTGGCGGTACCCGTAAGCGCCATGATCC
CCCTGGGCATCGGCCTGGGCCTGGGCATTGAGAGCGCCCAGGGCGTGCCGGGCAGCGTGGCGTCCGTGCTGCTGC
AGGGCCTGGCGGGCGGCACCTTCCTCTTCATCACCTTCCTGGAGATCCTGGCCAAGGAGCTGGAGGAGAAGAGTG
ACCGTCTGCTCAAGGTCCCTCTTCCTGGTGCTGGGCTACACCGTCCCTGGCCGGGATGGTCTTCCTCAAGTGGTGAG
CGGCCTCGCCATTGTCCCTGCCGCCGAGCCCGCGGGAGCCCCGGGCCGGACACAGGCCGCGTCCCCCGGCCGC
GCGTCCCCCAAGAGCGAGCACTGTGGCCCTGGGCCACCACTGTGCACAAGGGGCCTCCCGGGACCAGGCTGTGC
CCCCGATCCTACACCCTGAGCCTCAGAGCACTGCTACTTTTTAAATACTTCTTTCTTTAAAGTCTTTACC

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FIGURE 5161

GGGCGTCGCGCCCTGGGGCCGGGGCCGGGGCGGCACCGCGGTGCGCAAGCGCAACCGTCGGTGGGTGCGGGATCGG
TCGCCTGAGAGGTATCACCTCTTCTGGGCTCAAGATGGACAACAAGAAGCGCCTGGCCTACGCCATCATCCAGTT
CCTGCATGACCAGCTCCGGCACGGGGCCCTCTCGTCCGATGCTCAGGAGAGCTTGGAAGTCGCCATCCAGTGCCT
GGAGACTGCGTTTGGGGTGACGGTAGAAGACAGTGACCTTGCGCTCCCTCAGACTCTGCCGGAGATATTTGAAGC
GGCTGCCACGGGCAAGGAGATGCCGCAGGACCTGAGGAGCCCCGCGCGAACCCCGCCTTCCGAGGAGGACTCAGC
AGAGGCAGAGCGCCTCAAAACCGAAGGAAACGAGCAGATGAAAGTGGAACCTTTGAAGCTGCCGTGCATTTCTA
CGGAAAAGCCATCGAGCTCAACCCAGCCAACGCCGTCTATTTCTGCAACAGAGCCGAGCCTACAGCAAACCTCGG
CAACTACGCAGGCGCGGTGCAGGACTGTGAGCGGGCCATCTGCATTGACCCGGCCTACAGCAAGGCCTACGGCAG
GATGGGCCCTGGCGCTCTCCAGCCTCAACAAGCACGTGGAGGCCGTGGCTTACTACAAGAAGGCTCTGGAGCTGGA
CCCCGACAACGAGACATAACAAGTCCAACCTCAAGATAGCGGAGCTGAAGCTGCGGGAGGCCCCCAGCCCCACGGG
AGGCGTGGGCAGCTTCGACATCGCCGGCCTGCTGAACAACCTGGCTTCATGAGCATGGCTTCGAACCTAATGAA
CAATCCCCAGATTTCAGCAGCTCATGTCCGGCATGATTTCGGGTGGCAACAACCCCTTGGGAACCTCCCGGCACCAG
CCCCTCGCAGAACGACCTGGCCAGCCTCATCCAGGCGGGCCAGCAGTTTGCCAGCAGATGCAGCAGCAGAACCC
AGAGTTGATAGAGCAGCTCAGGAGCCAGATCCGGAGTCGGACGCCAGCGCCAGCAACGACGACCAGCAGGAGTG
ACGCTGCCTGCTCCCGGTGTGACCGCGTCCTTCCCTGGCCGACCCGAAGGAAGCCTTCTGGTTGTCTGCCACTTC
CTCCTGTTGGACTGCCTGAGAGAGGGGAAGAGAGACCTCGGACCTGCATGTCAAGATGGATTTTCCCCTTTTA
TCTCTGCCCTCCTCCACTCCCTTTTTGTAACTCCCTTACAGCCCCCAGACCCTTCTTGAAACGAGAGCCAGCAAG
CTGAGCACAGACCAGCAGCGACCTCCCTTCCAGCCCCCAGAAAGCTCGGTCACTTGAGTGTCTTCTAGAATCCTG
GGGTGCTCCCGGGCCGCTCTCAGAGAAGTGGCAGGTTTACGTTTCAGCCGTGTGGCGGATCGTGTGGCTTCCAAA
GCCTTTTACAGCCCCCGCCCCCATCCCGTGGTCTGTCTGCAGGAACCTCTCCCGTCTGTGAGAAGCCTCTTTCCG
AGTCGACCTCCCGGCCACCCCGGCCCTGTGCCTGCTCGGAAGAGCTCACTGCCAGCTGCGGCCTGGGCACCGCGG
GCCATGTGTGTTTGCATGAGGAACCTTTTAGTGGCAGACACCTAAGAGACGGCTGCGGTACCCACGCTCCGC
GGCTCAGGAGCCGTCCTGGGTGCATAGGACCAGTTTCTGTGACTTTTCTCCAGTTGGGCATGTTGACAGACATGT
TTCCCTCCTCCCACCCTCATTTTCTGGTCCTCGCGACTGAGAGCCAGGGGCGACATCATGACCTTCTGTCCCGG
CCGCCTTAGCCCCGGGCACAGGGAAGGCAGCTGGGCGGTTTCTGTCTGTGTCCCATCCTGCTGTCTTCTGTCTCT
GGATGTTTCATGGGCCCGGGGCCCCCAGGGAAGCTTACCCCTCCTGTGCTGGGTGGAGGCCACGGGACACCTCA
GGTGCCACCCACCTTGGCCCTAAACAGCCACCAGGAAAGCAGCCGGAGAGCCGGACAGCAGGCAGCCTGTCTGG
GTTCTTGAGGCCTGGGGGTGGCAGACGAGCCACGGCGCCGTGGTCCCAGCAGCAGGGTTGTGAGTCGGAGCATC
CTGGGGCTCCCTGGCTCCTGGCCGTCTGTGAGGTAGGCGCAGTACCGTGTATCGTAGGTAGCAGTAGGAACGGGG
GCCGCCGCGGCCCTGCAGCCGCTCATGGCGGTGAGGTGTGTGCCAAGCCCACCCGGGGTGCAGGGCGTGACGTGT
GGGGAATAAATAGGCGTTGTGACCTCTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5162

MDNKKRLAYAI IQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPEIFEEAAATGKEMPQDL
RSPARTPPSEEDSAEAERLKTEGNEQMKVENFEAAVHFYGKAIELNPANAVYFCNRAAAYS KLGN YAGAVQDCER
AICIDPAYS KAYGRMGLALSSLNKHVEAVAYYKKALELDPDNETYKSNLKIAELKLREAPSPTGGVGSFDIAGLL
NNPGFMSMASNLMNPNQIQQLMSGMISGGNNPLGTPGTSPSQNDLASLIQAGQQFAQQMQQQNP ELIEQLRSQIR
SRTPSASNDDQQE

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FIGURE 5163

GTGGCGGCGGTTGGGCCGAGGCAGGCGGCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG
GGAGCCGCAGGCGCAGACCCACCCGCCATGAAGCCCCCGCAGCCTGTGCAGGAGACATGGCGGACGCAGCATCT
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATC
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCAGCCAGGAGTTTGAGGACGTGTCTACGAGAGCACGCTCAAG
GCGCTGGCCGATGTGGAGGTCACCTACACAGTTCAGAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTCGACGTGGAGATGAGCATGAGGGAG
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAAGTTCAGAAGGACTCACTGAGGCCCCGAGGCTGCGCGGTAC
CTGGAGCGGCTAATCAAGCTGGGCCGAGAAAATGGGCTTCACCTCCCCAGAGAGACTCAGGAAAAACATCAAACGC
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCCTGCCCTTC
ACGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACCTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG
GTCACCCCTCAAGTACCCCCATTACTTCCCCCTCCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTGGAG
GAGGCCCTTCAACTGCCGGTGCAAGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTGACGCTGCGGGCCAGAAAG
TCCCGCCTGCTGGGGTTCCACACGCACGCCGACTATGTCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG
GCCACCTTCCTAGATGAGCTGGCGCAGAAGCTGAAGCCCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG
AAGCGTGCGGAGTGCGAGCGCCGGGGCCTGCCCTTCGACGGCCGCATCCGTGCCTGGGACATGCGCTACTACATG
AACCAGGTGGAGGAGACGCGCTACTGCGTGACCAAGCTGCTCAAGGAGTACTTCCCCGTGCAGGTGGTCACG
CACGGGCTGCTGGGCATCTACCAGGAGCTCCTGGGGCTGGCCTTCCACCACGAGGAGGGCGCCAGTGCCTGGCAT
GAGGACGTGCGGCTCTACACCGCGAGGGACGCGGCCTCGGGGGAGGTGGTTCGGAAGTTCTACCTGGACCTGTAC
CCGCGGGAAGGAAAGTACGGGCACGCGGCCTGCTTTGGCCTGCAGCCCGGCTGCCTGCGGCAGGATGGGAGCCGC
CAGATCGCCATCGCGGCCATGGTGGCCAACTTACCAAGCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCCAGGCGGAGTTGCGCATGTTT
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCCGTGCGCAGATGCTGGAGAACTGGGTGTGGGAGCAGGAG
CCGCTGCTGCGGATGTGCGGCACTACCGCACAGGCAGCGCCGTGCCCCGGGAGCTCCTGGAGAAGCTCATTGAG
TCCCGGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCCTCGCCAAGGTGGACCAGGCCCTGCACACG
CAGACGGACGCAGACCCCGCCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA
ACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGCTACGACGCCAGTACTACGGGTACCTGTGGAGCGAG
GTGTATTCCATGGACATGTTCCACACGCGCTTCAAGCAGGAGGGTGTCTGAACAGCAAGGTTGGCATGGATTAC
AGAAGCTGCATCCTGAGACCCGCGGTTCCGAGGATGCCAGCGCCATGCTGAGGCGCTTCTGGGCCGTGACCCC
AAGCAGGACGCCTTCTCCTGAGCAAGGGGCTGCAGGTGCGGGGCTGCGAGCCCGAGCCGAGGTCTGCTGAGGC
CTGGCACTGCGACTGCCAGTCTGGCCTGCGCTCCCGCCGCCCTGGTGCCTTAGCCCCCGGCACAGGATGGGGCA
GGCTCTGGCACAGTGCCTGGGACTGGCAGGGTGGCTGAGCGGCTGTCTTGCTCTTGTCATTGTCTGTCCCCACC
CGGTCTGGCCCCACCCGGCTAGAGACGGCGTCTCAAGGCATCTGGAGGGCTTTCTGTTGGCTGCCAGGGCCTGGTC
TTTGTGCTACTAACACGTCTCCTCTCTGGGAAACGTCCCTTGTGAGGAGACGGCTCTTCTTTGAAATGAGGTCAT
TAAAAGGAAAC

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FIGURE 5164

MKPPAACAGDMADAASPCSVVNDLRWDLQAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEVTY
TVQRNILDFFQHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYQRIVWLQEKVQKDSLRPEAARYLERLIKLR
RNLHLPRETQENIKRIKKKLSLLCIDFNKNLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLKVTLYPHYF
PLLKKCHVPETRRKVEEAFNCRCKEENCAILKELVTLRAQKSRLGFGHTHADYVLEMNMAKTSQTVATFLDELAQ
KLKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYMNOVEETRYCVDQNLLKEYFPVQVVTGGLGIYQE
LLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFDLYPREGKYGHAACFGLQPGCLRQDGSRQIAIAAMVA
NFTKPTADAPSLQHDDEVETVFHEFGHVMHQLCSQAEFAMFSGTHVERDFVEAPSQMLENWWVEQEPLLMSRHY
RTGSAVPRELLEKLIERSQANTGLFNLRLQIVLAKVDQALHTQTDADPAEYARLCQEILGVPATPGTNMPATFGH
LAGGYDAQYYGYLWSEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRRLGRDPKQDAFLSK
GLQVGGCEPEPQVC

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FIGURE 5165

CTGGGGGGCTTTTCGGATCGGCAGGATGTACCCCCAGGGAAGGCACCCGACCCCGCTCCAGTCCGGCCAGCCCTT
CAAGTTCTCGATCTTGAGATCTGCGACCGCATCAAAGAAGAATTCCAGTTTCTTCAGGCTCAATACCACAGCCT
CAAGCTAGAATGTGAGAAGCTGGCCAGCGAGAAGACGGAAATGCAGCGACATTATGTTCATGTATTATGAGATGTC
GTACGGGGCTCAACATTGAAATGCATAAGCAGGCGGAGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTAT
CCCCCTTCCTGACCCAGGAGCATCAGCAGCAGGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTACCCGTGGGGGA
GCTGAACAGCCTCATCGGGCAGCAGCTCCAGCCGCTGTCCACCACGCACCCCTGTGCCCTCACCCCCGCCC
AGCCGGGCTGGTGGGCGGCAGTGCTACGGGGCTGCTTGTCTGTCTGGAGCCCTGGCTGCCCAGGCTCAGCTGGC
GGCGGCTGTCAAGGAGGACCGTGCGGGCGTGGAGGCCGAGGGGTCCAGAGTGGAGAGAGCCCCGAGCAGGAGTGC
ATCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCGAGTGGCCCTGGTGGTGGCGGGAAGCAGAGAGC
AGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGTGGACGAGGA
CCAACCCTCAGAGCCCCCAGCCCGCTACCACCCCTGCGGAAAGGTACCCATCTGCATTCCTGCCCGTCGGGA
CCTGGTGGACAGTCCAGCCTCCTTGGCCTCTAGCCTTGGCTCACCGCTGCCTAGAGCCAAGGAGCTCATCCTGAA
TGACCTTCCCGCCAGCACTCCTGCCTCCAAATCCTGTGACTCCTCCCGCCCCAGGACGCTTCCACCCCCGGGCC
CAGCTCGGCCAGTCACCTCTGCCAGCTTGCTGCCAAGCCAGCACCTTCCACGGACAGCGTCGCCCTGAGGAGCCC
CCTGACTCTGTCCAGTCCCTTACCACGTCCTTCAGCCTGGGCTCCACAGCACTCTCAACGGAGACCTCTCCGT
GCCCAGCTCCTACGTCAGCCTCCACCTGTCCCCCAGGTCAGCAGCTCTGTGGTGTACGGACGCTCCCCCGTGAT
GGCATTGTAGTCTCATCCCCATCTCCGAGGGTCATCCGTCTCTTCCCTCCCTACCCAGCATCCCTGGGGGAAAGCC
GGCCTACTCCTTCCACGTGTCTGCGGACGGGCAGATGCAGCCGTTCCCTTCCCTCGGATGCACTGGTAGGCGC
GGGCATCCCGCGGCACGCCCCGGCAGCTGCACACGCTGCCCCATGGCGAGGTGGTCTGCGCGGTCACCATCAGCGG
CTCCACACAGCATGTGTACACGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGAC
GCCCGTGGCCAGCTCGACTGCCTGAACCGAGACAACCTACATTCGTTTCTGCAAGTTGCTGCCGGATGGCCGGAG
TCTGATCGTGGGCGGTGAGGCCAGCACCTTGTCCATTGGGACCTGGCGGCGCCACCCCCGTATCAAGGCCGA
GCTGACTTCCTCAGCCCCAGCCTGCTACGCCCTGGCCGTACCCCCGACGCCAAGGTTTGCTTCTCCTGCTGCAG
CGATGGCAACATTGTGGTCTGGGACCTGCAGAATCAGACTATGGTCAGGCAGTTCCAGGGCCACACGGACGGCGC
CAGCTGCATTGATATTTCCGATTACGGCACTCGGCTCTGGACAGGGGCTGGACAACACGGTGCCTGCTGGGA
CCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCCAGATTTTCTCCCTGGGGCCACTGCCCTAACCA
GGACTGGCTGGCGGTTCGGAATGGAGAGTAGCAACGTGGAGATCCTGCACGTCCGCAAGCCGGAGAAATACCAGCT
GCACCTCCACGAGAGCTGCGTGCTGTCCCTGAAGTTTGCCTCCTGCGGACGGTGGTTTGTGAGCACCGGGAAGGA
CAACCTGCTCAACGCCTGGAGGACGCCGTACGGGGCCAGCATTTTCCAGTCCAAGGAGTCGTCTCAGTCCTGAG
TTGTGACATCTCCAGAAATAACAAATACATCGTGACAGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGT
CTACTGAGACATGACCCCC

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FIGURE 5166

GCCGCACTGAGCCACAGCCCCGGGGGCCGCTCCCGGGGCCCTTGAGGCACTGAGGCACCGAGACTGGTTCTCC
CCGAGAGACTCGGAAGGTGGGGAACGAGGGGACTGTGTTTGGGGAGGTGGCTTTTTTCGTCTGCTGTTGACTGAAC
ACTACAGCGCCCTGTGGTTCCGGGCTTCGCACAGCTGTCCCAGGGATGGATCGCCTGTGCTGCCTTCGCCCGCCG
CCACACCGGGACCCTGCACGGCTGCTTCTGGCCTCGACAGATGACAAAAGAAACAGCCCCAAAATACGACCACTC
CAACCAGCAGTTCCCGCCTGCCTGCCCCGCACTGTCAGGCCTGCCCTGGCCTCCTCGTCCGCAGGGGCTGTCTGCT
GGCTTCTGGGGGCAGAAGAGCGGGGAGCCCCGTGGAAGGGTCAGGGGAGACCAGGTGAGGGCAGCTACATTTCTG
GTGATCAGCCCCATGGGGAGACGGGGCTGGCGGGATACCCCCCCCCGGCTTCCCCACACCACTTCTGTCTCACC
CGGAAGCGTCCTTTTTTTGTGCCAGGTGTCTACCTAAGAGGGTTGGTGCCAGAAGCCCCCATGGCGAGTGCTGG
GGCCCGGCGGTGCCCTGGGGGAGCAGATGGGGCCACCCCTGGCAGGGCCGCTACAACCTTTTCCAGCAGCGGAGC
CCTCTGGGGGGCCTGTGCTTGTGGCATCTCTGAGGGCCTAGATTGCACAAGGTGACCTGGCCGTGGCCTGAGGGT
GGAGTCGCCCAGCACGCAGGCCGGGGCGCTGCGGGGCTAAGTATTAGGCCTTCCAGGGAGGGGGCGTGCCAAGC
ATCCCAGAGCCGGGCTGGGACCGCCAAAACGTCTGTGGCCTGGATCCTCTGGGTCTGAGTGCTGATCCCCTGCCC
CCCCAAAAGCAGAGGTAGGTGTTGCAGGCCAGGGCAGGGGTGCCTGCCCCAGGAGAGTCCCAGGCAGTGGTTC
TCGTGCCAGTGGCACCCAGGGGCAAGGACAGCCAACCCCCACCCTTGCCACGTGTGGGGCCACGTGGGCATGTGG
GGTGTGTGTTTTTACCTTGGTGAATCTCACCTGCCAACGATTTCTCGTGAGTGCCAATGTCCCCCAGTGGTGCA
GCAGATCCTGTGGCCGGCCTGGCGGACGGGACCCAGTGATACTTGTATATTACACAGTCCTGATTTTCAGACAATT
TCAACCTTAATCTATTTAAAAAAGAATATTCTATACAAGCTGTTTTTAAGCCTTTTACCATTGAAATGCATGTG
TTGTGCGCGTTGGGGATGGGAGGAGGGGCTGAGGAGCGGCTCAGTGTACCTCCCACAGCCACCGGCCCTGACCC
TTAATCCAGACACCGATGGAAGTCGACTTTTCATATCTTTCTCCTGAAATGAACTCTGTTTTAAATTGGAATAAA
TTTTGTTCCT

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FIGURE 5167

MDRLCCLRPPPHRDPARLLLASTDDKRNSPKIRPLQPAVPACLPATVRPALASSSAGLSAGFWGQKSGEPRGRVR
GDQVRAATFLVISPMGRRGWRDTPFFASPHHFCLTRKRPFVPGVYLRGLVPEAPHGECWGPVPWGSRWGHPWQ
GRYNLFQQRSPLGGLCLWHL

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FIGURE 5168

GGCCGCCCCGGCGCCCCCAGCAGCCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCGCGCCCCCGCCGCGATTGA
CATGATGTTTCCACAAAGCAGGCATTCGGGCTCCTCGCACCTACCCAGCAACTCAAATTCACCACCTCGGACTC
CTGCGACCGCATCAAAGACGAATTTAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT
GGCCAGTGAGAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACATCGAGAT
GCACAAACAGGCTGAGATCGTCAAAGGCTGAACGGGATTTGTGCCCAGGTCCTGCCCTACCTCTCCCAAGAGCA
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTACCGCTCCCGAGCTGAACTCTATCATCCGACA
GCAGCTCCAAGCCCACCAGCTGTCCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA
GCCGCTTCGCTGCCGGCGGTACGCGCAGGCACCGGCCTCCTCTCGCTGTCCGCGCTGGGTTCCCAGGCCACCT
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATTAGCAGGG
GGCCGGGACAGGGAGGTTGGGAGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCAGCTT
GCAGGCCACCTCTAGCTTTCTTCTACCCCATTCCTCGGCTTCCCTCCTCCTCCCCTGCAGCCTGGTTAGGTGGAT
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCCGTTTTGAACATGTGTAACCGACAGTCTGCCTGGGCCACAGCCCT
CTCACCCCTGGTACTGCATGCACGCAATGCTAGCTGCCCCCTTCCCGTCCTGGGCACCCCGAGTCTCCCCCGACCC
CGGGTCCCAGGTATGCTCCACCTCCACCTGCCCCACTCACCACCTCTGCTAGTTCCAGACACCTCCACGCCAC
CTGGTCCTCTCCCATCGCCCAAAAAGGGGGGACGAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG
GGTGGGCGACCCAGGATTCCCCCTCCCCTTCCCAAATAAAGATGAGGGTACT

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FIGURE 5169

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA
GAGATGCGGCGGACCCTGACGCCTGCCAGCTCCCCAGTGTCTCGCCAGCAAGCACGGAGACCGCTTCATCCCC
TCCAGAGCCGGAGCCAACTGGAGCGTGAACCTCCACAGGATTAACGAGAATGAGAAGTCTCCAGTCAGAACCGG
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG
GGTGCCGGCATCGAGAAGGTGCAGGACCCGCAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG
GGTCTGTTACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC
TTCAAGGTGCTGGACGCGCCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGCTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG
GGCTTCGTGCAGATCTGGGACGCAGCCGCAGGGAAGAAGCTGTCCATGTTGGAGGGCCACACGGCACGCGTCGGG
GCGCTGGCCTGGAATGCTGAGCAGCTGTGCTCCGGGAGCCGCGACCGCATGATCCTGCAGAGGGACATCCGCACC
CCGCCACTGCAGTCGGAGCGGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC
CATCTCCTCGCCTCGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG
TACACGGAGCACCTGGCGGCCGTGAAGGCAATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC
GGCACAGCTGACCGCTGTATCCGCTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGTTACTCACAGAACCAGATC
CTTGTCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGCTGTACCTGGCA
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGTGGAGACGAGACCCTGAGGTTCTGGAACGTCTTTAGCAAA
ACCCGTTCGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTCACCAGGATCCGGTAA

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FIGURE 5170

MDQDYERRLLRQIVIQNENTMPRVTEMRRILTPASSPVSSPSKHGDRFIPSRAGANWSVNFHRINENEKSPSQNR
KAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQTEDRRLQPSTPEKKGLFTYSLSTKRSSPDDGNDVSPYSL
SPVSNKSQKLLRSPRKPTRKISKIPFKVLDAPELQDDFYLNLDWSSSLNVLSVGLGTCVYLWSACTSQVTRLCDL
SVEGDSVTSVGWSEGRNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARVGALAWNAEQLSGSRDRMILQRDIRT
PPLQSEERRLQGHRQEVCGLKWSTDHLLASGGNDNKLLVWNHSSLSPVQQYTEHLAAVKAIAWSPHQHGLLASGG
GTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGYSQNQILVWKYPSLTQVAKLTGHSYRVLYLA
MSPDGEAIVTGAGDETLRFWNVFSKTRSTKVKWESVSVLNLFTRIR

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FIGURE 5171

TTTCCCGAGATCACCAAG**ATG**CTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGGACCAAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTGCGGAAGATGAATGTGGCCTTCGAGGAGCAGAACGCGGTACTGCAG
AGGCAAAACGCAGAGCATGAGCAGCGCGCGAGCGTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCT
GGCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGGTGCCGGGCAC
GGGCGAAACGCCACGCTGGGCACTCTGGACTTCTACATGGCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGC
CCAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCAGGTCGCCAGCGAGCACCTGTGAGGAGTGGG
CGGGCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCACCCCGTGGACGAGAGGCTGGGGGT
CCACCCTTTGGGGCCTGGTCCCATCCTGCACCTTTGGGGGCTCCAGCCCCCTAAAATTAAATTTCTGCAGCATC
CCTTTAGCTTTCAATCTCCCCAGCCCCCTGAACCCGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTC
ACAGCCGAGGGTGCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGCCACCCCAAGGACACAGGG
CAGACGAAACCCACCCCAAGCACACGGCAGGACCCCAAAATTACTACTACGGGGGGCTGTGCCA**TAG**GCCACA
CAGGAAGCTGCCTTGTTGGGACTTACCTGGGGTGTCCTCCCGCATGCCTGTACCCAGATGGGTGGGGGCCGGCTT
TGCCCATCCTGCTCTCCTCCAGCCGAGGGACCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTT
AAATAAAAACAAGTAAAATTTGTGTTTTAAAA

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FIGURE 5172

MLGAEWSKLQPTKQRYLDEAEREKQQYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGDC
DGFSTFDVPIFTEEFLDQNKAREAE LRRLRKMNVA FEEQNAVLRQNAEHEQRARASGAGAGAGGAEDAGAAAAA
PGRAPGAHRQLRLTAGAGHGRNAHAGHSGL LHGPASRSHRARPRPAREAHRPHQGNP GPGRQRAPVRS GRAHDAE
EKLWARPCHTPPRGREAGGPPFGAWSH PAPLGAPAPLKLNFCSIPLAFNLPSPLNPEKALAARYTQKNLTAEGAP
PRRTATRYTGSPGHPQDTGQTKPTPSTRQDPPNYSLRGAVP

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FIGURE 5173

GCGCCAGGCCCGCTGGGGCAGGTGTCCCGTGGAATCGACGGAGGGGCTGCCGTGGGCGGCCGTGACAGTCACAG
AGAGGGGAAGAGAAAACAGGGACGGTGACACACACAGAGAGAAGGAAGAGCAGACAGAGGCACAGCAGGAGACCC
CCCCAAGCCCGAGGAGGACAGCCTGGGGATGCAGAGCACATGCCGGCCCCAGTGGAGGGAACCGATTTCCCCGGA
GCCGGGAGGCAAGCCTGGGGCTCCCCTGCCCTGTCCCTGCCGGTAGCCCCCCCAGCCGTCTCCCCACCATCTGTG
CCGCTGCCGTCCCACCAGGTGGGAGCC**ATG**TTCTGAGCCCCGGGCGAGGGGCCGGCAACCGAGGGTGGGGGTCTG
GGGCCGGGCGAGGAGGCCCCCAAGAAGAAGCACCGGAGGAACCGCACCACTTCACCACCTACCAGCTGCACCAG
CTGGAGCGGGCGTTTCGAGGCCTCTCACTACCCGGATGTGTACAGCCGTGAGGAGCTGGCAGCCAAGGTGCACCTA
CCTGAGGTGCGCGTGCAGGTGTGGTTCCAGAACCGCCGGGCCAAGTGGCGCCGCCAGGAGCGGCTGGAGTCAGGC
TCGGGTGCCGTGGCAGCTCCGAGACTCCCCGAGGCCCCAGCGTGGCGTTCGCCCCGCCCCCGGCCATGTGCTG
CCCCTGGAGCCCTGGTTGGGCCCCGACCGCCGGCCGTGCCAGGCCTCCCCCGCCTCCTGGGCCCCGGGCCCCGGG
CTGCAAGCGTCCCTTCGGGCCTCATGCCTTTGCTCCACCTTCGCAGATGGCTTCGCCCTGGAGGAGCGTCCCTG
CGGCTGCTGGCCAAGGAACATGCACAGGCTCTGGACAGGGCCTGGCCGCCAGCC**TGAG**CCCTGCCGCCCTCCCGG
CCCCCTCCTCGGCCAACCCGAGAACCGGGGACGTGCCCTGGTGACAGCCACCACGCCTTGGCCCTAGGCCGAGGT
CATGGAGCAACCGTGGTCAGGCCAGGCCACCACCACTGGGGAGCGGGACCAGAGAGACAGGCTGCTGGGTTCCT
GCCCCATCCCGTCTCCACCCCATCGCCACCCGTCTGTGCTGGCAGCGGACTGGCCCCAGTGTAGGCAGGAGG
TGACCCAAGTATTCTCAGGCCAGGTGCGGGGACCTCCTCCCCTCCTGGGGCCTCAGTCTCCTGTCTGTTAATTGG
GCGTGGGGGCCTCCGAGGTTTCGAGGGCTGCGAGGCTGTGGGTGGCGGGACCGTGACTCTGTAAAGATGAGTGTA
ATCTCTCTGCTTCTCCTAATCCCCATCAGCAGAGCTGCCCACTCTCCAGGCTCCCAGTCCCCTGGAAATAACAAA
TAGCAGCAGCTCCCGCGAGCCTGGTCTCCTCTCACCGTGTGCTCGCCATGTGAGCACTCCCCTCTCCGTTGTGCC
CTGGACCTCGGGCACAGCTGTCAGCCCATCTATAGAGAGGGAAACCGGGGCTTAGGCAGGAAGCCAGGTCCCCA
AAGTCGCACGGCCAGGAGTGGATGGAGCTGCCTTTCAGACCCATCACCGGTCTTACCGTCCGGGGCACAGCGACA
GGTTCTGGAGAGAGGGTGGGTCCCGGGCCAGGTGCTGGTGGGCCTCCAGGTGGAGGCGGGCTGATGCTGGGTGTG
TCGTCACTGCTCAGACCGTTCCTCACGTCCCCACAGACCCAGGCCCTGTGCATGTCCCCAGTGGAGGCATGGCCA
GCATCTGCTCTGTCCAACCCAGTCGCATCGCCCAAGAGCTCTGAGCAAGGAGGCTGTGCGGGGGCCGAGAACCCG
CTGGGACTGGCAAGCACGGCTGGCCCAGTGCAGCAGGAGGGGGCCCTGAGGCATGGGATGGGACAGTCTGGGGCCA
GCGCCACCTCCCGGGACAGAAGTGCGGCACACAGGGCAGGAGCTGCAGTAGCTACCCTCCCCGTCTCCAGCCTGGG
CTCCCCAGATCACTCCCAGATCACAGGTCACCCCATCTCTAGGCGGCACCTCACACACCAGTCCCTGTGGTCCAA
CGCCCCGCCATCACCCAATGTCACCGCACACACAGGCAGTGGGGACACGGCAGTAAGCACAAGAAAGATTTTTTTT
TTTTTAAAGCTAAACCAGGCCAGGTGCGGTGGCTCATGCCTGTAATCCAGTGCTTTGGGAGGCTGAGGTGGGAG
GATTGCTTGAGACCAGCCTGGGTGACACAGCAAGACCCCATCTCCACAAACGTTTTTAAATGTGCCGGGTGTAC
TGGTGACACCTGTCATCCAGCTACCCAAGAAGCTGAGGCAAGAGGATCACTTGAGCCCAGAAGGTGAGGCTG
CAGGGAGCTGTGATCACACTGCTGCACTCCAGCCTGTGCAACAGAGCCAGACCCTGACTCAATACAAATAAAAC
CAAATCTAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5174

MFLSPGEGPATEGGGLGPGEEAPKKKHRRNRRTTFTTYQLHQLERAFEASHYPDVYSREELAAKVHLPEVRVQVWF
QNRRAKWRRQERLESGSGAVAAPRLPEAPALPFARPPAMSLPLEPWLPGPPAVPGLPRLLGPGPGLQASFGPHA
FAPTFADGFALEEASLRLLAKEHAQALDRAWPPA

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FIGURE 5175

GGCCGGCGGCGGCGGCGGCGGCGGCGGAGGAGACCGCAGTGCGGCCGGCGCTAGGACCCGCGGGGGCCTCCCAGGCC
GCGGCGCCTCCCGCTTTCCCCCACTCCCCGACCCTTCTTCGCCCCCAAATGAGGAAACGGAGCAACTCGCTCCA
AGTTGTGCAGCCGGGACCGCTCGGGGTGTGCAGCCGGCTCGCGGAGGCCCTCCTGGGGGCGGGCGCGGGGCGCG
GCTCGGGGGCGCCCCCTGAGCAGAAAAACAGGAAGAACCAGGCTCGGTCCAGTGGCACCCAGCTCCCTACCTCCTG
TGCCAGCCGACTGGCCTGTGGCAGGCCATTCCCAGCGTCCCCGACTGTGACCACTTGCTCAGTGTGCCTCTCACC
TGCCTCAGTTTCCCTCTGGGGGCGATGGCGGGGCGAGGCTCTCTGGTTTCTGGCGGGCATTTCACGGCTGTGAT
TCTGCTGAGGAACTTCCCCGGGTGAGCCCCCGCTTCTCCGAGCCTGGCACCCCCCTCCCGTCTCAGCCAGGATG
CCAACGAGGCGCTGGGCCCCGGGCACCCAGTGTATCACCAAATGCGAGCACACCCGCCCCAAGCCAGGGGAGCTG
GCCTTCCGCAAGGGCGACGTGGTCAACATCCTGGAGGCCTGCGAGAACAAGAGCTGGTACCGCGTCAAGCACCAC
ACCAGTGGACAGGAGGGGCTGCTGGCAGCTGGGGCGCTGCGGGAGCGGGAGGCCCTCTCCGCAGACCCCAAGCTC
AGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGCAGCCTCCCGAGGATGGG
CTGTTCTGTGTCGGGAGTCCGCGCGCCACCCCGCGACTACGTCTGTGCGTGAGCTTTGGCCGCGACGTATC
CACTACCGCGTGCTGCACCGCGACGGCCACCTCACAATCGATGAGGCCGTGTTCTTCTGCAACCTCATGGACATG
GTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTGGTGAGACCAAAGCGGAAACACGGGACCAAG
TCGGCCGAGGAGGAGCTGGCCAGGGCGGGCTGGTTACTGAACCTGCAGCATTGACATTGGGAGCACAGATCGGA
GAGGGAGAGTTTGAGCTGTCCTGCAGGGTGAGTACCTGGGGCAAAGGTGGCCGTGAAGAATATCAAGTGTGAT
GTGACAGCCCAGGCCTTCTGGACGAGACGGCCGTCATGACGAAGATGCAACACGAGAACCTGGTGCGTCTCCTG
GGCGTGATCCTGCACAGGGGCTGTACATTGTCATGGAGCACGTGAGCAAGGGCAACCTGGTGAACTTTCTGCGG
ACCCGGGGTCGAGCCCTCGTGAACACCGCTCAGCTCCTGCAGTTTTCTCTGCACGTGGCCGAGGGCATGGAGTAC
CTGGAGAGCAAGAAGCTTGTGCACCGCGACCTGGCCGCCCGCAACATCCTGGTCTCAGAGGACCTGGTGGCCAAG
GTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGCCCCGTCAAGTGGACGGCG
CCCGAGGCTCTCAAACACGGGAAGTTACACAGCAAGTCGGATGTCTGGAGTTTGGGGTGCTGCTCTGGGAGGTC
TTCTCATATGGACGGGCTCCGTACCCTAAAAATGCACTGAAAGAGGTGTGCGAGGCCGTGGAGAAGGGGTACCGC
ATGGAACCCCCCGAGGGCTGTCCAGGCCCCGTGCACGTCTCATGAGCAGCTGCTGGGAGGCAGAGCCCCGCCGC
CGGCCACCCTTCCGCAAACTGGCCGAGAAGCTGGCCCCGGGAGCTACGCAGTGCAGGTGCCCCAGCCTCCGTCTCA
GGGCAGGACGCGGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCCTGACCCACCCGGTGGGGCCCTTGGCCCCA
GAGGACCGAGAGAGTGGAGAGTGCGGCGTGGGGGCACTGACCAGGCCCAAGGAGGGTCCAGGCGGGCAAGTCATC
CTCCTGGTGGCCACAGCAGGGGCTGGCCACGTAGGGGGCTCTGGGCGGCCCGTGGACACCCAGACCTGCGAAG
GATGATCGCCCGATAAAGACGGATTCTAAGG

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FIGURE 5176A

GGAAGCCGAGCCTCTGCCAGCCCTGAGCTGGGAAGAAGCAGCTACCTCGGAGGCAGGGCGCGCAGGCGGGCGGGCG
ATGAGAGGGGGCGCAGCCGAGCCCCGCGCTGGGGAGCCCACCGCTAACCCCTGCACCCACCCACCCCTGCACAA
AAGAGCTGGCGGGCGCTGGCCACGTCGCCCTGGGTGACCTTCCTCGGATGCAGAATCCGCCCCCTGCGAGCATCCT
CTTCTCCTAGGCTCTGAAGGCCCGGGGAGCGTGAGCGATGCCAGCTGCACCCGGGCAGGGCTCGCCTTTGTTT
GCCAGTAAGGAGGAGAGGCTGTCTCAGCTGCAGAGGGGTATCCCTGCTTCAAGCCAGTGCCCTTTCCCAGCTCC
CATGGGGACCACCGAAGCCACGCTCCGGATGGAAAACTGGACGTGAAGGAGGAATGGCAGGACGAAGATCTTCC
CAGGCCACTCCCAGAAGAGACGGGGGTGAACTGCTTGGCAGCCCGGTGGAAGACACATCCTCTCTCCCAACAC
GCTAAATTTCAACGGAGCGCATCGTAAGAGGAAGACGCTGGTGGCCCCAGAGATCAACATTTCTCTGGATCAGAG
TGAGGGGTCCCTGCTGTCCGATGACTTCTTGGATACCCCTGATGACCTGGATATTAACGTGGATGACATCGAGAC
CCCCGATGAGACCGACTCGCTGGAGTTCTTGGGAATGGCAACGAACCTGGAGTGGGAAGACGACACCCCCGTGGC
CACCGCCAAGAATGCCCCGGGGACAGCGCGGATCTATTTGGGGACGGCACGACGGAGGACGGCAGCGCCGCCAA
CGGGCGCCTGTGGCGGACAGTGATCATCGGGGAGCAAGAGCACCGTATAGACCTGCACATGATCCGGCCTTACAT
GAAAGTGGTCACCCACGGAGGGTACTACGGCGAAGGCCTCAACGCCATCATCGTCTTCGCAGCCTGCTTCTTCC
AGACAGCAGCCTCCCCGACTACCACTACATCATGGAGAACCTCTTCTGTACGTCATCAGCAGCTTAGAGCTCCT
GGTGGCTGAGGACTACATGATCGTGACCTGAACGGTGCCACGCCCCGGCGGAGGATGCCTGGAATCGGCTGGCT
GAAGAAGTGCTACCAGATGATCGACCGGAGGTTGCGGAAAACTGAAGTCTTGATCATCGTCCACCCCTCGTG
GTTCAATTCGACTGTGCTGGCCATCTCTCGCCCTTTCATCAGCGTCAAGTTCATCAACAAGATCCAGTACGTGCA
CAGCTTGGAAGACCTGGAGCAACTCATCCCTATGGAACACGTCCAGATCCAGACTGCGTCTTGCAATACGAAGA
GGAAAGACTGAAGGCCAGGAGGGAGAGCGGAGGCCCCAGCCGGAGTTTGTGCTGCCCAGGTCTGAAGAGAAGCC
AGAGGTGGCACCAGTGGAAAAACAGGTCTGCTCTGGTCTCAGAAGATCAGGAAACAAGCATGTCT**TGAG**GGCGACGT
GAGCATAACAAAGGACATGGAAGAAGATTCCAGATGCCAGAAAACCTCTGTGACAGCCCCACTGGCCCCAGATCT
CATCCTGCCTCATCCTGAGTCCCAATCTTCCAAGGGTGCCAGCCCCCTCCGTTTCATCTCTGAAACCCAGCATCCTT
TTCAGCTGCTTGAAAACATTGTATTTTTTTTTTTTAAACGATGCAGTATTTGTGCGTTCCAGAAAAGGGCCCAGCT
CTGAGCCCCCTACCCCTTCCACACTCACGAACTCTCAGCCGAGGAAGGCAAGAAGCGCAGGGGGGTGGCCCCGCTGG
CGTCGGTGGCCTCCGCTCCTGCTCGCAGCCTCTGTGGTCAGAGCTGGATACAAGATTCAAGACCCCTTCTCTTGCT
TGTCACCCGCTCCAGGTTGGAGCCACAGACACCCACCGCCACCCCGGCTGGGTCTGCGTCCCTTTCTGTGCCTTT
CCCTCCAGAATGCGGCCTCAGACCTAGAAGCTCAACCCCCCTATGAGGGCCACGTCTGGGGTAGCTCCTGACCT
CCGACCTTATGTCCAAATTTACACCCATGGTTTTTTCATTTGACCCGCCCCCTTCTCGCTCATAATGACACCCAG
CTCCTTTGAGAGGATCAGAGCCCATTGCACAAGAAGAGCCGCTGCCAACCATCCTTGTCTCCGATTGCAAAATG
ACACCCAGTAATCTAGAACATTCTCAAGCCCCTTTAACTCAGATGTCAAGCCACCGGGCAAACCCCGTCAATAC
CTCCCAACCAAGGAATGAGATATGTGGACCTCACTGCTCCCCCAACCCAGCGTCAGGCTGGGACACGCCAACGCTG
TTCCGGGTTTGAACAGCAGAGGCTCAGAAACTGGCTCTGAAATAGGCAGACCTAGCAAGAGGAAGATACAGGGTA
TCGGGCGTTTGAAGTGTTCAGAAGTCATTGCGGAAGATAAATCCAGTGCGCTGGCCGCAGCCACCTGCATTCAA
GCTTGGACCAGCGGTTCTTGTTCGGGAGGCAAATTTCCCTAGGAAAAAGAAGACAGACTTTTCTAATGTGGTCC
AAATGCGGATCACTGGTCAGATGGACTCTAGAAGCACTGAGCTCCCTGTCTCTGGAAGTATTTAAGAAAAGGCTG
GGCCAGGCACGATGGCTCAGCCTGTAATCCAGACTTTGGGAGGCGGAGGCAGGCGGATCACCTGAGGTGAGGA
GTTTGAGAACAGCCTGGCCAACATGGTGAAACCTCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGC
AGGTGCCTGTAATCCAGCTACTTGGGAGGCTGAGGCATGAGAATCACTTAAACCTGAGAGGCAGAGGTTACAGT
GAGCCAAGATCGTGCCACTGCATTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAATAAAAAATAAT
CAGGGCACAGTGGCTCATGCCTGTAATCCAGCACTCTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGAGGAG
TTCAAGACCAGCCTGGTGAACATGGCGAAACCCGCTCTAATAAAAAATACAAAAATTAGCCGGGCATGGTGGTG
CATGCCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAACCCAGGAGGCAGAGGTTGCAGTG
ATCCAAGATCATGCCACTGCACTCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAATAAAAAAGAAAAGAAA
AGAATGGACAGTGTTTGCAGAGAGTTGCTCACGAGTTTCCCTCTAATCCTAAATGTCTTCATGTCTATCAGTCTG
AGCAGACGGTGAGTAGGGCGGGCACATTCTCCAGGCCCTTCTTCTAGCTCTGTGGTTGACCTCTCAGCAAGTGC
TATCCAGGCTGGGCCAACAGACCCACAATTAAGTGGCCTCAGTGAAAGCGTCCAGTGATCTTGACCTGAGAC
AGCAAGGAATTGCATTGGGGTTATTCCAACGATGATGGCAGGGAACCTGGTGGTATTTAGTGCTGAGGGGCGAGTG
ATACAGAAAGATTTGCCCTGTGGGACAGGGTCTGCGCGAGTCCCATCCCCAAAAGCCAGCAGCTCCTGCCATGA

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FIGURE 5176B

GGAAGACGGGGTTTCTGAGCAGGCTTATGCCTGCAGGTTTCCTGTGGAGCCACCGGCTGTGACGGGACACCTCTGG
GTCTCAGCATTGCCCTGGGGAGGCTGGGACATTTAGGGACATGGTAGGGTTTTAACATTTGTTTCCCAAATGTCA
AATCCCGGGCACAGGGGCAAGACCCTGTCCCGAATTCCCACCCAGTGAATGGTGTGCTGCTGCCAAAGCCAACACA
AGATGACAAAAGTGGCTGGGTACGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGACCGAGACAGGTGGATC
ACCTGAGGTCAGGAGTTCGAGACCAGGCTGGCCAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATTAG
CTGGGTGTGGTGGCGCGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGTAGAAGAATAGCTGGAACCCAGGAG
GCAGAGATTGCAGTCAGCCGAGATTGCACCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTGACTCAAAAAGAA
AAAAAATGACAGAAGCCTGATTATCAGACTGCCCCGGAGGAGACAGGCTCCAGCAGATAGATGCCAGCCAGGCCCA
GCTGCCACGATTTGTCCAGGTGACCAAAGGCACGCAGCTCCAGCATGAATCGTTCTAACCCAACAGTGACAAGA
ACTGCTGGGCCTTAACCGTCATGGAAGACTGGGGCCGCTTCCAAGTCACAGACAGGAGACGGGGACAGGAAAGAA
CTCATTCCACCCAATCGGACACCTAATAATTGAGTGTCTACAGCAGCAATCAAGTGACAAGTGAGGCCCTACCTG
ACCCAGAAGGTGCCTGCCGGCTAAACATTCTGCCCCCACCAGAACTCCAGGGGGTCCGCCCCGTTATGCCGTGGC
CCACCCACGCCCCCTTTGGATCACCAGCAGTCACAGACAACAGGCAGGCGAACTGAAGACCCCAACTCAGCCCCA
GCGGACCCCTCCAGAGCAAAAGAGGCCCCCGGCGAGGCCACCTGTGCGCAGGCATGCCGAGGTCAAACAGCCGGGG
CCACCGTTCCCAGCTGGGCCACGACCTGCACCGTCCACAGATGGGCTTTGAGATGGATTTGTATCAGGGTGGGGG
GTGTGGTTTGGCCAAAATGCAATGGACCCGACCCCTCCTCGTAAAAGGATGTTGGGTTTCCCTCTGGTGACACA
TGGGATGCGTCATAAACCCCTCCCCAAAGTCCTGGTCAGCAGCCCATCCTTCCAACGATGAGTTTTGCGGTTTTT
CAGAACAGAAATGATCACTACGATTGACGACGGTCGTGATGTTAAGACGTCGTCTCCATGAGCTTTGGGGGGACT
TTTATGTGGAATAAAGAACTATCACTG

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FIGURE 5177

MGTTEATLRMENVDVKEEWQDEDLPRPLPEETGVVELLGSPVEDTSSPPNTLNFNGAHRKRKTLVAPEINISLDQS
EGSLLSDDFLDTPDDLDINVDDIETPDETDSEFLGNGNELEWEDDTPVATAKNMPGDSADLFGDGTTEGSAAN
GRLWRTVIIGEQRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMENFLYVISSLELL
VAEDYMIIVYLNATPRRRMPGIGWLKKCYQMIDRRLRKNLKSIIIVHPSWFIRTVLAISRPFISVKFINKIQYVH
SLEDLEQLIPMEHVQIPDCVLQYEEERLKRRESARPQPEFVLPRSEEKPEVAPVENRSALVSEDQETSMS

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FIGURE 5178

ATGGTTAATTTTACGGTGGATCAGATCCGCGCCATCATGGACAAGAAGGCCAACATCCGCAACATGTCTGTCATC
GCCCACGTGGACCATGGCAAGTCCACGCTGACAGACTCCCTGGTGTGCAAGGCGGGCATCATCGCCTCGGCCCGG
GCCGGGGAGACACGCTTCACTGATACCCGGAAGGACGAGCAGGAGCGTTGCATCACCATCAAGTCAACTGCCATC
TCCCTCTTCTACGAGCTCTCGGAGAATGACTTGAACCTTCATCAAGCAGAGCAAGGACGGTGCCGGCTTCCCTCATC
AACCTCATTGACTCCCCCGGGCATGTGCACTTCTCCTCGGAGGTGACTGCTGCCCTCCGAGTCACCGATGGCGCA
TTGGTGGTGGTGGACTGCGTGTGAGGCGTGTGCGTGCAGACGGAGACAGTGCTGCGGCAGGCCATTGCCGAGCGC
ATCAAGCCTGTGCTGATGATGAACAAGATGGACCGCGCCCTGCTGGAGCTGCAGCTGGAGCCCGAGGAGCTCTAC
CAGACTTTCCAGCGCATCGTGGAGAAGCTGAACGTTCATCATCTCCACCTACGGCGAGGGCGAGAGCGGCCCATG
GGCAACATCATGATCGATCCTGTCTCCTCGGTACCGTGGGCTTTGGGTCTGGCCTCCACGGGTGGGCCCTTCACCCTG
AAGCAGTTTGCCGAGATGTATGTGGCCAAGTTCGCCGCCAAGGGGAGGGCCAGTTGGGGCCTGCCGAGCGGGCC
AAGAAAAGTAGAGGACATGATGAAGAAGCTGTGGGGTGACAGGTACTTTGACCCAGCCAACGGCAAGTTCAGCAAG
TCAGCCACCAGCCCCGAAGGGAAGAAGCTGCCACGCACCTTCTGCCAGCTGATCCTGGACCCCATCTTCAAGGTG
TTTGATGCGATCATGAATTTCAAGAAAGAGGAGACAGCAAACTGATAGAGAACTGGACATCAAACTGGACAGC
GAGGACAAGGACAAAGAAGGCAAACCCCTGCTGAAGGCTGTGATGCGCCGCTGGCTGCCTGCCGGAGACGCTTG
TTGCAGATGATCACCATCCACCTGCCCTCCCCTGTGACGGCCCAAGTACCGCTGCGAGCTCCTGTACGAGGGG
CCCCCGGACGACGAGGCTGCCATGGGCATTAAAAGCTGTGACCCCAAAGGCCCTCTTATGATGTATATTTCCAAA
ATGGTGCCAACCTCCGACAAAGGTGCGTTCTACGCCTTTGGACGAGTCTTCTCGGGGCTGGTCTCCACTGGCCTG
AAGGTCAGGATCATGGGGCCCAACTATAACCCCTGGGAAGAAGGAGGACCTCTACCTGAAGCCAATCCAGAGAACA
ATCTTGATGATGGGCCGCTACGTGGAGCCCATCGAGGATGTGCCTTGTGGGAACATTGTGGGCCTCGTGGGCGTG
GACCAGTTCCTGGTGAAGACGGGCACCATCACACCTTCGAGCACGCGCACAAATGCGGGGTGATGAAGTTCAGC
GTCAGCCCTGTTGTCAGAGTGGCCGTGGAGGCCAAGAACCCGGCTGACCTGCCCAAGCTGGTGGAGGGGCTGAAG
CGGCTGGCCAAGTCCGACCCCATGGTGCAGTGCATCATCGAGGAGTCGGGAGAGCATATCATCGCGGGCGCCGGC
GAGCTGCACCTGGAGATCTGCCTGAAGGACCTGGAGGAGGACCACGCCTGCATCCCCATCAAGAAATCTGACCCG
GTCGTCTCGTACCGCGAGACGGTCAGTGAAGAGTGAACGTGCTCTGCCTCTCCAAGTCCCCCAACAAGCACAAAC
CGGCTGTACATGAAGGCGCGGCCCTTCCCCGACGGCCTGGCCGAGGACATCGATAAAGGCGAGGTGTCCGCCCGT
CAGGAGCTCAAGCAGCGGGCGCGCTACCTGGCCGAGAAGTACGAGTGGGACGTGGCTGAGGCCCGCAAGATCTGG
TGCTTTGGGCCCCGACGGCACCGGCCCAACATCCTCACCGACATCACCAAGGGTGTGCAGTACCTCAACGAGATC
AAGGACAGTGTGGTGGCCGGCTTCCAGTGGGCCACCAAGGAGGGCGCACTGTGTGAGGAGAACATGCGGGGTGTG
CGCTTCGACGTCCACGACGTACCCCTGCACGCCGACGCCATCCACCGCGGAGGGGGCCAGATCATCCCCACAGCA
CGGCGCTGCCTCTATGCCAGTGTGCTGACCGCCAGCCACGCCTCATGGAGCCCATCTACCTTGTGGAGATCCAG
TGTCCAGAGCAGGTGGTTCGGTGGCATCTACGGGGTTTTGAACAGGAAGCGGGGCCACGTGTTGAGGAGTCCAG
GTGGCCGGCACCCCCATGTTTGTGGTCAAGGCCTATCTGCCCGTCAACGAGTCCTTTGGCTTCACCGCTGACCTG
AGGTCCAACACGGGCGGCCAGGCGTTCCCCAGTGTGTGTTTGACCACTGGCAGATCCTGCCCGGAGACCCCTTC
GACAACAGCAGCCGCCCCAGCCAGGTGGTGGCGGAGACCCGCAAGCGCAAGGGCCTGAAAGAAGGCATCCCTGCC
CTGGACAACCTTCCCTGGACAAATTG**TAG**GCGGCCCTTCTGTCAGCGCCTGCCGCCCCGGGGACTCGCAGACCCAC
AGCACACGTCTCTGAATTCTCAGACGACACCTGGAGACTGTCCCGACACAGCGACGCTCCCCTGAGAGGTTTCT
GGGGCCCGCTGCGTGCATCACTCAACCATAACACTTGATGCCGTTTCTTTCAATATTTATTTCCAGAGTCCGGA
GGCAGCAGACACGCCCTCTTAGTAGGGACTTAATGGGCCGGTGGGGAGGGGAGGCGGGATGGGACACCCAACA
CTTTTCCATTTCTTCAGAGGGAACTCAGATGTCCAACTAATTTTAACAAACGCATTAAGAGGTTTATTTGGG
TACATGGCCCCGAGTGGCTTTTGGCCCAAGGGGAAAGGAACACGCGGGTAGATGATTTCTAGCAGGCAGGAA
GTCCTGTGCGGTGTCACCATGAGCACTCAGCTGTACTAGTGCCATTGGAATAATAAATTTGATAAGGTGTGAAAA

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FIGURE 5179

MVNFTVDQIRAIMDKKANIRNMSVIAHVDHGKSTLTDSLVCAGIIASARAGETRFTDTRKDEQERCITIKSTAI
SLFYELSENDLNFIKQSKDGAGFLINLIDSPGHVDFSSEVTAALRVTDGALVVVDCVSGVCVQTETVLRQAIAER
IKPVLMMNKMDRALLELQLEPEELYQTFQRIVENVNVIISTYGEGESGPMGNIMIDPVLGTVGFGSGLHGWAFTL
KQFAEMYVAKFAAKGEGQLGPAERAKKVEDMMKKLWGDYFDPANGKFSKSATSPEGKKLPRTFCQLILDPIFKV
FDAIMNFKKEETAKLIEKLDIKLDSKDKKEGKPLLKAVMRRWLPAGDALLQMITIHLPSVTAQKYRCELLYEG
PPDDEAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGLVSTGLKVRIMGPNYTPGKKEDLYLKPIQRT
ILMMGRYVEPIEDVPCGNIVGLVGVDQFLVKTGTITTFEHAHNMRVMKFSVSPVVRVAVEAKNPADLPKLVEGLK
RLAKSDPMVQCIIIESGEHIIAGAGELHLEICLKDLEEDHACIPIKKSDPVVSYRETVSEESNVLCCLSKSPNKH
RLYMKARPPDGLAEDIDKGEVSARQELKQRARYLAEKYEWDAEARKIWCFGPDGTGPNILTDITKGVQYLNEI
KDSVVAGFQWATKEGALCEENMRGVRFDVHDVTLHADAIHRGGGQIIPTARRCLYASVLTAAQPRLMEPIYLVEIQ
CPEQVVGGIYGVNLNRKRGHVFEESSQVAGTPMFVVKAYLPVNESFGFTADLRSTGGQAFPCVFDHWQILPGDPF
DNSSRPSQVVAETRKRKGLKEGIPALDNFLDKL

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FIGURE 5180

CCCCCTGCCTCTCGGACTCGGGCTGCGGCGTCAGCCTTCTTCGGGCCTCGGCAGCGGTAGCGGCTCGCTCGCCTCA
GCCCCAGCGCCCTCGGCTACCTTCGCCCCAGGCCCGCAGCGCCGCCCGCCCTCGGCCGCCCCGACGCCGGCCTG
GGCCGCGGCCGCGAGCCCCGGGCTCGCGTAGGCGCCGACCGCTCCCGGCCCGCCCCCTATGGGCCCCGGCTAGAGG
CGCCGCCGCCGCGGCCCGGAGCCCCGATGCTGGCCCCGAGGAAGCCGGTGCTGCCGGCGCTCACCATCAACC
CTACCATCGCCGAGGGCCCATCCCTACCAGCGAGGGCGCCTCCGAGGCAAACCTGGTGACCTGCAGAAGAAGC
TGGAGGAGCTGGAACCTTGACGAGCAGCAGAAGAAGCGGCTGGAAGCCTTTCTCACCAGAAAGCCAAGGTGGCG
AACTCAAAGACGATGACTTCGAAAGGATCTCAGAGCTGGGCGCGGGCAACGGCGGGGTGGTCACCAAAGTCCAGC
ACAGACCTTCGGGCCTCATCATGGCCAGGAAGCTGATCCACCTTGAGATCAAGCCGGCCATCCGGAACCAGATCA
TCCGCGAGCTGCAGGTCCTGCACGAATGCAACTCGCCGTACATCGTGGGCTTCTACGGGGCCTTCTACAGTGACG
GGGAGATCAGCATTTGTCATGGAACACATGGACGGCGGCTCCCTGGACCAGGTGCTGAAAGAGGCCAAGAGGATTC
CCGAGGAGATCCTGGGGAAAGTCAGCATCGCGGTTCTCCGGGGCTTGCGGTACCTCCGAGAGAAGCACCAGATCA
TGCACCGAGATGTGAAGCCCTCCAACATCCTCGTGAACCTCTAGAGGGGAGATCAAGCTGTGTGACTTCGGGGTGA
GCGGCCAGCTCATCGACTCCATGGCCAACCTCCTTCGTGGGCACGCGCTCCTACATGGCTCCGGAGCGGTTGCAGG
GCACACATTACTCGGTGCAGTCGGACATCTGGAGCATGGGCCTGTCCCTGGTGGAGCTGGCCGTCCGAAGGTACC
CCATCCCCCGCCCGACGCCAAAGAGCTGGAGGCCATCTTTGGCCGGCCCGTGGTCGACGGGGAAGAAGGAGAGC
CTCACAGCATCTCGCCTCGGCCGAGGCCCGCCCGGGCGCCCCGTCAGCGGTACGGGATGGATAGCCGGCCTGCCA
TGGCCATCTTTGAACTCCTGGACTATATTGTGAACGAGCCACCTCCTAAGCTGCCCAACGGTGTGTTACCCCCG
ACTTCCAGGAGTTTGTCAATAAATGCCTCATCAAGAACCCAGCGGAGCGGGCGGACCTGAAGATGCTCACAAACC
ACACCTTCATCAAGCGGTCCGAGGTGGAAGAAGTGGATTTTGCCGGCTGGTTGTGTAAACCTGCGGTGAACCAG
CCCGGCACACCCACGCGCACCGCCGTGTGACAGTGGCCGGGCTCCCTCGGTCCCGCTGGTGACCTGCCCACCGTC
CCTGTCCATGCCCCGCCCTTCAGCTGAGGACCGTGGCGCCTCCACCCACCCTCCTGCCTCACCTGCGGAGAGC
ACCGTGGCGGGGCGACAGCGCATGCAGGAACGGGGGTCTCCTCTCCTGCCGTCTGGCCGGGGTGCCTCTGGGGA
CGGGCGACGCTGCTGTGTGTGGTCTCAGAGGCTCTGCTTCCTTAGGTTACAAAACAAAACAGGGAGAGAAAAAGC

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FIGURE 5181

GCTTCCGGCGGAAGCGGCCTCAACAAGGGAAACTTTATTGTTCCCGTGGGGCAGTCGAGGATGTCGGTGAATTAC
GCGGCGGGGCTGTCGCCGTACGCGGACAAGGGCAAGTGCGGCCTCCCGGAGATCTTCGACCCCCGGAGGAGCTG
GAGCGGAAGGTGTGGGAAGTGGCGAGGCTGGTCTGGCAGTCTTCCAGTGTGGTGTTCACACGGGTGCCGGCATC
AGCACTGCCTCTGGCATCCCCGACTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCC
AAGTTTCGACACCACCTTTGAGAGCGCGCGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGC
CTCCTCCGCTTCTGGTCAGCCAGAAGTGGACGGGCTCCATGTGCGCTCAGGCTTCCCCAGGGACAAACTGGCA
GAGCTCCACGGGAACATGTTTGTGAAGAATGTGCCAAGTGTAAAGACGCAGTACGTCCGAGACACAGTCTGGGC
ACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAG
CTGAGGGACACCATCCTAGACTGGGAGGACTCCCTGCCCCGACCGGGACCTGGCACTCGCCGATGAGGCCAGCAGG
AACGCCGACCTGTCCATCACGCTGGGTACATCGCTGCAGATCCGGCCCAGCGGGAACCTGCCGCTGGCTACCAAG
CGCCGGGGAGGCCGCCTGGTCATCGTCAACCTGCAGCCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCAT
GGCTACGTTGACGAGGTGATGACCCGGCTCATGGAGCACCTGGGGCTGGAGATCCCCGCTGGGACGGCCCCCGT
GTGCTGGAGAGGGCGCTGCCACCCCTGCCCCGCCCCACCCCCAAGCTGGAGCCCAAGGAGGAATCTCCACC
CGGATCAACGGCTCTATCCCCGCCGGCCCCAAGCAGGAGCCCTGCGCCAGCACAAACGGCTCAGAGCCCGCCAGC
CCCAAACGGGAGCGGGCCACCAGCCCTGCCCCCACAGACCCCCAAAAGGTGAAGGCCAAGGCGGTCCCCAGC
TGACCAGGGTGCTTGGGGAGGGTGGGGCTTTTTGTAGAACTGTGGATTCTTTTTCTCTCGTGGTCTCACTTTGT
TACTTGTCTGTCCCCGGGAGCCTCAGGGCTCTGAGAGCTGTGCTCCAGGCCAGGGGTTACACCTGCCCTCCGT
GGTCCCTCCCTGGGCTCCAGGGGCTCTGGTGGGTTCCGGGAAGAAGCCACACCCAGAGGTGACAGCTGAGCC
CCTGCCACACCCAGCCTCTGACTTGCTGTGTTGTCCAGAGGTGAGGCTGGGCCCTCCCTGGTCTCCAGCTTAAA
CAGGAGTGAATCCCTCTGTCCCCAGGGCCTCCCTTCTGGGCCCCCTACAGCCCACCCTACCCCTCCTCCATGGG
CCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACTGCCTTTGGGGCTGGAGGGAGA
CGTGGGTCCACCAGGCTTCTGAAAAGTCCTCAATGCAATAAAAACAATTTCTTTCTTGCAAA

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FIGURE 5182

MSVNYAAGLSPYADKGKCGLPEIFDPPEELERKQWELARLVWQSSSVVFHTGAGISTASGIPDFRGPHGVWTMEE
RGLAPKFDTTFESARPTQTHMALVQLERVGLLRFLVSQNV DGLHVRSGFPRDKLAELHGNMFVEECAKCKTQYVR
DTVVGTMGLKATGRLCTVAKARGLRACRGELRDTILDWEDSLPDRDLALADEASRNADLSITLGTSLQIRPSGNL
PLATKRRGGRLVIVNLQPTKHDRHADLRHGYVDEVMTLMEHLGLEIPAWDGPRVLERALPPLPRPPTPKLEPK
EESPTRINGSIPAGPKQEPQAHNGSEPA SPKRERPTSPAPHRPPKRVKAKAVPS

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FIGURE 5183

TCCATAACCTGCTGTGGCTCCCCATTGCCAGGCAGTGTAGAGTTCTGAATACCTTGTGCTGGAAGCTGAAGCCCT
TCCTGCCCCAGCCCTGAATCACCTCTCCAACCTTCAGCCCCCTCCTGCTCCTGCTGCAGCCCCCAAACACTTGCA
TTTCTCCTAAACTCATGGGCTCTTCCCAGCACCCAGGCCTTTGTTTACCCCTTCTGTCTGATCTTCCCTCTCACC
CTTCAAGAAACTGCTTAGCCTCCTCCAGGAAGCCCTTCCACGTGCCCCAGGGCCCCACCTCCACGGGGCTTCCC
CAGGCCCAGGTACCTCCTCTGATCCAGGCTTGACTCTTGGGGCCAGAGGATCTGTGTCCACCTGTCTCCCCAAG
ATCAAGGGCTTCTGGAGGGCAGGGCTTGGGCCCCATGTGAGCATCGTCAGGCTCATTGCAGCAGCAGTGTGGTTG
AATAGAATAAGTCATTTTTGCCTTCGTGTGAATTCATCTCTCTCTCTGCTCTCCCTCTCTCTGTCTCTCTCC
AATTCTGTCTCTGACTTGCTTTGTCTTTAACTCTTTATCTCTCTGTCTGTGTCTTGTTCATCCCCCTCTCCCTG
TTCTTGCAACTCACCTCTATTTCTGTTTCTGATTCCCTCTCTCTGTCTCCCTGTCTCTCTCTGTCTCCTGATTT
TCTCTCTCTCCAACCTTTCTCTCTATACTCTCTGATTCTCCCTCTGTCTCTTTTTCTGTTCCCCCTCTCCCCGTCC
ATCTCTCCCGGCCCTGCCACCTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCCAAGT
TCGACACCACCTTTGAGAGCGCGCGGCCCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGCCTCC
TCCGCTTCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCCTCCCTTCTGGGCCCCCTACAGCCC
ACCTTACCCCTCCTCCATGGGCCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACT
GCCTTTGGGGCTGGAGGGAGACGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAAACAATTTCTT
TCTTGC

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FIGURE 5184

CAAAAGGACAGATGCAGAGGACAGGCGCCAGGCACAGATACCATCTCCCTTCCCCAAGCCAGCTGCCCCCAACCC
TCCCCCTGCCCAGCAATTAGTCCTCTGGGGCGGGAGCGGGGCACAGAGCAGAGCCCTCTTGGGGGAGGGGAAGCCC
GATCCGCACCCACCCTTCCCTTTGCCCCCTCTTCCTTCTGCTGCTCCAATATCAATTTACGCCAGTGACCTCTCC
ACCAATTTGCACATCCCCACTCTCCCGGTCCGTTTCACCGCCAGACATCGGTTCCATTTTCGACCCTCACTGGCGG
TCATTCCCACCCCCCTCTGCTGGTCAATTTACCCCCTTTTGGCGGTCAAGTGCAGTCCCCCATTTCCCGGGCAATT
TCCCCCTCCCCCTCCTTCTCCCTCTCCCCCTCCCCAGCAGTGCTCACTCCCAGCTGCTCCCCACCTCCCGCGC
TCCGCGCTCGCTGCGGCCAGTCTCGGGCGTCCCGGTCAAGTGTCCAGCTGCCGCGGCCTCGCCCCGGCGACTCCC
GCCCCAGCCCCCTTCCCTCCGCGGGCAGCGGCTCCCTCCCTCCCCAGAACAGCTGAAGGTCTCAGTCACCTCC
GAGGGGAGCGCAGGGGGAGGGGAGGGGCGGGGACGCGGCGGAGGGGAGGTGGGGGAGCCTTGACGCTGCTGCCC
GGGACGCGGCGCCGGGGCTGGTGGGAACAGGGGCGTCTCTGCGCGCCCCCTCCCCAGCGTCCCACCTCCCGGC
GGCGGCGGGGAAAGTCTCTCCGAAAGCGTGAAGGGGGATTGGAGGAGGTTTTTATTTCCCTTTGTGCGGGTGGCT
GGGGCCGGATCGAGGCGGCGGGGGCCGCGGACTGGGGCTCCCCGCTGAGCCGAGAGGAGCGGACAAAGGATG
CGTCCCGCGGGGTACAGTCTCCGCGGCCCAACTTTGCGCGCGGCGCCCGCGCCCCCTGGGGAGCCCGCCGCTG
CGCTGAGAACCAGGCGTCCGGGCTGGGAGAGGGGCGGGAGCGTCCGCAGGTGGCGCTGGCCCGGATCTCCCGA
CCCCAGGAAGGGATCCCGGAGCTTCCCTGGAGGCGGCGGGCGGCGGTGTGCTCCAGGGAACCGCGCTGCCCGCGG
AAACTCCGCGCGCCTCCGCGGATGCCCCCTCGCCCTAGCCCCAGCGCGCGGGGTTCCGGGGCCCTGCGAGGTCCCC
CCTTCCCCCGCGGTGCTTCCCAAGCTGGGCTAAGGCGGGCTTCTCTTCTCCTCCTCTGTGCGCTCCTTTTCTCT
CCCCCTCGTTACCTTTTCTTCCCTCTATCCATCCAGAGCCCCGCCAAAGGGCGCACCTGATCTTCTCATCCT
TCCCTGCTCTTCCCTTCCCTCTCCACCTCCTCCTCCTCCTTGGGGAAGGGGCCCCGAGAAGGGCATGTGGGGGCC
CCTCTGACAGTGGCCCGATTGGGGTGACAGGCGCCCAATGCGCAAGTGGCTACGGGACTACCTGAGCTTTGGGG
GTCGGAGGCCCCCTCCGCAGCCGCCCCACCCGGACTACACCGAGAGCGACATCCTGAGGGCCTACCGCGCGCAGA
AGAACCTGGACTTCGAGGACCCCTATGAGGACGCGGAGAGCGCTTGGAGCCGAGACCCCGCGGGCCCTGGGGACT
CCAAGAACCCCGGAGATGCCAAGTATGGTTCTCCCAAGCACCGGCTCATCAAGGTGGAGGCTGCGGATATGGCCA
GAGCCAAGGCCCTTCTGGGCGGCCCCGGGGAGGAGCTGGAAGCCGACACTGAGTATTTAGACCCCTTTGATGCTC
AGCCTCATCCTGCACCCCGGATGATGGGTACATGGAGCCCTACGATGCCCAATGGGTGATGAGTGAACCTTCCCG
GCAGAGGGGTGCAGCTCTATGACACCCCTTATGAGGAACAGGACCCAGAGACAGCAGATGGACCCCTTCTGGGC
AGAAGCCTCGGCAGAGCCGGATGCCCCAGGAAGATGAACGGCCAGCAGATGAGTATGATCAGCCCTGGGAGTGGA
AGAAAGACCACATCTCCAGGGCGTTTGCAGTGCAGTTTGACAGTCCAGAGTGGGAGAGGACTCCAGGCTCAGCCA
AGGAGCTCCGGAGACCTCCGCCCAGAAGCCCCCAGCCTGCGGAGCGTGTGGACCCAGCCCTGCCCCTGAGAAAC
AGCCGTGGTTTCATGGCCCCCTGAACAGGGCGGATGCAGAGAGCCTCCTGTCCCTCTGCAAGGAAGGCAGCTACC
TAGTGCGGCTCAGTGAGACCAACCCCCAGGACTGCTCCTTGTCTCTCAGGAGCAGCCAGGGCTTCCCTGCATCTGA
AGTTTCGCGCGGACCCGTGAGAACCAGGTGGTGTCTGGGCCAACACAGCGGGCCCTTCCCCAGCGTGCCCGAGCTCG
TCCTCCACTACAGTTTCACGCCCCTGCGGGTGCCGAGCATCTGGCTCTGCTGTACCCCGTGGTCACGC
AGACCCCCCTGACAGTGACCCTCGGCCCCCTTTTGTGCTCCTCGGGCCAGAATCGTATCCCAAAGCCCTCCCATGG
CCTAGAAAATAAATAAGTTATTGTT

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FIGURE 5185

MAKWLRDYLSTFGGRRPPPPQPTPDYTESDILRAYRAQKNLDFEDPYEDAESRLEFDPAGFGDSKNPGDAKYGSPK
HRLIKVEAADMARAKALLGGPGEELEADTEYLDPFDAQPHAPPPDDGYMEPYDAQWVMSELPGRGVQLYDTPYEE
QDPETADGPPSGQKPRQSRMPQEDERPADEYDQPWEWKDTHISRAFAVQFDSPEWERTPGSAKELRRPPPRSPQP
AERVDPALPLEKQPWFHGFLNRADAESLLSLCKEGSYLVRLSETNPQDCSLSLRSSQGFLHLKFARTRENQVVLG
QHSGFFPSVPELVVHYSSRPLPVQGAEHLALLYPVVTQTP

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FIGURE 5186

ACCCAGCGTGCGCGGGGCCCCGCGGGCCGGGCGGGGTGACCTGGGCTGCAGCC**ATG**GAAGAACAGAGGGAGGCCC
TGAGGAAGATCATCAAAACACTGGCTGTGAAGAATGAAGAAATTCAGAGCTTTATCTACTCCCTGAAACAGATGC
TGCTGAACGTGGAGGCGAACTCGGCGAAGGTGCAGGAGGACCTCGAAGCAGAGTTCAGTCCCTCTTCTCCCTCC
TGGAGGAGCTGAAAGAAGGCATGCTTATGAAGATAAAACAGGACCGTGCCAGCCGCACCTACGAGCTGCAGAACC
AGCTGGCTGCCTGCACGCGGGCCCTGGAGAGCTCCGAGGAGCTTCTGGAGACAGCCAACCAGACTCTGCAGGCCA
TGGACAGCGAGGACTTTCTCAGGCTGCCAAGCAAATCAAAGATGGAGTGACCATGGCCCCCTGCCTTCCGGCTAT
CATTGAAAGCGAAGGTCAAGTGACAAACATGAGTCACCTCATGGTGGACTTCGCGCAAGAGCGGCAGATGCTACAGG
CACTCAAGTTCTTGCCTGTGCCAGCGCACCCCGTGATCGACCTGGCTGAGTCCCTGGTGGCAGATAACTGTGTGA
CCCTGGTGTGGCGCATGCCGGATGAGGACAGCAAGATTGACCACTACGTGCTGGAGTACCGGCGGACCAACTTCG
AGGGCCCCGCCCCGCTCAAGGAGGACCAGCCCTGGATGGTCATCGAGGGCATCCGGCAGACAGAGTACACCCTGA
CAGGTCTCAAGTTTGACATGAAATACATGAACCTCCGTGTGAAGGCCTGTAACAAGGCAGTTGCAGGAGAGTTCT
CTGAGCCGGTGACTCTGGAGACACCAGCGTTTCATGTTCCGCTGGATGCGTCCACATCCCACCAGAACCTGCGGG
TGGATGATCTCTCCGTGGAGTGGGACGCTATGGGCGGGAAGGTGCAGGATATCAAGGCTCGCGAGAAAGATGGCA
AGGGGCGGACGGCGTCTCCCATCAACTCCCCAGCCAGAGGTAATCCATCTCCCAAGAGGATGCCCTCAGGTCGTG
GGGGACGGGACCGCTTCACCGCTGAGTCCTACACAGTTCTGGGGGACACGCTGATCGACGGCGGGGAGCATTACT
GGGAGGTGCGCTACGAGCCGGACAGCAAGGCGTTCGGCGTGGGCGTGGCCTACCGCAGCCTGGGCCGCTTCGAGC
AACTGGGCAAGACGGCCGCTCCTGGTGCCTGCACGTCAACAATTGGCTGCAGGTGAGCTTCACGGCCAAGCACG
CCAACAAGGTCAAGGTGCTGGACGCCCCCGTGCCCGACTGCCTGGGTGTGCACTGTGACTTCACCAAGGCCTCC
TGTCTTCTACAATGCCCGCACCAACAAGTGTGCACACTTTCAAGACCAGGTTACACAGCCGCTGCTGCCTG
CTTTCACGGTATGGTGTGGCAGCTTCCAGGTGACGACAGGCCTGCAGGTCCCCAGTGCTGTGCGCTGCCTGCAAA
AGCGAGGCAGTGCTACCAGCAGCTCCAACACCAGCCTCACCT**TAG**GGCCCCCAGGCACCCACCCAGCTGGGGTGTTT
TTGGGGGAGTCGCCGCCAAGCCCAGGCTGCTGGAGCCAGGCACCCCTCCTCTGTCACTTGCTGCTTGGAGCCTTAA
CTCCAGATGGGGGGGTACCAAGAGGGAGTGGGCACCCTGGCGGGCCCTCTCCCCACCTCACCTCTTAATAAAGG
TCAGACACTGGCCAGGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5187

MEEQREALRKIIKTLAVKNEEIQSFIYSLKQMLLNVEANSKVVQEDLEAEFQSLFSLLEELKEGMLMKIKQDRAS
RTYELQNQLAACTRALESSEELLELETANQTLQAMDSDFPQAAKQIKDGVTMAPAFRLSLKAKVSDNMSHLMVDFA
QERQMLQALKFLPVPSAPVIDLAESLVADNCVTLVWRMPDEDSKIDHYVLEYRRTNFEGPPRLKEDQPWMVIEGI
RQTEYTLTGLKFDKYMNFRVKACNKAVAGEFSEPVLTETPAFMFRLDASTSHQNLRVDDLSVEWDAMGGKVQDI
KAREKDGKGRASPINSARGTSPKRMPSGRGGRDRFTAESYTVLGDTLIDGGEHYWEVRYEPDSKAFGVGVAY
RSLGRFEQLGKTAASWCLHVNNWLQVSFTAKHANKVKVLDAPVPDCLGVHCDHFHQGLLSFYNNARTKQVLHTFKTR
FTQPLLPAAFTVWCGSFQVTTGLQVPSAVRCLQKRGSAATSSSNTSLT

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FIGURE 5188

GCGGCGGGCGGCAGC**ATG**TCGGTGGCGGGGCTGAAGAAGCAGTTCTACAAGGCGAGCCAGCTGGTCAGTGAGAAG
GTCGGAGGGGCCGAGGGGACCAAGCTGGATGATGACTTCAAAGAGATGGAGAAGAAGGTGGATGTCACCAGCAAG
GCGGTGACAGAAGTGCTGGCCAGGACCATCGAGTACCTGCAGCCCAACCCAGCCTCGCGGGCTAAGCTGACCATG
CTCAACACGGTGTCCAAGATCCGGGGCCAGGTGAAGAACCCCGGCTACCCGAGTCGGAGGGGCTTCTGGGCGAG
TGCATGATCCGCCACGGGAAGGAGCTGGGCGGCGAGTCCAACCTTTGGTGACGCATTGCTGGATGCCGGCGAGTCC
ATGAAGCGCCTGGCAGAGGTGAAGGACTCCCTGGACATCGAGGTCAAGCAGAACTTCATTGACCCCTCCAGAAC
CTGTGCGAGAAAGACCTGAAGGAGATCCAGCACCACCTGAAGAACTGGAGGGCCGCCCTGGACTTTGACTAC
AAGAAGAAGCGGCAGGGCAAGATCCCCGATGAGGAGCTACGCCAGGCGCTGGAGAAGTTTCGAGGAGTCCAAGGAG
GTGGCAGAAACCAGCATGCACAACCTCCTGGAGACTGACATCGAGCAGGTGAGTCAGCTCTCGGCCCTGGTGGAT
GCACAGCTGGACTACCACCGGCAGGCCCTGCAGATCCTGGACGAGCTGGCGGAGAAGCTCAAGCGCAGGATGCGG
GAAGCTTCCTCAGCCCTAAGCGGGAGTATAAGCCCAAGCCCCGGGAGCCCTTTGACCTTGAGAGCCTGAGCAG
TCCAACGGGGGCTTCCCCTGCACCACAGCCCCCAAGATCGCAGCTTCATCGTCTTTCCGATCTTCCGACAAGCCC
ATCCGGACCCCTAGCCGGAGCATGCCGCCCTGGACCAGCCGAGCTGCAAGGCGCTGTACGACTTCGAGCCCGAG
AACGACGGGGAGCTGGGCTTCCATGAGGGCGACGTCATCACGCTGACCAACCAGATCGATGAGAACTGGTACGAG
GGCATGCTGGACGGCCAGTCGGGCTTCTTCCCGCTCAGCTACGTGGAGGTGCTTGTGCCCTGCCGAG**TGAC**TC
ACCCG**T**GTCCCCGCCCGCCCCCTCCGTCCACACTGGCCGGCACCCCTGCTGGGTCTCCTGCATTCCACGGAGCC
CCTGCTGCCAGGGCGGTGTCTGAGCCTGCCGGCGCCACCTGGGCCCCGGCCCTTGAGGTACTCCCTGAGCAGGAC
CCCACACTTGGGTGGGGGGGCTTATCTGGGTGGGTGGGGATGCCTGTTTACACTAGCGCTGACTCCCAACGGTGA
CGGCTCCCTTCCCCACTCCATGGCGCCAGCCTCCTCCCCGCTCCCCAACTTCTCGCCCAGCTGGCCGAGGCGGG
GCAACACTAAGGTGCTCTTAGAAACACTAATGTTCTCTGGGGCAGCCCCACCTCCGTCTGACCCGACGGGGG
CCCGGCCCACTGCCTACCCTCGAGTCCCGCAGCCTTAACAGGATGGGATCGAGGGTCCCCATGGGGTGGCTCAGA
GATAGGACCCTGGTTTTAAATCCCTCCCAGCCTGGTGCTGGTGATGGGCCCTGGCCCTACTCCAGGGCCAATGCA
CCCCGCCTCACACACGCACTCCTTCTCCTCAAGGCCAGGGCAGAGGGCCTCACCGCCTCCCGGGCCTGCTGTCA
GCTTGACGCCCGGGGACAGAGGCCAGCTGGGATCTGCCTGAGGACAGAGAACATGGTCTCCTGCAGGGCCCTGCC
TCCAAGCCCCGCCCTCAGAAAGCCAAGTACCTTTTCAGCTTTTTAACTGCCCCATCCCAACCCAGGGAGGCCT
GTGTCACCTCTGGCACAAGCTGCCACCACAGCCACCCACCCACCCACAGCACACCTCACACGGGACCACAGCCG
CGCTGCCGAGGGCCAAGCACAAAGGTTCCAGTGAGCGCATGTCCAGCCCTGGTGGCCAGGCTCCCCCTTGCTGAG
CCGCTGCCACTTCACCCTGTGGGAAGTGGCCCCAGCCATCTCCTCTAGACCAAGGCAGGCAGCCCCGACATCTGC
TTCTCTATCGCCCAATGCAAAATCGATGAAATGGGGAGTTCTCTGGGCCAGGCCACATTACATTCCCCCTCCCT
CTGTGGTCCAGTGAAGCTCCGACCCCAAGGCTCTGCTCTGCCCTGCCCTGCACCCCCCTCGTCAGAAGTACATGA
GGGGCGCAGAGATGAGCACACAGCTTTGGGCACGGTCCAGGGCAA**ACT**GAAATGTACGCCTGAATTTTGTAACA
GAAGTATTAAATGTCTCTTTCTAC

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FIGURE 5189

MSVAGLKKQFYKASQLVSEKVGGAEGTKLDDDFKEMEKKVDVTSKAVTEVLARTIEYLQPNPASRAKLTMLNTVS
KIRGQVKNPGYPQSEGLLGECMIRHGKELGGESNFGDALLDAGESMKRLAEVKDSL DIEVKQNFIDPLQNLCEKD
LKEIQHHLKKLEGRRLDFDYKKKRQGKIPDEELRQALEKFEEESKEVAETSMHNLLET DIEQVSQLSALVDAQLDY
HRQAVQILDELAEKLRMRREASSRPKREYKPKPREFFDLGEPEQSNGGFPCTTAPKIAASSSFRSSDKPIRTPS
RSMPPLDQPSCKALYDFEPENDGELGFHEGDVITLTNQIDENWYEGMLDGQSGFFPLSYVEVLVPLPQ

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FIGURE 5190

TTTTCTTCCGGGGGCTGGTCTCCGGCGGCCCCGTCCCCGACTGGGCCCCGTGCCCCCCCCGCCCCGCGGCCCCC
GCCGCCGGGGCCAGCCGCCACC**ATGA**AAGAAATTCTTTCAGGAGTTCAAGGCCGACATCAAGTTCAAGAGCGCGGGA
CCCGGTCAGAAGCTCAAAGAGTCCGTGGGGGAAAAGGCCCACAAAGAGAAGCCCAACCAGCCAGCCCCCAGGCCG
CCCCGCCAGGGACCCACCAATGAGGCACAGATGGCAGCCGCTGCTGCCCTAGCCCGGCTGGAGCAGAAGCAGTCC
CGGGCCTGGGGCCCCACATCGCAGGACACCATCCGAAACCAGGTGAGAAAGGAACTTCAAGCCGAAGCCACCGTC
AGCGGGAGCCCCGAGGCCCCAGGGACCAACGTGGTATCTGAGCCCAGAGAGGAAGGCTCTGCCCACCTGGCTGTG
CCTGGCGTGTACTTCACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCCTGCATCAAGGAG
GCCATTCTCTTGCACTTCTCCACCGACCCAGTGGCCGCCCTCCATCATGAAGATCTACACGTTCAACAAAGACCAG
GACCGGGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCCGAGGAGGAGAAG
TACCGGAAGATCAAGCTGCAGAACAAGGTGTTTCAGGAGCGCATTAACTGCCTGGAAGGGACCCACGAGTTTTTT
GAGGCCATTGGGTTCCAGAAGGTGTTGCTTCCCCGCCCAGGATCAGGAGGACCCCGAGGAGTTCTACGTGCTGAGC
GAGACCACCTTGCCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCGGAGCCCGTGCGCGCC
AAGCTGGACAGGCAGCGCCGCGTCTTCCAGCCCTCGCCCCCTGGCCTCGCAGTTTGAAGTGCCTGGGGACTTCTTC
AACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGCGGTGGAGCGGCTGAGCGTGCTGCGG
ACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAGTACAACCTACACGCTGCTGCGCGTGCGCCTC
CCCGATGGCTGCCTCCTGCAGGGCACTTTCTACGCTCGGGAGCGGCTGGGGGCGGTGTACGGGTTTCGTCCGGGAG
GCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCTGGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCTG
GCCTTGAACGAGTGCGGGCTGGTGCCCTCTGCCCTCCTGACCTTCTCGTGGGACATGGCTGTGCTGGAGGACATC
AAGGCCGCGGGGGCCGAGCCGGAATCCATCCTGAAACCCGAGCTCCTGTCAGCCATCGAGAAGCTCTT**TGAA**AT
AAAAGCAGGGTTGGCCTCAGCCCTGTGGGTCTGTCTCATGCTCTCCCTGTTTCTCTCCCGCCACCCACAGGGCCT
CCAAGCCACCTCTGGAATACTTGGCTCTGCCCCATGGGCACGGGAGGGGCGCCAGCCGTGGAGCTGTGGAATTG
GGCCCCGTGGCAGAGCCCCCATCCCTTGGGGGCTGTGGGGATGCGCCCAAGCCCCCGAGGGAGAGGCCTGGGGAC
ACCAAC

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FIGURE 5191

MKKFFQEFKADIKFKSAGPGQKLKESVGEKAHKEKPNQPAPRPPRQGPTNEAQMAAAAALARLEQKQSRWGPST
QDTIRNQVRKELQAEATVSGSPEAPGTNNVSEPREEGSAHLAVPGVYFTCPLTGATLRKDQORDACIKEAILLHFS
TDPVAASIMKIYTFNKDQDRVKLGVDTIAKYLDNIHLHPREEKYRKIKLQNKVFQERINCLEGTHEFFEAGFQK
VLLPAQDQEDPEEFYVLSETTLAQPSLERHKEQLLAAEPVRAKLDQRQRRVFQPSPLASQFELPGDFFNLTAEEI
KREQRLRSEAVERLSVLRTKAMREKEEQRGLRKYNYTLLRVRLPDGCLLQGTIFYARERLGAVYGFVREALQSDWL
PFELLASGGQKLSDENLALNECGLVPSALLTFSWDMAVLEDIKAAGAEPDSILKPELLSAIEKLL

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FIGURE 5192

GTCTACCCGCCCCCTGCCCTGAGGACCCTAGTCCAACATGGCGGCGCCCAGCGGAGGGTGGAAACGGCGTCGGCGCG
AGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCCACGACGGTG
GCGTTTGACGTGCGGCCCGGCGGCGTCGTGCATTCTTCTCCATAACGTGGGCCCCGGGGACAAATATACGTGT
ATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAAGACCACCAG
CACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCCTATCTGTACTTCACACAGTTCAAGGCAGAGGTGCGG
GGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCTCTGAAAAC
GAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCCAAGCTGGTG
ATTGTGGCCAAGGCATCGCGCACTGAGCTGTAGACCAGCAGCCCTGTTGCGGGTGGCACCTTCTCATCTCCGGTGA
AGCTGAAGGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCCACTTCCTGCTGAGCTCTTCTGGACTCAGGATC
GCAGATCCGGGGCACAAAGAGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCGACCTC
CAGCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTCTATGTTTACCCAGGGGACCTCCTTTCAGATGAACTG
GGAAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGC

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FIGURE 5193

MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRPGGVVHSFSHNVGPGDKYTCMFTYASQGGTNE
QWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAEVGAEIEYAMAYSKAAFERESDVPLKTEEFVTKTAVAH
RPGAFKAELSKLVIVAKASRTEL

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FIGURE 5194A

AAGGTGCCTGAGCCGGCGGGTCCCCTGTGTCCGCCGCGGCTGTCTGTCCTCCCGCTCCCGCCACTTCCGGGGTTCGCA
GTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCCGGGACGACCTGCCAGTCCGGCCGCGCCCCAC
GTCCCGGTCTGTGTCCCACGCCTGCAGCTGGAATGGAGGCTCTCTGGACCCTTTAGAAGGCACCCCTGCCCTCCT
GAGGTGAGCTGAGCGGTTAATGCGGAAGGTTAAGAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAGAAG
CTTCTCGCTGAATTCCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGCCGACCGAGGCGACGCAGC
CGCCACAGATGACCCGGCCGCCGCTTCCAGGTGCAGAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGG
CAGCCGCAAGTACTCGGGCCTCATTGTCAACAAGGCGCCCCACGACTTCCAGTTTGTGCAGAAGACGGATGAGTC
TGGGCCCCACTCCACCGCCTCTACTACCTGGGAATGCCATATGGCAGCCGAGAGAACTCCCTCCTCTACTCTGA
GATTCCCAAGAAGGTCCGGAAGAGGCTCTGCTGCTCCTGTCTGGAAGCAGATGCTGGATCATTTCAGGGCCAC
GCCCCACCATGGGGTCTACTCTCGGGAGGAGGAGCTGCTGAGGGAGCGGAAACGCTTGGGGTCTTCGGCATCAC
CTCCTACGACTTCCACAGCGAGAGTGGCCTCTTCCTCTTCCAGGCCAGCAACAGCCTCTTCCACTGCCGCGACGG
CGGCAAGAACGGCTTCATGGTGTCCCCATGAAACCGCTGGAAATCAAGACCCAGTGCTCAGGGCCCCGGATGGA
CCCCAAAATCTGCCCTGCCGACCTGCCTTCTTCTCCTTCATCAATAACAGCGACCTGTGGGTGGCCAACATCGA
GACAGGCGAGGAGCGGCGGCTGACCTTCTGCCACCAAGGTTTATCCAATGTCCTGGATGACCCCAAGTCTGCGGG
TGTGGCCACCTTCGTCATACAGGAAGAGTTCGACCGCTTCACTGGGTACTGGTGGTGCCCCACAGCCTCCTGGGA
AGGTTTCAGAGGGCCTCAAGACGCTGCGAATCCTGTATGAGGAAGTCGATGAGTCCGAGGTGGAGGTCATTACGT
CCCCTCTCCTGCGCTAGAAGAAAGGAAGACGGACTCGTATCGGTACCCAGGACAGGCAGCAAGAATCCCAAGAT
TGCCTTGAAGTGGCTGAGTTCCAGACTGACAGCCAGGGCAAGATCGTCTCGACCCAGGAGAAGGAGCTGGTGCA
GCCCTTCAGCTCGCTGTTCCCGAAGGTGGAGTACATCGCCAGGGCCGGGTGGACCCGGGATGGCAAATACGCCTG
GGCCATGTTCTGGACCGGCCCCAGCAGTGGCTCCAGCTCGTCTCCTCCCCCGGCCCTGTTTCATCCCGAGCAC
AGAGAAATGAGGAGCAGCGGCTAGCCTCTGCCAGAGCTGTCCCCAGGAATGTCCAGCCGTATGTGGTGTACGAGGA
GGTCACCAACGTCTGGATCAATGTTTCATGACATCTTCTATCCCTTCCCCCAATCAGAGGGAGAGGACGAGCTCTG
CTTCTCCGCGCAATGAATGCAAGACCGGCTTCTGCCATTTGTACAAAGTCACCGCCGTTTAAATCCCAGGG
CTACGATTGGAGTGAGCCCTTCAGCCCCGGGGAAGATGAATTTAAGTGCCCCATTAAGGAAGAGATTGCTCTGAC
CAGCGGTGAATGGGAGGTTTTGGCGAGGCACGGCTCCAAGATCTGGGTCAATGAGGAGACCAAGCTGGTGTACTT
CCAGGGCACCAAGGACACGCCGCTGGAGCACCACCTCTACGTGGTCAGCTATGAGGCGGCCGGCGAGATCGTACG
CCTCACCACGCCCGGCTTCTCCCATAGCTGCTCCATGAGCCAGAACTTCGACATGTTTCGTCAGCCACTACAGCAG
CGTGAGCACGCCGCCCTGCGTGCACGTCTACAAGCTGAGCGGCCCCGACGACGACCCCCCTGCACAAGCAGCCCCG
CTTCTGGGCTAGCATGATGGAGGCAGCCAGCTGCCCCCGGATTATGTTTCTCCAGAGATCTTCCATTTCCACAC
GCGCTCGGATGTGCGGCTCTACGGCATGATCTACAAGCCCCACGCCTTGCAGCCAGGGAAGAAGACCCCCACCGT
CCTCTTTGTATATGGAGGCCCCCAGGTGCAGCTGGTGAATAACTCCTTCAAAGGCATCAAGTACTTGCGGCTCAA
CACACTGGCCTCCCTGGGCTACGCCGTGGTTGTGATTGACGGCAGGGGCTCCTGTACGCGAGGGCTTCGGTTTGA
AGGGGCCCTGAAAAACCAATGGGCCAGGTGGAGATCGAGGACCAGGTGGAGGGCCTGCAGTTCTGTGGCCGAGAA
GTATGGCTTCATCGACCTGAGCCGAGTTGCCATCCATGGCTGGTCTACGGGGGCTTCTCTCGCTCATGGGGCT
AATCCACAAGCCCCAGGTGTTCAAGGTGGCCATCGCGGGTGCCCCGGTACCGTCTGGATGGCCTACGACACAGG
GTACACTGAGCGCTACATGGACGTCCCTGAGAACAAACCAGCACGGCTATGAGGCGGGTTCGTGGCCCTGCACGT
GGAGAAGCTGCCCAATGAGCCCAACCGCTTGCTTATCTCCACGGCTTCTTGACGAAAACGTGCACTTTTTTCCA
CACAACTTCTCTGCTCTCCAACTGATCCGAGCAGGGAAACCTTACCAGCTCCAGATCTACCCCAACGAGAGACA
CAGTATTCGCTGCCCCGAGTCGGCGAGCACTATGAAGTCACGTTGCTGCACTTTCTACAGGAATACCTCTGAGC
CTGCCCACCGGGAGCCGCCACATCACAGCACAAAGTGGCTGCAGCCTCCGCGGGGAACAGGCGGGAGGGACTGAG
TGGCCCGCGGGCCCCAGTGAGGCACTTTGTCCCGCCAGCGCTGGCCAGCCCCGAGGAGCCGCTGCCTTACCAGC
CCCGACGCCTTTTATCCTTTTTTAAACGCTCTTGGGTTTTATGTCCGCTGCTTCTTGGTTGCCGAGACAGAGAGA
TGGTGGTCTCGGGCCAGCCCTCCTCTCCCCGCTTCTGGGAGGAGGAGGTCACACGCTGATGGGCACTGGAGAG
GCCAGAAGAGACTCAGAGGAGCGGGCTGCCTTCCGCCTGGGGCTCCCTGTGACCTCTCAGTCCCCTGGCCCGGCC
AGCCACCGTCCCCAGCACCCAAGCATGCAATTGCCGTGTCCCCCGGCCAGCCTCCCCAACTTGATGTTTGTGTT
TTGTTTGGGGGGATATTTTTTATAATTATTTAAAAGACAGGCCGGGCGCGGTGGCTCACGTCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCCC
GTCTCTACTAAAAATACAAAAATTAGCCGGGTGTGGTGGCGCGTGCCTATAATCCCAGCTACTCGGGAGGCTGA

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FIGURE 5194B

GGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTGCGGTGAGCCAAGATCGCACCATTGCACTCCAGCCTGGG
CAACAAGAGCGAAACTCTGTCTCAAAATAAATAAAAAATAAAAGACAGAAAGCAAGGGGTGCCTAAATCTAGACT
TGGGGTCCACACCGGGCAGCGGGGTTGCAACCCAGCACCTGGTAGGCTCCATTTCTTCCCAAGCCCGAGCAGAGG
GTCATGCGGGCCCCACAGGAGAAGCGGCCAGGGCCCGCGGGGGGCACCACCTGTGGACAGCCCTCCTGTCCCCAA
GCTTTCAGGCAGGCACTGAAACGCACCGAACTTCCACGCTCTGCTGGTCAGTGGCGGCTGTCCCTCCCCAGCCC
AGCCGCCCAGCCACATGTGTCTGCCTGACCCGTACACACCAGGGGTTCCGGGGTTGGGAGCTGAACCATCCCCAC
CTCAGGGTTATATTTCCCTCTCCCTTCCCTCCCCGCCAAGAGCTCTGCCAGGGGCGGGCAAAAAAAAAAAGTAAA
AAGAAAAGAAAAAAAAAAAAAA

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FIGURE 5195

TTCCAAGCTGGTTTTGAAGTCGCGGCAGCTGTTCTGGGACGTCCGGTTGACCGCGCGTCTGCTGCAGAGACCAT
GTCTGCCGACGGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGAAGAACCGGTACAGCAGCCCAGTGTGGT
GGACCGTGTGGCCAGCATGCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGCAGCCTATGCCTCCACCAAGGA
GAGCTACCCGCACATCAAGACTGTCTGCGACGCAGCAGAGAAGGGAGTGAGGACCCTCACGGCGGCTGCTGTCAG
CGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGATTGCATCAGCCAGCGAATACGCCCACAGGGGGCTGGA
CAAGTTGGAGGAGAACCTCCCCATCCTGCAGCAGCCACGGAGAAGGTCTGGCGGACACCAAGGAGCTTGTGTC
GTCTAAGGTGTCGGGGGGCCCAAGAGATGGTGTCTAGCGCCAAGGACACGGTGGCCACCCAATTGTGCGAGGCGGT
GGACGCGACCCGCGGTGCTGTGCAGAGCGGCGTGGACAAGACAAAGTCCGTAGTGACCGGCGGCGTCCAATCGGT
CATGGGCTCCCGCTTGGGCCAGATGGTGTGAGTGGGGTCGACACGGTCTGGGGAAGTCGGAGGAGTGGGCGGA
CAACCACCTGCCCCCTTACGGATGCCGAAGTGGCCCGCATCGCCACATCCCTGGATGGCTTTGACGTGCGTCCGT
GCAGCAGCAGCGGCAGGAACAGAGCTACTTCGTACGTCTGGGCTCCCTGTGCGAGAGGCTGCGGCAGCACGCCTA
TGAGCACTCGCTGGGCAAGCTTTCAGCCACCAAGCAGAGGGCACAGGAGGCTCTGCTGCAGCTGTGCGAGGTCTCT
AAGCCTGATGGAAGTGTCAAGCAAGGCGTTGATCAGAAGCTGGTGGAAAGGCCAGGAGAAGCTGCACCAGATGTG
GCTCAGCTGGAACCAGAAGCAGCTCCAGGGCCCCGAGAAGGAGCCGCCAAGCCAGAGCAGGTGAGTCCCGGGC
GCTCACCATGTTCCGGGACATTGCCCAGCAACTGCAGGCCACCTGTACCTCCCTGGGGTCCAGCATTTCAGGGCCT
CCCCACCAATGTGAAGGACCAGGTGCAGCAGGCCCCGCCAGGTGGAGGACCTCCAGGCCACGTTTTCCAGCAT
CCTCTCCTTCCAGGACCTGTCCAGCAGCATTCTGGCCCAGAGCCGTGAGCGTGTGCGCCAGCGCCCGGAGGCCCT
GGACCACATGGTGGAAATATGTGGCCCAGAACACACCTGTCACGTGGCTCGTGGGACCCCTTTGCCCTGGAATCAC
TGAGAAAGCCCCGGAGGAGAAGAAGTAGGGGGAGAGGAGAGGACTCAGCGGGCCCCGTCTCTATAATGCAGCTGT
GCTCTGGAGTCTCAACCCGGGGCTCATTTCAAACCTATTTTCTAGCCACTCCTCCAGCTCTTCTGTGCTGTCC
ACTTGGGAAGCTAAGGCTCTCAAAACGGGCATCACCCAGTTGACCCATCTCTCAGCCTCTCTGAGCTTGGAAAGAA
GCCTGTTCTGAGCCTCACCTATCAGTCAGTAGAGAGAGATGTCCAGAAAAATATCTTTTCAGGAAAGTTCTCCC
CTGCAGAAATTTTTTTTCTTGTAAATATCAGGAATATAGGCCGGGTGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGAACACCTGAGGTCAGGTGTTTCGAGACCAGCCAGGCCAACATGGTGAAACCCC
GTCTCTACTAAAAATACAAAAAAAATGAGCCGGGCATGGTAGCAGGTGTCTGTTATCCCAGTTAGGAGGCTGAG
GCAAGAGAAATCTCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGG
GACAAGAGTGAGACTTAGTCTCA

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FIGURE 5196A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAACTGATGGGGGTTTTTGTCTGTCCCTCCCCTCAGC
GCCGACACCATGTGGATCCAGGTTTCGGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCTGGGCCAGAGTGAGTCAGACAAGTCTCCACCCACGGTGAGGCGGCCGCCGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGATGCTCGGGACACGAAC
ATGGGGGCGTGGTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCCCTCCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTCAATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTTCGGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCCGTCTTCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCACATGGCCTTCCACATCTACTGCCTGGACCCG
CCCCCAGCAGTGTTCAGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCTCACAGCGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTACGCGAGTGGGGTGTCCATCGGCCCCACGTGGCT
GGCATACAGGCCGGAGCAACGACGGAGCGTACTCCCTAGTCTTGGCGGGGGCTATGAGGATGATGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTCGAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAACTCACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTTCGGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCCGAGAAGGGGGAAGTCCGGG
TTTCTCGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCTGGCAGGAGGTGGCCCGAGCAGGGGCGGGTCCCCGCGCCGGACATCCAAGAAAACCAAGGTGGA
GCCCTACAGTCTCACGGCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CCTGGCGTCACTCAAGGACCGGCCGGCGAGCGGCAGCCCCGTTCCAGTTGTTTCTGAGTAAAGTGGAGGAGACGTT
CCAGTGTATCTGCTGTGAGGAGCTGGTGTTCGGCCCCATCACGACCGTGTGCCAGCACAACTGTGCAAGGACTG
CCTGGACAGATCCTTTTCGGGCACAGGTGTTTTCAGCTGCCCTGCCTGCCGCTACGACCTGGGCCCGCAGCTATGCCAT
GCAGGTGAACCAGCCTCTGCAGACCGTCTCAACCAGCTCTTCCCCGGCTACGGCAATGGCCGGTGATCTCCAAG
CACTTCTCGACAGGCGTTTTTGTGAAAACGTGTGCGAGGGCTCGTTTCATCGGCACTGATTTTGTTCCTTAGTGGC
TTAACTTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAGGTTTGTCTTCCTTTTTTTTTTTTATTTTTATTTTT
AAATCTATACATTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTCTTTGA
AAACATAAAAGCCTGCAATTTCTCGACAAAACAACACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGT
GGAGGCTGTTGATGTTTCTGGTGTCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCA
GTCCTTCTCTCGGGTTCGGCCCCAAGGTCAGAGCAAGCATCTTCCTGACAGCATTTTGTATCTAAAGTCCAG
TGACATGGTTCCCCGTGGTGGCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAA
GGAAAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTTGCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCT
GAGATCCGCGTGAAAAGTCTCTGCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTC
TGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACACGAAG
TCACGTGCAAGTGCCTTTGATTGCTTCCTTTCTTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAA
AATGTCAACCAGATTCTAGAACTGCGGTCTCCAGTTCTTCCTGACACCGGATGGGTGCTTGGGAACCGTTTGA
GCCTTATAGATCATTTACATTCAATTTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTTAAATTTT
TTTTTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAAC
GTTAGGGTTTGGTTGTTTTTGTATTTTTTTCTTTTGAAAGGGTTTGTAAATTTTCTAATTTTACCAA

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FIGURE 5196B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTAT
TTTTAAAGGGTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAG
GCTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

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FIGURE 5197A

GTGCCCAGCAACCGAGCGGGGCCCCGGCCCCGAGCGGGGCCTGGGGGTGCGACGCCGAGGGCGGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGACGCCGCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAAATCCTAGC
GAATTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCC**ATG**GGGT
CTGAGGACCACGGCGCCAGAAACCCAGCTGTAAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGACGGGAGCCACCGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCTCTTACGACGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACAGGACTTTGATGACCTTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCCACTGGAAACATCGGGA
GCCTCCGGACCATCTGGACATGGTGAGCGCGAGTGCGGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCCTGGTACGCCATCCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCCTGAAGA
AGTACGGGATCCCCCTTACGCCGATCAGCAGGAGGCCGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGACGTGCCGGAAGGACATGGTCAAGATCTCCATGGACGTGTTTCGTGCGCATCTTCGACCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGCTGGACCACACGCGGCCCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCATCCCGGGCCTCGCTGAAGGCCAAGCTCCTCCGCAGGTCTCACCGGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCCGAAGACCCCAAGTTCCTTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCAGCGTGAAGGAGGAGGCTGGGCGGAGGTTGACCCCGAGGAGGAGGAGGAGGCCGACGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCACAGCTGCCGCCCCCGCTGCTCACTTCCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCCGGTGCTGGGCCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTCGTGCCCCCTGAGGTGCCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCCTGCCAGCAGGCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACCAAGTTTCCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAAGCCCGGGCCGGAGAGGGGCAGGCACCGTCCACATTTTCCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCCCTGGGCCGGCCGCCACCCGGTCCCCACTGTGCGGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCCTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCCTTGA
GGCCGCTGCTGTCTCTGCAGTGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAAAGGGCTGCCCGGCCACATTACCCTCCAAAAGCCGTGAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGCTGCCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCCTGGACTGCGGAGTGCTGCCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTA CTGCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCTCT
TCCACGTGACCTGCGCCACGCGCAGGCGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAGTCGGGGGGTACGCTGTCCAACCTCTGAGGGCCGTGTCCCTAGGCCAGGTGGTTCATCACCA
AGAACC GCAACGGGCTGTACTACCGCTGTGCGTTCATCGGTGCCGCTCGCAGACCTGCTACGAAGTGAAGTTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCCCTT
CCGAGGGGGAGCTGGTGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTCATCTCCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGAGGACGGGTCCAGCTGACGGTGAAAGCGTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTCACTGAGCACGGGGGCACCGCAGGAGCCCGCCTTCTCGGGGG
AGGAGGCCAAGGCCGCCAAGCGCCCGCTGTGGGCACCCCGCTTGCCACGGAGGACTCCGGGGCGGAGCCAGGACT
ACGTGGCCTTCGTGGAGAGCCTCCTGCAGGTGCAGGGCCGGCCCGGAGCCCCCTTCT**TAGG**ACAGCTGGCCGCTCA
GGCGACCTCAGCCCGGCGGGGAGGCCATGGCATGCCCCGGGCGTTGCTTGCTGTGAATTCCTGTCTCGTGTCT

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FIGURE 5197B

CCCCGACCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAACCACCTTTGTGAGGCTCTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAACAAAACAAAACAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTCAGAGCATCTCGCTGTTTTTTTTTGTGTTGTTTTAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGCAGGACGC
CCCGGTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCCTGTGCCACTCTGTGCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGGTCTGGGGCCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGTT
TGTCTATCTTTGTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGCAGACAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTGGACAGCTTCCCAGCTC
TTCGGGTACAACCCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCCTTTCGCCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTTGAGCTGATAGAGAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTAAAAACAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCACTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCCAAAAAAGCAATGTTTATATTATAAAAGAGTGTCTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTTACGCAGGAGCAAGCCTTTCATTTCTTGGTGGGGGAGGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTCCGGGAGGTTGGGGGGTGTCAGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAAAATGCTATTTATATTGTAAAGAAGCG
GGCGGGTGCCCTGCTGCCCTTGTCCCTTGGGGGTACACCCATCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCTCTAGGTTTATAATGAATTAAAGGTTTCATGAACGCTGC

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FIGURE 5198

MGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPKEWKPRQTYDDIDDVVIPAPIQQV
VTGQSGLFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDDLERKYWKNLTFVSPYIYGADISGSLYDDDDVAQWN
IGSLRTILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLFHFGEPKSWYAIPEHGRRLERLAI
GFFPGSSQGCD AFLRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY
GKVATQCTCRKDMVKISMDVFVRILQPERYELWKQKDLTVLDHTRPTALTSPELSSWSASRASLKAKLLRRSHR
KRSQPKPKPEDPKFPGEGTAGAALLEEAGGSVKEEAGPEVDPEEEEEEPQPLPHGREAEAGAEEDGRGKLRPTKA
KSERKKKSFGLLPPQLPPPPAHFPSEEALWLPSPLEPPVLGPGPAAMEESPLPAPLNVVPPEVPSEELEAKPRPI
IPMLYVVRPGKA AFNQEHVSCQQA FEHFAQKGPTWKEPVSPMELTGPEDGAASSGAGRMETKARAGEGQAPSTF
SKLKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDALRPLLSLQWKNRAASFQAERKFNA
AAARTEPYCAICTLFYPYCQALQTEKEAPIASLGKGCPTLPSKSRQKTRPLIPEMCFTSGGENTEPLPANSYIG
DDGTSPLIACGKCCLQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNLRGGALQMTTDRRWIHVICAIAVP
EARFLNVIERHPVDISAIPQQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTSFHVTCAHAAGVLM EPDDWPYVVS
ITCLKHKSGGHAVQLLRAVSLGQVVITKNRNGLYYRCRVIGAASQTCYEVNFDDGSYSDNLYPESITSRDCVQLG
PPSEGELVELRWT DGNLYKAKFISSVTSHIYQVEFEDGSQ LTVKRGDIFTLEELPKRVR SRLSLSTGAPQEPAF
SGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 5199

TGCGACTGAGTCGGTGGCGAAGACGGGAACGCGACG**ATCG**CGGAGACTCTGCCCGGGTCGGGCGACTCGGGCCCT
GGCACGGCTTCTCTCGGCCCGGGCGTTGCGGAGACTGGGACGAGCGGCTCAGCGAGCTGCGGGTGATCGATCTG
CGGGCGGAGCTGAAGAAGCGGAACCTGGACACGGGCGGCAACAAGAGCGTCCTGATGGAGCGGCTCAAGAAGGCG
GTTAAAGAAGAGGGGCAAGATCCTGATGAAATTGGCATCGAGTTAGAAGCCACCAGCAAGAAGTCAGCCAAGAGA
TGTGTTAAAGGACTGAAGATGGAGGAGGAAGGCACAGAAGATAATGGCCTGGAAGACGATTCCAGAGACGGGCGAG
GAGGACATGGAAGCAAGTCTGGAGAACCTGCAGAATATGGGCATGATGGACATGAGTGTGCTAGACGAAACTGAA
GTGGCGAATAGCAGTGCTCCAGATTTTGGGGAGGATGGCACGGACGGCCTTCTCGATTCTTTTGTGATAGTAAA
GAATACGTGGCTGCACAGCTGAGACAGCTCCCGGCTCAGCCCCCAGAGCATGCTGTGGATGGGGAAGGATTTAAG
AACACTTTGGAACTTCATCGTTGAACTTCAAAGTAACTCCGGACATTGAAGAATCCCTTTTGGAGCCAGAAAAAT
GAGAAAATACTCGACATTTTGGGGGAACTTGTAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAG
CCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCGGAGGAAGAGGACCTATTTGACAGCGCC
CATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTG
TTAGCGGTAGTGAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTA
GAGCCGGCAGTTGAGCAGAGTAGTGCGGCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCC
ACGGAAGCCCCAAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAA
GTCCCTCCGGCTCCTAAAGAGTCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGCTCTTTTAAGGAAGAAAAA
GATATAAAGCCAATCATTAAAGATGAAAAAGGTCGGGTGCGCAGCGGTTCTGGTCGGAACCTGTGGGTGAGCGGG
CTGTCTCCACAACACGCGCTACGGATCTCAAGAACCTTTTCAGCAAGTATGGGAAGGTTGTGCGGGCCAAAGTG
GTAACGAACGCCCCGAGCCCGGGGGCTCGATGCTATGGATTGCTCACCATGTCGACATCTGACGAGGCACCAAG
TGATCAGCCATCTCCACAGAACTGAGCTGCATGGACGAATGATCTCCGTAGAGAAGGCCAAAAATGAGCCTGCT
GGGAAAAAGCTTTCCGACAGAAAAGAGTGCGAAGTGAAGAAGGAAAAATATCGAGTGTGACAGACATCATTTCT
GTGGAGATCAAAATTGAAAAAACTGTAATTAAGAAGGAAGAGAAGATTGAGAAGAAGGAGGAAAAAAGCCTGAA
GACATTAAGAAGGAAGAAAAAGACCAGGATGAGCTGAAACCCGGACCTACAAATCGGTCTAGAGTCACCAATCA
GGAAGCAGAGGAATGGAGCGGACGGTCTGATGGATAAATCGAAAGGAGAGCCCGTCATTAGCGTGAAAACCACA
AGCAGGTCCAAAGAGAGAAGCTCCAAGAGTCAGGATCGCAAGTCAGAAAGCAAAGAAAAGAGAGACATCTTGTCG
TTTGATAAAATCAAAGAACAAGGGAGAGAGAGCGCCAGAGGCAGCGGGAACGGGAGATCCGCGAAACGGAGAGG
CGGCGGGAGCGCGAGCAGCGGGAGCGGGAGCAACGCCTCGAGGCCTTCCATGAGCGGAAGGAGAAGGCCCCGGCTA
CAGCGGGAACGCCTGCAGCTCGAGTGCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAGCGGCTGGAG
CGCGAGCGCATGCGGTGGAGCGTGAGCGCAGGAAGGAGCAGGAGCGCATCCACCGCGAGCGCGAGGAGCTGCGG
CGCCAGCAGGAGCAGCTGCGTTACGAGCAGGAGCGGCGGCCCCGGGCGGAGGCCCTACGACCTGGACCGACGAGAT
GATGCCTATTGGCCAGAAGGAAAGCGTGTGGCAATGGAGGACCGATATCGTGACAGCTTTCCCCGGCCAGACCAC
CGCTTTTACGACTTCGATCATCGAGACCGGGGCCAGTACCAGGACCACGCCATCGACAGGCGGGAGGGTTTCGAGG
CCAATGATGGGAGACCACCGGGATGGGCAGCACTATGGAGATGACCGCCATGGCCACGGAGGACCCCCAGAGCGC
CACGGCCGGGACTCCCGTGATGGCTGGGGGGGCTACGGCTCCGACAAGAGGCTGAGTGAAGGCCGGGGGCTGCC
CCTCCCCCAGGGGTGGCCGTGACTGGGGAGAGCACAACCAGCGGCTAGAGGAGCACCAGGCACGCGCCTGGCAG
GGTGCCATGGACGCAGGCGCGGCTAGCCGGGAGCAGCCAGGTGGCAAGGTGGCGAGAGGGGCTGTCTGGGCCC
TCGGGGCCGGGGCACATGGCAAGCCGCGGTGGAGTGGCGGGGCGAGGCGGCTTGCACAAGGTGGACATTTCCAG
GGCCACGTGGTGCCAGGTGGCGGACTGGAAGGTGGCGGAGTGGCCAGCCAGGACCGGGGCGAGCAGAGTCCCTCAC
CCACACCCTCATCCCCCCCCGTACCCCCACTTCACCCGCCGCTAC**TAA**GTCCCACTCGCTGTGAGTTTTTCGGGTG
GGCAGACGCACTGTTGAATCTGGTAGCCAGGGTTCCCTCGAACTTGGGGGATCTTTTTTAAAGCAAAGTAAATCC
TGCCACCATGTTGTAGCTCAATACAATGTGAACTCACTTTTTTTTTTTTTTAATAAATGTGTTCTTGTTCTGC
CATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAATAAAGTTTACCATTTCGAAAAA
ATGTGTTCTTGTTCTGCCATTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAATAAAGTTT
CCATTTCG

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FIGURE 5200

MAETLPGSGDSGPGTASLGPGVAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERLKKAVKEEGQDPDEIG
IELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDQGEDMEASLENLQNMGMMDMSVLDETEVANSSAPDFGED
GTDGLLDSFCDSKEYVAAQLRQLPAQPPEHAVDGEFGKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCK
SEPVKEESSELEQPFQAQDTSSVGPDRKLAEEEDLFDSAHP EEGDLDLASESTAHQAQSSKADSL LAVVKREPAEQP
GDGERTDCEPVGLEPAVEQSSAASELAEEASSEELAEAPTEAPSPEARDSKEDGRKFDFDACNEVPPAPKESSTSE
GADQKMSSFKEEKDIKPIIKDEKGRVSGSGRNLWVSGLSSTTRATDLKNLFSKYGKVVGAKVVTNARSPGARC
GFVTMSTSD EATKCISHLRTELHGRMISVEKAKNEPAGKKLSDRKECEVKKEKLSSVDRHHSVEIKIEKTVIKK
EEKIEKKEEKKPEDIKKEEKDQDELKPGPTNRSRVTKSGSRGMERTVMDKSKGEPVISVKTTSRSKERSSSKSQD
RKSESKEKRDILSFDKIKEQRERERQRQREREIRETERRREREQREREQRLEAFHERKEKARLQRERLQLECRQ
RLERERMERERLERERMRVERERRKEQERIHREEREELRRQQEQRLRYEQERRPGRRPYDLDRRDDAYWPEGKRVAM
EDRYRADFP RPDRHFDHFDHRDRGQYQDHAIDRREGSRPMMGDHRDGGHYGDDRHHGGPPPERHGRDSRDGWGGY
GSDKRLSEGRGLPPPPRGGRDWGEHNQRLEE HQARAWQGAMDAGAASREHARWQGGGERGLSGPSGPGHMASRGGV
AGRGGFAQG GHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPPPPYPHFTRRY

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FIGURE 5201

GACCGGGGCGTGCGGAGGGATGTGGCCCGGAATATTGGTAGGGGGGGCCCGGGTGGCGTCATGCAGGTACCCCGC
GCTGGGGCCTCGCCTCGCCGCTCACTTTCCAGCGCAGCGGCCGCCGAGCGGACACTCCAGAACGGCCTGGCCCT
GCAGCGGTGCCTGCACGCGACGGCGACCCGGGCTCTCCCGCTCATTCCCATCGTGGTGGAGCAGACGGGTGCGGG
CGAGCGCGCCTATGACATCTACTCGCGGCTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCCGATCGATGACAG
CGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCCTGCAATCCGAGAGCAACAAGAAGCCCCATCCACATGTACAT
CAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTCAACCCGATCTG
CACCTGGTGCCTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCACCCCAGGCATGCGCCACTC
GCTCCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCAAGCCACAGACATTGCCATCCA
GGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCCAAGCACACCAAACAGAGCCTGCAGGT
GATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGGAGGCCAGGAGTTTGGCATCTTAGACAAGGT
TCTGGTCCACCCTCCCCAGGACGGTGAGGATGAGCCACGCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGC
AGCAGAACCTGTCCCAGCTAGCACCTTGAGAGCTGGGCCTCCTCTCCAGAATCATGTGGAGGGGCCAGAGGCTTGC
CAGACCCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGGAGGGGCCTCTTGAGGAACTTTTAATTTGCA
GGGGTGCCCGCTATGGACGGGGCATTCCAGCTGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTT

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FIGURE 5202

MWPGILVGGARVASCRYPALGPRLAAHFPAQRPPQRTLQNGLALQRCLHATATRALPLIPIVVEQTGRGERAYDI
YSRLLRERIVCVMGPIDDSVASLVIAQLLFLOSESNNKPIHMYINSPGGVVTAGLAIYDTMQYILNP ICTWCVGQ
AASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAAEIMKLKKQLYNIYAKHTKQSLQVIESAME
RDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

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FIGURE 5203

TGTGGAGCGAAGCCTTGTTCCCGCGTTGAGCCGCCGCCGCCGCCGCCCTCCTCAGCTTCAGCCTCCGCGCCAG
GCCCCGCCCCCGCCGCGCC**ATG**TCGGACTACAGCACGGGAGGACCCCCGCCCGGGCCGCCGCCCGCCCGGGCGGG
GGCGGGGGAGCCGGAGGCGCCGGGGGAGGCCCTCCGCCGGGCCGCCAGGCGCGGGGGACCGGGGCGGCGGGCGGT
CCCTGCGGCGGCGGCCCGGGCGGGGGGTGCGCCGGGGGCCCTCTCAGCCACCGGCGGAGGCGGCCCGGGAATC
CGCAAGGACGCTTTCGCCGACGCCGTGCAGCGGGCCGCCAGATTGCAGCCAAAATTGGAGGCGATGCTGCCACG
ACAGTGAATAACAGCACTCCTGATTTTGGTTTTGGGGGCCAAAAGAGACAGTTGGAAGATGGAGATCAACCGGAG
AGCAAGAAGCTGGCTTCCCAGGGAGACTCAATCAGTTCTCAACTTGGACCCATCCATCCTCCCCAAGGACTTCA
ATGACAGAAGAGTACAGGGTCCCAGACGGCATGGTGGGCCTGATCATTGGCAGAGGAGGTGAACAAATTAACAAA
ATCCAACAGGATTACAGGCTGCAAAGTACAGATTTCTCCAGACAGCGGTGGCCTACCCGAGCGCAGTGTGTCTTG
ACAGGAGCCCCAGAATCTGTCCAGAAAGCCAAGATGATGCTGGATGACATTGTGTCTCGGGGTGCTGGGGGCCCC
CCAGGACAGTTCCACGACAACGCCAACGGGGGCCAGAACGGCACCGTGCAGGAGATCATGATCCCCGCGGGCAAG
GCCGGCCTGGTCATTGGCAAGGGCGGGGAGACCATTAAAGCAGCTGCAGGAACGCGCTGGAGTGAAGATGATCTTA
ATTACAGGACGGATCTCAGAATACGAATGTGGACAAACCTCTCCGCATCATTGGGGATCCTTACAAAGTGCAGCAA
GCCTGTGAGATGGTGAATGGACATCCTCCGGGAACGTGACCAAGGCGGCTTTGGGGACCGGAATGAGTACGGATCT
CGGATTGGCGGAGGCATCGATGTGCCAGTGCCAGGCATTCTGTTGGCGTGGTCATTGGCCGGAGTGGAGAGATG
ATCAAGAAGATCCAGAATGATGCTGGCGTGCGGATACAGTTCAAGCAAGATGACGGGACAGGGCCCCGAGAAGATT
GCTCATATAATGGGGCCCCCAGACAGGTGCGAGCACGCAGCCCGGATCATCAACGACCTCCTCCAGAGCCTCAGG
AGTGGTCCCCCAGGTCCTCCAGGGGGTCCAGGCATGCCCCGGGGGGCCGAGGCCGAGGAAGAGGCCAAGGCAAT
TGGGGTCCCCCTGGCGGGGAGATGACCTTCTCCATCCCCACTCACAAGTGTGGGCTGGTCATCGGCCGAGGTGGC
GAGAATGTGAAAGCCATAAACCAGCAGACGGGAGCCTTCGTAGAGATCTCCCGGCAGCTGCCACCCAACGGGGAC
CCCAACTTCAAGTTGTTTCATCATCCGGGGTTACCCCCAGCAGATTGACCACGCCAAGCAGCTTATCGAGGAAAAG
ATCGAGGGTCTCTCTGCCCAGTTGGACCAGGCCAGGTGGCCCAGGCCCTGCTGGCCCAATGGGGCCCTTCAAT
CCTGGGGCCCTTCAACCAGGGGCCACCCGGGGCTCCCCACATGCCGGGGGGCCCCCTCCTCACCAGTACCCACCC
CAGGGCTGGGGCAATACCTACCCCCAGTGGCAGCCGCTGCTCCTCATGACCCAAGCAAAGCAGCTGCAGCGGCC
GCGGACCCCAACGCCGCGTGGGCCGCTACTACTCACACTACTACCAGCAGCCCCCGGGCCCCGTCCCCGGCCCC
GCACCGGCCCTTGGGCCCCACCGGCTCAGGGTGAGCCCCCTCAGCCCCACCCACCGGCCAGTCGGACTACACT
AAGGCCTGGGAAGAGTATTACAAAAGATCGGCCAGCAGCCCCAGCAGCCCGGAGCGCCCCCACAGCAGGACTAC
ACGAAGGCTTGGGAGGAGTACTACAAGAAGCAAGCGCAAGTGGCCACCGGAGGGGGTCCAGGAGCTCCCCCAGGC
TCCCAGCCAGACTACAGTGCCGCCTGGGCGGAATATTACAGACAGCAGGCCGCTTACTACGGACAGACCCAGGT
CCTGGCGGCCCCCAGCCGCCGCCACGCAGCAGGGACAGCAGCAGGCTCAAT**TGA**ATCGAATGAATGTGAACCTTCT
TCATCTGTGAAAAATCTTTTTTTTTTCCATTTTGTCTGTTTGGGGGCTTCTGTTTTGTTTGGCGAGAGAGCGAT
GGTGCCGTGGGGAGTACTGGGGAGCCCTCGCGGCAAGCAGGTTGGGGGGGACTTGGGGGCATGCCGGGCCCTCAC
TCTCTCGCCTGTTCTGTGTCTCACATGCTTTTTCTTTCAAATTTGGGATCCTTCCATGTTGAGCCAGCCAGAGAA
GATAGCGAGATCTAAATCTCTGCCAAAAAAAAAAAAAATTAAAAATTAAAAACACAAAGAGCAAAGCAGAATT
ATAAAATTATATATATATATATATTAAGTCTCTATTCTTACCCCCAGCCTTCTGAACCTGCCTCTCTGAGG
ATAAAGCAATTCATTTTCTCCACCTCGGCCCTCTGTTTTTAAATAAACTTTTAAAAAGGAAAAAAAAAAGT
CACTCTTGCTATTTCTTTTTTTTAGTTAGAGGTGGAACATTCCTTGGACCAGGTGTTGTATTGCAGGACCCCTTC
CCCCAGCAGCCAAGCCCCCTTCTCTCCCTCCCGCCCTGGCTCAGCTCCCGCGGCCCGCCCGTCCCCCTCCC
AGGACTGGTCTGTTGTCTTTTCATCTGTTCAAGAGGAGATTGAACTGAAAACAAAATGAGAACAACAAAAAAA
TTGTATGCGAGTTTTTACTTTTTATCGCTCGTTTTTAACCTCACAAATAAATGATAACAAAACCTCAAAAAAAA
AAAAAAA

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FIGURE 5204

MSDYSTGGPPPGPPPPAGGGGGAGGAGGGPPPGPPGAGDRGGGGPCGGGPGGGSAGGFSQPPGGGGPGIRKDAFA
DAVQRARQIAAKIGGDAATTNNSTPDFGFGGQKRQLEDGDQPESKKLASQGDSISSQLGPIHPPPRTSMTTEYR
VPDGMVGLIIGRGGEQINKIQQDSGCKVQISPDSSGGLPERSVSLTGAPESVQKAKMMLDDIVSRGRGGPPGQFHD
NANGGQNGTVQEIMIPAGKAGLVIGKGGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM
DILRERDQGGFGDRNEYGSRIIGGGIDVPVPRHSVGVVIGRSGEMIKKIQNDAGVRIQFKQDDGTGPEKIAHIMGP
PDRCEHAARIINDLLQSLRSGPPGPPGGPGMPPGGRGRGRGQGNWGPPEGEMTFSIPTHKCGLVIGRGGENVKAI
NQQTGAFVEISRQLPPNGDPNFKLFIIRGSPQQIDHAKQLIEEKIEGPLCPVGPGGPGPAGPMGPFNPGPFNQ
GPPGAPPHAGGPPPHQYPPQGWGNTYPQWQPPAPHDP SKAAAAAADPNAAWAAYYSHYYQQPPGPVGPAPAPAA
PPAQGEPPQPPPTGQSDYTKAWEEYYKKIGQQPQQPGAPPQQDYTKAWEEYYKKQAQVATGGGPGAPPGSQPDYS
AAWAEYYRQQAAYYGQTPGPGGPQPPPTQQGQQQAQ

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FIGURE 5205A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGCGGCTGGAGAGCGAGGAGACCATGGTGCTGGAGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGCTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGAGAAAGTGGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCCGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAACTCACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTCTAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTCACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAACCTGCCCTTTGTATCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCCCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGACGCGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTTCGTGACGAACCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCAGGGAGATGGC
GTGGCCAACTCAGCATCAACACACACCCCGAGCCAGAAGCCCTTGAGCATCACGGTGCGCACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAACTTCCTCTCGGAATGGAC
CGCGCCACGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCGGCCAGGACCTGGTGGTGCTGCCCCTGTCCATCACCACCGACTTCATCCCTTCCTTCGCG
CTGGTGGCGTACTACACGCTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCCTGAAGATAGAGGGTGACCACGGGGCCCGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCTGTGCTG
AATAAGAAGAACAACTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCGCCCGCCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGCTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGGACCCGTTTCTATCTCCCTGGGCGAGGCGTGAAGAAGGTCTTCTGGAAGTGTGCAACTAC
ATCAGAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCTACTCTGTTGTTTGAACGAGCAGGTGGAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAATACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCAAGTCCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCTGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTTCGCACCCTGGATCCAGAACGCTGGGCCGTGAA
GGAGTGCAGAAAGAGGACATCCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCAGTGGCCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTTCGGCCTAGAGAAGCGGCAGGGGGCCTTGGAGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCCTCTGCGGGGCTGTTAAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCCTTGAAGCCAACCTAC

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FIGURE 5205B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCCAAGCCTTGGCT
CAATACCAAAGGACGCCCCCTGACCACCAGGAACTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGACAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTGCGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTCGACCTCAAGGTCACCATAAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCACCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTGAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAAACACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCCGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTGACCACACCCCCATTCC

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FIGURE 5206

GGCCGCGGTGGTGGCTGCGGCGGCGGCGGGAGCAGC**ATGG**ATTGGGGCACTGAGCTGTGGGATCAGTTCGAG
GTGCTCGAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAA
GTGGAACAGGCTTACGCCAAACAACCTGCGGAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGAT
CCTGAGTCCAAATTCAGCCAGCAACAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGG
GAGCTGGTGGCTGAGAACCTCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAG
AGGAAGATGCACTTCCAAGAAGGGCGGCGGGCCAGCAGCAGCTGGAAAATGGCTTTTAAACAGCTGGAGAATAGT
AAGCGTAAATTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATC
AACGCCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAA
AACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACCTTCTATTTTTTCACAGATGCCCCAGATA
TTGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCCTGGGTGCCGGGTATGGGCTCCTGTCTGGAGGCC
GAGCTGGAGGTGGTGCCATAATAGCCAAGTGCTTGGAGGGCATGAAGGTGGCTGCAAATGCTGTGGATCCCAAG
AACGACTCCACGTCCTTATAGAGCTGCACAAGTCAGTTTTTGGCCGCCGGGCGACGTGGAATTCGAGGACTTC
AGCCAGCCCATGAACCGTGCACCCTCCGACAGCAGTCTGGGCACCCCTCGGATGGACGGCCTGAACCTCCGAGGC
CCGGGTGCGAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAACAAGACAGTGGTGACCGAGGATTTTAGCCAC
TTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACTTCAGAAGGAGGTT
GACCAGAGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCCGCCAGCTTG
GAGCCCCAGATCGCTGAAACCTTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTG
GCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCGGCCTCCCGACCCCCC
GCTAGCGCCCCGCCAGACAGCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCA
GAAGAGAGCCAGGACACCCCATTTACACGGAGTTTGATGAGGATTTTCGAGGAGGAACCCACATCCCCCATAGGT
CACTGTGTGGCCATCTACCACTTTGAAGGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGT
CTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTGAGGCGGAAAGAGGGAGGCGAGGGCTACGTGCCCACC
TCCTACCTCCGAGTCACGCTCAAT**TGA**ACCCTGCCAGAGACGGGAAGAGGGGGGCTGTGCGCTGCTGCTTCTGGG
CCACGGGGAGCCCCAGGACCTATGCACTTTATTTCTGACCCGTGGCTTCGGCTGAGACCTGTGTAACTGTCTGC
CCCCTCCACCCCAACCCAGTCCTACCTGTACACCGGACGGACCCGCTGTGCCTTCTACCATCGTTCCACCATT
GATGTACATACTCATGTTTTACATCTTTTCTTTCTGCGCTCGGCTCCGGCCATTTTGTTTTATACAAAAATGGGT
TTTTTTTTTTTCTTTAATATATTTCAAGAGATTTTTTTTTTTTTTTTTTTT

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FIGURE 5207

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQQS FVQ
ILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRKFERDCREAEK
AAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMDERRAT
RLGAGYGLLSEAELEVVP IIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL
GTPSDGRPELRGPGRSRTKRWPFGKKNKTVVTEDFSHLPPEQQQRKRLQQQLEERSRELQKEVDQREALKKMKDVY
EKTPQMGPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRGDSL SRHARPPDPPASAPPDSSSNSAS
QDTKESSEEPPEESQDTP IYTEFDEDFEEPTSPIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRV
RRKEGGEGYVPTS YLRVTLN

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FIGURE 5208

CGGGGGTGACAGCAGCCCGGAGCCGCGGAGCCTCAGCTTCCGCCTGGACCCAGCCTCGTGGGAGCCCCGCGGGTC
CTGCCCAGATGTGGAAGACTGAGGCCTGTTGAAAGTGCAGAGCTCAGCCCTGGCACCCCTCTGTTCCCAAGAGCTC
CATGCAGGTGCCACAGGATGGAGAAGACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCCAGAAGGC
TGAAGCTCTTCTTCAGCAAGATGGCGACTTCCTGGTTCGCGCCTCTGGGTCCCGTGGGGGCAACCCCGTGATCTC
CTGCCGCTGGCGGGGCTCAGCCCTCCATTTTGAGGTGTTCCGTGTGGCCCTGCGTCCCCGGCCAGGCCGACCCAC
AGCCCTCTTTCAACTGGAGGATGAGCAATTCCCCAGCATAACGGCTCTGGTTCACAGTTATATGACAGGCAGGCG
CCCACTGTCCCAGGCCACAGGGGCTGTGGTCTCCAGGCCTGTGACTTGGCAGGGGCTCTGCGACGCAGCTTTAG
CGAGGACACCCTGATGGATGGCCAGCTCGGATAGAGCCTCTCAGGGCAAGGAAGTGGAGCAACAGTCAGCCTGC
AGATTTGGCACATATGGGGCGGTCAAGAGAAGACCCCGCTGGGATGGAAGCCTCCACCATGCCCATATCTGCCTT
GCCCCGAACGAGCAGTGACCCGGTGTGCTGAAGGCCCTGCTCCCCTGGGAAGTGTGCGACAGTCTCAGGGC
CTCCGATGGGCAGCTTCAAGCCAAGGCACCAACGAAGCCCCCGGACACCCTCCTTCGAAGTGCCTGATGCCTC
TGAACGTCCCCCGACGTACTGCGAGCTGGTGTCCCGAGTGCCAGTGTCCAGGGAACATCCCCGAGCCAAAGCTG
CCCAGAGCCAGAGGCCCATGGTGGGAGGCCGAGGAGGATGAGGAGGAAGAGAATAGATGTTTTACAAGACCACA
GGCTGAGATCTCTTTCTGCCCCATGATGCCCCCTCTGCTGCTGGGCCCCAGAATCGGCCCTGGAACCCCA
AGTCTGTCATACCCTCCGTGGCCTGTTCTGGAGCACCATCCTGGGAGCACCGCCCTTCACCTGCTATTGGTAGA
CTGCCAGGCCACAGGCCTCCTGGGAGTGACCAGAGATCAGCGGGGCAACATGGGAGTCTCATCTGGCCTGGAGCT
GCTCACTCTTCCCCATGGACACCACTTGAGGTTGGAAGTCTGGAGAGGCATCAGACACTGGCGCTGGCCGGGGC
GCTGCGGCTGCTGGGCTGCTCGGGGCGCTGGAGGAGCGCGCAGCCGCACTGAGGGGACTGGTAGAGCTGGCGCT
GGCGCTGCGGCCAGGGGCGGCGGGGACCTGCCCCGGGCTGGCTGCAGTCATGGGCGCCCTGCTCATGCCCCAGGT
GTCCCGGTTGGAGCACACGTGGCGCCAGCTCCGAAGGAGCCACACGGAGGCTGCGCTGGCCTTTGAGCAGGAGCT
GAAGCCGCTGATGCGGGCTCTGGATGAGGGCGCTGGACCCCTGCGACCCCGGCGAGGTGGCGCTGCCGCACGTGGC
ACCCATGGTTTCGCTACTGGAGGGCGAGGAAGTCGCGGGGCGCTGGACGAGAGCTGTGAGCGGCTGTTGCGCAC
CCTGCACGGGGCGCGTCACATGGTCCGGGACGCACCCAAATTCCGCAAGGTGGCAGCCAGCGCCTGCGAGGATT
CCGGCCTAACCCGGAGCTGAGGGAGGCCCTGACCACGGCTTCGTGCGGAGGCTGCTCTGGGGTAGCCGGGGCGC
GGGAGCTCCGCGCGCTGAACGCTTTGAGAAGTTCCAGCGCTCCTCGGCGTCCCTGTCGAGCGCCTGGAGCCTGA
CCGCT**TGAG**AGCGCAGACACCCTTCTTCACACCCGGGACCCCCAGGTTTTTGCGAACCCAGAAAGAGACCAAGGA
GTCGTCCCAGGCTCCTCGCGCTCAGGTGGAATCCTGCCCTGTGCCTCACAGAAGAGGTGGGGACCGCAGTCAGG
GTCACCTGGACCATGGTGAACATGTGACCTGCAGATCTGGCATCAGAGGCCAGAGTTCAAATGTGACTCCACCTC
TAAAAGCCGTGATTTCTAGCAGTTGACTTCACCTCTGTGTGCGCCTTTAACAAAATCATAGCCATACAGCAGCT
CAGGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGAAGGAAGGCTTGAGGCCAGGAGTTCAAGACCAGCCAG
GGCAACATGGTGAGACCTCATCTCTACAAAACTGAAAAATAAAAAACTTTTAAAAAATGTAAAAA

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FIGURE 5209

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQQDGDFLVRASGSRGGNPVISCWRGSSALHFEVFRVALRPRPGRPT
ALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSRPVTWQGPLRRSFSEDTLMDGPARIEPLRARKWSNSQPA
DLAHMGRSREDPAGMEASTMPI SALPRTSSDPVLLKAPAPLGTVADSLRASDGQLQAKAPTKPPRTPSFELPDAS
ERPPITYCELVPRVPSVQGTSPSQSCPEPEAPWWEAEDEEEENRCFTRQAEISFCPHDAPSCLLGPQNRPLEPQ
VLHTLRGLFLEHHPGSTALHLLLVDCCQATGLLGVTRDQRGNMGVSSGLELLTLPHGHHLRLELLERHQTLALAGA
LAVLGCSGPLEERAAALRGLVELALALRP GAAGDLPGLAAVMGALLMPQVSRLEHTWRQLRRSHTAALAFEQEL
KPLMRALDEGAGPCDPGEVALPHVAPMVRLLEGEEVAGPLDESCERLLRTLHGARMVRDAPKFRKVAAQRLRGF
RPNPELREALTTGFVRLLWGSRGAGAPRAERFEKFQRVLGVLSQLPDR

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FIGURE 5210

AGGGAAGACACGCGTGACCCGGAAGGTCTTCCCGCCACACTCCAGAGCGGATGTGAGGGGCGCCGATGGCGGAGG
GAACGGCGGAGGCTCCTCTAGAGAATGGTGGTGGTGGCGACTCGGGAGCCGGAGCTTTGGAACGAGGAGTGGCGC
CCATTAAGCGTCAATACCTCACCACCAAGGAGCAGTTTTACCAATTCCTGGAAGCCAAAGGGCAGGAGAAGACTT
GCCGGGAAACCGAGCTGGACATCCGTGGCAAACCTTTACCTGGCCCCCTCACCACGTGTGGGAACCTGCCCTTCC
GACGGATCTGCAAGCGCTTCGGGGCGGATGTGACATGTGGAGAGATGGCCGTCTGCACCAACCTGCTGCAGGGCC
AGATGTCCGAGTGGGGCCCTACTCAAACGCCACCAGTGTGAGGACATCTTTGGCGTCCAGCTGGAGGGCGCCTTCC
CCGACACCATGACCAAGTGTGCCGAGCTGCTGAGCCGCACCCTGGAGGTGGACTTTGTGGACATCAACGTTCGGCT
GCCCCATCGACCTCGTGTACAAGAAGGGTGGGGGCTGTGCCCTCATGAATCGCTCCACCAAGTTCCAGCAGATCG
TCCGTGGCATGAACCAGGTGCTGGATGTGCCGCTGACTGTGAAGATCCGCACAGGCGTCCAGGAGCGTGTGAACC
TGGCGCACCGCCTGCTGCCCCGAGCTGCGGGACTGGGGCGTGGCACTCGTCACGCTCCACGGCCGCTCTCGGGAGC
AGCGCTACACCAAGCTAGCCGACTGGCAGTACATCGAGGAGTGCCTGCAGGCCGCCAGCCCCATGCCCTGTTCG
GAAATGGGGACATCTTGTCAATTTGAGGATGCCAACCGCGCCATGCAGACTGGTGTACACGGGATCATGATTGCC
GTGGCGCCCTGCTCAAGCCGTGGCTCTTCACGGAGATCAAGGAGCAGCGGCACTGGGACATCTCGTCGTCCGAGC
GCCTGGACATCCTGCGGGACTTCACCAACTACGGCCTGGAGCACTGGGGCTCGGACACGCAGGGCGTGGAGAAGA
CCCGGGCGCTTTCTGCTCGAGTGGCTGTCCTTCCTGTGCCGTACGTGCCCGTGGGGCTGCTGGAGCGGCTCCAC
AGAGGATCAACGAGCGGCCGCCCTACTACCTGGGCCGCGACTACCTGGAGACGCTGATGGCCAGCCAGAAGGCAG
CCGACTGGATCCGCATCAGCGAGATGCTCCTTGGGCCAGTCCCCCAGCTTCGCCTTCTTGCCGAAGCACAAGG
CCAACGCGTACAAGTAGCCTCAGGCTTTCCCAGGGGCACCCTGGGGCGAGGAGAGTACAATAAATTTTATTTCTTT
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FIGURE 5211

MAEGTAEAPLENGGGGDSGAGALERGVAPIKRQYLTTKEQFHQFLEAKGQEKTCRETEVGDPAGNELAEPEAKRI
RLEDGQTADGQTEEAEPGEQLQTQKRARGQNKGRPHVKPTNYDKNRLCPSLIQESAACKCFFGDRCRFLHDVGRY
LETKPADLGPRCVLFETFGRCPYGVTCRFAGAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVR
ERAEQALRRFSQGPTPAAAVPEGTAAGAPRQENCGAQQVPAGPGTSTPPSSPVRTCGPLTDEDVVRLRPCEKKR
LDIRGKLYLAPLTTCGNLPFRRICKRFGADVTCGEMAVCTNLLQGQMSEWALLKRHQCEDIFGVQLEGAFPDMT
KCAELLSRTVEVDFVDINVGCPIDLVIKKGGGCALMNRSTKFQQIVRGMNQVLDVPLTVKIRTGVQERVNLHRL
LPELRDWGVALVTLHGRSREQRYTKLADWQYIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALL
KPWLFTEIKEQRHWDISSERLDILRDFTNYGLEHWGSDTQGVEKTRRFLEWLSFLCRYVPVGLLERLPQRINE
RPPYYLGRDYLETLMASQKAADWIRISEMLLGFPVPPSFAFLPKHKANAYK

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FIGURE 5212

CGGGTTTTCCAATCTCTGTGTAGCTAGCAGTTCTCTTCGTGTTAGTGTGGCAGCCGTGCCAGTTCCACATTTGTG
ATTGCTTTATTTCCCTGGTAATTAAACCTTGTGCCATTCTATTCTGTAAATCCGTAGAAAATGAGAAAATACT
CGACATTTTGGGGGAACTTGTAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAGCCATTTGCACA
GGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGAAGAGGACCTATTTGACAGCGCCCATCCGGAAGA
GGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGT
GAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGT
TGAGCAGAGTAGTGCGGCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCC
AAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAAGTCCCTCCGGC
TCCTAAAGAGTCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGGTTTGTTTTTTCTCAGTTTGTAGACCAGACG
CTATCTCCTTTTCATTGGTCATGTAATGACACACATAAGCTGTTTTTTCTGCAATTGGCCAGCCAGACTGACGA
AATTGTAGTTTTGCTTCTAAAGAATGTTTCGTTTCTCTTTGTGTGTTTTTAATGGGTGATTCAATTCCTTTTCTT
TTTCTCAACCTACCATGGTTGTGTTCTTAAATTCTTCCTAATTACCTTTAGCCCAGCAGAATTAATTAACCTCTG
TGGGTCTGAAATCTTATGGTTAGGTCAGATTTTCAATACAAGTTTGTGCGGGTATCATTTTTTTCAGAACTAAATT
TCGGGTAGGTATGCAACCTCAGCACGAATTTTATGGTTTTGAGTTTGTTCCTCCATGCTGCTTCCTTGTGGAGT
GACATTGTCTTTTGTCTCTAGTTCTCCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGAGGAAAAGGGTCG
CAGCAGTTGTGGTAGAAATTTCTGGGTTAGTGGACTCTCTTCTACAACCAGAGCTACAGATTTGAAGAATCTTTT
CAGCAAATATGGGAAGGTGGTGGGCGCCAAGGTTGTGACAAATGCCCGGAGTCCTGGAGCTCGCTGTTACGGTTT
TGTCACGATGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACCTGCACAAGACGGAGCTCCACGGAAAGAT
GATCTCCGTGGAGAAAGCCAAAAATGAACCTGTGGGAAAGAAAACCTCTGACAAAAGAGACAGTGACGGGAAAAA
GGAGAAGTCGAGCAACAGTGACAGATCTACAAACCTTAAGAGGGATGATAAATGTGACAGAAAAGATGATGCTAA
GAAGGGTGACGACGGAAGTGGAGAAAAGAGTAAGGACCAAGATGATCAGAAACCTGGCCCCCTCAGAGCGATCTCG
AGCCACAAAGTCAGGAAGTCGAGGGACCGAACGGACTGTAGTAATGGATAAATCCAAAGGGGTGCCTGTGATTAG
TGTA AAAACGTCCGGTCCAAAGAGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTC
CGTCGTGTCCTTTGATAAGGTCAAGGAGCCTCGGAAGTCAAGAGACTCAGAGTCCCATAG

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FIGURE 5213

CGAACTCCGCCCCCTCTTCTCCGCGTAGGCCAGCTCCCTGAAGCGGCTGTTTCGAGCCACGCGCCCATCGGGTA
CCGAGGCACGCGCCGGGCGTCACGTGCGTTTCGCGGCGAGCGGAAATGACGCGAGTTGTGTGAGCCGCCAGTATG
GCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCGCGGTGCTGGGTGCTGCGGCGGCCGA
TGCTGGCCGCCGCCGGGGGGCGGGTTCCCACTGCAGCAGGAGCGTGGTTGCTCCGAGGCCAGCGGACCTGCGACG
CCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGGCAATTGGGGGCCAATGGCGGGGGTTTTGGGAAGCGAGCA
GCCGCGGCGGAGGCGCATTCTCGGGGGCGAGGACGCCCTCCGAGGGCGGCGCGGAGGAAGGAGCCGGCGGCGCG
GGGGCAGCGCGGGCGCCGGGAAGGCCCGGTCAACGGCGCTCACGCCCATGACGATCCCCGATGTGTTTTCCGC
ACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCCCGCGCTTTATCAAGATTATCGAGGTTAAAAATAAGA
AGTTGGTTGAGCTGCTGAGAAGGAAAGTTCGTCTCGCCAGCCTTATGTGCGGCTCTTTCTAAAAGAGAGATGACA
GCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGGACGTTTGCCAGATCCATGAGATGC
AGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAGCTGGAGGTGG
AGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAAGCCCCGAGGAAGTCAAAGCGGGGCAAGAAGGAGGCGGAGG
ACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCCACCCCTGAGCTCCCGGCTGAGGTGCTCATGG
TGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTACGAGGAGGAGTGAAAGCCCTGACTGCAGAGATCGTGA
AGACCATCCGGGACATCATTGCCTTGAACCCCTCTCTACAGGGAGTCAGTGCTGCAGATGATGCAGGCTGGCCAGC
GGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACCGGGGCCGAGTCCCATGAGCTGCAGG
ACGTCTTGGAAGAGACCAATGTGGAGGAGAAGATCAAGCAGACCCACCGTAAGTACCTGCTGCAGGAGCAGCTAA
AGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTTCCGGGAGCGCCTGA
AGGAGCTCGTGGTCCCCAAGCACGTATGGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACC
ACTCCTCGGAGTTCAATGTACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGCAAGTACAGCAACG
AGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAAGACCACTACGGCATGGAGGACGTCAAGAAACGCA
TCCTGGAGTTCATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATCCTCTGCTTCTATGGCCCCCCTG
GCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCCGCGCCCTGAACCGAGAGTACTTCCGCTTCAGCGTCGGGG
GCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACCTACGTGGGCGCCATGCCCGGGAAGATCATCCAGT
GTTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATCGACGAGGTGGACAAGATCGGCCGAGGCTACCAGG
GGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAGCAGAATGCCAACTTCTGGACCACTACCTGGACG
TGCCCGTGGACTTGTCCAAGGTGCTGTTTCATCTGCACGGCCAACGTCACGGACACCATCCCCGAGCCGCTGCGAG
ACCGTATGGAGATGATCAACGTGTGGGGCTACGTGGCCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGC
CCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTCATCGGACGTGCTGACGCTGCTCATCA
AGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAAGCAAGTGGAGAAGGTGTTACGGAAATCGGCCTACA
AGATTGTGACGGCGAGGCGAGTCCGTGGAGGTGACGCCCAGAACTGCAGGACTTCGTGGGGAAAGCCCGTGT
TCACCGTGGAGCGCATGTATGACGTGACACCGCCCCGGCGTGGTTCATGGGGCTGGCCTGGACCGCAATGGGAGGCT
CCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGTGACAAGGATGGCAGCCTGG
AGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCCTACACCTTCGCCAGAGCCTTCCTCA
TGCAGCACGCCCCCGCCAATGACTACCTGGTGACCTCACACATCCACCTGCATGTGCCGAGGGCGCCACCCCCA
AGGACGGCCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGA
ATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTG
CGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCTGCCAGCCGAGAACAAGAAGGACTTCTACGACCTGGCAGCCT
TCATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACACTACCGGGAGATCTTCGACATCGCCTTCCCGGACGAGC
AGGCAGAGGCGCTGGCCGTGGAACGGTGACGGCCACCCCGGACTGCAGGCGGCGGATGTGAGGCCCTGTCTGGG
CCAGAAGTGAAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAGTGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGAC
CCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGCATAGAAGCTATTTAATGATTAAAGTCATTGCGAG
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FIGURE 5214

GGAGGGCTTAAGGAAGTAAAATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGT
TTCAGAAGGATAAAGGACAAAAGTCCCCTGCAGAGCAAAAAAACTTGTCTGGATTCCGGAGAGGAGCCTCGGGGGG
AGGCTGAGGCCCCCACCATGGCACGGGTACCCCGAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCTG
CTGGCGCCTCAGCCAGCACTCCTCCGCCTCCCGCTCCTGAAGCCCAGCTTCCTCCTTTTCCGCGAGAAGTGGCAG
GGAGGTCAGCTGGCGGCTCCAGTCCCTGAAGGCGGAGAAGATTCTGACAGAGAAGATGGAAATTACTGCCCTCCTG
TCAAGCGAGAAAGAACATCCTCTTTAACCAGTTCCACCCTCACAGTCAGAGGAAAGGAGCAGTGGCTTCCGGT
TGAAGCCACCAACGCTGATCCACGGCCAAGCCCCAGCGCAGGTCTGCCAAGCCAGAAGCCCCAAGGAGCAGCAGC
GGAGCGTGCTTCGCCCCGGCAGTGTTACAAGCTCCGCAGCCAAAGGCGCTGTCCCAGACTGTCCCCAGCAGTGGCA
CCAACGGGGTCAGCCTCCCAGCAGACTGCACGGGGGTCAGTGCCCGCAGCATCCCCTGACACTGCTGCATGGAGAA
GTCCTTCCGAAGCTGCCGATGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCT
GTGAGAAAAAAGACCCCGCCACACAGCAAGCCTTTGTATTGTTGGGCAGAAGTTGAGGGACAGAGTTAAGCTGATAA
ATGAGAGCGTGAGCAGGACGACATGGAGAATGCTGGACACCCAGCGCAGACACGCCAACCGCAACGAAGTATT
TCCTCCAGTATATCAGTTCCAGTTTAGAGAACTCAACCAATAGTGCCGACGCCTCCAGCAACAAATTTGTATTG
GCCAGAACATGAGCGAGCGAGTTTGTAGCCCCCAAAATTAAACGAGGTTCAGTTCAGATGCCAACAGGGAAAAATG
CAGCTGCCGAGTCAGGGTCTGAGTCCTCGTCCCAGGAGGCCACCCCTGAGAAAGGGTCCCTGGCTGAGTCGGCAG
CCGCCTACACCAAGGCAACAGCGCGGAAGTGTGTTGGAAAAAGTGGAAAGTCATCACCGGGGAGGAGGCGGAGA
GCAATGTGTTACAGATGCAGTGCAAGCTGTTGTCTTTGACAAGACCTCACAGTCCCTGGGTGGAGAGAGGCCGGG
GGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCAGTCTGATGCGGACCCAGG
GGAGCCTGCGACTGATCCTCAACACCAAGCTGTGGGCCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATTC
GCATCACAGCCATGGACACCGAGGACCAGGGCGTGAAGGTCTTCCTGATCTCGGCCAGCTCCAAGGACACAGGTC
AGTTGTATGCAGCCCTGCACCACCGCATCCTGGCCCTGCGCAGCCGCGTGGAGCAGGAGCAGGAGGCCAAGATGC
CCGCGCCTGAGCCTGGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCTGGCTCCTTCAG
GGGCCACCGCAGCTGGTGCTGGTGACGAAGGGGACGGGCAGACGACCGGGAGCACATAGCGGCCGGGAGCCCCGGC
TGCACACAGGCTGCTGCTTTGTCCGTCTATCCACCCGCCACCCGCCCCACCCACCGGCAGCGTCCAGGTGC
GGGGCCGGGAACACACACCCCACTGGGCCGGCCACAGTCTGGACCCGCACGTCTGTTCAAAAGCAGACTCGGG
AACTGCCTGAATGTGGTTTGGGACACGAGACCTCATCATATTGATGAGCGAACAACAAGAACATTTCTCCCTC
CCCTCCTTTGAATTGAAATGGCACATTAAGACTTGTACGGCTTCTCACTGGGACTGGAGACCTCGTTCCCTTCAC
CCCGCGTGTGCCAGCCTCTGGGTCCAGCCAGAGCCCCTGGCTTCTCCGCCACCCACACCTTCCCACCTTGCTG
TGGGGCCCTGCCTTTGTGGGGAGCAGCCAGCCCTCTGCCCCTGCCAGGGCTCCCCAACTATAGGCCTGGGACCC
CCGCCCAGCTTGGGGGGCTGCTCGTACGAGTGTAGACACTGGGCCCCATTGGACGTGCTGTTAACTACTATCTTCA
TTTCCCACTTCCCTCTCTGATTGGGGGTGTATATTTTACATCTTTTTTTCTTTTTATTTTGAAGGCTTTGTTT
TGTTTTCTTAGGTTAAGATGCTCTCGAGCGTTGAGCAGGCACAGCTCTGTGAGGTCCCTGTCCCCACCTGTGG
TTCTGGCCTCTGAGGTTGGGGGACTACTTGTTCACACCCAGGTTCCCTCCAGGCCAAGTCATGGGGTGATGAGG
AGTTGGGGCCCTGTCTGTCTAGGCCTGGAGAGTGCCTGTCTGGGAAAAGTCACTGGACCTGGAAGGGTCCCCA
GGGTCCCTGACTCCCGTCTCCATCTGTACGTGGTTACCATCATCAGGCACCAGGCGCAAAGTCTTCCCGCT
GTTGGCCATCCCTTCCCCAGCCACAGGTGTCCCTGCCCCAGGACAGTCCAGGGCCAGGGGCTTCTGTGAGAGGC
AGAGGGGGACCTCACCAATCTTGGTGGAAGAGCCCAGGGGCTGGTCCCAGAACAGGCAGTCTACAAGCACGC
AGCACACTGGAGTGGACGCTGTGCCACCCGAGCCTGGAGCATGGCCAAGAGCCAGCTTGACACCCACCTGG
GAGGCCGAGGAGGAGGTCCCCTGGGCACAGGGCCTCTTTGGGACTTCAGAGGAAATCTCCAGTCCCACTCTCGG
AGGGTTAAGAGAAGGCCTCCTGCAGCTGTGCCGTCCACACCTCTAGGTGCGCCAGAGCCCTGCCCCAGCCCCAG
CAAGCCTGAGCCCGGAAGAACCAGAGGCCCTCCCGAGAGACCCAGTCACACGTCTCTGCTTTAAGCCTTAGCCA
GCTAGTGACGAGTACAACGAGATAACGCCCATGTGTTTTGGAACATTTATGTAAGATTGTCATATGAAATGTATT
TGGGAACATACATTAAACTTTTAACTAAAAA

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FIGURE 5215

MADLANEEKPAIAPPVVFVQKDKGQKSPAEQKNLSDSGEEPRGEAEAPHHGTGHPESAGEHALEPPAPAGASAST
PPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQFFPSQSEERSSGFRLKPPTLI
HGQAPSAGLPSQKPKEQQRSVLRPAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAASPDAAWRSPSEAAD
EEKEPQKNESNASEEEEACEKKDPATQQAFVFGQNLDRVKLINESVDEADMENAGHP SADTPTATNYFLQYISS
SLENSTNSADASSNKFVFGQNMSEVLSPPKLNEVSSDANRENAAAESGSESSSQEATPEKGS LAESAAAYTKAT
ARKCLLEKVEVITGEEAESNVLMQCKLFVFDKTSQSWVERGRGLLRLNDMASTDDGTLQSR LVMRTQGSRLIL
NTKLWAQM QIDKASEKSIRITAMDTEDQGVKVFLISASSKDTGQLYAALHHRILALRSRVEQE QEAKMPAPEPGA
APSNEDDSDDDDVLAPSGATAAGAGDEGDGQTTGST

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FIGURE 5216

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCGACCTCTGCCCAGGCCGCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCCACCGCCCC
CTGGCCTCCCCTGCCCTGCACCGGCGTCAGTGAAGTCTGCTGCTGGGGGAAGTGAACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGAAGCCTGGTCACCGCCACCCTCCTCCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCCTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 5217

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRC
RDLDCSDGSDEEEECRIEPTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAAVLSASLVTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 5218A

CCTCGCTCAAGGAGCACCCCCGGGGCACCTCCTGTCCGATGGCAGCCCGGCCCTGTCCAGGAATGTCGGTATGA
CGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCCCGGCTGGCCCTGGGACGCAACTCGGACCAATCACAG
GAGAGATGGATGAAGCCGATTCTGCGTTTTTAAAATTTAAGCAGACAGCTGATGACTCTCTGTCCCTTACATCTC
CAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACG
AGTTTGAAGCTGAGTCTTGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAAAAGAGGGAGGTGGTAAAA
GACAAGATGTCCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
ACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCAAGGCCATTGGCCGCTCTTCCCATGCGCTGACGACC
TGCTGGAGACGCACAGCCACTTCCTCGCTCGGCTCAAGGAGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACC
GGAATTATGTCATCCAGAAAATCGGCGACCTCCTGGTTCAGCAGTTTTTCAGGTGAAAATGGGGAGAGAATGAAAG
AAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTGTTAGTCATTACAAGTTGCTGCTTCAGCAAAACAAGA
AATTTCAAACTTGATCAAGAAAATTGGCAACTTCTCCATCGTGC GGCGGCTTGGCGTGCAGGAGTGCAATTCTCC
TGGTTACACAACGCATAACCAAATACCCAGTGCTGGTGGAGCGCATCATCCAGAACACGGAAGCTGGCACTGAGG
ACTATGAAGACCTGACCCAGGCCTTGAACCTCATCAAAGATATCATCTCACAAGTGGACGCCAAGGTCAGTGAGT
GTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGC
TCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAGACCACATCAG
GGCGCTTGAAAGATATCCTGGCTATCCTGCTGACCGACGTACTTTTGCTGCTACAAGAAAAAGATCAGAAATACG
TCTTTGCTTCTGTGGACTCAAAGCCACCCGTCATCTCGTTACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGG
AGAAAGCGATGTTTCTGATCAGCGCCTCCTTGCAAGGGCCGGAGATGTATGAAATCTACACGAGCTCCAAAGAGG
ACAGGAACGCCTGGATGGCCACATCCAAAGGGCTGTGGAGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCC
TGCCCGAAGAGGAAAGGAAGGTGGTTCGAGGCCCGCGCCACGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGA
AAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCG
AAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGGACCCATCCGAGACCCTGCAGGGGGAGCTAATTCTCA
AGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGGCCAGGCGG
AAGACGGAGGCAGCTCCACAGGCCCGCCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAACAGCCCCA
CCAAGAATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTGACCCCAGGCCCGAGACTGGCGAGGGCCCCCAAACA
GCCCCGACTTGAAGCTCAGTGACAGTGACATTCTTGGGAGCTCTGAGGAATCGCCGAGGTGGTGGAGGCGCCAG
GCACGGAATCCGATCCCCGTCTGCCCACCGTCTTGGAGTCGGAGCTTGTCAGCGGATCCAGACACTGTCCCAGC
TGCTCCTGAACCTTCAGGCGGTAATCGCCACCAGGACAGCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGC
GGGAGAAGCAGTTCCGGCTGCAGTCGACGCGTGGGAACCTGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGA
AGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGAGCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCG
AGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGC GGCGCGCGGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCAGC
TACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGCGCCAGCGCCAGGCCTACCAGCACGACCTGGAGCGGC
TGCGCGAGGGCCAGCGTGCCGTGGAGCGCGAGCGGGAGCGCCTGGAGCTGCTGCGCCGCTCAAGAAGCAGAACA
CCGCGCCAGGCGCGCTGCCGCCCGACACACTGGCCGAGGCCAGCCCCAAGCCACCCTCCCAGCTTCAACGGGG
AAGGGCTGGAGGGCCCTCGTGTGAGCATGCTGCCATCCGGCGTGGGGCCAGAGTACGCAGAGCGCCCCGAGGTGG
CTCGCCGGGACAGCGCCCCACCAGAAACCGGCTGGCCAAGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCA
ACCAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCTCCACCAAGGGTGGCAAGG
ACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCTTTCGACCTGAAGCAGCAGCTGCTGC
TCAACAAGCTCATGGGGAAGATGAGAGCACCTCACGGAACCGCCGCTCGCTGAGCCCTATCCTGCCCGGCAGAC
ACAGTCTGCGCCCCACCAGACCCTGGCTTCCCCGCCCGAGCCACCGCCAGCTGACAGCCCCCTCCGAGGGCT
TCTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGGCCCCCAGCTCCCTCGCCACTGCCGGCCACACCACTCA
GCGCCAAGGAGGACGCCAGCAAAGAAGACGTATCTTCTTCTAAAAGGGCCGTGACTCAAGGAAAGTTTTTAATG
GAAAGTTGAGCCAGAACTAAACCAGGGAGCTGTCTGAAATCATAGCACCCCATCCGGGTGGCGGGGAGATCAACT
CCGAGCTGTTTTTCCGAGGCAGTGAGGAACGGTGCCGGCTCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTT
GAGAAGGAGCTGCCGGCCGGGGCCACGCTCCACAGCCCGCGCGACAGTGGAGCCAAGGGTTAGGGCACCAGGA
GGGGCCAGGTGGCGTCGGCAGCATCTGTCCCCAGAATCAGGCAGAATCCACTTCCCAAACAGAGCCCCACGCAGG
TTCACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCACGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCC
ACTGAGGGAACATCAGTGGCCCTCAGTCAGGTTCTGTGGGTTTGGAAGCCCATCGTGAAAGGGGCTGACCTTTG

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FIGURE 5218B

CCCCTTTTTACTTGGCATTGGTTTTTGAAACCAGCTGTTTCCCAAACCTCTGCTTCCCAAGGGCAACCGTTGCTGTT
CACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTTCAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCC
TCAGCCCCCGGGAAATGAGCTCCCAGGGCTGGCGTCCCACCTTCCAGGTGGGGGCTGGCACATCACAGACTGTCTG
AGAGCGCCATGTCCCAGGGCATGCAGAGGATGCACCTAGAGACGTTGCAGCAAGTGGACAAGTGGCCGCTGTGCG
GGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCCGTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCA
GCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCCATCCACGATCCAGCTCCGGTGGAGAAAAGGGCCCATG
TCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGACTGGGTCCCTGGCTGATCGTCCTTGTTCCCAGTGGGGT
ACATGTGAGCCCCCTGCCAGGGCCAAGTCCTTCTCCCGAACCAGGGTCCTGGGAACCTGCAGATCCCCGGGGGGATT
CAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTGACGCTGAATACAGTGAACAGGGACATTCCCGCCACT
CGGGGACAGATGGGCACAAGGGAGGGGAAACTCCATCAGGAAGTGCTCCCCTGGGCAGAGGCGCCCACTGGGTGC
TGTGGGCTCAGGAGGGGGCGGGGCAGGAGCTGGTGCCAACCGGGAACCAGAGCCCCACAGCCATACAGCCCATTG
GTGACAAGGTCCCTGAGAACACAGTGGCCAGGTGTCCCCAGGTCCTGGCCCTCCGACGACCTCAACTCTGCCCA
GCCCCGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCGTCAGATCCCATGTGTGCCATGTTTATCATCAGTGTT
TTGTATTTTTTGTACTGAGTATCGGAGCACTTTACAGAAGCTGACTGTACATTCCCTGTTCTGTTGTGAAGAGAACA
TTCCCAGACCCCTGGCACCCCTCCTGAGCCGGCGTGTGCCGGTCCAGCCCTCCGAGATGCCACAATTCCTTGATGG
GGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGGGAACCCCGCGTCCCGCCATGTGGCAGAGGGGTCTC
AGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTTCCCTCGCCAGTGCCCTCGGCCACTCCTGGGTGGA
GCCCCGATTTTATTTGTAAAGTTGACAGTCGAGCAAATGTTCCCTATTTTCGTGGGATCTGCACACGTCTTTGTCAG
TTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTTACAATGATTACAACATTTCTCACTGCGGGATATTTCT
GACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAACGTGTCCGAGATG

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FIGURE 5219

TCTCCTGTACCTGGGCATCCAGAAAAATGCTGGTGATGGCGCGACTCTCGCGGCCCCGAGCGGCCGGACCTTGTCT
TCGAGGAAGAGGACCTCCCCTATGAGGAGGAAATCATGCGGAACCAATTCTCTGTCAAATGCTGGCTTCGCTACA
TCGAGTTCAAACAGGGCGCCCCGAAGCCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCA
GCTACAAACTCTGGTACCGATACCTGAAGGCGCGTCGGGCACAGGTGAAGCATCGCTGTGTGACCGACCCTGCCT
ATGAAGATGTCAACAACCTGTCATGAGAGGGCCTTTGTGTTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACT
GCCAGTTCTCATGGACCAGGGGCGCGTCACACACACCCGCCGCACCTTCGACCGTGCCCTCCGGGCACTGCCCA
TCACGCAGCACTCTCGAATTTGGCCCCGTGATCTGCGCTTCTGCGCTCACACCCACTGCCTGAGACAGCTGTGC
GAGGCTATCGGCGCTTCTCAAGCTGAGTCCTGAGAGTGCAGAGGAGTACATTGAGTACCTCAAGTCAAGTGACC
GGCTGGATGAGGCCGCCAGCGCCTGGCCACCGTGGTGAACGACGAGCGTTTCGTGTCTAAGGCCGGCAAGTCCA
ACTACCAGCTGTGGCACGAGCTGTGCGACCTCATCTCCAGAATCCGGACAAGGTACAGTCCCTCAATGTGGACG
CCATCATCCGCGGGGGCCTCACCCGCTTCACCGACCAGCTGGGCAAGCTCTGGTGTTCTCTCGCCGACTACTACA
TCCGCAGCGGCCATTTTCGAGAAGGCTCGGGACGTGTACGAGGAGGCCATCCGGACAGTGATGACCGTGCGGGACT
TCACACAGGTGTTTGACAGCTACGCCCAGTTCGAGGAGAGCATGATCGCTGCAAAGATGGAGACCGCCTCGGAGC
TGGGGCGCGAGGAGGAGGATGATGTGGACCTGGAGCTGCGCCTGGCCCGCTTCGAGCAGCTCATCAGCCGGCGGC
CCCTGCTCCTCAACAGCGTCTTGCTGCGCCAAAACCCACACCAGTGCACGAGTGGCACAAGCGTGTGCCCCTGC
ACCAGGGCCGCCCGGGAGATCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAG
GCAAGCCCCACACTCTGTGGGTGGCGTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCGTGTCA
TCCTGGAGAAGGCCACCAAGGTGAACCTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTCAGTGCGGAGAGC
TGGAGCTCCGACACGAGAACTACGATGAGGCCTTGCGGCTGCTGCGAAAGGCCACGGCGCTGCCTGCCCGCCGGG
CCGAGTACTTTGATGGTTTCAGAGCCCGTGCAGAACC GCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTCGCCG
ACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCCTGGACCTGCGTATCGCAA
CACCCCAGATCGTCATCAACTATGCCATGTTCTGGAGGAGCACAAGTACTTCGAGGAGAGCTTCAAGGCGTACG
AGCGCGGCATCTCGCTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTACCTGACCAAATTCATTGCC
GCTATGGGGGCCGCAAGCTGGAGCGGGCACGGGACCTGTTTGAACAGGCTCTGGACGGCTGCCCCCAAATATG
CCAAGACCTTGTACCTGCTGTACGCACAGCTGGAGGAGGAGTGGGGCCTGGCCCCGGCATGCCATGGCCGTGTACG
AGCGTGCCACCAGGGCCGTGGAGCCCGCCAGCAGTATGACATGTTCAACATCTACATCAAGCGGGCGGCCGAGA
TCTATGGGGTCACCCACACCCGCGGCATCTACCAGAAGGCCATTGAGGTGCTGTGCGACGAGCACGCGCGTGAGA
TGTGCCTGCGGTTTGAGACATGGAGTGCAAGCTCGGGGAGATTGACCGCGCCCCGGGCCATCTACAGCTTCTGCT
CCCAGATCTGTGACCCCCGACGACCGGCGCGTTCCTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATG
AGGACACCATCAAGGAAATGCTGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGCAGGTCAACTTCATGG
CCTCGCAGATGCTCAAGGTCTCGGGCAGTGCCACGGGCACCGTGTCTGACCTGGCCCCCTGGGCAGAGTGGCATGG
ACGACATGAAGCTGCTGGAACAGCGGGCAGAGCAGCTGGCGGCTGAGGCGGAGCGTGACCAGCCCTTGCGCGCCC
AGAGCAAGATCCTGTTCTGTGAGGAGTGACGCCTCCCGGGAGGAGCTGGCAGAGCTGGCACAGCAGGTCAACCCCG
AGGAGATCCAGCTGGGCGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTGCGCTGGAGCAGC
AGAGCGTGCCAGCCGAGTGTGTTGGGAGCCTGAAGGAAGACTGACCCCGTCCCTCCCCATCCCCCTCCCCACCC
CCTCCCCAATACAGCTACGTTTGTACATC

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FIGURE 5220

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERALKLLPCSYKLWYRYL
KARRAQVKHRCVTDPAYEDVNNCHERAFVFMHKMPRLWLDYCQFLMDQGRVTHTRRTFDRLRALPITQHSRIWP
LYLRFRLRSHPLPETAVRGYRRFLKLSPEAEYIEYLKSSDRLEAAQRLATVVNDERFVSKAGKSNYQLWHEL
DLISQNPDKVQSLNVDIIRGGLTRFTDQLGKLWCSLADYYIRSGHFEKARDVYEEAIRTVMTVRDFTQVFDSYA
QFEESMIAAKMETASELGREEEDVDLELRLARFEQLISRRPLLLNSVLLRQNP HHVHEWHKRVALHQGRPREII
NTYTEAVQTVDPFKATGKPHTLWVAFKFYEDNGQLDDARVILEKATKVNFKQVDDLASVWCQCCELELRHENYD
EALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVWSMLADLEESLGTQSTKAVYDRILDRLRIATPQIVINYA
MFLEEHKYFEESFKAYERGISLFKWPNVSDIWSTYLTKEFIARYGGRKLERARDLFEQALDGCPPKYAKTLYLLYA
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIYIKRAAEIYGVTHTRGIYQKAIEVLSDEHAREMCLRFADME
CKLGEIDRARAIYSFCSQICDPRTTGAFWQTKWDFEVRHGNETIKEMLRIRRSVQATYNTQVNFMASQMLKVSG
SATGTVSDLAPGQSGMDDMKLLEQRAEQLAEEAERDQPLRAQSKILFVRSDASREELAELAQQVNPEEIQLGED
DEDEMDLEPNEVRLEQQSVPAAVFGSLKED

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FIGURE 5221

ATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATT
GAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTCAÇAGGGCGGGGCCCTGTCC
CTCTACACGGCCCTCACCTGCCCCACCCGCTGGCTGGTATCGTAGCATCGAGCTGCTGGCTGCCTCTGCACCGG
GCCTTCCCCCAGGCAGCTAAAGGCAGTGGCAAGGGCCTGACCATCCTCCAGTGCCATGGGGAGCTGGACCCCATG
GTGCCCCGTACGGTTTGGGACCCTGACGGCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACTCGGGTGTC
ATGCACAGCTGCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAAGTTGCTGCCTTCTGTCTAACT
AGTCGCTGGCCCCAGTGCGCCTCCAGGCCCCCAGCCTCTGGGAGAGGGGAGAGAGCTCCTCCTGCCAAGAACACC
AGCCCAGGCCCTGTTTCTAGCCCAGGGCGTGCCAGCGGGACCACCAGACACTTCCGGGGCTACCCCAGGAACCCC
GTCCCCGGCCATGGCCCCGTGGTCCCGGGCTGCGGGCACCGAGGTGGGGCTCCCCCGGCCAGCTCCGAGTGCCCG
GCCACGGCCCCCGACAGAGGGCCCCCGGAAATCAGTGAGCAGCGCCTCGGAGCACAGTACCACCGAGCCAAGCCC
GGCTGCCAGGAGGCGGCCAGCGCCCGCCGTTCTGGGCCCTCAGCCCGGGAACACCCAGGGCTCCTGCGCATCC
CTCGCAGCCCAAGCCGAAAGGACTGCAGGCTCTGCGACCCCTCAGGTCACACCCCAAGGAAGGACGCAGCCCC
AGCACTAGGACCGCTTTCTTCTCTCCTTTGGCCACACCCTCTCCATCGGGTACCAAGGCAAGACCCGTACCGCC
TCCCGACAATGCAGCCACTCCCCTGCCAGCCACGCTCCCTCCCTCTCCACCGCCACGCCCCCTCGCAAGTTCCA
CCCACACAGCTGATTATGTCCTTTCCAGAAGCAGGCGTCTCTTCCCTGGCCACAGCCGCTTTTGTGGCTTCAGTC
TCTCCATCAGTTTCATCCCCCTCTGCAGAGACTCTCCTCTTCTGGCCACATTGCCTCTGCAGGCCTCTCCCTCTCC
TTTGACCACAGTCTCTCTGCAGGATCCTCCTCTAGTTTCTCCCTCTCTTTTGGCCTCACCGCCTCTGCAGGCTCC
GCCCCACCCACAGGCCCCACCTTCTATGACTACGCCCCCTATGCAGGCCCCGCCCTCTCTCCAGACCATTCCCCC
AATACAGGTCCCACATTCTCTGACCTCACCGTCTCTGCAGGCACCTCCCTCTCCTCTGGCTTTGTCTCTCTGCA
GGCCACAACCTCTTTGGGCTCACCCACTCTGCAGGCCACACATTCTTTCTTGACAATGTCCCCTAG

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FIGURE 5222

GTCGCCCTCTGTCCCCTGCTCTACCTCTCTGTCCTTGTCTGGCTCTCCCGTCACCTCCCTGCCTCTGTCTCTCT
TCTGGCCTGAGCCTGGGCCCAGCCACCTCCTGACCGGAGGGAATCGGTGACGGAGCGGGGCCAAGGGAGGGGTCC
GGAGGGAGTCAGGGATGGAGGGCAGAGGGAGTGGATGTGGGGGTTTGGAGACGTGTGACAAGCTCCAGCAGGGGT
GGGGGCCGGGCTGAGGGTGGGGGTGCGAGGTGGTCACTCCCATCGTGCCCTGGCCGTCCCTCCACTCACCCACA
CCTGGCCCAGTCCACGTTGAGGTCCAGGACTGGGAAGGACCGGGTGAGTGACCGGGGACCCAGGCCAGGTGCC
CCCGGAGCCTGCTGGGGTGGCCAGAGCAGGAGGGGGTGTGTTTCCTTTTTGTGGGTGTTGCATGCAAATCAAGTG
GACAAGAAAAAATAACAAAACAAAAACAAGAAAAAAAAAACAAAAACCCGTAATAATCACAAAGAAAATCCAA
CACCAAAGGCGCAGAAGCCGGCTGGCCGTGGTGGGGGCAGCGTAGGCGTAGCATCCCTCTCCTCTCACTTAGCCT
GTTGACTCTTGTTATTATCATGATATTCACAAAACGCCGCATGTTTAAAAAGTCATAGATGTCATCTTCTCTG
CCCCCAGGGAGGAAAGCCACCTTCTCTTGCCCCCTTGCCCCCTTTGTCAGGGGCCAGGGGTCTGCCGGGTGGGGT
GCCAACAGGCCTGGCCCTTTCTCCCTGCATCCAGCCATGGGGGCCTCTGCGATTGCCGGAAGGTTGCATGGCT
GGTCCCAGGGCCAGCACAGGCCCGAGGCCGGGCTGCCTGGTTTTATTTTTATTTAACTTTATTTTCTGTTTTATG
AGTGTGTGTCCGCCCCACCCCCACCCCTTCAGTGTTAAGTGGGGAGCCCTGGGGGAGTCTCTCCTGCCCTCCAGC
CTCTCCCAAGACCTCCCCCTCGTCACCAGCCATCCCTCTGGACCAGGCAGAGGGCGGACCGGGTGGGCAGGGGC
CTGAGGGTGGCTCGGGCCAGCCCACCAGCCAATGGACCCCTCCTCAGGCCGCCAGTGTGCCCCTGCCCTTTTTTA
AAACAAAATGCCCTCGTTTGTAAACCCTTAGACGCTTGAGAATAAACCCCTTCCTTTTCTTCC

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FIGURE 5223

CGCCGCGAGAAGGTCACACGATTCTCCAACATGGCGGCGGGCGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGG
AGATGCCTCGGCAGTGGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTGCGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAACAGAAAAGGCTTTCTGTCCGGCTTGCTAGAT
AATGTCAAACAAGAATTAGCCAAAAACAAAGAAATGAAAGAAAGTATAAAAAAATTCCGTGACGAGGCCAGAAGG
CTAGAAGAATCAGACGTGCTCCAGGAGGCCAGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGC
GAGGTGCTACGGAAGAAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCCGAAAATCAAGGAGGGCGTGGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCCGAGTCGGTATCCAAA
GGCGGGGAGAAGCTGGGCAGGACAGCGGCCCTTCAGAGCCCTCTCCCAGGGGGTGGAGTCCGTGAAGAAGGAAATT
GACGACAGCGTCCTGGGACAGACCGGGCCCTACCGGAGGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGCGGGA
GATAAGTTCAAGGAGGAGAAAAGTGTGAGCCAAACGAGGAGGCCCTGGGGGTGCTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGGAAGGACTTCAAGGAGAACAACGTGGTGTGTTAACCGGTTCTTCGAGATGAAGATGAAGTAT
GACGAAAGCGACAACGCGTTTCATCCGGGCATCCCGGGCCCTTACGGACAAGGTCACCGACTTGCTGGGGGGCCTG
TTCTCCAAGACAGAGATGTCGGAGGTGCTCACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTT
CTGAAACAGTGCGAGAACGACATCATCCCCAATGTCCTGGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCACCCCATCCAGCAGGCCAAGGCACTGGGTCTCCAGTTC
CATTCTCGCATCCTAGACATTGACAACGTCGACCTGGCCATGGGCAAGATGATGGAGCAGGGGCCGGTGCTGATC
ATCACCTTCCAGGCACAGCTGGTGATGGTGGTCAGGAACCCCAAAGGCGAGGTGGTGGAGGGTGACCCGGACAAG
GTGCTGCGGATGCTGTACGTGTGGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGAGTGTGGTGCCGGAGCCAGGTAGCCCCGGCCTGGGTC
ATCAGGCACAGAGGCACCGCAACACCACCTGCGGCAACT

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FIGURE 5224

MAAAALRSGWCRCPRRCLGSGIQFLSSHNLPHGSTYQMRRPGGELPLSKSYSSGNRKGFLSGLLDNVKQELAKNK
EMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTSEVLRKKLGELTGTVKESLHEVSKSDLGRKIKEGVE
EAAKTAKQSAESVSKGGEKLGRTAAFRALSQGVESVKKEIDDSVLGQTGPYRRPQRLRKRTEFAGDKFKEEKVFE
PNEEALGVVLHKDSKQWYQQWKDFKENNVVFNRRFFEMKMYDESDNAFIRASRALTDKVTDLLGGLFSKTEMSEVL
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCYEATYSQLAHP IQQAKALGLQFHSRILDIDNV
DLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRMLYVWALCRDQDELNPYAAWRLLDISASSTEQ
IL

5670/6881
FIGURE 5225

CGCCGGCTCCGCCCCGTCGGGTGTTTGTGGTGGGGCTGCGGAGTCGCCGATCCCGCCGGAAGCGCCAGGACAAT
GGGGACCCGAGACGACGAGTACGACTACCTATTCAAAGTGGTGCTCATCGGGGACTCAGGCGTGGGCAAGAGCAA
CCTGCTGTGCGCTTCACCCGCAACGAGTTCAACCTGGAGAGCAAGAGCACCATCGGCGTGGAGTTCCGCCACCCG
CAGCATCCAGGTGGACGGCAAGACCATCAAGGCGCAGATCTGGGACACCGCTGGCCAGGAGCGCTACCGCGCCAT
CACCTCCGCGTACTACCGTGGTGCAGTGGGCGCCCTGCTGGTGTACGACATCGCCAAGCACCTGACCTATGAGAA
CGTGGAGCGCTGGCTGAAGGAGCTGCGGGACCACGCAGACAGCAACATCGTCATCATGCTGGTGGGCAACAAGAG
TGACCTGCGCCACCTGCGGGCTGTGCCCACTGACGAGGCCCGCGCCTTCGCAGAAAAGAACAACCTTGTCTTTCAT
CGAGACCTCAGCCTTGATTCCACTAACGTAGAGGAAGCATTCAAGAACATCCTCACAGAGATCTACCGCATCGT
GTCACAGAAACAGATCGCAGACCGCGCTGCCCCACGACGAGTCCCCGGGGAACAACGTGGTGGACATCAGCGTGCC
GCCCCACCACGGACGGACAGAAGCCCCAACAGCTGCAGTGCTGCCAGAACCTGTGACCCCTGCGCCTCCACCCAGC
GTGCGTGCACGTCTCTCCGCCCGCCCCGCCACGGTATCCTCTGGCCCCCTCCCTGCTGTCCCTCTGTGGCCGGCTC
GTTCCAGCCCTCCAGTGAGCTCTGCACGGCCGGGCCGGGGCCAGGAAGGACAGGAGCCAGTGCTACCCCGTCC
TGCCCCGGGAAAAGCTAGAAGCCCCGGTTTGTCTGCACCCATGAAACTCGGGTCCCCACAGCGTCTTGCGGGGTG
GGGAGGGCGGCAGGATGGACGGGGCTGGCCAGAGGCGAGGAGGACGGGCGGACGGCGCCGCTTCTCCCCCTTTTC
CTTGGCCGACTCTAGGGAGCGATTGCCTCCCTCCCTCTGTGACCGGGTGGCCCAGCCAGCCGTCGTCCCCACCC
AGAACCCTGCTCTGGGCCAAAGCCCCGAAGAACCAGGCAGCGGGGGCCGGGGCAGGCGGACCCCCCGGGCTCTCAG
CGCCCACCCGCTCCTCCGCACACAGCAGCTCGCACAGGCCTCCACCTCTGCCTGTTGATTGATGCAGGGAGAAG
CCCGTCCCCCCTCTCCCTCTCCCTCCCTCTCCTGCACGCAACGCGCCCTCTCGGCCCTCCCTGTCCCCCTC
CTCTGTCTCGTCTCCCCATCTGGTCTGGAACCTGTTTGCAAGTGAAGCAATATCTCCGTGTTTTGTATATAAAC
CGCTCTTGATAGCCTTTGGTTTTTGTAAATGTAGAGAAACACAGATTCTTTATACACTTTGTAAGATTTACGCCAA
ACCCAGCTCTCGATCTCTTCTCTCCCTGTGGCCCTGCGCTGTTGCCCCGTCCCCGTACCCCGCCCGTTACT
GAAATGTATAATCTGACTTCCTGTACAGAAACCTGC

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FIGURE 5226

CGCGCCGGGAACAGCCAGTCGGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGCGCGGGGGCGTGGCCCGGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGCGGGCGCAGGTGTT
ACTGGTTGCGTCGGGTACAGTGGGCGCGCAGGCGCAGCGCGGTGCAGCCCGTTTCGCTCACACAAAGCCCAGACGC
GGAGAAAATGGCGGCAGGGGTGGAAGCGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGG
CGCGCCCGCGGTGCCGAGCGGCAACGGGGCTCCGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAA
GAGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAACATAAAGATACAGAGC
CTTCATTACAAACATACCTTTTGATGTGAAATGGCAGTCACCTTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGT
AACATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGCTCTATAGTGTTGTTGAATTCAAGATGGAAGA
GAGCATGAAAAAAGCTGCGGAAGTCCTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCC
TGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGCTGGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGA
TTATAAAGTTGGCTGGAAGAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGGAAAAAGTCGTGGAATAGGCACTGTTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATC
TATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAGAGGGCCTTACCAAAGGAGA
TTTCTTCCCTCCTGAGCGTCCACAACAACCTTCCCCATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGG
GCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGA
AGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGAACATGGGTGCG
ATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGC
AAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCCCTGGCATTGACCGCCTCGG
GGGTGCCGGCATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCAT
GGGCCTGGTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGG
TGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGG
CTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCCTGAGCATGGAGCGCATGGTGCCCGCAGGTAT
GGGAGCTGGCCTGGAGCGCATGGGCCCCGTGATGGATCGCATGGCCACCGGCCTGGAGCGCATGGGCGCCAACAA
TCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAA
CAGCCTCGAGCGCATGGGCCCCGCCATGGGCCCCGCCCTGGGCGCTGGCATTGAGCGCATGGGCCTGGCCATGGG
TGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTT
CTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATT
CGATTTACATGGAAGATGCTAAAGGACAAATTCAACGAGTGCGGCCACGTGCTGTACGCCGACATCAAGATGGA
GAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGTTCGAGTCGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGAT
GAATGGCATGAAGCTGAGTGGCCGAGAGATTGACGTTTGAATTGATAGAAACGCTTAAGCAGTTGCCTTTTTTAA
ACATCGATACGAGACCTCTGAATTTGTATTTTTTCTTGTTAACCATTTTAATTTGTTGGCTGGATGTATAAAGAT
GTTTAAAAAATTCAGTTGCTTTTTTGGGGTAATTTGAATTACTTTTTTAATGACTGGGGTTCCATTTGACTGTTT
CATTGAGATTGCAATGTGCGCAATTTTTTTTGTAGTTGTGGCATCTTGTGACATCGAATATGACTTTGATAATA
AATACCGGTTCTCTG

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FIGURE 5227A

AGTGAAGCGGAAGCCATTACTCTCTGGAGTCGATTGCCCCGAGACACATGGGCCAAGGAGGGGTCAGCGGCGAAT
TCTTTTCGGCCTGTTGGGGACCCCTCGTGTCACCCAGCCAGACTGGACCTCCCGTATGAACTTCTCTTCGCATCGG
CGGCGGCTTCCGTACCTCCGCTCCCCGATCCTATTCCAGTCGTATGCCAGCTTGGAGAGTCACGTGAGAGCA
AGAGAGTAGCTTTCTGGTTGTCTGGTGCCCTGCTCAGGCAAACCTGACTGCCATTCTCTGAGGATGGCAGCTCTG
TCCCCACATTGTCACGTCCACCCAGGATTCCACCTGTCTCCAGGACTCAGAATTTCTGTCTTCTCAAAGAC
CATTCCTGTCCCCAGAATTTGGACCTGTTCTGTGTGCAGTGGTCTGGAGCCTCACACACCCAGTGTGGTTCCAG
GAATCGGTGACTTTCCAAGATGTCTGTGGACTTTACCGAGAAGGAGTGGCCCTTGCTGGATTCTTCTCAGAGA
AAACTGTACAAAGATGTAATGCTGGAGAACTACAGCAACCTCACTTCACTGGGGTATCAGGTGCGCAAACCCAGC
CTCATCTCACACTTGGAGCAGGAGGAGGAGCCGAGGACAGAGGAGAGGGGCGCTCACCAGGGCGCTTGTGCAGAT
TGGGAGACTCCATCTAAAACCAAGTGGTCACTTCTTATGGAAGATATTTTGGGAAGGAAACGCCAGTGGTGTG
ACGATGGAAAGAGCCGGTCTTGGAGAGAAGTCCACTGAATACGCTCACTTGTTCGAAGTCTTTGGCATGGACCCT
CATCTCACTCAGCCAATGGGAAGGCACGCTGGCAAGAGGCCCTATCACCGCCGCGACTATGGGGTAGCGTTCAAG
GGCAGGCCGCACCTCACTCAGCACATGAGCATGTACGACGGGAGAAAAATGCATGAATGTCATCAGTGCCAAAAA
GCCTTACCACGAGCGCTCCCTCACACGGCACAGGAGAATCCACACCGGGGAGAAGCCTTACGAGTGCAGCGAC
TGCGGGAAAGCCTTCAACGACCCTTACGCCCTTAGGAGCCACGCAAGAACTCACTCAAAGAGAAGCCCTTTGAC
TGCAGTCAGTGTGGAATGCATTCCGGACCCTCTCGGCCCTGAAAATCCACATGCGAGTTCACACTGGCGAGAGG
CCTTACAAGTGTGATCAGTGCGGGAAGGCTTACGGCCGAGCTGCCACCTCATCGCACACAAGAGAACGCACACC
GGAGAGAGGCCCTACGAGTGTACGACTGTGGGAAAGCTTTCCAGCACCCCTCCACCTCAAAGAGCACGTGAGG
AATCACACGGGGGAGAAGCCCTACGCGTGCACGCAGTGGGCAAGCCTTCCGCTGGAAGTCCAACCTTTAATTTG
CACAAGAAGAACCACATGGTGGAGAAGACCTACGAATGTAAAGAATGCGGGAAATCCTTTGGCGATCTCGTGTC
CGGAGGAAACACATGAGGATTACATCGTCAAGAAACCCGTGGAATGTGCGCAGTGGGGAAGACCTTCCGAAAC
CAGTCCATCCTTAAGACTCACATGAACCTCTCACACTGGAGAGAAACCATAACGGGTGCGATCTCTGCGGAAAGCT
TTCAGCGCGAGTTCAAACCTCACCGCACACAGGAAGATAACACGCAAGAGAGACGCTACGAATGCGCCGCTGC
GGGAAAGTCTTCGGTGACTATTTATCCCGGCGGAGGCACATGAGCGTTACCTTGTAAGAAACGAGTTGAGTGT
AGGCAGTGTGGCAAGGCCTTCAGGAACCACTCAACGCTGAAGACGCACATGCGAAGCCACACGGGGGAGAAACCG
TACGAATGCGATCACTGTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGGG
GAGAAGCCCTACGAATGCCTTGTCTGCGGGAAGCCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAAC
CACCGGGGAGAGAAGCTCTTTGTGTCTCCGTGTGGAAAAGGCTCCAGTAGCGCGCCTGCTTTAGAGACACAGG
ATGATTACAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAA
GAATCCACGGAACCTTGGGAGAAGTCCAGTTCTGTAAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGT
TTGTGAGAACTCACGCCGGGGGTGAAAATGTACGTCTGTAGCATGGAGAAGCCTTCAGGGTACATTACAGCTCTTA
ACAAACACAGGAGGACTTAATGGCAGCTTGGCATTAAATGTCAAAATCCAAGCCGTGGCATTAAATGTCAAAATG
ACTTCAGACCACTTCTAGCCTTCTGGGCCCATGAGTAATAATGAGCACACTAGGGAGCATCTCTGTAAACACAGT
GGCTGGGGAAACCCCTCCTAGTCTCACTTGATTCTCATGACGGAAATCACACTAAAGAGAGAAATCAGTGAAGT
AAGGAACGTGGAAGGTCATGAATGGGCCGAAACCACGGCCAGCTGCTTGTCTTTGTATGGCTTGCCAGCTAACA
ATAGTGGTTCCATCTTTAAGGAAGAAGAATGTTTGATGGAGAAAATTTGTGGCCAATGAAGTCTGAAATACTTCC
TGTCATCTGCCCCCTTTCCAGAAAACTTGGCCGACCCTTGGTCTACAGCACGGGTTCTCAGTCGGGCGACGATTT
GGCTGTCTAGGCGTCATTTGGCAATGTCTAGAGACATTTTTTGGTAGTTAGAATGGGGGGAAGATACTCCTGACTT
GTAATAAGAAGACATCAGAGATGCTGCTAAGTGGGCTCCAGCACACAGGAGCCCCCACAACGAAGAGTTAGTGC
CCCCAAACGTCACCTGTTGCTGAGGTTGAAAATAATCATGCAGTCATTCTCAATTACTGCCTGCAGCAATTCCTC
CATTTTTATGAATCTTGTGAGCACTTACGCTAGGAGAAATTTCTTTTACAAAACCTTTTAAATACAATTAGTGCT
GATAATTCCTATGTGGAATGATTCCAGCCATGGTCCCTCACTTGAGCATGTGAATATTCTCACGGAGAGAAAGC
CCCAGCGAGATTTTCCGGTGAATACGGGACTGCACGTACTCTCTCATCATGAAAACAGAGCCCCGTTCAATAATTT
CCAACGAGATTTTCCGGTGAATACGGGACTGCACGTACTCTCTCATCATGAAAACAGAGCCCCGTTCAATAATTT
TTCATCTTTATTTTAAAGGTTATACTCCTCTAAATAACCCCTTAAGCCTCATCAAGAAAGGTTTGTATAGTATT
TTTACTATAGCTTCATCCTTGATAACGTCCTAATTTCTTCTGGACAACCTCCTTGACCAATGGCATATTGAGAT
CTATGTGACATGAGGATATTTCTCAGTACCCTTTGTTACTGGTACCTGATGCACACGGATTGCGACCAGAGCAT
GATGCCTCCATCAAGTGGTAATATGTTTGACGCTGCTGTCCAGCCAAGAGTGACAGATACTTCTAGTGACTTCC

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FIGURE 5227B

CCGGTATCCACTCTCATCTTCTTCCAATATCAAGAGAATCCAGGTTCTGTCAGATTAGTAAGGTGTGCTAATCTA
AATTTTAAAAAATCTCTTACAGGTTTTCTTGCAGCTGGTACCATCCATGTCTCACAGCCCTGGCCACTGACAGAT
CAGCAGATGTCACCACATGGGCTTCTGAGAAAGCTCTTGAATGGGGATCGTTCTTAAACATGAATTCCTCCCTGT
ATGTTTTGTTCTTTGCTTTACTTTTCACCTTGCAAAGAGATCCAGTACCTAGTATTGGAAGATCCACCTTAACGA
CCGTGCATATGAAAACCACAGTCTAAGGAAGTGACTGCAGAAAGCTCACAGCGACCCCTGGCCTCCCCTGTGGCCT
CTTTGAGTGTCTGCAGCAGCCCTGGACTTCCAGACTTCTATCACATGAGAAAAAATAAACTGATTATTGGTTTA
AGCTGC

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FIGURE 5228

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTEKEWPLLD
SSQRKLYKDVMLENYSNLTS LGYQVGKPSLISHLEQEEEP RTEERGAHQGACADWETPSKTKWSLLMEDIFGKET
PSGVTMERAGLGEKSTEY AHLFEVFGMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECH
QCQKAFTTSASLTRHRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHMRVH
TGERPYKCDQCGKAYGRSCHLIAHKRTHHTGERPYECHDCGKAFQHPSHLKEHVNRNHTGEKPYACTQCGKA FRWKS
NFN LHKKNHMVEKTYECKEKGKSF GDLVSR RKHMRIHIVKKPVECRQCGKTFRNQ SILKTHMNSHTGEKPYGCDL
CGKAFSASSNLTAHRKIHTQERRY ECAACGKVFGDYLSRRRHMSVHLVKKRVECRQCGKA FRNQSTL KTHMRSHT
GEKPYECDHCGKA FSIGSNLNVHRIHTGEKPYECLVCGKA FSDHSSLRSHVKTHRGEKLFVSSVWKRLQ

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FIGURE 5229

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGCTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCTTTCCGATGGATGTTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCTTTTGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCTATTAATACTCACCAATAAATTCTACTTCCTGTCCAAAAAAAAAAAA

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FIGURE 5230

CTAGGTCTGGGACGCCGGGCTAGGGGCGCGTCAATGTGGCCGCTCACGGTCCCGCCGCGCTGCTGCTGCTGCTGCTG
CTCAGGCCTGGCCGGACAGACTCTCTTCCAGAACCCAGAAGAGGGCTGGCAGCTGTACACCTCAGCCCAGGCCCC
TGACGGGAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCT
GCGGCAACTGATGGAGAAGGTCCAGAACGTCTCCAGTCCATGGAGGTCTTGAGTTGCGGACGTATCGCGACCT
CCAGTATGTACGCGGCATGGAGACCTCATGCGGAGCCTGGATGCGCGGCTCCGGGCAGCTGATGGGTCCCTCTC
GGCCAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAAGTGTGCCCCCTGAGCTCGGTCTGGAGCAGTACAA
GGCAGACACGCGGACCATTTGTACGCTTGCGGGAGGAGGTGAGGAATCTCTCCGGCAGTCTGGCGGCCATTAGGA
GGAGATGGGTGCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCTGCGC
CCAGAAGCTGGGCTGTGGGAAGCTGACCGGGGTGAGTAACCCCATCACCGTTGCGGCCATGGGGTCCCGCTTCGG
CTCCTGGATGACTGACACGATGGCCCCAGTGCAGGATAGCCGGGTCTGGTACATGGATGGCTATTACAAAGGCCG
CCGGGTCTGGAGTTCCGTACCCTGGGAGACTTCATCAAAGGCCAGAAGTTTATCCAGCACCTGCTGCCCCAGCC
GTGGGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAA
ATACCACTTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGGCGCCGGTTACAACAACACCTTCCCCTA
CTCCTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCA
GAACGCGGGCAACATCGTGGTCAGCCGGCTGGACCCGCACACCCTCGAGGTCATGCGGTCCCTGGGACACCGGCTA
CCCCAAGCGCAGCGCTGGCGAGGCCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCCACCTGGCTGGGGC
CAAGGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATTC
CCACATCTCGATGCTGGATTACAACCCCGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTA
CAATGTCACCCTGTTTTACGTTCATCAGCACCTCTGGGGACCCCCTGAGCCAATGCTGTGGCTCGGGCTGCTGCCTG
GGGGGCTCCGGGGGCTGGGGGCCCTTTTCACTCTGCCTGTGTCCCTCAAGGGTGATCTCTCTGTCTCTGTACG
CCCTTTCTCCCCGCCTTTTTGCTGGGCTTTTGTCTCTGCCTATGTATTTCTGTCTATTTTTTCAATTTCCCCTC
TTCTCCTTTATTGATCTCTGCTTTTAATACACCACTTCTTTCTTTCTGCCTTTTTATGGATGTCTTTTTCTTTTT
ATGGCTCTGGTTCTCCAGTTCTTTCGTCTCTGCCTCTCTCTGTCTCTCTCTCTCTGTCTTCCACCCCTCCCTC
CTTGCTTCCCACCATTCCTCATCCCTCACTCCACCCCCACCCCCACCCCCAGGAGTTGAGTGCATGGATCTGT
TTCTTTTTTTATTTACACTTTTTCTTTCCGGTTTGCCGAATAAACAGGACCTTTGACATTTGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5231

MWPLTVPPPLLLLLCSGLAGQTLFQNPEEGWQLYTSAPDQKICITAVIPAQSTCSRDRSRELRLMEKVQNV
SQSMEVLELRITYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQELKDRMTELLPLSSVLEQYKADTRTIVRLR
EEVRNLSGSLAAIQEEMGAYGYEDLQQRVMALEARLHACAQKLGCGKLTGVSNPITVRAMGSRFGSWMTDTMAPS
ADSRVWYMDGYKGRRVLEFRTLGDFFIKGNFIQHLLPQPWAGTGHVVYNGSLFYNKYQSNVVVKYHFRSRSVLV
QRSLEPGAGYNNTFPYSWGGSFSDMDFMVDESGLWAVYTTNQNAGNIVVSRLDPHTLEVMSWDTGYPKRSAGEAFM
ICGVLYVTNSHLGAKVYFAYFTNTSSYEYTDVPPFHNQYSHISMLDYNPRERALYTWNNGHQVLYNVTLFHVIST
SGDP

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FIGURE 5232

AGGAGGCCTCGTGGAGGACACAGCAGCATGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTCGTGTTACGCGAGGCTGCACGGGTGCG
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTTCGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCCTCGGGGTCACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCCAGGAGGCCCCACCTTGACCTTCCAGGTGAAGAAGTACTCG
CTGGTTCGTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCCCAACATGAGCCGCCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTGCGGAGAGCGAG
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTCGCTGGCCGTGGCAACATGCGGGCCAG
CAGAGTGCAGTGCGGCTCACCGAGATCGGCCCCGCGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG
GAGGGCAAAGTGATGTTCCACAGTTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCCAGCAGGCCCAGAAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTCGGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCCAGTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTCGCCTTTGTGACCAGAAGTTTCCAAGACCAAGGAC
AAGTCCCAGGGAGCCCAGGCCAGGCGGGGGCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCCGGGGCCGGGGC
CGCCAGGGAAGAGAGTGGCCTGAGCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAACTGAATT
GGC

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FIGURE 5233

MGQSGRSRHQKRARAQAQLRNLEAYAANPHSFVFTRGCTGRNIRQLSLDVRRVMEPLTASRLQVRKKNSLKDCVA
VAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTFQVKKYSIVRDVVSSLRRHRMHEQQFAHPPLLVLNSFGPHG
MHVKLMATMFQNLFP SINVKVNLNTIKRCLLDYNPDSQELDFRHYSIKVVPVGASRGMKKLLQEKFPNMSRLQ
DISELLATGAGLSESEAEPDGDHNTITLPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF
VSKTEEELQAILEAKEKKLRLKAQRQAQQQNVQRKQEQREAHRRKKSLEGMKKARVGGSDDEASGIPSRTASLEL
GEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQKRLAKSPGRKRKRWEMDRGRGRLCDQKFPKTKDKSQGAQARR
GPRGASRDGGRGRGRGRPGKRVA

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FIGURE 5234

CTTTTGGCATGCCTACTGGGGACTTTGATTCTGAAGCCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTCACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTCGCA
AGGAGGAAGAAGTGAAGAAGTTCGGGAAGTTCAGAGTTTGACCCCCCGGACCCAATGTGGCCACCACCACTGTC
AGTGACGATGTCTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCTATGAAC
AAACTCAAGGGCCAGAAGATCGTGTCTTGCCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCCCTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCGCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCCGGCCTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTCGCCTTCATCAGCTTCCACCGCCGCGAGGATCGTGCGCGTGCCATT
GCCGGGGTGTCCGGCTTTGGCTACGACCACCTCATCTCAACGTCGAGTGGGCCAAGCCGTCCACCAACTTAAGCC
AGCTGCCACCGTGTAATCGGTCCGGGACCCTTGGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTCCAAGGGCAA
TAAAGCAGCTCCACTCTCAA

5681/6881
FIGURE 5235

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDT SPEPELLPGAPLPPPKEVINGNIKTVTEYKIDED
GKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQEEEDPMNKLK
GQKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNKTKGYVPPSLRDGASRR
GESMQPNRRADDNATIRVTNLSED TRETDLQELFRPFGSISRIYLA KD KTTGQSKGFAFISFHRREDRARA IAGV
SGFGYDHLILNVEWAKPSTN

5682/6881
FIGURE 5236

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTTCGGACCCCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCCAGCGCGGAGT
CGCGGCGGGTAGGGCGGCGTCGCGTGCCTGACGTCATCCAGCGGCGCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAGTTCGTCCGGGCGGGGCGCGGGCCTGGCTTCGGCCTACCGG
CAGCCAGGGCCTGAGTTCCTGGCGGAAGAGGCAGCGCTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG
TCTCCCGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTGA
GTCCTTGCGGGGCTTCGAGCAGGAGCGCTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTGGCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTCCG
CTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTACGCCTGCCCTACAGCGA
CTTCCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCCTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCTGGCCGACTTGGGAGCCTCAGGCCACGCCACCCCTTÇGAGGAAGGTGTCACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTTGTTTTTAAATAAATTGTATTTTTG

5683/6881
FIGURE 5237

GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAG**ATG**GTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCGGGTGGAAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAACTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTT
CCGGCAGTTCTTCTACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGAGCGCAA
GAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTG**TGAC**CTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCCCTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCCTCTACTTGCCTGCTCGGCCAGCCTGGGGGGCCCCGCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCCATTCAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTACACAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTCTGCTGTCTGTGTCTTCTATTTGGCAAACAGCAAT
GATCTTCCAATAAAAGATTTAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

5684/6881
FIGURE 5238

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRKLKELEVAE
GGKAELERLQAEAAQLRKEERSWEQKLEEMRKKEKSMPWNVDTL SKDGF SKSMVNTKPEKTEEDSEEVREQKHKT
FVEKYEQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTI VMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLR IEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

5685/6881
FIGURE 5239

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCTAGCGGGGCTGGGGCCTG
CTGCCGATTCTGCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTACACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCAGTTTCATGGCCCACAAGGTGGTGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTGCGCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTATGAACGGTGCTGTATGTACCA
GATCGACAGCGTTGTCCGTGCCTGCAGTGACTTCCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCCACTGCCAAGTGGTGACCCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGGTTCTA
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACCTTCCTGCAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCCGCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCAGTGACGGCACCTGGCTCCGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACCTGCCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTGCCTGCGCCCCCATGAGCGTGCCCCG
TAACCGCATCGGGGTGGGGTTCATCGATGGCCACATCTATGCCGTGCGCGGCTCCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGCTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGAGGCGTCTG
CGTCCTGCACAACCTGTATCTATGCTGCTGGGGGCTATGATGGTCAGGACCAGCTGAACAGCGTGGAGCGCTACGA
TGTGAAACAGAGACGTGGACTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCCTTGGAGGCTATGATGGTCACACGTTTCTGGACAGTGTGGAGTGTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTACCATGGAGCCCTG
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACCTTTTGTCTTGGGCAAAAATACAGTCCAATGG
GGAGTATCATTGTTTTTGTACAAAAACCGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGAGGCCAGGATGCCTCAGTGTTAAAATGACATCTCAAAAGAAAGTCCAAAGCGGGAATCATGTGCCCTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCCC
CCAAACCTCTGGCCGGGTAAATAGGCCTGGGTCCCCTACCCCATGCCGGCAGCTGTACCATGTGATTTATTCT
TGGATACCTGGGAGGGGGCCAATGGGGGCTCAGGGGGAGGCCCCCTCTGGAAATGTGGTTCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGGATGGACAGTTATTTTGTGATAAGTAACCCTGTAATTT
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTC

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FIGURE 5240

TTTTACAAAACGCTCTCCTTGTTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGAGAGAAGCAGAAGAAAGTGC GGCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGAGAGAAGGCAGGCAAATATGTTGATGAGGAGAACTCAGACGGGGAGACT
TCCAATCACAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCCAGGAGGAGGCCGACTACATCGAGTGCTGAAGGGACAGAAAGAGATTTCGGAACCCA
GATTCCCTGAAGGAACTGACGCATCTCAAGGAATACTGGAACGACCCTGAGTTGGATGAAGGGGAGCGGTTCCCTG
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGCGTCTCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGAAGAGACTCGGGAGCGAAAGAAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCCT
GCCCAGCACGACCAGCTCATGCAGAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAACCTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTTTGAACCCGGGGACAAGACGTTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTCGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTGAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCCAGAACTCATGGAAAAAGCGGCAGGTCTTCAAGTCACTC
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGAGAGTCCCCCAGCACAGGAAGAGGAAGCCCTGTATCACC
CACAAGAAGCCAGCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGGAGCAGGCAGGGGCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCTGTCTCTTG

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FIGURE 5241

GGCGCTTCCGCAGGAAGAAGGAAGCGGGCGCCGCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACCA**ATG**TCCGCCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACCTTGTTCATCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCACCCACTGTACCAACGCTGTGTCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTCATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGGTACC
ATCAAGCTCAAGGTGTTTCTGTTCAGGAATGCCAGAGCTGCGGCTGGGCCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCGCAGCAAGAACAAATCAGTAGAGCTGGAGGATGTAAAATTCCACCAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCCTGATGGTGACTTTGAGCTCATGTCATAACCGCCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTTCATTGAGAAAGTTCTCCACAGCCGCGTGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTTGGAGTATTAAGTCT
TTCCCGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCCAGTGTGAAAAGGAAGAGGTGGAGGGC
CGGCCCCCATCGGGGTCAAGTTTGAGATCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAAGTGTTACCAGGCCCTGCCCTGGGTTTCGCTACATCACCCAGAGTGGCGATTACCAACTTCGTACC
AGCT**AG**AAGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTGTCTGTGTGAGGGCAGGTCCCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCCATAGGCTGGGAGAGAACTCTCTGCTTCCCTCGCCCTTGGAGCTTTCCCCATC
CCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCCCCTCGCGAGTGCCTTCTTGCAATTACCTGCC
TTAGCGGGTGTTGCGGGTCCCTCCTTCACAGCCGCTGAGCCCAGAGGTCCCGCTGGCCCCCTCCTCTGAATTTTAG
GATGTCATTAAAAAGATGAATCTA

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FIGURE 5242

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNA
NASLVYSFLYKTIEVFCEYFKELEEEESIRDNFVIVYELLDLMDFGFPQTDSKILQEYITQQSNKLETGKSRVP
PTVTNAVSWRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLKVFLSGMPELRLGLNDRVLFELTGR
SKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQ
FKKQSVANGVEISVPVPSDADSPRFKTSVGSACYVPERNVVIWSIKSFPGGKEYLMRAHFGLP SVEKEEVEGRPP
IGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS

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FIGURE 5243

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTTCCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGGCACAAAAACGAGAACAAACCCTATCTGTTTTATTTC AACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGAAAAATGCCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTTCCTGGCTTCAAGAACAAATAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGA CTGCCCTGCTGTCTCATCCCCAGCAAACCCTTGCCCCGGAGATGCTTCCCCGCT
ATCCACGCCTACAAGGTGTCTGATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCCTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTTCATC
ATCCTGCTTCGCTTCCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGTCTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAAGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCCGGGTGTACCTGCACCTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTTCTCCGGAAGAGAATTCTCATCGCGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCCCTCCTCCAATGAGTCCCGCCAATGCCCCAATGCC
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCACCGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTCACGCTGGCCGGGGCCTTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCAATTTCTGCACC
TCGGCCAGGAATGCCTTCTTCTGCTCATGAGAAACATCATCAGAGTGGCTGTCTGGATAAAGTTACTGACTTC
CTCTTCTGTTGGGCAAACCTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCTTACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTCTTATACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTTCTTACGCTCTATGGCATGTGTGTGGACACGCTGTTCTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCTTACTTCATGTCTTCCACCCTCAAGAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

5690/6881
FIGURE 5244

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCCGGGGAGGTGCGGGAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAAGAGATAAGGGGG
GGGCTGAGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTGCGTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTTTCGCGGTTTCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCCGTAAGTGGGAGTCCCTCCATCACGTGACGAGGGCAGCGCTCTGGTTTTTCGCTAA
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGGCGAGCCTCCCTACGGCTGCGACAT
TTTGCGCCTGCGCGGCCGCCATCTTACGCCCGTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCCGGGATTTTCGGGCTCCAGTGAGGTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCGGGACCGGCGCCAATGCGCGCCCGGGTCTTGGGTTCTTTTCGTCGCCGAGACCTGCCTTGGTGT
GGCGTCCCTGGGCGGTAGCTTCCGAAGGCTGCAGCCGACCTGGTTCGGGTCCTCTAGCCCGCCTTCCCCTTCCCC
CATTGACAGATGGAGAACTGAGGCCCAGGCCAAAAAATATCTCACTAGAGGGCTCACCGCCATTTCTGGAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGTCTTACAAGCGTGGTGTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCGCATGTACAATCTGTGCT
TAACTAAACCCCACTGTCTTCCAGGGTCAGGTTGGCCATCCGAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCTGTGTGATTCAGACGTTCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGTTTCGAGACCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCCACCTA
CTTGGGAGGCTGAGGCAGGAGAATTGTTTGACCTGGCAGGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTAATCCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTCAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAAACACCGTCTCCACTAAAAATAGAAAAATTAAGTGGGTGTGGTG
GAGGGCGCCTGTAATCCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAAA
AAAATTGCGCCAGGTGTGGTGGTGTGCGCCTATAATCCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACCTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCCTGCACTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAAGAGTGTAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAACAAGAACAAGTTTTCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGAGCAAAGTTGAAAAGAAAAATTCCTTTACTG
TCTCTCCTTTTCTGAACCATTAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAAGTCTTTGTTTTGCTTCTGTAAGTTTGCCTATAAAAACCACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGACATCTAAATAAATCCTCCTGTTTCC
GT

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FIGURE 5245

MAPLHSSLGDRARLRLPILKKKKKKKKCKDVIMWQGVVRVKKKTRTSFPLLSQLTSRTVITLKSRGQRNGLQTAS
SGAKLKRKIPLLSLLF

5692/6881
FIGURE 5246

GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCCTCCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCTTAACCCCTGATTTTGATGGGATGTG
TTCATGTCCTATCTCCTCTCCTGGACACATTAAGGGGTTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCGCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCCCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCAGTGCTGATGATGCCGTCATGCTGCTGGCCTGAGACAGTATCCAGCTACAACAGGACGACACCGGGTTTACG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCAGGCTAGTTGCCTTCCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTTCAAGTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAAGTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTGG
GGCTTCATGAACTAGGATGAAAGGAGGCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTTCGTCACCTCTGGGCAGGGATGCCGTCAGCCTTGAGGGTCGCCACCCACCTG
TGTGTTGCCCTCTGTCCTGGCAGGGAAACATACACCCCTTGTCTACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTGCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT
GGGCAACAACCTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA
TGTGTT

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FIGURE 5247A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTCGTTGAGGGTCGGCGGGCGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCGCCGCGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCTTCAGCTCCATCGGCCAGAGCTG
CCACCTGGACCTGCCGCAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACTTCGT
GGGCCGGGACTTCCTTCCCCGCGGTTTCAGGAATCGTCACCCGGCGGCCTCTCATTCTGCAGCTCATCTTCTCAAA
AACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACCTTGACCCTCATCGACCTCCCGGTATCACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTCACGCCCGC
CAACATGGACCTGGCCAACCTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATACCAAGCTTGACCTGATGGACGAGGGCACCGACGCCAGGGACGTCTTGAGAACAAGTTGCTCCCGTT
GAGAAGAGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCTCTCCCACCCGGCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAACTTTCGGCCCCGACGACCCCAACCCGCAAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTACCCCGGACTTGGCATTTCGAGGCCATTGTGAAAAAGCAGGTCTCAAGCTGAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACCAGTAAGCTCAGTTCTTACCCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCCTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCCAGCAGAG
GAGCACGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGCAGGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTACTGGTTTGCTGACTGCCGAGTCACTGTCTCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCACGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCTCCGAGCTGGCGTCTACCC
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCCAGGAGAACACCTTCTCCATGGACCCCCAACTGGAGCGGCA
GGTGGAGACCATTGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTCATCCACCACGAGCTGTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTCGGCTGACCAGGCACAGCGGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATACACC
CCCTGGCCGGCCCCCAGCAGTGAGGGGCCCCACTCCAGGGCCCCCCTGATTCTGTTCCTGTTCCCGTGGGGGCAGCAGC
CTCCTTCTCGGCGCCCCCAATCCCATCCCGGCCTGGACCCCAAGAGCGTGTTTGCCAACAGTGACCTCTTCCCAGC
CCCGCCTCAGATCCCATCTCGGCCAGTTCGGATCCCCCAGGGATTCCCCCAGGAGTGCCAGCAGAAGACCCCC
TGCTGCGCCCAGCCGGCCACCATTATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGGCGTG
CTCTCGGGGGGGCTCACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCGCCCCCTATGCTGGG
ACCAGGCTCCAGTGGGCAGCCCTGGCCTCTTCTTAACGCTGGCCCCGGTCCAGGGCCGGCCCCCTGTGCCTGGC
TGGACACCGCACTGCGCAAAGGGGCCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTGCACTTTGGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCCGGCATATTAACCACACAGCCT
GAGCCTGGCCCAGCCTCGGCTGCCAGAGGTGCCTTTGCTAGGCCCGGAGCCGTTGGCCCGGGCCGGCCTTGCCCT
ATTCTCTCTCTCTCTCTCTCTCTGGGTCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGG
TCTTGGGGGCTCTCAGTCTCCGCCCATGCCTCCCTGATGGGTGGGCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCCACTCTCTCGCTCAGTTTGACCACTGTAAGTGCCTGCACTCTGTATTCTATTAATAAACTAAAATAAAGGGA

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FIGURE 5247B

AGACGCTGCTGGTG

FIGURE 5248

[illegible]

5696/6881

FIGURE 5249

MAAAAAVGP GAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEV RAGPDSAGIALYSHE
DVCVFKCSVSRETECSRVGKQSFIIITLGCNSVLIQFATPNDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYF
QFYGYLSQQQNMMDYVRTGT YQRAILQNHTDFKDKIVLDVGC GSGILSFFAAQAGARKIYAVEASTMAQHAEVL
VKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESY LHAKKYLKPSGNMFPTIGDVHLAPFTDE
QLYMEQFTKANFWYQPSFHGVDLSALRGA AVDEYFRQPVVDTFDIRILMAKSVKYTVNFLEAKEGDLHRIEIPFK
FHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDI
SIVAQVDQTGSKSSNLLDLKNPFFRYTGTTSPPPGSHYTSPSENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIA
SGSSVGHNLIPLANTGIVNHTHSRMGSIMSTGIVQGSSGAQGSGGGSTSAHYAVNSQFTMGGPAISMASPMSIP
TNTMHYGS

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FIGURE 5250

GGCACGAGGGGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGA
GCCCCAGCCACGCCGGCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCTGAACGACCATGGCATCGGCCGA
CGAGCTGACCTTCCATGAATTCGAGGAGGCCACTAATCTTCTGGCTGACACCCCAGATGCAGCCACCACCAGCAG
AAGCGATCAGCTGACCCCAACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGA
GGTGGAGGAGGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTT
CAGCTACTATCAGAGCTTCTTTGACGTGGACACCTCACAGGTCCTGGACCGGATCAAAGGCTCACTGCTGCCCG
GCCTGGCCACAACCTTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCCTTCTGGATCTGTGCCAC
GTTGGCCTTTGTCTGGCCGTCACTGGCAACCTGACGCTGGTGCTGGCCCAGAGGAGGGACCCCTCCATCCACTA
CAGCCCCCAGTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCTGGCCCT
GTGGGGCTTCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCTGGAGACTGTGTGCAT
CTACGGCTACTCCCTCTTTGTCTTCATCCCCATGGTGGTCCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCT
CTTTGGGGCGCTGGCCCTGGGCCTGTCAGCCGCCGGGCTGGTATTACCCCTCTGGCCCGTGGTCCGTGAGGACAC
CAGGCTGGTGGCCACAGTGCTGCTGTCCGTGGTCTGTGCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTA
CTTCTTCCAGTCGCTGCCTCCGAGAACGTGGCTCCTCCTCCCCAAATCACATCTCTGCCCTCAAACATCGCGCT
GTCCCTACCTTGCCGCAGTCCCTGGCCCCCTCCTAGGAAGGCCCGGGTCCCACAGGCAACACCTAAGTGGACCA
ACCCCTCTGCCTGTCTGCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTC
CAGACTTTTCTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTGAGAGAATTTATATAAAGGCGGGCG
AGGGGCAGCCGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCGGGCCACCTGCTTTCCCTCC
TATGGCTCCCTGGAACAGGAGGGAGAGCCAAGGGGGCGGCCAGCCTGGACAGCGCCGCTCCTGCCTGGGTGC
ACACACGGCGGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAA
ACTGCCTGTGCTGCAA

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FIGURE 5251

MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQP
GFWTFSYYSFFDVDTSQVLDRIKGSLLPRPGHNFVRHHLRNRPDLYGPFWICATLAFVLAVTGNLTLVLAQRD
PSIHYSPOFHKVTVAGISICYAWLVPLALWGFLRWKGVQERMGPYTFLETVCIIYGYSLFVFI PMVVLWLIPVP
WLQWLF GALALGLSAAGLVFTLWPVVREDTRLVATVLLSVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLP
SNIALSPTLPQSLAPS

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FIGURE 5252

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG
ATGGCCGCGGCGGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG
GGAGTGTGGGCGCGGGCTGGGGTCCTGGGCCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCCGGCCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGGCGCGGCGGCCTGCTTCACG
CTGGCGCCCCAGCGAGGGTGCCITTCGAGGAGGCGCTGCTGGAGGCGTCGGGGACCCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACCGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCTTGACGTGGGCTTCGTGGGTGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTGCGGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCGACGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGAGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCCGAGAT**TGA**AACCCTGAGGCCCCCGAGTCCTGGCAAACCTGCTTGCCCTGGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTCACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTCACTACTGGCAGAGCTGGTCATGAGCCTTTTATATA
AGCCTTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACCTCTTCTA
AGGCCACTTAGATTTTCTTTTTCAAGTTTGGGTGTGGCCTGGCATGGTGATGTCTGTAATCCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAGGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAATAAATAAAATTTGAGCTG

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FIGURE 5253

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRAAVYVGLLGAAACFT
LAPSEGAFEEALLEASGTLLLLAPATRNRESEAFVQRLLWLRGRGRRLRYVNLGLCSLVYEAPFDAQASLYQARCR
YLQPRWTDFFPGRVLDVGFVGRWWVLGAWMRDCDINDDFLHLPahlrvvgpqqLHSETNERLFDEKYKPVVLTDD
QVDQALWEEQVLQKEKKDRLALSQAHSVLVQAEAPR

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FIGURE 5254A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGCAGGCTTCCCCCTCGTTTGGCGGCGGCGGCGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCATTCTGCCCCCGCCCCGCGCGGAGGGGCGGGGGAGGCGCCGGGAAGTC
GACGGCGCCGCGGGCTCCTGCGAGGAGGCCACTGTCTGCAGCTCCCCGTGAAGATGTTCCACTCCAGACCCACCCCTG
GGCGGAACCTCCTCGGCCAGGTCCCTTCCCCGGGCCCTGGCCCTTCCCCCTGGAGCCATGCTGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCACAGCATGATGGGGCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCCTGGAGGGTACCCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGC
ATGTCGGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCAGCCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCGTCTTCGGGGCCCCAGATGTCTTCGGGGCCAGGAGGTGCCCCGCTGGATGGTGCTGAC
CCCCAGGCCTTGGGGCAGCAGAACC GGGGCCCAACCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCCGGCCCGGGTCCCGGCCCGGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCCAGGACCCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCGGCCCTTCCCCCGCGCCCCCTGCCGTCCACCCGCGCCTCGCCCGTGATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCATCCAGAAGCCG
CGGGGCCTCGACCCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTCAG
GAACTTGAAAACCTTCCCGGGTCCCTGGCCGGGGATTTGCGAACC AAAAGCGACCATTGAGCTCAAGGCCCTCAGG
CTGCTGAACTTCCAGAGGCAGCTGCGCCAGGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTCACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGACGACAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGC GGCGAGCACAAGGCTGCCCAGGTGCGCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAAATGCAGAAGGACAGACGCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAGCCGGGCAGCTGGAGGCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAGGAAGAGCAGCCGAGGCAGCACAGCCTCCCACCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTGATGATGAATATGGCGTGTCCCAGGCCCTTGACGTGGCCTGCAGTCTTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCACGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCTCATC
ATCGTGCTCTCTCAACGCTGTCCAACCTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCTGCTG
CTGACGGGCACACCGCTGCAGAAACAAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCTGTGCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTTAACGCACCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTCTCATCATCCGGCGTCTCCACAAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTCGAGGGCCAGTTGCCCCGAAAAGGTGGAGTACGTATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGCTCTAC
CGCCACATGCAGGCCAAGGGCGTGCTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCCAAACCTCCGAGCAACCAACCACAAAGTGCTGCTGTTCTGCCAAATGACCTCCCTC

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FIGURE 5254B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCCACACTGCCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGAGGAGGCCACCTCTAAAGGAGGAAGACGAGGTGCCCAGCAGACGAGACCGTCAACCAGATGATCGCCCGG
CACGAGGAGGAGTTTGATCTGTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCGCAACCCCAAGCGG
AAGCCGCGCCTCATGGAGGAGGACGAGCTCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTGCGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCAGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCCGGCTCCTCCACCCGACCACCAGCACCCGCGAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCGCTGCCGAGAACTCTCCCCTAACCCACCCAACCTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGTGCCCGAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTTCGAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGCAGTCGGTCTTCACC
AGCGTGCGGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGGCGGGCGGGCGGCGGAGCCGAGGGTCCCGAGCCAAGCCGGTTCGTGAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGCGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGAGTA
AAACTGTATAAACAAGAAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAAACAGCATTAACTGTCTTAAAGAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTTCCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCCTACTGTATTTTATTGGACAGGTCAGACTCGCCGGGGGCCCGGCGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAATTAAACCAACAACAAAACGCA

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FIGURE 5255

MSTPDPFLGGTFRPGPSPGPGPSPGAMLGPSPGPSPGSAHSMMPSPGPPSAGHP IPTQGPGGYPQDNMHQMHKP
MESMHEKGMSDDPRYNQMKGMGMRSGGHAGMGPPPSPMQDHSQGYPSPLGGSEHASSPVPASGPSSGPGMSSGPG
GAPLDGADPQALGQQNRGPTPFNQNLHLQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMPPGMQQQMP TLPPPSV
SATGPGPGPGPGPGPGPPPNYSRPHGMGGFNMPFPGPSGVPPGMPGQPPGGPPKWPPEGPMANAAAPTSTPQ
KLIPPQPTGRPSAPPAPVPPAASPVMPPTQTSFGQPAQFAPMVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGLAGDLRTKATIELKALRLNLFQRQLRQEVVCMRRDTALETALNAKAYKRKRQSLREA
RITEKLEKQQKIEQERKRRQKHQEYLNLSILQHAKDFKEYHRSVTGKIQLTKAVATYHANTEREQKENERIEKE
RMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLTELVRQHKAQVAKEKKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGTDPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIENAKQDVDEYGVSQLARGLQSYAVAHAVTERVQKQSALMV
NGVLKQYQIKGLEWLVS LYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGS PAARRAFVPQLRSGKFNVLLTTYEYI IKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTP LQNKLP ELWALLN FLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAQGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHI EESFSEHLGFTGGIVQGLDLYRASGKFELLDRI LPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKT FNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQQNEVR
VLR LCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDES RH CSTGSGSASFAHTA
PPPAGVNPDL EEPPLKEEDEV PDDETVNQM IARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVRQKKSSRKRKRDS DAGSSTPT
TSTRSRDKDDESKKQKKRGRPPAEKLS PNPPLTKMKKI VDAVIKYKDSSSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFKKIKERIRNHKYRSLNDLEKDVMLLCQNAQT FNLEGLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEGSESESRSVKVIKLRKEKAQDRLKGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

5704/6881
FIGURE 5256A

GCCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGCATGGGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCGCCCTGCTCCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGGCCGTGTCAACCGCTGCATTCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCAAGACGTGCTCCCAGGACGAGTTTCGCTGCCACGATGGG
AAGTGCATCTCTCGGCAGTTCTGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCTCCTGCCCCG
GTGCTCACCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCCAGCTGTGGGCCTGCGACAAC
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCGACGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCCGTGCTCGGCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGCAATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAACCTGCGCTGTGGCCACCTGTGCGCCTGACGAATTCCAGTGCTCT
GATGGAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTACAGCGGCGAATGCATCACCCCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGCGGGACCAACGAATGCTTG
GACAACAACGGCGGCTGTTCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCCACACGAAGGCCTGCAAGGCT
GTGGGCTCCATCGCCTACCTCTTCTTCAACCAACCGGCACGAGGTGAGGAAGATGACGCTGGACCGGAGCGAGTAC
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTGCCTCTGGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCCACGGCGTCTCTTCTATGACACCGTCATC
AGCAGAGACATCCAGGCCCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAAGAGGAAAACGTTATTTCAGGGAGAACGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTTCATGGCTTCATGTACTGGACTGACTGGGGAACCTCCGCCAAGATCAAGAAA
GGGGGCTGAATGGTGTGGACATCTACTCGCTGGTGAAGAACATTGAGTGGCCCAATGGCATCACCCCTAGAT
CTCCTCAGTGGCCGCCTCTACTGGGTTGACTCCAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACATCTTGGAGGATGAAAAGAGGCTGGCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTTGTGGCTGAA
AACCTACTGTCCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAAGTGGTGTGAGAGG
ACCACCTGAGCAATGGCGGCTGCCAGTATCTGTGCCTCCCTGCCCCGAGATCAACCCCCACTCGCCCCAAGTTT
ACCTGCGCCTGCCCCGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTGAGCTCCACAGCCGTAAGGACACAGCACACAACCACCCGA
CCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACCCAGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAGAAGCCAGTAGCGTGAGGGCTCTGTCCATTGTCTCTC
CCCATCGTGCTCCTCGTCTTCTTCTGCTGGGGGTCTTCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTTGACAACCCCGTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACCAGGACGGC
TACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCCTGGAGTCCCGTCCCT
GCCCAGAACCCTTCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCATCTGGGAGGCAGAACAGGCTTCGGACAGTGCCCATGCAATGGCTTGGGTTG
GGATTTTGGTTTCTTCTTCTTCTCGTGAAGGATAAGAGAAAACAGGCCCGGGGGGACCAGGATGACACCTCCATTT
CTCTCCAGGAAGTTTTGAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT
CAGGCCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCAACGGGACCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTTAGCCTTTGCCCTGTCACCCCCGAATCATGACCCACCCAGTGTCTTTCGAGGTGGGTTTGTACCTTCC
TTAAGCCAGGAAAGGGATTTCATGGCGTCGGAAATGATCTGGCTGAATCCGTGGTGGCACCGAGACCAAACCTCATT
CACCAATGATGCCACTTCCCAGAGGCAGAGCCTGAGTCACTGGTCACCCCTAATATTTATTAAGTGCCTGAGAC
ACCCGTTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTCAGGACACCAGCCTGGTGGCCAT
CCTCCCGACCCCTACCCACTTCCATTCCCGTGGTCTCCTTGCACCTTCTCAGTTTCAAGTGTGTACACTGTGTACA
TTTGGCATTGTGTTATTTATTTTGCACGTGTTTTCTGTGCTGTGTGTTGGGATGGGATCCAGGCCAGGGAAAGCC

5705/6881
FIGURE 5256B

CGTGTCAATGAATGCCGGGGACAGAGAGGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCGTCTTTATGTCCGCCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC
CCAATCTTGTCGTTGATGGGTATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGGAGACTCCGTCTCAAAAAAAAAAACAACCAATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCTATTTTCAAAAATACAACTATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTCAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGGATTTTTTGTATGTTTGCACCTTTGTATATTGGTTGAAACTGTTATCACTTATA
TATATATATATACACACATATATATAAAATCTATTTATTTTGTCAAACCCTGGTTGCTGTATTTGTTTCAGTGACT
ATTCTCGGGGCCCTGTGTAGGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTTGGGAGAATGATGTCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

5706/6881
FIGURE 5257

AGTCTGCGCGGCGCGGCCAGGCCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCCATCCCGCCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCCTCGCCTGCCTGGGCCTCAGTTTCCACATCTGCACAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCTGGCCTTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTCGGTGCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCCACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCCTCCTGCTCTTGTCTACGCACTGGTCACTGCCGGGCCCCACCCTCACGATCCTGCTGGGAGA
GCTGGCGCGTGCCTTTTTCCCTGCACCACTTCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGC
CTGCTGCCGCTTCAGCCCCCAGTGCGGAGGCTGGTCCGCTTCTGGGGGTCTACTCCTTCGGCCTCTTCACCAC
GACCATCTTCGCCAACGCGGGGCAGGTGGTGACCGGCAATCCACGCCACACTTCCTGTCCGTGTGCCGCCCCAA
CTACACGGCCCTGGGCTGCCTGCCACCTTCTCCGATCGGCCAGGTCCCGACCGCTTGTCACTGACCAGGGTGC
CTGCGCTGGCAGTCCCAGCCTCGTGCCGCGCGCGCCGCGCCTTCCCCTGCAAGGATGCGGCCCTCTGCGCCTA
CGCGGTACCTACACAGCGATGTACGTGACTCTCGTGTTCGCGTGAAGGGCTCCCGCCTGGTCAAACCCTCGCT
CTGCCTGGCCTTGCTGTGCCCGGCCCTTCTGGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTCGGA
CGTGCTGGCTGGCTTCTGACAGGGGCGGCCATCGCCACCTTTTTGGTCACTGCGTTGTGCATAACTTTACAGAG
CCGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGCAATTCGACACCGGCACGGCTCACCCCATCCAAGTCGCAGAACTGCGCCCGC
CGTGGCCACCTGATCCCCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTGTCGCCCCGTGTGCCCGTCTCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCCTGCCCCCTACCCCTGCCAGCGCCCCACCCCCAGCCAGGGCCCCCTCG
CCTTCCCTCCCTTGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTGGCCGGAAGCTGCTGCTGCCACGCCCTTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACCTTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCGACCACCCACCCAGAATCTGCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAAGTCCCCTGCCCCCAAGCCAGCCAGACCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCGACAAATGGAAGGTG
CGCACTTGCCCCCTACTATTGCCCTTTTTAAGGGCCAAAGCTTGACCCATTGGCCATTGCCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCCTCACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTACGCACTGAACAGCCAATAGGAGCCCTTGGTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTCAATTGAGTCTTCTCTCAGAATCAGCGAGCCCAGCTGTAGGGTGGGGGCGAGGCTCCCCCATG
GCAGGGTCCCTTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTCCACCTCTCACCACTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGGTTTTGGGGTTCAGGGTGTGTGTCTCCCTTGCC
TGTGCCAGGTTCATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTCTTCTTTTCTTGGAAC
CTGCCCCGTGTTCTTCACTGCCCCCATGCCTCAGCCTCATAAGATGTGCCATCATGGGGGCGATGGGTGGAG
CAGAGGGGCTCCCTCACCCCGGCGAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAACAG

5707/6881
FIGURE 5258

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATCATGGACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTCGGCTCCCTTTGTCTCCTGCTCGCTGGGGCCGCCTGGGCGCCCCCGCCTAACCT
CCCGGACCCCAAGTTCGAGAGCAAAGCGGCCCTTGTGGCGGCCCGGGGGCCCGAAGAGCTTCTGTGCTTCACCGA
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGCACCAGGCTCCACGGCTCGTGGTGCAGTGCAGCTT
CTGGTGTTCGCTGCCTACAGCCGACACGTGAGCTTCGTGCCCCCTAGAGTTGCGCGTCACAGCAGCCTCCGGCGC
TCCGCGATATCACCGTGTTCATCCACATCAATGAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT
GGCTGACGAGAGCGGCCACGTAGTGTTGCGCTGGCTCCCGCCGCCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG
TGTGCTGAGCAACCTGCGGGGCGGACGCGCTACACCTTCGCCGTCCGCGCGCTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTTCGAGCCTGTGTGCTGCTGACGCCTAGCGACCTGGACCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTTCATCCTGGTGTGCTGACCGTGTCTCGCGCTGCTCTCCACCGCCGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCAGAGCCAGAGAGCGAGTTTGAAGGCCTCTTACCACCCACAAGGGTAACTTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCCCTGCACCCCTTACCGGAGGACCCACCTGCTTC
CCTGGAAGTCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAAGCATGCCCAGGATACCTATCTGGTGTGCTGGACAAATGGTTGCTGCCCCGGAACCC
GCCCAGTGAGGACCTCCAGGGCCTGGTGGCAGTGTGGACATAGTGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCACCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCCAGGGAGCCCCAAGGGGGCTT
ATCCGATGGCCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCAGCTATGT
GGCTTGCTCTTAGGACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAATTTTTTAAATATGTATAGTTTTTTTG

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FIGURE 5259

MDHLGASLWFPQVGSCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPG
NYSFSYQLEDEFPWKL CRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVG
LVARLADESGHVVLRLWLPPEPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARM
EPSFGGFWSAWSEPVSLLTPSDLDPLIILTL SLILVVLVLLTVLALLSHRRALKQKIWPGIPSPESFEFGLFTTH
KGNFQLWLYQNDGCLWWSPCTPFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPILLEPVGSEHAQDTYLVLDKWL
LPRNPPSEDLPGP GGSVDIVAMDEGSEASSCSSALASKPSPEGASAA SFEY TILDPSSQLLRPWTLCPELPPTPP
HLKYLYLVVSDSGISTDYSSGDSQGAQGGLSDGPYSNPYENSLIPAAEPLPPSYVACS

5709/6881
FIGURE 5260

ATTTTTCAGAGCCCTAGGAATCCGAGCTGACGGATCCCTGACAGGGGCGACTGACTCCTAGTTATCCCCCTAACC
CCTAGGGGCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGCAGGGCGGCCTCCGCCAACGCCCTGCCTCC
TCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGG
CAAGGGCACAGCCCAGGCGTGACCCCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCCTC
TGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACCTGTTAGAGGGTGACCGGAAGGCTTTTTTTTGAGAG
CTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACATAA
GCTGCTGGACCTGCTCAAGGGAGATGAGAAAGTGGTCCAGGCAGTGATTTCGCGAATGGAAGTGGGAGAAGCCATA
CCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGC
CCTGCGGCACCAGGTGGTGTTCGCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCTTCTGGA
GATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCGGAACCTGGAGAACCCTGGAGAAGGC
CCAGATGAAGGCGCAGGAGGCCGAGCACATTACCAGCGTGACCTGCAGCTCAAGGCCTATCTAATGGACGAGAG
CCTCAACTTGGAGAACCCTGGACTCCATGGAGGCTGAGGTGGTGAGGACCAAACATGAGCTGGAGGCACTGCA
CGTGGTGAACCAAGAGGCCCTCAATGCCCCGGGACATTGCCAAGAACCAGCTGCAGTACCTAGAGGAGACCTTGGT
TCGAGAGCGCAAGAAGCGGGAACGCTACATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAACTGGAGAACGA
GCGCATGGAGCGCAAGACCCACCGCGAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCATGC
CAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGCAAGGTCAAGGACGCCAC
TGGCACTGACGAGACGCACTCGTTGGTGCGGCGGTTCTTGGCCCAGGGCGACACCTTCGCGCAGTTGGAGACGCT
CAAGAGCGAGAACGAGCAGACGTTGGTGAGGCTGAAGCAGGAGAAGCAACAACCTGCAGCGGGAGCTGGAAGACCT
CAAGTACTCGGGGGAGGCCACGCTGGTGAGCCAGCAGAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAGGA
GGAGCGGCGGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCCTTGCGGGCGATGCAAGTGGCCAAGGACAGCCT
GGAGCACCTGGCCAGCAAGCTGATCCACATCACTGTGGAGGACGGCCGCTTCGCGGGAAAGGAGCTGGATCCCCA
GGCAGATAACTATGTGCCAAACCTGCTGGGCCTCGTGGAGGAAAAGCTGCTGAAACTGCAGGCGCAGCTCCAGGG
CCACGACGTGCAGGAGATGCTGTGCCACATCGCTAACCGCGAGTTCTCGCCAGCTTAGAGGGAAGGCTGCCCGA
ATACAACACCCGCATCGCCCTGCCCCTTGCCACTTCCAAGGACAAGTTTTTTTACGAAGAGAGTGAGGAGGAGGA
CAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCAGAAATTAATCGAAAGTCACAAGAAGCACCGTCG
CTCTCGGAGGTCCTAGACTCGTCCTGACACCCACCAGGCGGCCCCCTTCGAGAGCCCCCGATCCCTCCGGGTCTAG
CGCAGGCCCCACGGGGCCCCCTTCAGGGGCTGAACGCGGCCCCGACCGGGAACGGAGGCGCCAGCGGCGCCCGGA
GGGGAGGAAGGGGCCGGGCCAGACGTTCCACAGTAAATCTCCCCAGCTGGGTCCGCCCCGGCCTCAGAGTTGCG
CAATAAATGTTACCGACCATG

5710/6881
FIGURE 5261

GCTGCGCCGCCATTAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACC GCCCCCACTCCTGCCTCTCCCAACATGGCGACCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGTCCAGAAATTTCCGCTTTCTTTCTGCAGCAGGAACCGCGGCTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCGTGAAGACACAGCGCATCTCCCCGCTGTAGGCTTCCTCCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGCTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCCGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTTACC
TGCTGGACGGTTCCGGCCACCATCCCATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTCAACCGCGAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTTCTACGACCGCGTCTGGGCCGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCACCGACC
TTCCAGCACCTTCTGCCCCTGACTTGACGGAGCCCCAAGGAGGAGCAGCCGCCAGTGCCCTCGTCGCCCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTCACCCCCGCAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGACGCAGGCCTTCATCGATGCTGCCCAGGAGGCCCGCAACAAGTTGAGGAGGCCGAGC
GGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCAACGAATACGTCTACCGCTCTGCCCCCTTCAAGC
TTGTCTCGCAGAAAACCCAACTCGGGGGCTCTCCACACAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTCAGTGCCATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCACAGAGCCAGTCGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCTGCCCGGAGCCACCGCCTGAAGCACCCACCGAAGACGACCATGACGAGCTCTAGCTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTCGGCCTGCCCCAGCAAGGGGAGGCGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCCATGTTCCCTGCTTTTTTGTGTTTTGTTTTTGGAGGTGGAG
TCTCACTCTTTGGCCCAGGCTGGAGTGCAGTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTTAGTAG
AGATGGGGTTTACCATGTTGGCCTGGATGGTCTCGAACTCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTTGGATGGAGTTTCAC
TCTTGTGTTCCGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAATAAT
AATAATAAGAGAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAAACATCACCATGTCCAGCTGTCCCCAGCTTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCTGCAGTGCCGTCCACCCGCCCTCTGGGCCTGCCTGTGGCTC
TGTGCCCCTCCTCTGTGGCGGCAGGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCCAGGCGGGGGCTGGTCC
ACATTCCCAGGCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCCTGGGCCCCCACCTTGGTGACT
CGCCCCACCACCCCAAGCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCCACC

[illegible]

5712/6881
FIGURE 5263

MGRRKSKRKPPPKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTPITYLSEPVDVYSDWI
DACEAANQ

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FIGURE 5264

TTTCTGCCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTC**ATGT**CTAAGTCAGAGT
CTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCCACTTAACTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTGAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTC
GTGGAGGTGGTTTTCGGTGGGAATGACAACCTCGGTCGTGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAAT**TAG**GAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGCTTTTT
TTTT

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FIGURE 5265

MSKSESPKEPEQLRKLFIGGLSFETTDSELSRSHFEQWGTLTDCVVMRDPNTRSRGFGFV TYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKTVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSHGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPR
NQVAMAVPAAAVAMAVAEDFN

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FIGURE 5266

CTCTTTCCTTCAGTGTGCCACTGAAGATCCTGGTGTGCCATGGGCGCCGCCCCGCCCCTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTCTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAA
TTCTACTT

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FIGURE 5267

CTCTTGCGGAGACGCGCGCGTCGGGGTTTTAACGCGTTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTCGCTA
CCTTGTCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTACAAGAACCCGGGCCTGGTCCCTGGACATCGTTGAGGACCTGAGGCTCATCAACAC
ACAGGCCATCTTTGCCAAGTGCACTGGGATGATCATTCTGGGCGGGGCGTGGTCAAGCACACATTGCCAATGC
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGATGGCTCTGACTCAGG
TGCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGC
CTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGA
GGACTTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCCCTCCC
TACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5268

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMIEKKLE
PLSQDEEDQHADLTQSRRLTSCTIFLGYSNLISSGIRETIRYLVQHNMVVDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTEGVKWTPSKMIARLGKEINNPESVYYWAQ
KNHIPVVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKHHIANANLMRNGA
DYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFAQKMDAFMHEKNED

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FIGURE 5269

CTCTTGCGGAGACGCGCGCTCGGGGTTTAAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAAGTGGACGCCTTCTAAGATGATCGCCCGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTACAAGAACCCGGGCTGGTCTTGACATCGTTGAGGCCAGGAGTTTGATGGCTC
TGACTCAGGTGCCCAGCAGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTA
TGCTGACGCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGA
GAAGAACGAGGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAG
CCCCTCCCCTACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 5270

CTCTTGCGGAGACGCGCGCTCGGGGTTTAAACGCGTTTCTGGGCCGCCGTAAGCCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGACGCCTTCTAAGATGATCGCCCGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGGTGCCCGACCAGACGAGGC
TGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCT
GCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGAGGACTTGAGCGGCTGCGGT
CCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCTACTTTTTTGGTCAGCTAC
GTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5271

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMEKKLE
PLSQDEDQHADLTQSRREPLTSCTIFLGYTSNLISSGIRETIRYLVQHNMDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTEGVKWTPSKMIARLGKEINNPESVYYWAQ
KNHIPVVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFA
QKMDAFMHEKNED

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FIGURE 5272

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTGCACACAGCTGCCGGCTGGCTGCTACCCGCCCCGCGCCAGCCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCCGGAGCGGCCCCCGCAGGGA
CCCTCCCCAGACCGCCTGGGCCGCCCGGATGTCACCTAAAATGGAACAGCCCTTCTACCACGACGACTCATACAC
AGCTACGGGATACGGCCGGGCCCCCTGGTGGCCTCTCTCTACACGACTACAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGCCCAGAGGGCGGCGGTGGCGG
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCCCAACAGCAACGGCGTGATCACGACGACGCTACACCCCCGGGACAGTACTTTTACCCCCGCGGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTACCGAGGAGCAGGAGGGCTTCGCCGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGCCCCC
GGCTGGGGCCGGGGGCGTCTACGCCGGCCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCTCTCGGGAGGCGCCGGGGCTGCCGTGCGGACCGGGAGCTCGTACCCGACGACCACCATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCGCCGGTGTCCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTCGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCCAGCTCAAACAGAAGGTGATGACCCACGTCAGCAACGGCTGTCAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCCTGCCCTTTACGGACACCCCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCCTGGGACCTAGGGGGCGCCGAAACCACACTGGACT
CCGGCCCCCCTACCCTGCGCCCAGTCCCTCCACCTCGACGTTTACAAGCCCCCCTTCCACTTTTTTTTGTATGT
TTTTTTTCTGCTGGAAACAGACTCGATTGATTAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGCGGAGCTGGCCCCGCGCCTGGTACTCAAGCCCGCGGGACATTGGGAAGGGGACCCCCGCCC
CCTGCCCTCCCCTCTCTGCACCGTACTGTGGAAAAGAAACACGCACTTAGTCTCTAAAGAGTTTATTTTAAGACG
TGTTTGTGTTTGTGTGTGTTTGTCTTTTTATTGAATCTATTTAAGTAAAAAAAATTGGTTCCTTTATTAA

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FIGURE 5273

MCTKMEQPFYHDDSYTATGYGRAPGGSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGSD
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN
HVTPPNVSLGATGGPPAGPGGVYAGPEPPPVTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGG
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLRNRLAATKCRKRKLERIARLEDKV
KTLKAENAGLSSTAGLLREQVAQLKQKVMTHVSNGCQLLLGVKGHAF

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FIGURE 5274

CGCGGCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCA
CGCAGCTTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTGCGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCTACCCCTCTGG
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGCTGGGGCTGTG
AAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAGAGGGAGGCT
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGCTGAAAACAG
ATGAGGGCATTGCCTACAGGGGCCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATT
TGCCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC
CCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCCTCCAACTCCACAGTATGGGACCTGG
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCCAAGCCCACCCAGCC
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

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FIGURE 5275

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLEFFYP LDFTFVCPTEIIAFSNRAEDFRKLGCEVLGV
SVDSQFTHLAWINTPRKEGGLGPLNIPL LADVTRRLSE DYGV LKTDEGIAYRGLFIIDGKGVL RQITVNDLPVGR
SVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDD SKEYFSKHN

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FIGURE 5276

AAAAGGCTTCGCGGCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGC
CTTTGCCCACGCAGCTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCA
CAGCGGTGGTTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCT
ACCTCTGGACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCGCAAGC
TGGGCTGTGAAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCGGAAAG
AGGGAGGCTTGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGC
TGAAAACAGATGAGGGCATTGCCTACAGGTACTGTGGGACCCTCAGCCCGGCTCAGGGAGCGCCCTGCCCCCAT
TCCTGTGATGCTGGGACCACTCCTGTACAATGTCTTCTCTGCCCCCAGCCCTGTGGCTAGCAGCGGGTGGTTGGT
AGTCCCTTCCTTGTCTCTGGCAGTGGGAGCTATCAGCTCCTCACTGGGAACCCTGATGTCTTCAGGGGCCTCTTT
ATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATTTGCCTGTGGGACGCTCCG

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FIGURE 5277

CCATGGCAGGTCGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGCGGCGGCTGAGGCGGCATGGATCTCAGCGAG
CTGGAGAGAGACAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCGCGGTGTGCCGAAGGAGCCTTGCGTC
CTGGGCGTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCT
CGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCTATTGGAGAGCGAGCGGGAAAGGCTGTTT
GCGAAAATGGAGGACACGGACTTTGTGCGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATG
CTTGGGCGGGTCAAATACAACCTGAACTCCCTGTCACATGATACAGCCACTGGGCTTATACAGTATGCATTGGAC
CAGGGCGTGAAACGTCACCCAGGTATTTCGTGGACACCGTAGGGATGCCAGAGACATAACCAGGCGCAGCTGCAGCAA
AGTTTTCCCGGGATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTTAGTGCTGCCAGCATC
TGTGCCAAGGTGGCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCGTGGAGAACTGCAGGACTTGGATACTGAT
TATGGCTCAGGCTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTCCGGCTTC
CCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCCCAGACCATCCTGGAGAAAGAGGCGGAAGATGTTATATGGGAG
GACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCGT
CCCCGTTCTTCCCACCGATATTTCTGGAACGCGGCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGC
GCTCTACCTGCTTCCCCAACCCAGACATTAAAAATTGTTTAAGGAG

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FIGURE 5278

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGPVLGPMVYAICYCPLPRLADLEALKVADSKTLLSE
RERLFAKMEDTDFVGWALDVLSPNLISTSMGLRVKYNLSLSHDTATGLIQYALDQGVNVTQVFVDTVGMPETYQ
AQLQQSFPGIEVTVKAKADALYPVVSAAISCAKVARDQAVKKWQFVEKLQDLDTDYGSGYPNDPKTKAWLKEHVE
PVFGFPQFVRFSWRTAQTILEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLERGLSATSL

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FIGURE 5279

CTGGAAGGAGTC**ATG**GCGGATGGTCAGGTGGCGGAAGTCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCATCGAGGCTGAAGTTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCCGTGTGTTTCGAAGCATTCCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTCTGGGTGGACAAGAGTGGCGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGAAGTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAAGTCTTGGGCCACGGTGTCTCTCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCAGTTCCGACAGATCTTCTGGAGATGGGGTTTACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAAGTCTTGACGCCCTCTTCCAGCCCCAGCAGCACCCAGCCCGT
GACCAGCACGACACCTTCTTCCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAA
AACCTACTGCGAACCACACACATCAGCCAGCGCCCGTGCGCTCTACCGCCTTGCCGAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAAACTCGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCGAGAACGTGTCGGTCATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCG**TGA**CATGGGCCACTCTAGGACAGGTTCATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCTCTTTCCACCTGTCCCAGGACCAGAATCCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 5280

MADGQVAELLLRRLEASDGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVD SMEDEVQRRQLVRRGGQAEK
LGEKERSELKRKLLAEVTLKTYWVSKGSASFSTSIKQETELSPEMISSGSWDRPFPKPNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPTDNFIESSFWNFDA LFQFQQHPARDQHDTFFLRDPAEALQLPMDYVQVRKTH
SQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLREFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVSVIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYD SPLCR LDAEPRPPPTQEAA

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FIGURE 5281

GTCCGTA CTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCGTTGCCGCCCCCTCGGCCCCGCC**ATGC**
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTGCGCGAGCCTGCCGTCTACTTCAAGGAGCAGT
TTCTGGACGGAGACGGGTGGACTTCCCCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC
TGTCGGCCAGTTTTCGAGCCTTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTTCACGGTGAAACATGAGCAGA
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG
AATACAACATCATGTTTGGTCCCCGACATCTGTGGCCCTGGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGAAGACGATTGGGACT
TCCTGCCACCCAAGAAGATAAAGGATCCTGATGCTTCAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG
ATCCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCCGAGCATATCCCTGACCCTGATGCTAAGAAGCCCCGAGG
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCCAGTGATTGAGAACCCTGAGTACAAGGGTGAGTGGAAAGC
CCCGGCAGATCGACAACCCAGATTACAAGGGCACTTGGATCCACCCAGAAATTGACAACCCCGAGTATTCTCCCG
ATCCCAGTATCTATGCCTATGATAACTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT
TTGACAACCTTCCTCATCACCAACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG
CAGCAGAGAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA
AAGAGGAGGAGGAGGCAGAGGACAAGGAGGATGATGAGGACAAAGATGAGGATGAGGAGGATGAGGAGGACAAGG
AGGAAGATGAGGAGGAAGATGTCCCCGGCCAGGCCAAGGACGAGCTG**TAGA**GAGGCCTGCCTCCAGGGCTGGACT
GAGGCCTGAGCGCTCCTGCCGCAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAACTTTTCATTTTT
TTCCAGGCTGGTTCGGATTTGGGGTGGATTTTGGTTTTTGTTCCTCCTCCACTCTCCCCCACCCCTCCCCGCC
CTTTTTTTTTTTTTTTTTTAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTC
TTGATCAACATCTTTTCTTGCTCTGTCCCCCTTCTCTCATCTCTTAGCTCCCCCTCCAACCTGGGGGGCAGTGGTG
TGGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCCTGGAGCCCAGAGGAGGGCAGCAGAAGGGGGTGGT
GTCTCCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTTCAACCCCTCCCTTTCTCCCTGCCCCAGG
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAATT
TCTATTAAATTAAATTTTGTGTCTC

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FIGURE 5282

MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFY
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTMHGDSEYNIMFGPDICGPGTKKVHVFNY
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPKKIKDPDASKPEDWDERAKI
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWHPIDNPEYS
PDPSIYAYDNFGVLGLDLWQVKSQTIFDNFLITNDEAYAEFFGNETWGVTKAAEKQMKDKQDEEQRLKEEEDKK
RKEEEEAEDKEDDEDKDEDEEDEDKEEDEDVPGQAKDEL

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FIGURE 5283

CCGGAAGTGGTCGGCGCGCGGGCGCGCCCTGGGCGCTAAGATGGCGGCGGCGTGAGTTGCATGTTGTGTGAG
GATCCCGGGGCGCGCGCTCGCTCGGGCCCCGCCCATGGCCGTCACCATCACGCTCAAAACGCTGCAGCAGCAGAC
CTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTTCGTGA
TGCTTCCCCGTGGCTGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTA
TCGCATCGATGAGAAGAACTTTGTGGTCGTCATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCC
AGAGGCCCTCACCCACAGCTGCCCCAGAGTCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCCATCC
CCCACCTGCCGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCCACGACGTCCCCAGAGTCTGTGTGTCAGG
CTCTGTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCCCTCCACGCTAGTGACGGGCTCTGAGTATGA
GACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTTCGTGGCCGCCCTGAGAGCCAGCTACAA
CAACCCCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCCTGGGAGCCCCGAGCCGGAACACGGTTCTGTCCA
GGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAACCCCTGGAGTTCCTGCGGGACCAGCC
CCAGTTCAGAACATGCGGCAGGTGATTACGCAGAACCCTGCGCTGCTGCCCCCCTGCTCCAGCAGCTGGGCCA
GGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACCAGGAGCAGTTCATCCAGATGCTGAACGAGCCCCCTGG
GGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGGAGAGGAGGCCCCGCAGATGAACTACAT
CCAGGTGACGCCGAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCTGGGCTTCCCAGAGAGCCTGGTCATCCA
GGCCTATTTGCGTGTGAAAAAATGAGAACTTGGCTGCCAACTTCCTCCTGAGTCAGAACTTTGATGACGAGTG
ATGCCAGGAAGCCAGGCCACCGAAGCCCCACCTACCTTATTCCATGAAAGTTTTATAAAAGAAAAAATATAT
ATATATTCATGTTTATTAAAGAAATGGAAAAAATCAAAAATCTTAAAAAACAAGCAAAACAGTCCAGCTTCC
TGTCTCCTAAAGTGGCCCCTGTTCCCATCTCCCGGGCCAGACAGCTGTCCCCCGTCTCTCTCCCCAGCCCAGC
CTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCTCTTGGCCTCTGTCCCAGCTCTCTGCAGCC
AGACGGAAAGGCGGCTGCTTGCTCTCCATCCTCCGAAAAACCCCTGAGGACCCCCCCCCATCCTCTTCTAGGAT
GAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGGCCCAAATCTTTCCATCTAGGGCAAGTCCTGAA
AGGCCCCAAGGCCCTCCCCAGTCTGGCCTTGGCCTCCAGCCTGGAGAAGGGCTAACATCAGCTCATTGTCAAGG
CCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTTGAAGTGAATAAAGTTTTAAAACT

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FIGURE 5284

MAVTITLKTLLQQQTFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNFVVVM
VTKTKAGQGTSAPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPEVSGSVSSGSSGRE
EDAASTLVGTGSEYETMLTEIMSMGYERERVVAALRASYNPNPHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATE
AAGENPLEFLRDQPQFQNMQRVIQQNPALLPALLQQLGQENPQLLQQISRHQEQFIQMLNEPPGELADISDVEGE
VGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLAANFLLSQNFDDE

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FIGURE 5285

ATGGCGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCTGGCCCCGGGTTCCCGTGGCTAC
CGGGCGCGGCCGCCCCCGCGCCGCAGGCCGGGACCCCGGTGGCCAGACCCCGAGGACCTCCTGACCCCGCGGTGG
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCCTCCGGGGTGGTCCCCGGTTCGTTA
TGGCCGTGCGCCGGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACGCGAATGGTACCCGAGCCTGGCGACCATGCAG
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG
GCCAAGATGCCACAGATGATTGTGAACTGGCAGCAGCAGCAGCGGGAGAACTGGGAGAAGGCCCGAGGCTGACAAG
GAGAGGAGGGCCCGACTGCAGGCTGAGGCCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTCCCCGCTTC
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTGA

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FIGURE 5286

CTAATTCGGGAAACGTGCACCTTGACTAATTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGGCGGGCGGAGGCGC
CAGCGGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCCGGGTGCTCTCTAGAGC
CCGGTTTTTCGAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACCGGGCCCTACGGAGA
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGGGCTGCCAAAATCGCCTTTCCCAGTGCCAAACGA
GGTCTTTTATAACCCGGTGCAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCA
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCAGA
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC
CCTAGAGGTGCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAA
TGTCCAGCTCAATGACGTGGCCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCACCA
GAGGGTGTGCGAGAGGTTTGACGTTCATCGATCTGGACCCCTATGGCAGCCAGCCACCTTCTGGATGCAGCTGT
GCAGGCTGTGAGTGAAGGAGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCTGCCACGAGATGGCCCTGAGAATCGTCCT
GCACAGCCTGGACCTCCGCGCCAACTGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA
CGTGCGTGTTTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGCAAGCAGGCGCTGGTGT
CCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGTCCTGGAGGCTGTGAGCGCTAACCCCGGCCG
CTTCCACACCTCGGAGCGGATCCGAGGGGTCTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTA
CACCTTGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCCTCCA
CGCTGACTTCCGGGTCTCACTCTCCACGCTGTGAAGAAGCGTGTGAAGACGGATGCCCCTGCTCTGCCCTCTG
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCCAGCGTTCCG
CATTCTCAGTGTGGAGCCAGGCTGCAGGCCAATTCACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCG
AGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAATGGGGTCCCCGGCCTCGTGCCCGGCCAGGGGGCAAGGC
GGCCGACGAAGCTATGGAGGAGAGACGCAGGCTGCTTCAAGACAAGCGGAAGGAGCCGCCGAAGATGTGGCCCA
GCGGGCTGCCCGGCTCAAGACATTTCTTGCAAGAGGTTTAAGGAGGGCACCTGTCAACGCGGGGACCAGTGCTG
CTACTCCACAGCCCCCGACACCCAGGGTTTCTGCTGATGCTGCCCTGACTGTCCAGAGACCTCCAACCAGAC
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTGAACCAATAAAGAGATGTCACGTCACCTTCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5287

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLEPNTAAMENGTGPYGEERPREVQETTVTEGAAKIAFPSANEVFYN
PVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVDLSEQEEKVELKESENLASGDQPRTAAVGEIC
EEGLHVLEGLAASGLRSIRFALEVPGLRVSVANDASTRAVDLIRRVQLNDVAHLVQPSQADARMLMYQHQRVSE
RFDVIDLDPYGSPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD
LRANCYQRFVVPLLSISADFYVRVFRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLGKASGVPSGRAKFSAA
CGPPVTPECEHCGQRHQLGGPMWAEP IHDLD FVGRVLEAVSANPGRFHTSERIRGVLSVITEELPDVPLYTLDQ
LSSTIHCNTPSLIQLRSALLHADFRVSLSHACKNAVKTDAPASALWDIMRCWEKECPVKRERLSETSPAFRILSV
EPRLQANFTIREDANPSSRQRLKRFQANPEANWGPRPRARPGGKADEAMEERRRLQNKREPPEDVAQRAAR
LKTFFCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTPTPGPGAAAGPGID

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FIGURE 5288

ATGTCTCTCGAAGACCCCTTTTTTGTAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCCGCGGGCTGTAC
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGCGGCGGTCTGGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGGTATAGTGGAAGCCAACCCA
GGCAAGTTCAAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAGGTGTTCTGTGGAGCGGATGCGAGAGGCAGTCCAG
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC
AAGCCAGCTGCCCAGAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA
GAGATGGACCACACCCAGTCCCGCATGGACGGGGTCTCAGGAAGTTGGCCAAAGTATCCACATGACGAGTGAC
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTCTTGA

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FIGURE 5289

MSLEDPPFFVVRGEVQKAVNTARGLYQRWCELLQESAAVGREELDWTTNELRNGLRSIEWDLEDLEETIGIVEANP
GKFKLPAGDLQERKVFVERMREAVQEMKDHMVSP TAVAFLEARNNREILAGKPAAQKSPDLLDASAVSATSRYIE
EQQATQQLIMDEQDQOLEMVSGSIQVLKHMSGRVGEELDEQGIMLDAFAQEMDHTQSRMDGVLRLKLAQVSHMTSD
RRQWCAIAVLVGVL LLLVLILLFSL

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FIGURE 5290

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGACCTGCTGCCTGTTCTGTCCCTCCCGGGAGCC
CCCGCCGCTGTGCGCGTCGAGTCGCCATGGGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCCGGTGTGGA
AGATGTATCACTCCCGCATGCAGCGCGGTGGCCTGCGGCTGCACCCGGAGTCTGCAGCTGTGCTGGTCATGCGCA
GCGCCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCGAGGTGTCGTTGCCGGCCGCCCTCCCT
CTGACCCTCGCCTGCACCCGCCCCGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCCGACGGTGAGCACCCGT
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCCTGCTGTGCCCGCGCCCCGCCA
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAAGCCC
GTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTCATCCGAAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCCTGCAGAGGCGCTTCTCCGGCCTCCTGAACTGCAGCCCCGCGG
CCCCCTCCGACGGCGCCCGCCGCGTGCAGAGCAAAGCCCGCTTGCCGCCCGGCGGACAGCATGCTCAACGTGCTCG
TGCGGGCCGTGGTGGCCTTCTTGAGGACCCCGAGCGGCGCTGCCGGAGCCCAGAGCGCGCTCGAACCGTCGGCCC
GAGGGCGCAGACCTGAGGCGAGGCCACCCCCCTCCATCCTGGGGGAAGCGCCCGCAAAACCGTGAGAGAAGCC
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGGACTCTGTCCCCGGGGAGCCATCGCCTTCAGTGTGCAGGGACGG
CACCGAGGAGTCTGAGCCGGGGGCGCGGGCGCCTTCCGCAGAGACCTGCGCCACAGGTGCTGTCTTAGTGACT
GGGACGTGAACCTTTTCGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTTGTTTTGTTTGT
TTGTTTGTTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTTCAAGTTT
TTCAAGAGTTGGTTTTGCGTTTCCAACCTCGGAGAATTCCAGGCACTCCCCTTCCCCCTCCGCTGACATACTTGT
ATAAGCGGTCATCGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCCTGTCGCCTTGCGTGGGTGTGGGGCCTGGGA
GGAGGTCTTGGGGCGTGACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTACCCCCGCGTGCTG
CTGGTTAATGTCCCGCGTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTACATTCTCAAGTTTTTC
TCATCTGCATTAGAGGTGCCCAGTAGGTTCCCAGGTTCCAGCGTGCCCCTCCCTCAGACACACGGACACAATCAG
CCGAGAAGTTCCTGGTCTGAATCACGAGAATGTGGAGGGGTGGGGGGTGTGAGTGGAAAGGCATAAGGCTGAGCT
GAGACCAGTTGCTGGTGAAACTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTTCTGAGGGTCTGCT
TTGTTTACCTTTTCGTGCGGTGGATTCTTTTTTAACCTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAAA
ATAAAAACCATTTGAGT

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FIGURE 5291

MEVQKEAQRIMTILSVWKMYHSRMQRGGLRLHRSLSLVMSARELYLSAKVEALEPEVSLPAALPSDPRLHPPR
EAESTAETATPDGEHPFPEPMDTQEAPTAETSACCAPRPAKVSRKRRSSSLSDGGDAGLVPSKKARLEEKEEEE
GASSEVADRLQPPPAQAEGAFPNLARVLQRRFSGLLNCSPAAPPTAPPFACEAKFACRPADSMNLNVLVRAVVA

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FIGURE 5292

CAAGTGC GCGCGGACCCCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCATGACCCTGGAGGCGATC
CGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCCAAGCAGAGCCGCTACGAGGCGGTGGGC
TCGGTGCACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGGCGCCCCGCCATAGCCCTGGTGGGCTGT
CTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGAC
AAGCTGAGCTTCCTCGTCACCGCCCCGGCCACCGCTGTCAACATGGCCCCGCGCCGCCGCGACCTGGCTGATGTT
GCAGCCCGGAGGCCGAACGGGAGGGCGCTACGGAAGAGGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGAC
ATGCTGGAGAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCC
CCCAGCGGTGGCAAGGTGACTGTGCTGACCCACTGTAACTGGTGCTCTGGCCACCGCTGGCTATGGTACAGCC
CTAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATAACCAGGCAGAGGGAAGTCCACTGCGAGGGCCCC
TGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCCCAGACTAGGAGCCTGCACCCCTAACCAATGGACC
ACCCTGTCTGTTTGCCCCCTCCCCGGGGCCTTCTCCTGGTGGGTGGGGCCCCCGCAGGTGTGATTGCTCACTGCA
CAGCCTGGGCCCGCTGGAGCATGCCTTCTGCACAGAGACCCGGCCCTACAACCAGGGAGCCCGGCTGACGGCCTT
TGAGCTGGTCTATGAGCAGATCCC

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FIGURE 5293

MTLEAIRYSRGS LQILDQ LLLPKQSR YEAVG SVHQAW EAIRAMKV RGAPAI ALVGCL SLAVELQ AGAGGP GLAAL
VAFVRDKLS FLVTAR PTAVN MARAARD LADVA AREAERE GATEE AVRE RERVIC CTEDM LEKD LRDNR SIGDL GARH
LLERVAPSGG KVTVLTH CNTGAL ATAGYGT ALGVIR SLHSLGR LEHAFCTET RPYNQ GARLTAF ELVYE QIPATL
ITDSMVAAAMA HRGVS AVVVGAD RVVANG DTANKV GTYQLA IVAKHHG IPFYVA APSSSC DLRLETG KEIIIEER
PGQELTDVNG VRIAAPGIG VWNPAFDVTP HDLITGGI ITELGVFAPEELRTALT TTTISSRD GTLDGPQM

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FIGURE 5294

GAATTAAAAAAAAAAAAAGCCTTATTTATTATCATTTTCCCCACCGTTGGCATGGCAACACAGGCGTATACTGA
GCTACAGGCAGCCCCGCCACCATCCCAGCCGCCACAGGCCCCGCCACAAGCCCAGCCCCAGCCGCCACCGCCACC
ACCCCCAGCGGCACCCCAGCCCCCGCAGCCACCCACCGCTGCTGCCACCCCTCAGCCCCAATATGTCACCGAGCT
GCAGAGCCCCCAGCCCCAGGCACAGCCACCGGTGGCCAGAAGCAGTACGTGACGGAGCTCCCGGCTGTACCCGC
ACCCCTCGCAGCCAACCGGTGCACCCACCCCTTCGCCTGCACCCCAGCAGTACATCGTGGTCACTGTCTCTGAAGG
TGCCATGCGGGCCAGCGAGACAGTGTGCGAGGCCAGCCCCGGCTCCACCGCCAGCCAGACCGGCGTTCCCTACTCA
GGTGGTTTCAGCAGGTGCAGGGCACCCAGCAGCGGCTGCTGGTCCAGACGAGCGTGCAGGCCAAGCCAGGCCACGT
GTCGCCCCCTCCAGCTGACCAACATCCAAGTGCCCCAGCAGGCTCTTCCCACGCAGCGTCTGGTGGTGCAGAGCGC
AGCCCCAGGCAGCAAAGGTGGCCAGGTCTCCCTGACGGTCCATGGTACCCAGCAGGTGCACTCGCCCCCAGAGCA
GTCGCGGGTGCAGGCCAACAGCTCTTCCAGCAAGACAGCCGGGGCCCCCACGGGCACAGTGCCACAGCAGCTGCA
GGTCCACGGCGTCCAGCAGAGTGTCCCCGTACCCAAAGAGAGATCTGTGGTCCAGGCCACTCCACAAGCGCCCAA
ACCCGGCCCCGGTGCAGCCGCTGACCGTGCAGGGCCTCCAGCCAGTCCACGTGGCTCAAGAGGTGCAGCAGCTCCA
GCAGGTGCCCCGTCCACACGTGTACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCAGCTACACGGCCAG
TGCCATCCGTTCCAGCACCTACTCCTATCCCAGACGCCGCTGTACACGCAGACGGCAAGCACCAGCTACTACGA
GGCCGCAGGCACGGCCACCCAGGTGAGCACCCCCGCCACCTCCCAGGCGGTGGCCAGCAGTGCGTCCATGCCCAT
GTACGTGTCCGGCAGCCAGGTGCTCGCCAGCTCCACCAGCACTGGGGCTGGGGCCAGCAACAGCAGCGGAGGTGG
TGGCAGTGGTGGTGGCGGCGGCGGGGAGGCGGTGGCGGGGGTGGCAGTGGCAGCACCAGGAGGCGGCGGCAG
CGGAGCAGGCACCTACGTGATCCAAGGCGGTACATGCTGGGCAGTGCCAGCCAGTCTTACTCTCACACCACCCG
TGCCCTCGCCAGCCACGGTCCAGTGGCTCCTGGACAACATGAGACGGCTGAGGGCGTGAGTCTGCCACGGAGCAC
CCTCTACTGCCACTACTTACTGCACTGCCAGGAGCAGAAGCTGGAGCCCGTCAACGCCGCTCCTTCGGCAAGCT
CATCCGCTCCGTCTTCATGGGCTGCGAACCCGCCGCTCTGGGCACCAGGGGCAACTCCAAGTACCACTACTATGG
CCTGCGCATCAAGGCCAGCTACCCCTGCTGCGGCTGATGGAGGACCAGCAGCACATGGCCATGCGGGGCCAGCC
CTTCTCGCAGAAGCAGAGGCTCAAGCCCATCCAGAAGATGGAAGGCATGACCAACGGCGTGGCGGTGGGGCAGCA
GCCGAGCACGGGGCTGTGCGACATCAGCGCCAGGTGCAGCAGTACCAGCAATTTTGGATGCCTCTCGGAGCCT
CCCTGACTTCACAGAGCTCGACCTCCAGGGCAAGGTGCTGCCTGAGGGCGTGGGGCCCCGGGACATCAAAGCCTT
CCAGGTCTGTACCGGGAACACTGTGAGGCCATTGTGACGTCATGGTGAACCTGCAGTTACCCCTGGTGGAGAC
GCTGTGGAAGACCTTCTGGAGGTACAACCTCAGCCAGCCAGTGAGGCGCCACCGCTGGCTGTACATGACGAGGC
CGAGAAGCGACTGCCCCAAGCCATCCTGGTGTCTCTCCAAGTTCGAGCCCGTGCTCCAATGGACCAAGCACTG
TGACAACGTGCTGTACAGGGCCTGGTGGAAATCCTCATTTCCCGACGTGCTGCGGCCATCCCCAGTGCCCTTGAC
CCAAGCGATCCGGAACCTTGGCAAGAGCCTGGAGAGCTGGCTCACCCACGCCATGGTCAACATCCCCGAGGAGAT
GCTGCGGGTGAAGGTGGCCGCGGCTGGCGCCTTCGCGCAGACACTGCGGCGCTACACGTGCTCAACCACCTGGC
GCAGGCGGCGCGCGCTGTGCTGCAGAACACCGCACAGATCAACCAGATGCTGAGCGACCTCAACCGCGTGGACTT
CGCCAACGTGCAGGAGCAGGCCTCGTGGGTGTGCCGCTGCGAGGACCGCGTGGTGCAGCGGCTGGAGCAGGACTT
CAAGGTGACGCTGCAGCAGCAGAACTCGCTGGAGCAGTGGGCGGCGCTGGCTGGACGGCGTGGTGGAGCCAGGTGCT
CAAGCCCTACAGGGGCAGCGCCGGCTTCCCCAAGGCCGCCAAGCTCTTCTCCTCAAGTGGTCTTCTACAGCTC
CATGGTGATCCGGGACCTGACCCTGCGCAGCGCCGCCAGCTTCGGTTCTTCCACCTCATCCGGCTGCTCTACGA
CGAGTACATGTACTACCTGATCGAGCACCGCGTAGCCAGGCCAAGGGCGAGACCCCCATCGCCGTGATGGGCGA
GTTCCGCAATCTGGCCACCTCCCTGAACCCCTGGACCCCGACAAAGACGAGGAGGAAGAAGAGGAGGAGGAGAG
CGAGGACGAGCTGCCGCGAGGACATCTCACTGGCGGCTGGCGGCGAGTCACCCGCGCTGGGCCCCGAGACCCCTGGA
GCCGCCGCGCAAGCTGGCGCGGACTGACGCGCGCGGCTCTTCGTGCAGGCGCTGCCCTCCAGCTAAGCCCTTGG
CCTCCCCGCCCCACCCGCCCCGCCACCCCTCCACGCCAGGTCCC

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FIGURE 5295

CGCGTCCGCCGATTCCCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAAACTTCCTAGC
ACATGAGAAGATCTGGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCC
TGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCAGCCGGAGACCACAGCGAGCTCGTTGTCCGGATCGCCAGTC
TGGAAGTGGAGAACCAGAGCCTGCGTGGCGTGGTACAGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCAGC
TGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGGCCACGGCCCCGCAGACCCAGCACGTGTCTCCTATGCGCC
AAGTGGAGTCCCCGGCCAAGAAGCCAGCCTCACCAGCAGAGGATGACGAGGATGATGACATCGACCTGTTTGGCA
GCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGGCAGTACGCGGAGAAGGCCA
AGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGGGACGATGAGACGGACATGGCCC
AGCTGGAGGCCTGTGTGCGCTCTATC

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FIGURE 5296

MATNFLAHEKIWFDFKYDDAERRFYQQMNRPVAGASRQSSGPGASSGPSGDHSELVVRIASLEVENQSLRGVVQ
ELQQAISKLEAQLNVLEKSSPGHRATAPQTQHVSPMRQVESPAKKPASPAEDDEDDIDLFGSDNEEEDKEAAQL
REERLRQYAEKAKKPALVAKSSILLDVKPWDDETDMAQLEACVRSIELDGLVWGTSKLMPVGYGIRKLQIQCVVE
DDKVGTYLLEEEITKFEEHVQSVDI AAFNKI

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FIGURE 5297

CCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCT
GGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCCTGTGGCAGGTGCCT
CCCGCCAGGAGAACGGCGCCAGCGTGATCCTCCATGACATTGCAAGAAGCCAGCCTCACCAGCAGAGGATGACGA
GGATGATGACATCGACCTGTTTGGCAGCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCG
GCTACGGCAGTACGCGGAGAAGGCCAAGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCC
TTGGGACGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCGAGCTGGACGGGCTGGTCTGGGG
GACCTCCAAGCTGATGCCCCTGGGCTACGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGT
GGGGACTTACTTGCTGGAGGAGGAGATCACTAAATTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAA
CAAGATCTGAAGCCTGAGTGTGTGTATGTGTGCGCGTGCGTAAGGCCCTGCCACGATTAAAGACTGAGACCGGC

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FIGURE 5298

CAGTGXGCTCCGGGGCCGCGGGCCGAGCCAGCACCCGCGCGCCGAGCTCCGGGACCGGGCCCCGGCCGCGCGCG
CCGCGATGGGCAACGCCGCCGCCGCCAAGAAGGGCAGCGAGCAGGAGAGCGTGAAAGAATTCTTAGCCAAAGCCA
AAGAAGATTTTCTTAAAAAATGGGAAAGTCCCGCTCAGAACACAGCCCACTTGGATCAGTTTGAACGAATCAAGA
CCCTCGGCACGGGCTCCTTCGGGCGGGTGATGCTGGTGAAACACAAGGAGACCGGGAACCACTATGCCATGAAGA
TCCTCGACAAACAGAAGGTGGTGAAACTGAAACAGATCGAACACACCCTGAATGAAAAGCGCATCCTGCAAGCTG
TCAACTTTCCGTTCTCTCGTCAAACCTCGAGTTCTCCTTCAAGGACAACCTCAAACCTTATACATGGTCATGGAGTACG
TGCCCGCGGGGAGATGTTCTCACACCTACGGCGGATCGGAAGGTTCAGTGAGCCCCATGCCCGTTTCTACGCGG
CCCAGATCGTCTGACCTTTGAGTATCTGCACTCGCTGGATCTCATCTACAGGGACCTGAAGCCGGAGAATCTGC
TCATTGACCAGCAGGGCTACATTCAGGTGACAGACTTCGGTTTTCGCCAAGCGCGTGAAGGGCCGCACTTGGACCT
TGTGCGGCACCCCTGAGTACCTGGCCCCCTGAGATTATCCTGAGCAAAGGCTACAACAAGGCCGTGGACTGGTGGG
CCCTGGGGGTTCTTATCTATGAAATGGCCGCTGGCTACCCGCCCTTCTTCGCAGACCAGCCCATCCAGATCTATG
AGAAGATCGTCTCTGGGAAGGTGCGCTTCCCTTCCCACTTCAGCTCTGACTTGAAGGACCTGCTGCGGAACCTCC
TGCAGGTAGATCTCACCAAGCGCTTTGGGAACCTCAAGAATGGGGTCAACGATATCAAGAACCACAAGTGGTTTG
CCACAACCTGACTGGATTGCCATCTACCAGAGGAAGGTGGAAGCTCCCTTCATAACAAAGTTTAAAGGCCCTGGGG
ATACGAGTAACCTTTGACGACTATGAGGAAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTTT
CTGAGTTTTTAGGGGCATGCCTGTGCCCCCATGGGTTTTCTTTTTTCTTTTTTCTTTTTTTGGTCGGGGGGGTGG
GAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTTCCTTGATCTAATTTACCCCCACCCACCCCTCCAGGGT
TAGGGGGAGCAGGAAGCCCAGATAATCAGAGGGACAGAAACACCAGCTGCTCCCCCTCATCCCTTCACCCCTCCT
GCCCCCTCTCCCACTTTTCCCTTCTCTTTCCCCACAGCCCCCAGCCCCCTCAGCCCTCCCAGCCCACCTTCTGCC
TGTTTTAAACGAGTTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGTATCCAGGGACAGGGTATGGAAAGAGG
GGCTCACGCTTAACTCCAGCCCCCACCACACCCCCATCCACCCAACCACAGGCCCCACTTGCTAAGGGCAAAT
GAACGAAGCGCCAACCTTCCTTTTCGGAGTAATCCTGCCTGGGAAGGAGAGATTTTTAGTGACATGTTCAGTGGGT
TGCTTGCTAGAATTTTTTTTAAAAAACAACAATTTAAAATCTTATTTAAGTTCCACCAGTGCCCTCCCTCCCTCCT
TCCTCTACTCCACCCCTCCCATGTCCCCCATTCCTCAAATCCATTTTAAAGAGAAGCAGACTGACTTTGAAA
GGGAGGCGCTGGGGTTTGAACCTCCCCGCTGCTAATCTCCCTGGGCCCCCTCCCCGGGGAATCCTCTCTGCCAAT
CCTGCGAGGGTCTAGGCCCCCTTAGGAAGCCTCCGCTCTCTTTTTTCCCCAACAGACCTGTCTTCACCCCTGGGCT
TTGAAAGCCAGACAAAGCAGCTGCCCCCTCTCCCTGCCAAAGAGGAGTCATCCCCCAAAAGACAGAGGGGGAGCC
CCAAGCCCAAGTCTTTCTCCAGCAGCGTTTCCCCCAACTCCTTAATTTTATTCTCCGCTAGATTTTAACGTC
CAGCCTTCCCTCAGCTGAGTGGGGAGGGCATCCCTGCAAAAGGGAACAGAAGAGGCCAAGTCCCCCAAGCCACG
GCCCCGGGTTCAAGGCTAGAGCTGCTGGGGAGGGGCTGCCTGTTTTACTCACCCACCAGCTTCCGCCTCCCCCAT
CCTGGGCGCCCCCTCTCCAGCTTAGCTGTCAGCTGTCCATCACCTCTCCCCCACTTTCTCATTTGTGCTTTTTTC
TCTCGTAATAGAAAAGTGGGGAGCCGCTGGGGAGCCACCCATTTCATCCCCGATTTCCCCCTCTCATAACTTCT
CCCCATCCCAGGAGGAGTTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGGCGATTCAACCTGTGTGCTG
CGAAGGACGAGACTTCCTCTTGAACAGTGTGCTGTTGTAAACATATTTGAAAACATATTACCAATAAAGTTTGT

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FIGURE 5299

MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLDDQFERIKTLGTGSFGRVMLVKHKETGNHYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMEYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFEYLSLDLIYRDLKPENLLIDQQGYIQVTDGFGAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEEEIRVSINEKCGKEFSEF

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FIGURE 5300

AGATTTGAAGGCGGCGCGCGGACTAGGTGCGCACTTCAGTTCTCGGAGAGAAGAGGCGGGAGTGGACCTGGTCAG
CCCTACCCCACTGACCCCAACGGACCCAGGCGCGGCCTCCGCCACAGCCACAGCCCCTGCCCCCTGCTGCGGCGCG
GCGAGGCGAGGCGGATGGCCAAGGTGTCGGTGCTGAACGTGGCGGTCCTGGAGAACCCGAGCCCTTTCCACAGCCC
CTTCCGGTTCGAGATCAGCTTCGAGTGCAGTGAAGCCCTGGCGGACGACCTGGAGTGAAGATCATTTATGTTGG
CTCGGCTGAGAGTGAGGAATTTGATCAGATCCTAGACTCGGTGCTGGTGGGCCCTGTGCCAGCAGGGAGACACAT
GTTTGTCTTTCAGGCCGACGCCCCCAACCCATCCCTCATCCCAGAGACTGATGCCGTGGGTGTGACTGTGGTCCT
CATCACCTGCACCTACCATGGACAGGAGTTCATCCGAGTGGGCTACTACGTCAACAACGAGTACCTCAACCCTGA
GCTGCGTGAGAACCCGCCCATGAAGCCAGATTTCTCCAGCTCCAGCGGAACATCTTGGCCTCGAACCCCCGGGT
GACCCGCTTCCATATCAACTGGGACAACAACATGGACAGGCTGGAGGCCATAGAGACCCAGGACCCCTCCCTGGG
CTGCGGCCTCCCACTCAACTGCACTCCTATCAAGGGCTTGGGGCTCCCTGGCTGCATCCCTGGCCTCCTCCCTGA
GAACTCCATGGACTGCATCTAACTGCAGGAACCCAGAGTGTCCCAGCACGCCGGGAGGGGCAACCAGGCCTCCCA
GCGAGTCTTGCAGGGCCCATCTAGAGGACTTTGGGGGCCATCAGCTGCAATCCAGGTCTGTCAAACCTCAGCCCCT
AGGAAAGAACAGGCCTTGGGTCTCCCCTAGTCTTGCCAGAAGGATGATCTCGCTTTTCTCTACAGGCCTATAA
GAAGCAGGTACTTCAGTTCTAAATTCTGACTTGTGTTCTTTTCGTCTTCATAAATTCTAACTAAGGCCACTGTGC
CACTGTGCACCCTTGAGTACCATTGATCCAAAGCTTTCCCACAGACCTCCCTGGCCCACCTAGAGGCTTTCTTGG
TCAGTGCCGTGTCAAGGCTCCAGTCTGCTGAGCCAAAGGCTTTGTCAATTCCTTTCTCTTCTGTACATCTGAGCA
GACCCACTCCAGCTTTCTGGTGTACAGGCGGGAATGTTAGTTAGTAGGTAGACTTAGATCCCATTCTGTCTCTG
CTCCCAGGAAGATTCTTAGGTCTCTTCAATCCAGCAGCCCCCTCCCAGAGGTGTGATCAGCAGGATGCTGAGGAA
CCATGTTGCCTTTCTGTCAATCACAGCCACCTTCCTGTTATCTCCTAAATGGATCTGGCTTTTCTGAGGCTG
CCATGGTTGGAAGATGGTATCAGAGGGCCTGCCTGGGCAGTCTGTCTCCGGGCCAGGGTCAGGGACCCTCTGCCT
CTGGCAGCCTTAACCTGTCCTCTGCTAGGACCAGGGTGATTTCAAGCCAGGGAAGCAACTGGGACCCTGAAAACCT
GTCCCTCCCCAGCCCGCTCCCCCTCTCTGTGCCCTGGTCCCTTGCCGCCATGTGGATGCTGTTGTGATTGCTGT
TTGTATATTATCAAAATGTTTTTATATTAAAAATGTTTGGTCTGAAAATT

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FIGURE 5301

MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDSVLVGPVPAGRHMVFVQ
ADAPNPSLIPETDAVGVTIVVLITCTYHGQEFIRVGYYVNNEYLNPENPPMKPDFSQLQRNILASNPRVTRFH
INWDNNMDRLEAIETQDPSLGCGPLNCTPIKGLGLPGCIPGLLPENSMDCI

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FIGURE 5302

GGAAGCGCAGCAACTCGTGTCTGAGCGCCCGGCGGAAAACCGAAGTTGGAAGTGTCTCTTAGCAGCGCGCGGAGA
AGAACGGGGAGCCAGCATCATGGCAGAACAGGATGTGGAAAACGATCTTTTGGATTACGATGAAGAGGAAGAGCC
CCAGGCTCCTCAAGAGAGCACACCAGCTCCCCCTAAGAAAGACATCAAGGGATCCTACGTTTCCATCCACAGCTC
TGGCTTCCGGGACTTTTCTGCTGAAGCCGGAGCTCCTGCGGGCCATCGTGGACTGTGGCTTTGAGCATCCTTCTGA
GGTCCAGCATGAGTGCATTCCCCAGGCCATCCTGGGCATGGACGTCTGTGCCAGGCCAAGTCCGGGATGGGCAA
GACAGCGGTCTTCGTGCTGGCCACCCTACAGCAGATTGAGCCTGTCAACGGACAGGTGACGGTCCTGGTCATGTG
CCACACGAGGGAGCTGGCCTTCCAGATCAGCAAGGAATATGAGCGCTTTTCCAAGTACATGCCCAGCGTCAAGGT
GTCTGTGTTCTTCGGTGGTCTCTCCATCAAGAAGGATGAAGAAGTGTGAAGAAGAAGTGTCCCCATGTCGTGGT
GGGGACCCCGGGCCGCATCCTGGCGCTCGTGCGGAATAGGAGCTTCAGCCTAAAGAATGTGAAGCACTTTGTGCT
GGACGAGTGTGACAAGATGCTGGAGCAGCTGGACATGCGGCGGGATGTGCAGGAGATCTTCCGCCTGACACCACA
CGAGAAGCAGTGCATGATGTTTCAGCGCCACCCTGAGCAAGGACATCCGGCCTGTGTGCAGGAAGTTCATGCAGGA
TCCCATGGAGGTGTTTGTGGACGACGAGACCAAGCTCACGCTGCACGGCCTGCAGCAGTACTACGTCAAACCTCAA
AGACAGTGAGAAGAACC GCAAGCTCTTTGATCTCTTGGATGTGCTGGAGTTTAACCAGGTGATAATCTTCGTCAA
GTCAGTGCAGCGCTGCATGGCCCTGGCCCAGCTCCTCGTGGAGCAGAACTTCCCGGCCATCGCCATCCACCGGGG
CATGGCCCAGGAGGAGCGCCTGTCACGCTATCAGCAGTTCAAGGATTTCCAGCGGCGGATCCTGGTGGCCACCAA
TCTGTTTGGCCGGGGGATGGACATCGAGCGAGTCAACATCGTCTTTAACTACGACATGCCTGAGGACTCGGACAC
CTACCTGCACCGGGTGGCCCGGGCGGGTCGCTTTGGCACCAAAGGCCTAGCCATCACTTTTGTGTCTGACGAGAA
TGATGCCAAAATCCTCAATGACGTCCAGGACCGGTTTGAAGTTAATGTGGCAGAACTTCCAGAGGAAATCGACAT
CTCCACATACATCGAGCAGAGCCGTAACCACCACGTGCCAGAGCCGCCACCCGGAGCCGCCCGCATGCAGCTT
CACCTCCCCTTTCCAGGCGCCACTGTTGAGAAGCTAGAGATTGTATGAGAATAAACTTGTTATTATG

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FIGURE 5303

ACGCGCGCTCCTCTGGCCGCCCTCCCTCCGCGCGGGGACCCCTGGCGGGCGGCAGGAGGACATGGCCAGCGACG
CCGTGCAGAGTGAGCCTCGCAGCTGGTCCCTGCTAGAGCAGCTGGGCCTGGCCGGGGCAGACCTGGCGGCCCCCG
GGGTACAGCAGCAGCTGGAGCTGGAGCGGGAGCGGCTGCGGCGGGAAATCCGCAAGGAGCTGAAGCTGAAGGAGG
GTGCTGAGAACCTGCGGCGGGCCACCACTGACCTGGGCGCAGCCTGGGCCCCGTAGAGCTGCTGCTGCGGGGCT
CCTCGCGCCGCTCGACCTGCTGCACCAGCAGCTGCAGGAGCTGCACGCCACGTGGTGCTTCCCGACCCGGCGG
CCACCCACGATGGCCCCAGTCCCTGGTGCGGGTGGCCCCACCTGCTCGGCCACCAACCTGAGCCGCGTGCGCGG
GCCTGGAGAAGCAGTTGGCCATTGAGCTGAAGGTGAAGCAGGGGGCGGAGAACATGATCCAGACCTACAGCAATG
GCAGCACCAAGGACCGGAAGCTGCTGCTGACAGCCCAGCAGATGTTGCAGGACAGTAAGACCAAGATTGACATCA
TCCGCATGCAACTCCGCCGGGCGCTGCAGGCCGGCCAGCTGGAGAACCAGGCAGCCCCGGATGACACCCAAGGGA
GTCTTGACCTGGGGGCTGTGGAGCTGCGCATCGAAGAGCTGCGGCACCACTTCCGAGTGAGACACGGTGCGCG
AGGGTGCCAAGAACGTACTGCGCCTGCTCAGCGCTGCCAAGGCCCGGACCGCAAGGCAGTCAGCGAGGCCCAGG
AGAAATTAACAGAATCCAACCAGAAGCTGGGGCTGCTGCGGGAGGCTCTGGAGCGGAGACTTGGGGAGCTGCCCG
CCGACCACCCCAAGGGGCGGCTGCTGCGAGAAGAGCTCGCTGCGGCCTCCTCCGCTGCCTTCAGCACCCGCTTG
CCGGGCCCTTTCCCGCCACGCACTACAGCACCCCTGTGCAAGCCCGCGCCGCTCACAGGGACCCCTGGAGGTACGAG
TGGTGGGCTGCAGAGACCTCCAGAGACCATCCCGTGGAACCCCTACCCCTCAATGGGGGGACCTGGGACCCAG
ACAGCCGCCCCCCTTCTGAGCCGCCCAGCCCCGGGGCCTTTACAGCCGAAGCGGAAGCCTCAGTGGCCGGAGCA
GCCTCAAAGCAGAAGCCGAGAACACCAGTGAAGTCAGCACTGTGCTTAAGCTGGATAACACAGTGGTGGGGCAGA
CGTCTTGGAAGCCATGTGGCCCCAATGCCTGGGACCAGAGCTTCACTCTGGAGCTGGAAAAGGCACGGGAAGTGG
AGTTGGCTGTGTTCTGGCGGGACCAGCGGGGCTGTGTGCCCTCAAATTCCTGAAGTTGGAGGATTTCTTGACA
ATGAGAGGCATGAGGTGCAGCTGGACATGGAACCCAGGGCTGCCTGGTGGCTGAGGTACCTTCCGCAACCCTG
TCATTGAGAGGATTCCTCGGCTCCGACGGCAGAAGAAAATTTCTCCAAGCAGCAAGGGAAGGCGTTCCAGCGTG
CTAGGCAGATGAACATCGATGTGCGCACGTGGGTGCGGCTGCTCCGGAGGCTCATCCCCAATGCCACGGGCACAG
GCACCTTTAGCCCTGGGGCTTCTCCAGGATCCGAGGCCCGGACCACGGGTGACATATCGGTGGAGAAGCTGAACC
TCGGCACTGACTCGGACAGCTCACCTCAGAAGAGCTCGCGGGATCCTCCTTCCAGCCCATCGAGCCTGAGCTCCC
CCATCCAGGAATCCACTGCTCCCGAGCTGCCTTCGGAGACCCAGGAGACCCAGGCCCGCCCTGTGCAGCCCTC
TGAGGAAGTCACCTCTGACCCTCGAAGATTTCAAGTTCTTGGCGGTGCTGGGCCGGGGTCATTTTGGGAAGGTGC
TCCTCTCCGAATTCGGGCCCAGTGGGGAGCTGTTTCGCCATCAAGGCTCTGAAGAAAGGGGACATTGTGGCCCGAG
ACGAGGTGGAGAGCCTGATGTGTGAGAAGCGGATATTGGCGGCAGTGACCAAGTGCGGGACACCCCTTCCTGGTGA
ACCTCTTCGGCTGTTTCCAGACACCGGAGCACGTGTGCTTCGTGATGGAGTACTCGGCCGGTGGGGACCTGATGC
TGCACATCCACAGCGACGTGTTCTCTGAGCCCCGTGCCATCTTTTATTCCGCCTGCGTGCTGGGCCTACAGT
TTCTTCACGAACACAAGATCGTCTACAGGGACCTGAAGTTGGACAATTTGCTCCTGGACACCGAGGGCTACGTCA
AGATCGCAGACTTTGGCCTCTGCAAGGAGGGGATGGGCTATGGGGACCGGACCAGCACATTCTGTGGGACCCCGG
AGTTCTTGGCCCTGAGGTGCTGACGGACACGTGCTACACGCGAGCTGTGGACTGGTGGGGACTGGGTGTGCTGC
TCTACGAGATGCTGGTTGGCGAGTCCCCATTCCCAGGGGATGATGAGGAGGAGGTCTTCGACAGCATCGTCAACG
ACGAGGTTGCTACCCCCGCTTCCTGTGCGCCGAAGCCATCGGCATCATGAGAAGGCTGCTTCGGAGGAACCCAG
AGCGGAGGCTGGGATCTAGCGAGAGAGATGCAGAAGATGTGAAGAAACAGCCCTTCTTCAGGACTCTGGGCTGGG
AAGCCCTGTTGGCCCCGGCGCTGCCACCGCCCTTTGTGCCACGCTGTCCGGCCGCACCGACGTGAGCAACTTCG
ACGAGGAGTTACCGGGGAGGCCCCCACACTGAGCCCGCCCCGCGACGCGCGGCCCTCACAGCCGCGGAGCAGG
CAGCCTTCCTGGACTTCGACTTCGTGGCCGGGGGCTGCTAGCCCCCTCCCCTGCCCCCTGCCCCCTGCCCCG
AGAGCTCTTAGTTTTTTAAAAAGGCCCTTTGGGATTTGCCGG

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FIGURE 5304

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATTDLGRSLGPVEL
LLRGSSRRRLDLLHQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRVAGLEKQLAIELKVKQGAENMIQ
TYSNGSTKDRKLLLTAAQQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSDDLGADELRIEELRHHRVE
HAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAF
STRLAGPFFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTPDSRPPFLSRPARGLYSRSGSL
SGRSSLKAEAEENTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTELERARELELAVFWRDQRLCALKFLKLE
DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQQGKAFQRRARQMNIDVATWVRLRLRLIPN
ATGTGTFSPGASPGSEARTTGDISVEKLNLTGSDSSPQKSSRDPPSSPSSLSSPIQESTAPELPSETQETPGPA
LCSPLRKSPLTLEDFKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGH
PFLVNLFGCFQTPEHVCFVMEYSAGGDLMLHIHSDVFSEPRAIIFYSACVVLGLQLHEHKIVYRDLKLDNLLD
EGYVKIADFGLCKEGMGYGDRSTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPPFGDDEEEVFD
SIVNDEVRYPRFLSAEAIGIMRRLLRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPPFVPTLSGRTD
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

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FIGURE 5305

CACGGGGAGGCGGAGGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGATCTTCTGGTGACCCAC
TTCTCGCTGCTCATGCCGCTGGGACTGGGGCGGCGGAAAAAGGCGCCCCCTCTAGTGGAATGAGGAGGCTGAG
CCAGGCCGTGGAGGGCTGGGCGTGGGGGAGCCAGGGCCTCTGGGCGGAGGTGGGTTCGGGGGGCCCCAAATGGGC
TTGCCCCCCCCCTCCCCAGCCCTGCGGCCCCGCCTCGTGTTCCACACCCAGCTGGCCCATGGCAGTCCCACTGGC
CGCATCGAGGGCTTCACCAACGTCAAGGAGCTGTATGGCAAGATCGCCGAGGCCTTCGGCCTGCCAACTGCCGAG
GTGATGTTCTGCACCCTGAACACCCACAAAGTGGACATGGACAAGCTCCTGGGGGGCCAGATCGGGCTGGAGGAC
TTCATCTTCGCCACGTGAAGGGGAGCGCAAGGAGGTGGAGGTGTTCAAGTCGGAGGATGCACTCGGGCTCACC
ATCACGGACAACGGGGCTGGCTACGCCTTCATCAAGCGCATCAAGGAGGGCAGCGTGATCGACCACATCCACCTC
ATCAGCGTGGGCGACATGATCGAGGCCATTAACGGGCAGAGCCTGCTGGGCTGCCGGCACTACGAGGTGGCCCGG
CTGCTCAAGGAGCTGCCCCGAGGCCGTACCTTCACGCTGAAGCTCACGGAGCCTCGCAAGGCCTTCGACATGATC
AGCCAGCGTTCAGCGGGTGGCCGCCCTGGCTCTGGCCACAACCTGGGCACTGGCCGAGGGACCTGCGGCTCCGA
TCCCCGGGGCCCCGCCACGGTGGAGGATCTGCCCTCTGCCTTTGAAGAGAAGGCCATTGAGAAGGTGGATGACCTG
CTGGAGAGTTACATGGGTATCAGGGACACGGAGCTGGCGGCCACCATGGTGGAGCTGGGAAAGGACAAAAGGAAC
CCGGATGAGCTGGCCGAGGCCCTGGACGAACGGCTGGGTGACTTTGCCTTCCCTGACGAGTTCGTCTTTGACGTC
TGGGGCGCCATTGGGGACGCCAAGGTTCGGCCGCTACTAGGACTGCCCCCGGACCCTGCGATGATGACCCGGGCGC
AACCTGGTGGGGGGCCCCAGCAGGGACACTGACGTCAGGACCCGAGCCTCCAGCCTGAGCCTAGCTCAGCAGCCC
AAGGACGATGGTGAGGGGAGGTGGGGCCAGGCCCCCTGCCCGCTCCAATCGGTACCATCCCCCTCCCTGGTTCCC
AGTCTGGCCGGGTCCCCGGCCCCCTGTGCCCTGTTCCCCACCTACCTCAGCTGGGTGAGGCACAGGGAGGGGA
GGGATCAGCCAAATTGGGCGGCCACCCCCGCTCCACCACITTTCCACCATCAGCTGCCAACTGGTCCCTCTGTC
TCCCTGGGGCCTTGGGTTCTGTTTGGGGGTGATGACCTTCCTAGTTTCTGACGCAGGGAATACAGGGGAGAGGG
TTGTCCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTCCTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTA
CCTCCGCAATTTGACACGAGTCTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCAT
CCCTGGCCCAGAGCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAACATA
AAGAATCTATCTGCTGTT

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FIGURE 5306

MPLGLGRRKKAPPLVENEEAEPGRGGLGVGEPGPLGGGSGGPGMGLPPPPPALRPRLVFHTQLAHGSPTGRIEG
FTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLEDFIFAHVKGQRKEVEVFKSEDALGLTITDN
GAGYAFIKRIKEGSVIDHIHLISVGDMIEAINGQSLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRS
AGGRP GSGPQLGTGRGTLRLRSRGPATVEDLPSAFEKAIEKVDDLLESYMGIRDTELAATMVELGKDKRNPDEL
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

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FIGURE 5307

GTTTAGTCTATCGCTGCGGTTGCGAGCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGC
GGAGCAGTAGCCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAA
GCTGTGTTTCTTGGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAACCTCTTCACTAAGACCCATCC
GCAGTGGTACCCCGCCCCGCCAGTCCCTCCGCCTGGACCCCAAGGGCAAGTCCCTGAAGGATGAGGATGTTCTGCA
GAAGCTGCCCCGTGGGCACCACGGCCACACTGTACTTCCGGGACCTGGGGGCCAGATCAGCTGGGTGACGGTCTT
CCTAACAGAGTACGCGGGGCCCTTTTTCATCTACCTGCTCTTCTACTTCCGAGTGCCCTTCATCTATGGCCACAA
ATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTCACTCATTCCACTACATCAAGCG
CCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGCACTATGCCTTTGCGCAACATCTTCAAGAACTGCAC
CTACTACTGGGGCTTCGCCGCGTGGATGGCCTATTACATCAATCACCTCTCTACACTCCCCCTACCTACGGAGC
TCAGCAGGTGAAACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCG
GGACCTGCGGCCCGCTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCCTTCACGTGGCTCTTCCT
GCTGGTGTCTTGCCCCAACTACACCTACGAGGTGGGGTCCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCC
AGTGGCCCTGTTCTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAA
GGAGTTCCGGGACTACCCGCCCTGCGCATGCCATCATCCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGC
TCAGCCCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGCCCACAGCTCTCCAGCACCCGGAATAAAGCCCGC
CTGCCCCAGTC

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FIGURE 5308

GGCACGAGGCGGGGCGCCGCTGAGCCAAGTGGGCCACCCGGGCACGGCCACGCTCCCGGGTCACGTGACACGGAG
GGGGCCGAATTCTGCTGGAGGCAGCGCCATATCCTGGAGGTGAAGGTACCACCTC**ATGG**AGACCCCCGCGGCCGC
CGCCCCCGCTGGGAGCTTATTCCCCTCCTTCCTGCTCCTGGCCTGCGGGACGCTGGTGGCCGCTTTGCTGGGCGC
CGCTCACCGCCTGGGGCTCTTCTATCAGCTGCTGCACAAGGTGGACAAGGCAAGCGTCCGGCATGGCGGAGAGAA
CGTGGCCGCTGTGCTGAGGGCCCATGGTGTGCGGTTTCATCTTCACGCTGGTTCGGTGGGCACATTTCCCCGCTGCT
GGTGGCCTGTGAGAACTGGGCATCCGTGTGGTGGACACACGCCATGAGGTACAGGCCGCTCTTTGCTGCTGATGC
TATGGCCCGCCTGTCCGGGACGGTGGGCGTGGCGGCAGTGACAGCAGGCCCTGGCCTCACCAACACGGTGACTGC
GGTGAAGAATGCTCAGATGGCTCAGTCCCCAATCCTGCTTCTGGGTGGGGCTGCCAGCACTCTGCTGCAGAACCG
GGGTGCGCTCCAGGCTGTTGATCAGCTGTCCCTTTCCGGCCACTCTGTAAGTTTTGTGTGCTGTGCGGAGGGT
GCGGGACATTGTGCCACCCCTGAGGGCCGCGATGGCTGCCGCCAGTCGGGCACCCAGGTCCGGTGTGTTGTGA
GCTGCCCCGTTGACGTGCTGTACCCCTACTTCATGGTCCAGAAGGAGATGGTGCCAGCCAAGCCACCCAAGGGCCT
CGTGGGCCGAGTGGTCTCCTGGTATTTAGAGAATTACCTGGCCAACCTCTTTGCAGGAGCCTGGGAGCCTCAGCC
CGAGGGACCGCTGCCCCCTGGACATCCCCAGGCTTCCCCGCAGCAGGTTTCAGCGCTGTGTGGAGATCCTGAGCCG
GGCCAAGAGGCCCTCTGATGGTGTGTTGGGAGTCAGGCCCTGCTCACCCCAACGTCTGCCGACAAGCTTCGGGCTGC
CGTGGAGACCTTGGGTGTTCCCTGCTTCCCTTGGAGGGATGGCACGGGGGCTGTTAGGCCGCAACCACCCCTCCA
CATCCGGGAGAACCAGTGCAGGCCCTGAAGAAGGCGGACGTCATTGTCTAGCAGGAAGTGTGTGTGACTTCCG
CCTATCCTATGGCCGTGTCCTCAGCCACAGCAGCAAGATCATCATCGTCAATCGTAATCGGGAAGAGATGTTGCT
CAACTCAGACATCTTCTGGAAGCCCCAGGAGGCTGTGCAGGGAGATGTGGGTTCCCTTCGTGCTGAAGTTAGTGGA
GGGCCTTCAGGGCCAGACCTGGGCCCCAGACTGGGTGGAGGAGCTGCGGGAAGCCGACCGGCAGAAGGAGCAGAC
CTTTCGGGAGAAGGCAGCGATGCCTGTGGCCAGCACCTGAACCCAGTGCAGGTGCTGCAGCTGGTGGAGGAAAC
GCTACCTGACAACCTCAATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCCATCTGGTACAGCCCCG
CGGCCCCCTGCGCTGGCTCGATCCTGGGGCCTTTGGGACTCTGGGAGTTGGTGCAGGATTTGCACTTGGGGCCAA
GCTGTGCCGCGCCAGATGCTGAGGTCTGGTGCCTGTTTGGGGACGGAGCTTTTGGCTACAGCCTCATCGAATTTGA
TACATTCTGTCAGACACAAGATCCAGTGATGGCCTTGGTAGGGAATGATGCTGGCTGGACACAGATTTCTCGGGA
GCAGGTGCCCTCTCTGGGCAGCAACGTGGCCTGTGGCCTGGCCTACACTGATTATCACAAGGCAGCCATGGGTCT
GGGGGCCCCGGGCTTGCTGCTCTCACGGGAGAACGAGGATCAGGTGGTCAAGGTGCTGCACGATGCCAGCAGCA
GTGCCGAGACGGCCACCCGGTTGTGGTCAACATCCTCATTGGGAGGACGGACTTCCGCGATGGCTCCATTGCTGT
ATAGGGCCTTGTTGGGTGAGGACGCTTGGCTGCCTTCCTCCCCCTGGACTGTGTCCAGCTGGTTTGGAGTCTCATC
ATTGCTTGCCCTGGGCCTATCCCATGAGGCCAGTGACTCCACAACCTCCCTGAGGAGGGGATGGAGGGGTCAAA
TCTCAGAGAGGCTCTTGTGAGCTCTTGGACCTCCTCTTCACGGACCCAACGTGTCCGTTTGTCCCCTCTCTT
ATGGAGACTGAATAAACACCTCTGGCCCATGTAGGCCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5309

METPAAAAPAGSLFPSFLLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVA AVLRAHGVRFI FTLVG
GHISPLL VACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAVTAGPGLTNTVTAVKNAQMAQSPILLIGGAA
STLLQNRGALQAVDQLSLFRPLCKFCVSVRRVRDIVPTLRAAMAAAQSGTPGPVFVELPVDVLYPYFMVQKEMVP
AKPPKGLVGRVVSWYLENYLANLFAGAWEPQPEGPLPLDIPQASPPQVQRCVEILSRAKRPLMVLGSQALLTPTS
ADKLRAAVETLGVP CFLGGMARGLLGRNHPLHIRENRS AALKKADVIVLAGTVCDFRLSYGRVLSHSSKIIIVNR
NREEMLLNSDIFWKPQEAVQGDVGSFVLKLVEGLQGQ TWAPDWVEELREADRQKEQTFREKAAMPVAQHLPVQV
LQLVEETLPD NSILVVDGGDFVGTA AHLVQPRGPLRWLDPGAFGTLGVGAGFALGAKLCRPDAEVWC LFGDGA FG
YSLIEFDTFVRHKIPVMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV
LHDAQQQCRDGHFPVVVNILIGRTDFRDGSI AV

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FIGURE 5310A

GCGGCGCGGAGGCTGGCCCCGGGACGCGCCCGGAGCCCCAGGGAAGGAGGGAGGAGGGGAGGGTTCGCGGCCGGCCGC
CATGGGGCCGGGGGGCCCGTGGCCGCCGCCGCCGCCGTCGCCCGATGTGCGCCGCCACCGCCACCGCCACCCGTCGC
GGCGCTGCCCCCTGCTGCTGCTGCTAGCGGGGCGGGGGCTGCAGCCCCCCTTGCCCTGGACGGAAGCCCGTGTGC
AAATGGAGGTGCTTGACCCAGCTGCCCTCCCGGGAGGCTGCCTGCCTGTGCCCGCCTGGCTGGGTGGGTGAGCG
GTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCCCTGTGCTGGCCGTGGTGTCTGCCAGAGTTCAGTGGTGGCTGG
CACCGCCCGATTCTCATGCCGGTGCCCCCGTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCTCAG
CAGCCCTTGTGCCCACGGTGCCCGCTGCTCAGTGGGGCCCGATGGACGCTTCCTCTGCTCCTGCCCACCTGGCTA
CCAGGGCCGCAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGCCT
CAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGCGGTGCC
CTGTGCACCCCTACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCCTGTCT
TCCTGGGTTTGAGGGTCAAGATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGGAC
ATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCGTGCACGGAGGACGT
GGATGAGTGTGAGCTGCAGCCCAACGCCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGCTG
CGTGTGTGTCAATGGCTGGACAGGCGAGAGCTGCAGTCAGAATATCGATGACTGTGCCACAGCCGTGTGCTTCCA
TGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCCTGCCCCATGGGCAAGACTGGCCTCCTGTGTCA
CCTGGATGACGCTGTGTGTCAGCAACCCCTGCCACGAGGATGCTATCTGTGACACAAATCCGGTGAACGGCCGGGC
CATTTGCACCTGTCTCCCGGCTTACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCCAA
CCCTGCGAGCACTTGGGCAGGTGCGTGAACACGCAGGGCTCCTTCCTGTGCCAGTGCCTGCTGGCTACACTGG
ACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGGCCCTGCCGAAACCAGGCCACGTGCCTCGACCGCAT
AGGCCAGTTCACCTGTATCTGTATGGCAGGCTTCACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAGAG
TAGCCCTGTGTCAACGGTGGGGTCTGCAAGGACCGAGTCAATGGCTTCAGCTGCACCTGCCCCCTCGGGCTTCAG
CGGCTCCACGTGTGAGCTGGACGTGGACGAATGCGCCAGCACGCCCTGCAGGAATGGCGCCAAATGCGTGGACCA
GCCCCGATGGCTACGAGTGCCGCTGTGCCGAGGGCTTTGAGGGCACGCTGTGTGATCGCAACGTGGACGACTGCTC
CCCTGACCCATGCCACCATGGTCGCTGCGTGGATGGCATGCCAGCTTCTCATGTGCTGTGCTCCTGGCTACAC
GGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGACCCAGCCCTGCCGCCATGGCGGCCAAATGCCTAGACCT
GGTGGACAAGTACCTCTGCCGCTGCCCTTCTGGGACCACAGGTGTGAAGTGCAGAGTGAACATTGACGACTGTGC
CAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTCAC
AGGGCCCCCTTTGTAACGTGGAGATCAATGAGTGTGCTTCCAGCCCATGCGGCGAGGGAGGTTCCTGTGTGGATGG
GGAAAATGGCTTCCGCTGCCTCTGCCCCGCTGGCTCCTTGGCCCCACTCTGCCTCCCCCGAGCCATCCCTGTGC
CCATGAGCCCTGCAGTCACGGCATCTGCTATGATGCACCTGGCGGGTTCGCTGTGTGTGTGAGCCTGGCTGGAG
TGGCCCCCGCTGCAGCCAGAGCCTGGCCCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCGGTGGGACATGCAG
CAGCGATGGAATGGGTTTCCACTGCACCTGCCCCGCTGGTGTCCAGGGACGTGAGTGTGAAGTTCCTCTCCCCCTG
CACCCCGAACCCCTGTGAGCATGGGGGCCGCTGCGAGTCTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCCCA
GGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGCACCCCTGTGGCCCTCATGGTAT
CTGCACCAACCTGGCAGGGAGTTTCACTGCACCTGCCATGGAGGGTACACTGGCCCTTCCTGCGATCAGGACAT
CAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTTCTGCTCCTG
CCTCCCTGGTTTCGCCGGCCCCACGATGCGCCCGCATGTGGATGAGTGCCTGAGCAACCCCTGCGGCCCGGGCAC
CTGTACCGACCACGTGGCCTCCTTACCTGCACCTGCCCCGCCAGGCTACGGAGGCTTCCACTGCGAACAGGACCT
GCCCCACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAAGTTCAGTGCCTGTG
CCGTCCCGGCTACACAGGAGCCCCACTGCCAACATGAGGCAGACCCCTGCCTCTCGCGGGCCCTGCCTACACGGGGG
CGTCTGCAGCGCCGCCACCCCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACGGGGCCCGCAGTGCCAGACGCT
GGTGGATTGGTGCAGCCGCCAGCCTTGTCAAACGGGGTTCGCTGCGTCCAGACTGGGGCCTATTGCCTTTGTCC
CCCTGGATGGAGCGGACGCTCTGTGACATCCGAAGCTTGCCTGCAGGGAGGCCGAGCCAGATCGGGGTGCG
GCTGGAGCAGCTGTGTGAGCGGGTGGGCAGTGTGTGGATGAAGACAGCTCCCACTACTGCGTGTGCCAGAGGG
CCGTACTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCAGCCCTGCCAGCATGGGGGGACCTGCCG
TGGCTATAATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGACGA
GTGTGCTTCCAGCCCTGCCAGCACGGGGGTTCATGCATTGACCTCGTGGCCCGCTATCTGTCTCCTGTCCCCC
AGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCCCG

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FIGURE 5310B

GTGCCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCAGGATACACTGGTTT
GCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAGGA
CCCAGGCGGAGGTTTCCGTTGCCTTTGTTCATGCTGGCTTCTCAGGTCCTCGCTGTCAGACTGTCCTGTCTCCCTG
CGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCCTAGCCCGGGTCCTGGGGGTGGGCTGACCTTCACCTG
TCACTGTGCCACGCCGTTTCTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCCTGCCGGGAGCTGCAGTGCCCGGT
GGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCCTGCCCCCAGGGTTGTCTCCACGGGGGCTCCTG
CAGCTTCCCGGGGTGCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCCTG
CCGCCCCGCGCCGCTCGCGCCCTTCTTCCGCTGCGCTTGC GCGCAGGGCTGGACCGGGCCGCGCTGCGAGGCGCC
CGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACCAGCG
CTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGGCGGCGACTGCTCGCTGAGCGTGGGCGACCCCTG
GCGGCAATGCGAGGCGCTGCAGTGTGGCGCCTCTTCAACAACAGCCGCTGCACCCCGCCTGCAGCTCGCCCGC
CTGCCTCTACGACAACCTCGACTGCCACGCCGTTGGCCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTACTG
CGCCGACCACTTTGCCGACGCGCGCTGCGACCAAGGGCTGCAACACGGAGGAGTGC GGTGGGATGGGCTGGATTG
TGCCAGCGAGGTGCCGGCCCTGCTGGCCCCGCGCGTGTGCTGCTCACAGTGTGCTGCTGCCGCCAGAGGAGCTACT
GCGTTCCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCCTGCGCACCTCGCTGCGCTTCCGCTGGACGCGCA
CGGCCAGGCCATGGTCTTCCCTTACCACCGGCCCTAGTCTGGCTCCGAACCCCGGGCCCGTGGGAGCTGGCCCC
CGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTCTGCCTGCAGTGCCTGAGAATGATCACTG
CTTCCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGTCAGCGGTGGAGCGCCTGGACTTCCCGTACCC
ACTGCGGGACGTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCAGCGTCCCGCTGCTGCCACTGCTAGTGGCGGG
CGCTGTCTTGCTGCTGGTCATTCTCGTCTGGGTGTGTCATGGTGGCCCGGCGCAAGCGCGAGCACAGCACCCCTCTG
GTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTCAACAAGGGCCGGCGGGAACCCGTGGGCCAGGA
CGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACAGA
GTGCCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTCAGTG
GACTCAACACCATCTGGTTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACCACAGGGCGACGC
AGATGCTGATGGCATGGATGTCAATGTGCGTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCTTCTGTGG
GGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTGAT
CTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTTGCACCTGGCTGCCCCGTTATGC
CCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCAGGACCACTCAGGCCGCACTCC
CCTGCACACAGCTGTACAGCCGATGCCAGGGTGTCTTCCAGATTCTCATCCGAAACCGCTCTACAGACTTGGA
TGCCCGCATGGCAGATGGCTCAACGGCACTGATCCTGGCGGCCCGCCTGGCAGTAGAGGGCATGGTGGAGAGCT
CATCGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTGAA
CAACGTGGAGGCCACTTTGGCCCTGCTCAAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACCCC
CCTATTCTGGCGCCCGCGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTTGGACCACTTTGCCAACCGTGAGAT
CACCGACCACCTGGACAGGCTGCCGCGGGACGTAGCCCAGGAGAGACTGCACCAGGACATCGTGCGCTTGTGGA
TCAACCCAGTGGGCCCCGACGCCCCCCCCGGTCCCCACGGCCTGGGGCCTCTGCTCTGTCTCTCCAGGGGGCCTTCT
CCCTGGCCTCAAAGCGGCACAGTCGGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGGCTGGGGCCGCA
GGGGCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCCGGGCCCCCTGGCTGACAGCTCGGTCACGCTGTC
GCCCCGTGGACTCGCTGGACTCCCCGCGGCCTTTTCGGTGGGCCCCCTGCTTCCCCTGGTGGCTTCCCCCTTGAGGG
GCCCTATGCAGCTGCCACTGCCACTGCAGTGTCTCTGGCACAGCTTGGTGGCCAGGCCGGGCGGGTCTAGGGCG
CCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCTGCTGAACCCCTGTGGCTGTGCCCTCGATTGGGCCCCGGCT
GCCCCACCTGCCCTCCAGGCCCTCGTTCCCTGCTGCCACTGGCGCCGGGACCCCAGCTGCTCAACCCAGGGAC
CCCCGTCTCCCCGAGGAGCGGCCCCCGCCTTACCTGGCAGTCCAGGACATGGCGAGGAGTACCCGCGCGCTGG
GGCACACAGCAGCCCCCAAAGGCCCGCTTCTGCGGGTTCAGTGGAGCACCCTTACCTGACCCCATCCCCGA
ATCCCCTGAGCACTGGGCCAGCCCCCTACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCCAGCCAC
TGCCACTGGGGCCATGGCCACCACCACTGGGGCACTGCCTGCCAGCCACTTCCCTTGTCTGTTCCAGCTCCCT
TGCTCAGGCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCCAAGAGGCAAGTGTGGCCTGAGACGCTCG
TCAGTTCTTAGATCTTGGGGGCTAAAGAGACCCCCGTCCTGCCTCCTTTCTTTCTGTCTCTTCTCTCTTTT
AGTCTTTTTTCATCCTCTTCTCTTTCCACCAACCCTCCTGCATCCTTGCCTTGCAGCGTGACCGAGATAGGTCATC

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FIGURE 5310C

AGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCCTCTCAGTCTTGTGAAGAGTC
TGGGACCTCCTTCTTCCCCACTTCTCTCTTCCCTCATTCCCTTCTCTCTCCTTCTGGCCTCTCATTTCCCTTACAC
TCTGACATGAATGAATTATTATTATTTTATTTTCTTTTTTTTTTTTACATTTTGTATAGAAACAAATTCATTTA
AACAAACTTATTATTATTATTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGTGC
CCCCGTGGGGCTGAGTCTGTGGGCCCATTTCGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGGGA
TCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCTTGGGCGCACCCACTGGGGCCAGGGGTC
GGGGGAGTGTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATGGGACATGTTCCATAG
CCTTGCTGGGGAAGGGCCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCTTGGCCATCTCCCTTTGGGAACTAG
GGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTTGTGTCCCTGTAAATGTGGGACTACAA
GAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCCCTGGTAATCCCTCTGGCCCAGCCTCATGGCAGAATAGAGGTAT
TTTTAGGCTATTTTGTAAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTACA
GCCCCCACTCCCTCACCACCTAATAAAGGAATAGTTAACACTC

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FIGURE 5311

CTTTTCACAAGATGGTGCCGAAAGTGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCCGAAGCCAAAGCGAAGGCTT
TAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGATCCACACGTCACCCACCTTCCGGC
GGCCGAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAGCTTGACC
ACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGT
TCATTGTGGATGTTAAAGCCAACAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACATTGATGTGGCCA
AGGTCAACACCCCTGATTCGGCCTGATGGAGAGAAGAAGGTATATGTTTCGACTGACTCCTGATTACGATGCTTTGG
ATGTTGCCAACTATATCTTTTCACCATATACATGCCTCTCTGTCAATTTCTGGTTGGGCTGGGAGGCCACACACA
GACACTGACATGACAGGGCTTGGGCAAGACTCCTGTTCTACTTATCCTTTTGAAATATTCACCCTGCCA

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FIGURE 5312

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGC GCCTCTGCGCTCCGCGCC**ATGG**CCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGGCGGAGAAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACCTTAAGTATAT**TAAG**CAAAACAGAAGAGTCTTGTTCCAACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTCTCTTGTAAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTCAGCTCTCTTATTTTTTTCCTTAAGTAGCATTATTCCT
AAGGTAGGCAGGGTATTTTCCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCCAGTATCTAGTCGTGGATATAATTAACCGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAACCTATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTGCGCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTGAGGAGTTGAGAGACCAGCCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTCAGGTCAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCAACTTCATTTCCATACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 5313

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAEKAADESESGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERAEVS
ELKCGDLEEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDL EEKLA
QAKEENVGLHQTL DQTLNELNCI

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FIGURE 5314

GCTCGGTGCTGATGGACGGTGCTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCGTCGGGGAGAGAGTGTAA
TATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGGAAGACCTGTGTCCT
GTTCCGCTTCTCCGAGGACGCCTTCAACTCCACTTTTATCTCCACCATAGGAATTGACTTTAAAAATTAGGACCAT
AGAGCTCGATGGCAAGAGAATTAACTGCAGATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAAC
GGCCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCAACGAGAAGTCCTTCGACAACATCCG
GAACTGGATTTCGAACATTGAGGAGCACGCCTCTGCAGACGTCGAAAAGATGATACTCGGGAACAAGTGTGATGT
GAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAGCTGGCCCTCGACTATGGAATCAAGTTCATGGAGAC
CAGCGCGAAGGCCAACATCAATGTGGAATAATGCATTTTCACTCTCGCCAGAGATATCAAAGCAAAAATGGACAA
AAAATTGGAAGGCAACAGCCCCCAGGGGAGCAACCAGGGAGTCAAAATCACACCGGACCAGCAGAAGAGGAGCAG
CTTTTTCCGATGTGTTCTTCTG**TG**AGGAACACCGCCTTACTCTGAGCCTCGCTCAGCCCAGCTGACTGTGCCTGT
TCTGAGTGAGCCCCCTCACTCAGCCGGGGCCCTCCCACCTCCAACGCCCGCCACGCCGCGGCCACCGGGCCCAC
GGCCACCAGAATGCAATTGAGAAATCGTTTATTTTAGTAACTGTCTGATCTTTTTCACTTTGGAGATGGAATAA
GTTAAAAATTTGCTATTTTTCTGTAAACATCTGCTGAACGGGGCCACCCACACGTTGTATATTAGAGAGAGAGA
GGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCCTCTGCCTCTGGGCCTTTGCTTTGTGGCCTCACT
GCAACACAAAAGCTCCACCAGGAGGCTGGTTACGTCCTTACCACGGAAGCGAGGTCCAGAAAGGCCAGCGGTGG
TTCCAGGAGCAACAGCTCCCAAACCCTGAGCAAGGCAACCGATCGCCAGGACCAGGAAGCATCACCCAGGAGATT
TGGCGCCCACTTCCACCTCTTCTCTCAGTTTTGGACAAGTGACAAACCATTTTGCCCCCTCACTCTTCTTTTTTA
ACTGTATAAACCAAAGGAAAGCACAAATGAAGGAAATCCTGTGTAAAGCATTGAGAAGGAAAGAAAGCCTGGAGCAG
CCTCTCCTGTCCACAGCCAGGGGTTAGGTCTGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGT
GTGTGCTGCAAGTGACCCCGAAAACAACCACAGCCGTCACATGGTCCTCCTGAAGTTGGGGCACCCCTCCTCTCAG
CACCAAAATGGCCCCCACTCCTTCGTGTCTTCCGCTATCTCCAAATCGGACGTTCTTTCTAGCTGAGATTTTTTA
TTTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACCTTCCAATGGCAAACCTGGGTGATCGGGAACAA
GCACGTTGTACCCTTGGCTGGACATGGCCAAGACACAAGGCATTCCACGGCGGCAAGCTGACCGCACAGCAGTCT
GGCTTGATTTTCAGCCGTCATCATTGGGTCTGTTTTGACAGCTCTGCTGTCCCATAGGGACTGCGACTGGGACC
AGGTCAACCACGCCAGGGGGGTGTACACAGCCTTTCTTTTTTCTTTCTTTTTTTTTTTTTTCTCCTTAAGCTG
CTGTCAATCCAAACCATTTGGCATCATCGTTTCTTTTCAATTAAACCAACATATCAGCAATAGTCTGCTCTCCCC
GGGAATCTCTAACATGCTCTGTTTACATCGATAAATGCACTTAAGGAAAACAAACAAATTAAAGCTCATCTTAA
GTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5315

MAKTYDYLFKLLLLIGDSGVGKTCVLF RFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFRTITT
AYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMET
SAKANINVENAFFTLARDIKAKMDKKLEGNSPQGSNQGVKITPDQQRSSFFRCVLL

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FIGURE 5316

GGTGAGCTGTGCGGGCGGCGCCCGGCCTTGCTCAACGCCCAGCAGTCCCCACCGTCGCTGCCGCCGCCACCGCC
CTCGGCCGCTGCCGAGGCCTCCTGCAGCCATCATGTCCGCCAGCGCCGTCTACGTGCTGGACCTGAAGGGCAAGG
TGCTCATCTGCCGGAACCTACCGTGGCGACGTGGACATGTTCAGAGGTGGAGCACTTCATGCCCATCCTGATGGAGA
AGGAGGAGGAGGGGATGCTGTGCGCCATCCTGGCCACGGGGGGGTCCGTTTCATGTGGATCAAACACAACAACC
TGTATCTGGTTGCCACATCCAAGAAGAACGCGTGCCTGTGCTGGTCTTTTCTTTCCTCTATAAGGTGGTGCAGG
TGTTTTCCGAGTACTTCAAGGAGCTGGAGGAGGAGAGCATCCGGGACAACCTTTGTTATCATCTACGAGCTGCTGG
ACGAGCTCATGGACTTCGGCTACCCCCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGGAAGGCC
ACAAGCTGGAAACAGGGGCCCGCGGCCACCAGCCACCGTCACCAACGCGGTGTCCTGGCGGTCCGAAGGCATCA
AGTATCGGAAGAATGAGGTGTTCTTGACGTCATCGAGTCTGTCAACCTCTTGGTCAGCGCCAACGGCAATGTCC
TGCGCAGCGAGATCGTGGGCTCCATCAAGATGCGAGTCTTCTCTCGGGCATGCCCGAGCTGCGCCTGGGCTCA
ACGACAAGGTCTCTTTGACAACACGGGCCGCGGCAAAAGCAAATCCGTGGAGCTGGAGGATGTGAAGTTCCACC
AGTGTGTGCGGCTATCAGCTTCGAGAATGACCGCACCATCTCCTTCATCCCACCGACGGCGAGTTTCGAGCTCA
TGTCTACCGTCTCAACACCCACGTCAAGCCTTTGATATGGATCGAGTCGGTGATCGAGAAGCACTCCACAGCC
GCATCGAGTACATGATCAAGGCCAAAAGCCAGTTCAAGCGGCGGTCAACAGCCAACAACGTGGAGATCCACATTC
CCGTGCCCAATGATGCCGACTCACCCAAGTTCAAGACGACGGTGGGGAGCGTTAAGTGGGTCCCCGAGAACAGCG
AGATCGTGTGGTCCATCAAGTCTTCCCGGGCGGCAAGGAGTACCTGATGCGGGCCCACTTCGGCCTGCCTAGTG
TGGAGGCCGAAGACAAGGAGGGCAAGCCCCGATCAGTGTCAAGTTCGAGATCCCTTACTTCACTACCTCCGGCA
TCCAGGTGCGCTACCTGAAGATCATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTGCGTTATATCACGCAGA
ATGGAGATTACCAGCTCCGGACCCAGTGAGGGGCTGTGCGCAGCCAACACCCCGGCCCTCGGGCTCCTGGTGGCAGC
ACCAGGGACACACCTGCCAAACCCACCAGATGGAGGGGCCCTCCTGGTCTCTGGCCACCCTTCCAGCCTCTGCCC
AGGGACTCCTGCCTTACCAGGGCATCTGCTCTGCCGTGACACTCGTCTCAGAAGCCCCCTTTCCAGAAAGAGGC
TGGTCTTCAAGAAGTCTCGTTTCTTTGCCCTGAAGTCAGTTTCAGGGGAAGGATGTGAAATTTTTCCGTGTAGA
GGTTACAGCCTTTTATGCTGTTGAGCTCCAGGTACCAAAAAGCTTGGCCAACGCTTGCCAGCCAGCCAGCTGCA
GGTGGCATCTGCCACGAAGGAAGCGCCACGCTCGCCAGGCCAGCAGGGGCGTCGTTTTGTGTCATTTTGTGAA
CGTTATGGGTTTATGGGTGTTCTGGAACCTTGCTTTGTGTCATTCGTTGCTGTTTGTGTTACCTCACTGTCCCC
ATGTCCCACCCACGTCTTACGGCACTCAGGAAGCACTTGGTGAGGACGAGCCCTCACCTTCTTGTCTTCCTTCC
CGGCAGCGCCGAGCGGGCCATTTACACGTGAGGCTGGCACCTGGCGCGCTCGGGGGCCACTGTAGCGTCTGCC
TGCTCCCTGGACTCGCAGGCCTCGCCTGTGGCGCCTTCCAGGGCCAGCCTGGGTACAGAGATGCTGTCACTCAG
CCAGATCAGTATTGACCCACCAGGGGAGGTGGGGTTTGGTGAGAGACGCCAGCCTCAGACTTTTTCCCACTGAGG
GTCCAGAGAGCGGGGCCACGTGTCACCACGTCTGCGCTTGGTCACCGTCCTCCCCACCCTGTGTGTGTTTATG
TCATAGTTACATTAAATTCCATTTCATTG

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FIGURE 5317

CCTTCAGGCCTGAATGTGGCGGCTGCCTCTGCGAATGGACGGCGTGGGAAGAGA**ATGG**CCTTCTGCAAGGAAAAGCC
AGCCGTCCCATGCGTGATGTTTTTGGTGACTTCAGTGATGTTTCCTTGGAAGATTCAACAATGGAAGAAAATCAGA
AACTTCCAGATCAGTAGAAATCTTACCAAAATAGCACCTGGTCATAGCAGATTTCTAAAAAGAAACCAAACTCTA
GATGAGAAACACTTACTCCTGAAAGAGAACCCTGTGCTCGGGAGTGGACCCAGGCTTGCCATGTAGACCGCCC
ACCACTGCCTCCAGGATCCGAGCCAATGCCGCACTCATGAAGCTGGCCAGCTGGAAACCCGGATCATGAATCGG
AAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCCGATGCTGGTCTTCCAAAGAGAGCTGAC
AGAATCCTCTCTGGGGGTGCACTCGAACTCGCGTCCCAGAACACAGACAAAACCTTCCAGAATCAAGCCCGTGAA
CTTCCTGTCAACGAAAATAATGCACAGAACGCGAAGGTCACTAGGTTTCTAAAGAAGAAACAAGCACCTGTTGAA
AACATATCCCCTGAAGCACCTGCTGGGAAAGAGAGGACTTTGCAAACCCCCAAACAGAAAGAACCTGCTAGAACA
TTTGATTCTCCAGACAGTGACGAAGAAGAAATGAAAGTATTGCTAGGAAGCTTGATGGACTCTTCTAGAGAAAAA
AACACGAATCAAGGCTTCAGCAGCGCTAACGTGACGAGGAAGAAGAAAGAAAACCTATTTTCGGTCCCATCTCAA
CTGAGAGCATTTACTGTACCCAGCGTGGAACCTCTCCAGCGCAAAGCCTTCTCAGACATCACACCTGCCAACCTCC
CTGGCAGCAGACAGAACCCTTCACAGCACTCGCTCAAGAGCAGACTACCCACAGAGTCACGTTTCCAGTGACACC
GCCTCCACACGCGCTCAGTTTCCATCACAGGCGCCTTTTCAAACCTCAGTGTCTTTAAAGATGGGGCATGTCAAG
CTTGCTCTCTCCCCGGAAGGAGTGAGGCTGAGACTGTGGACGAGCCAGTCTCAGAAGGTGCTGATGACAGCCTC
GACGAGTTTAGAATAAATATTTTATCGCTTGACGGTCTGGCTCCAGCTGTGAGTGAAGTCCGATTTGGAACAG
GAAGAGGAAAGTGCTCAGAGACAAAAAACAGCTGGCAAAATCTTCAGAGCCGAGGCGTCCACTGGGCAGGATGCC
CCGAGGCAGGCCAGGCGAGGAGCTGGGCATCACAGGGAAAGGCCGCTCTGCAGAGGGGGATGAGAGCGAGGTG
TCGGAGCATCTCAGTGCCAGCTCGGCTTCTGCCATCCAGCAGGACAGCACTTCCAGCATGCAGCCACCATCTGAA
GCCCCCATGGTGAACACAGTCAGCTCAGCTTATTTCGGAGGATTTTGAAAACCTCTCCAAGTCTGACAGCATCTGAG
CCAACCGCCCATTTCCAAGGAGTCTCTTGACAGAACACTGGACGCTTTGTCTGAATCCTCTTCAAGTGTGAAGACA
GACCTTCCACAAACAGCCGAGTCTAGGAAAAAGTCGGGCAGGCACGTGACAAGAGTGCTTGTGAAGGACACAGCT
GTGCAGACGCCAGATCCTGCCTTACCTACGAGTGGACCAAGGTGGCCAGCATGGCAGCCATGGGGCTGCCCTG
GGAGGCGCTTACGTGGACCCGACACCCATCGCCAATCATGTTATCAGTGCAGATGCAATAGAAGCCCTGACCGCT
TACAGCCCGGCGCTGCTGGCACTCCATGATGTGCTGAAGCAGCAGCTGAGCCTGACGCAGCAGTTTCATCCAGGCC
AGCCGGCACCTGCACGCCTCCCTCCTGCGCTCCCTGGACGCGGACTCCTTCCACTACCACACCCCTGGAGGAAGCC
AAAGAGTACATTAGGTGCCACAGACCTGCCCCACTGACCATGGAGGATGCCCTGGAGGAGGTGAACAAGGAGCTG
TGAGCGCCAGCAGGTGGAGCTTGACGTGACGTCTTAACAAAAGCAAAGCACCGCAGCTTCCCAGAGTTACCAGCG
CAGCACTTAAGACAGGATCTTACGGCGGGGTGGGGCTCCTGGACCGTGACCGGCGTCTCTCTCGGGAGTACG
ACTTGACCGGGACCGCGACTGGGACCGGGAGCGGCTTCTGGAGGAGCGCGACCTGCTCCGACTTCTGCAGGGAA
GGGTGCCCAAGGTGACGAGCAGCCAGGCGTCTGGGGAGGCCACAGGAAGGGGCCCTCAGGCACTGCCCTGAGGC
AGCCTCTGCCTACCTAGATCTGGAGCGGGAGTAGGAACGGGAGCAGGAGCGCGACCTTGACCTTGAGTACGAGCC
TGAAGACTTGGAGGATCTTGAGTTGGAGCGGGAGGAAGAACGCCCTCGACTCTTGATCTGCTCCGAGACCTCGA
GGGTCCGCTGTGGGAGAGGCCTGATGATCAGGTGCCCCAGTGGATGGGCTGCACCCAGCCACCCCTGGCCCTCA
GGTTCCCTAGACCACCCAGATGCAGGGGCTCTGGCTGTGGATGTGGCGCCATAGCCACAGCAACGGTACCAAGTT
CCTAAATAGTGTGGCCGAGCCTGCTGCTGTGTGAATTCAGGCCTTGTGGAAAACACCGCCCCATAGGCACAGGCT
GTGTGAGGGTGGACGTGATGAGTGTATCTGGGGTCTGCTCCCACCCATCACAAGCTGTGGACCTGGCCCCCGG
CCACTGCAGACATCTGCGCTTTTACCTGTTTCTTCTCCTGGCCTTTCTCCTCCGCCGGGCCCCGATTTTGTCTCG
GAAGAACTCATAGAGGCCGTTCTGCTCCCAGCCTTCACTGTAAGACACGGCATTCCGTGTGTGACCACGTGACAC
CCACCCACAAGGAAGTCTGTGAAAAAGTCATCAGGAGTTAATCCACAGAACCTTGGAGAGTACATGGCCCTGTGGC
TGTGGGCTCCGAGCATGGGCGCAGTAGAGCTTGGTTCACTGTTCCACAGGGCTGTCTCCTGCAGCCCAGTGGC
TCTCTGGTGGCCACGCCCTTGCCACCCTGCTGTTCCGCTGAGGTGGTGGGGACCCATGGTCTGTGGAACCTGGGA
AACAGGAACACTGACTCATGGGTGGACAGGCTGCAGCCCAGCACAGGAAGGAGGGGTGACCACTGGGAAGGGTG
GGCTGAGGGCCCTGTGGCAGCCGGCTGCTTGAGACGTGCCGCCGTGCCACACCTTCCTAACTTCTTCTGATGTG
TCTCCATTAAAACGCCCTTCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5318

MASARKASRPMRDVFGDFSDVSLEDSTMEEIRNFQISRNLTKIAPGHSRFLKRNQTLDEKHLKKENPVLGSGPR
LASCRPPTTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDSMTADAGLPKRADRIILSGGALELASQNTDKT
SQNQARELPVTENNAQNAKVSRLKKKQAPVENISPEAPAGKERTLQTPKQKEPARTFDSPDSDEEEMKVLLGSL
MDSSREKNTNQGFSSANVSEEEERKLFVPSQLRAFTVPVSELSSAKPSQTSHLPTSLAADRTLHSTRSRADYPQ
SHVSSDTASHTPSVSIITGAFSNSVSLKMGHVKLVSPPGRSEAEVDEPVSEGADDLDEFINILSLDGLAPAVS
ENSDLEQEEESAQRQKTAGKIFRAEASTGQDAPRQAQARSWASQGKAASAEGDESEVSEHLSASSASAIQQDSTS
SMQPPSEAPMVNTVSSAYSEDFENSPSLTASEPTAHSKESLDRTLDALSESSSVKTDLPQTAESESRKKSGRHVTR
VLVKDTAVQTPDPAFTYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL
TQQFIQASRHLHASLLRSLDADSFHYHTLEEKEYIRCHRPAPLTMEDALEEVNKL

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FIGURE 5319A

GGCACGAGGGCAGACGGCGCTGGTGGTCGATCGTGTGGCGCCGGAGGACGTTCCCCGCGGGCCGGAGCCATGGAGA
TGCCGCTGCCCCCGATGACCAGGAGCTTCGAAATGTCATCGACAAGCTCGCCCAGTTCGTGGCTCGCAATGGGC
CCGAGTTTGAGAAGATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCGTTTCTTTTCGGAGGCGAATTCT
ACAGTTACTACAAGTGCAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGGAGCTGGAGC
CAGCCGCCACCATGCCACCCCTGCCACAGCCCCGCTGGCCCCCGCCGCGCCCATCCCGCCGGCCAGGGCGCGC
CATCCATGGACGAGCTCATCCAGCAGAGCCAGTGAACCTCCAGCAGCAGGAGCAGCACTTGCTGGCGCTCAGAC
AGGAGCAAGTGACAGCGGCCGTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGAGACCCAGCTAG
ACATGAACGAGTTTGACAACCTCCTGCAGCCCATCATCGACACGTGCACCAAGGACGCCATCTCGGCCGGGAAGA
ACTGGATGTTTCAGCAATGCCAAGTCCCCGCGCACTGTGAGCTGATGGCCGGCCACCTCCGGAACCGCATCACGG
CTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAATGACGTGCTGCACCACTGCCAGCGCA
AGCAGGCCCCGGGAGCTGCTGGCCGCCCTGCAGAAGGTCTGTTGGCCATCTACTGCACCACTTCTTGGCCGTGG
AGGAAGACAAGCAGCAGAGAAGATCGCCCGGCTCCTGCAGCTCTGGGAGAAAAACGGCTACTTCGATGACTCCATCA
TTCAGCAGCTACAGAGCCCAGCCCTGGGGCTTGGTCAGTACCAGGCCACCCCTCATCAACGAGTACTCCTCAGTGG
TCCAGCCGGTGCAGCTGGCCTTCCAGCAGCAGATCCAGACCCCTCAAGACGCAGCAGCAGGAGTTTGTACACAGCC
TGGCCCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCTCCAGATGCCGCAGATGGAGGCTGAAGTCAAGG
CCACGCCTCCACCGCCTGCTCCACCCCCGCCCCAGCACCTGCCCCCTGCCATCCCGCCACCACCCAGCCTGATG
ACAGCAAGCCTCCCATCCAGATGCCTGGCTCTTCAGAGTACGAAGCTCCAGGAGGGGTCCAGGATCCTGCAGCTG
CCGGCCCCCGGGGCCCGGGCCACACGACCAGATCCCACCAACAAGCCCCCTTGGTTTGACCAGCCTCACCCCCG
TGGCTCCTTGGGGCCAGCAGCAGCCGCCAGAGCAGCCACCCCTACCCGCACCACCAGGGCGGGCCACCCCACTGCC
CCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCGAGCAGCGCGGTGACCCCGGCTGGAACGGCCAGCGCGACG
CGCCCTGGAACAACAGCCGACGCCGCTTGAACAGCCAGTTTCGAGGGCCCCCTGGAACAGCCAGCAGCAGCAGC
CGCCCTGGGGCGGGGGCCAGCGCGAGCCACCCCTCCGCATGCAGCGGCCCCACACTTCCGGGGGCCCTTCCCGC
CCCACCAGCAGCACCCGCAGTTCAACCAGCCTCCGCACCCCCACAATTCAACCGCTTCCCGCCCCGCTTCATGC
AGGACGACTTCCCGCCACGGCACCCCTTCGAGCGGCCGCCCTATCCCCACCGCTTCGACTACCCCAAGGGGACT
TCCCTGCCGAAATGGGGCCCCCTCACCAACCCCTGGCCACCGCATGCCTCATCTGGCATCAACGAGCACCCGC
CTTGGGCTGGACCCAGCACCCTGACTTCGGCCCTCCCCCCCATGGCTTCAACGGGCAGCCCCCACACATGCGGC
GACAGGGCCCCGCCACATCAACCACGATGACCCAGCCTGGTCCCCAATGTGCCCTACTTCGATCTCCCTGCTG
GGCTGATGGCCCCCTCGTGAAGCTGGAAGATCACGAGTACAAGCCTTTGGACCTAAAGACATCCGCCTCCAC
CCCCCATGCCGCCAGCGAGAGGCTGCTGGCTGCAGTGGAGGCCTTCTACAGCCCCCGTCCACGACAGGCCCA
GGAACAGTGAAAGCTGGGAGCAGAACGGCCTCTATGAGTTCTTCCGAGCAAAAATGCGGGCCCGGCGGAGGAAAG
GCCAGGAGAAGAGGAACAGCGGACCCTCGAGGTCTCGGAGCAGATCCAAGAGTCGAGGGCGTTCTTCTCCCGCT
CCAATCAAGATCCTCCAAGTCTCAGGCTCGTACTCAAGGTCAAGGTTCGCGCTCCTGCTCCCGTTCTACTCCC
GCTCCAGATCTAGAAGTCGGAGCAGGTTCGCGCTCCTCCAGAAGCCGCTCCCGTCCAGTCGCGGTCCCGGTCCA
AGTCGTACTCCCCAGGAAGAAGACGCCGTCACGGTCCAGGAGCCCCACCCGCTTCTCTGCTGGTCTGGGTT
CTAATTCGGCGCCTCCCATTCCTGACTCAAGGCTCGGAGAAAGAGAACAAGGCCATCAGATGCTGGTGAAGATGG
GCTGGAGCGGCTCAGGCGGCCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAGGGCGGGGACGTCCGGG
ATAAGTGGGACCAGTATAAAGGCGTGGGCGTGGCTCTGGATGACCCCTATGAGAACTACCGCAGGAACAAGAGCT
ACTCCTTCATCGCCCGCATGAAGGCCAGGGACGAGTGTAAGTAGGCGCCCATGCCGGGAGCCGCGCCGGTGGCCA
GCGGTGCCGGCTGTGGGACCTTCCTGGCTGACTGGCAGAGGAAGATTGCAGTGACAGCTCAGTTCTTACACCGTC
TCCACTTGTGGAGAGCCACAGGAAGAGAAGGAAGACCAGCGCATGCCAGTGGGAACGCCGTGCTCCATGGCGTG
GAGGGCACGGGTGCCACCCACAAACCACACCAGGAGGCGCTGCAGCCACCAGGGCCCCAGGCTCGTTTTCTTTA
TAGCGAAGCAAAAACACAAGACCCTCCGCCCCAGTAAATCTTTCAGCCACGAAGGGATGGATGTGCATCTGCCC
TAAGTCAGATTGAAGCCTCCTCCTAGGCTCCAGGAGGAGCATGTGCAGGAAGGGTTGGCCTGAGCCAGAGCCGGC
ACCCAGCTCCTTCTCCAGCTCCCCGCACCCACCGGCCCTGACCTGGCTTCCCCTCGGCTGTGTAGGGACAAAG
CCGAAGCCAGTGCCATGACTGCCCGCGGATTGAAAAACAGAAACACAAAACCTTTGACTTGACTTGCGAAGTGAA
GCAGGGTTTTTCATTTTTACTCTCCTTGGTTTTAGGTCTAGAAAGAAGAATACTGACCTGAGAGGAGGCCAGTGAG
ATTCTGAAACCTAATTCTTCGAAGGCGTACTGGCCCTTAGTTTCAGTTATTTTTAGTTGTATAAGTTGATATTTTTT
TTCTGGAATGTAGCCATTTGCTGTTATCTGGGAAACAAGATTCTAACAGGAACCAGCCTAAGACACTTCAGGTT

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FIGURE 5319B

GAGCGCTGCCTCGGAGTCTGTGCCCGTCGCGTCCCCTGCTTGAGTTTTGCACTTGGAAGAACCCTGCACCGGCTG
GCGTGTGCGACGGCCAGTCCCATCCAGAGCATGGAGCCCGACCCAGCCAGCGCCTTCCACTCCATCATTTCAT
TTCACACCCCCGAAGGGAGGGGAGGCCAGGAGGGGAGCTGCTCCTGCCAGAAGCTGGTGGGTGACCGTTGGGAAT
CGGCCACACCTGGTGTCCATGGGCAGCCTGGTGCAATTCATTTCATTTGTACAGAAACATTTTTGAAAAATTCTT
TTCAATAAGATGCAAAATCTTCCAACTTTTCAACCCAACGTGATGAATATTTGATTTTGTTCCTAGATTCCTGTA
GCTGTGAATTGTTAAATGTATGATTCAGGATAAAACGTAAACACGTGCTGTTAGTAATTTCTTGTGGATTCAT
TGTTTTGCCTTCAAATAAAGCCTTTTTTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5320

MTMEKQKDNPKFSFLFGGEFYSSYYKCKLALQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDE
LIQQSQWNLQQQEQHLLALRQEQVTA AVAHAVEQQMQKLLLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWMFS
NAKSPPHCELMAGHLRNRIADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVPPIYCTSF LAVEEDKQ
QKIARLLQLWEKNGYFDDSI IQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQQIQTLKTQHEEFVTSIAQQQ
QQQQQQQQQLQMPQMEAEVKATPPPPAPPPAPAPAPAIPTTQPD DSKPPIQMPGSSEYEAPGGVQDPAAAGPRG
PGPHDQIPPKNKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHCPPWNN SHEGMWGEQRGDPGWNGQORDAPWNN
QPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRPFFHFRGPFPPHQHPQFNQPPHPHNFNRFPFRFMQDDFP
PRHPFERPPYPHFRDYPQGDFPAEMGPPHHHPGHRMPPHFGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRQGP
HINHDDPSLVNPVPYFDLPAGLMAPLVKLEDHEYKPLDPKDIRLPPPMPPSERLLAAVEAFYSPPSHDRP RNSEG
WEQNGLYEFFRAKMRARRRKQGEKRNSGFSRSRSRSKSRGRSSSRSNSRSRSSKSSGSYSRSRSRSCRSYSRSRSR
SRSRSRSSRSRSRSQSRSRSKSYSPGRRRRRSRSRSPTFPSSAGLGSNSAPPIDP SRLGEENKQHMLVKMGWSGS
GGLGAKEQGIQDPIKGGDVRDKWDQYKGVGVALDDPYENYRRNKSYSF IARMKARDECK

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FIGURE 5321

GTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCTGCGCGCCTGGCGCGTGCCCCCGCGCCGCCCCGT
CTCGGGCCCCGGACCCAGTCCGCATCCGTGCTCCGGCCCCGCTGCTGCCGCCGCGCTTCTACCCGCGCTACGTGCT
ACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTGTGAGCGCACGTGAGCATCTGGAAGGTGCCCCGTGTCCTATGC
ACACACCGTCAAGGCCACCATGCCCCATCTGGGTGGTCTCTGCTCCCGGATCATTATGAAGGAGAAGCAGAGCAC
CAAGGTATACTTGTCACTCATCCCCATCATCAGCGGTGTCCTGCTGGCCACCGTACCCGAGTTGTCTTTTGACAT
GTGGGGACTCGTCAGCGCCCTCGCCGCCACGCTGTGCTTCTCGCTTCAGAACATTTTCTCCAAAAAGGTCTTGCG
AGATTACGGATCCACCATCTCCGGCTGCTCAACATCCTGGGCTGCCACGCCGTCTTCTTTATGATCCCCACCTG
GGTTCTGGTGGACCTCTCGGCTTTTCTGGTCAGCAGCGACTTGACCTACGTCTACCAGTGGCCCTGGACGCTCCT
GCTCCTGGCTGTGAGCGGCTTCTGTAACCTTTGCCAGAAATGTTATCGCCTTCAGCATCCTCAACCTCGTTAGCCC
CCTGAGCTACTCGGTGCGCAATGCCACCAAAAGAATCATGGTCATCAGGTGTCCCTGATCATGCTGCGCAACCC
AGTCACCAGCACCAACGTCTGGGCATGATGACCGCCATCCTGGGGGTCTTCTCTATAACAAGACCAAGTACGA
TGCAAAACCAGCAAGCCAGGAAGCACCTCTCCCCGTACCCACAGCAGACCTGAGCAGCAAGGAGCGTCACCGGAG
CCCCTGGAGAAGCCCCACAACGGCCTCTCTTCCCCCAGCACGGGGACTATCAGTACGGCCGCAACAACATCTT
AACAGACCACTTCCAATACAGCCGGCAGAGCTACCCAAACTCGTACAGTTTGAACCGCTATGATGTGTAGAGTCC
AAAGGACAGGACCAGACTGTTGGTGACTCCTTCCCCGGCCCCCACAGCAGTATCAGAACTTCTGACAATCAGTG
AATGTACAACCCAGCCGAGGGGACGGTGCATAACTCTCCATCAGAAGCCCTGGGGTTTCTGGCCCCCGTGAGCC
GCAGGAGGATGCGTTGCCTGCAGTGCAGACGGCCGTGAGCTCTGGGCAAACCTAAACAGAGACCAGTGTCTCATG
CTCTTTCTTCTGAGTCTGTCTGAGGGCCGTGTCCCTGCGGAGATCTTGGCCAGTTGTACCTTTCCATGT
GGAATTATTCCCAAGCAGTGTAGCTCAGAGCACTTGTGTCTGCATTCCAGATAACATTACAGACCTGTGTGAAA
AGCTGGGGTCACTGTGGCTGTAGACCATGAACTGGCAGTGGGGGTGTCCAGGGCGGTGCTTGAGAACGTCAGACT
GGCTAGTTTAATTCCTGGCGCAGATACGCATAGGACCAACAGGGTACCAAGCAGACAGGGAGCCCGGAGAAAT
CATTCAAAACATCCCCAGCCACAGAGATGGATCCAGTTTCTTGGTCATCCCTTAGCAGTTTACAAGTTCTTGGC
AAATGTTCCAAAGCAAAAAGCGATTGCAATTAGCATCCAGTTCTGACGCTGGTGCTCTGCCCTGCACGTCAGG
GTTGGCATCCACCCAGATCCAGATGGAAGGGAACTTCTCTCTTCTCCTTTGCCTCCTCTTCCCTCACCAGAGCA
GGGCGCTTCTCTTGGGGTGGTGAGAAGGATCTTCGAGAAATCGTGTTTCAAGTCTATTTCTGTGGCA
CATGTCTTTTGTAGAGGCATCTTACCTCTTCTGTGATGACTTGGTATGTTGTTTGGTAGAGAGATCTTGATTTTC
GGAGGATCTTGCAATTTTCTAGGGAATATTTTGTAGTTGTGTGTGTGTGTTTTTGCCTTGGTCCCCATTATGGGA
TGCATTAGGACTGGCCTATGCATCGAAAATCTTTTTGTTTGTAAACGTTTAAAAACAAAGTTCCCCGGCCAGGCA
CAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGATGGGCGGATCACGAGGTCAGGAGTTTCGAGACC
AGCCTGGCCAACATAGTGAAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCATGGTGTGCGGTGCCTGT
AGTCCCAGCTCCTCAGGCTGCTGAGGCAGGCGAATTGCTTGAACCTGGGAGGCAGAAAGTTGTGGTGAGCCGAGAT
TGTGCACTCCAGCCTGGGTAACAGAGCGAGACTCCATCTCAAAAAAACAACAAACAAAGTTCCCACTGGT
GATGCTGTCTGACACGTTTTGGTATTTAGTAGGAAAATGAAGTGTTCGAAGCTTCGAGAGAAGCTTCAAAATTG
TCACAATTGCTGAAAACAGAATGAATCGTGAACATTATCTCAATATTTTGTATAATAGACAAGACCACAGTGTTT
TGGTTCCCTGACCTGTTTTTGTGTTTATGTTAGGATCTGAATCATGTTCTGGGTAAGGGGACGAGGAGCGAACAC
TGCATAAGATTGGTTTGCCAAATCAGATTCTTTGGTCAAGAGTCAGTTTGGGGCCAGGCGTGGTGGCTCATGC
CTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTGGAGTTTGAGACCACCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAACAAAAATTAGCCAGGCATGGTGGCACCTGCCTGTAATCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATCACTTGAAGCCAGGAGGTGGAGGTTTCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTT
GGTGACAGAGTGAGACTCTGTCTC

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FIGURE 5322

MPIWVVLLSRIIMKEKQSTKVYLSLIPIIISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFSKKVLRDSRIHH
LRLNLNIGCHAVFFMIPTWVLVDLSAFLVSSDLTYVYQWPWTLLLLAVSGFCNFAQNVIAFSILNLVSPLSYSVA
NATKRIMVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTTADLSSKERHRSPELEKPH
NGLLFPQHGDYQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

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FIGURE 5323

GGCACGAGGGGAACATCTTCATGATGTTCTGCATGATTGTGCTGTTTCGGCTCTTGAATCCCAGCGATGAAACCAG
GAACTCACTTTCCCGGGATGCCGAGTCTCCATTCCCTCCATTCCCTGATGACTTCAAGAATGTTTTTGACCAGAAAA
CCGACAACCTTCCCAGAAAGTCCAAGCTCGTGGTGTTGGTGGGAAAGTGTTTCGCCGAGGTGTGCATGGTTTCCCAGC
CACGTCCCTGTTTTCAAAGATAGTTTCACTTTGGTCTCTGAATTGAAATGCTGTCTACTGAAAGGGTTTCAGGAG
CGTTTATGTAAGGGGCTGTGATGAAATTGCATTCCCCATAGATAAAAAGAAAAATCATTTCTATCCAGAGATCTGA
GCAGAAGGATTGGCTTGTTAGTTTAACACAGCCGTATTTTTGGACATTTCAGTGTTACTTGCTGAGTCTGACAGCC
TCTGGGCCCCGGCCAGGGGCCCTGTAAACAACTGCTTTCACATCCCAACAGGGTCTGCTTGGCCACTCAGTGCAG
CTGCGATTAAACCCTAAAGGCTTTAAGGAACGGGGCCACCTGTAAACAGAGACACCAGCCTTCCTGTATAGACACTAA
ATTGTTAGCAAGAGTGTGAGCTAGTTCCCTGGTGAAGTGTTCCACAGAAGACATGTGGAGCAGTTGTGGGGATA
TTAAGGGAACTTTCCTCTGCCTTGACCCCTTTGTTAAATAAAATGACTTTGGGAGCCATTTCATTGTACAGTTGC
AGGAATGAGAGTGATTTTATGATGTGGTACATTGGGACCATGTTCTAAAACCTTGGGTTTCTGAGTCTGCTTTTT
GAGTAGGTGATTTTGAGGTTGAAAAACCAGGGGCCCTTCATCTAGGAAATACAGCATTTTCCAGAAGCTTCTTTGA
AAGGGAATCCTGGTTTTGTGCGCAAAATGAAACGCCCCGGGGTTGGCGCTGAATCCCACAACCTGTGTGATTTGCTT
GTTGAGTTTTTGTGCTGCTGTTTTTTTTGTTTGTGTTTATACCAATAAGAATGAGCCTGAATGTTGGTGGTTT
TTGAAATCCTGACTTGGAGGTAAACCTGGAGGAAGGAAAAAAGTAAATATGCAGGCTTTTAGGACTGAGTAGCC
TTGAAAATAAACCTCATTCTAAAAAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5324

MPSLHSSIPDDFKNVFDQKTDNLPRKSKLVVGGKVFAEVCMV SQPRPCFQR

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FIGURE 5325A

ATGAGTGTGAAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCTACCACCTGCACATCTACCCCCAGCTG
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCAATCAAGGAC
GCCATTGCCAGCCTGCGGCTGGACGGCACCAATGTTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGAGGAA
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGCACAGGACGAGCACCCT
CAGGAGGATGGCTACTACTTCCTGCTGCAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGCCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC
CTGTGTAACCTCCCCGAGCTAACCGAGGGCAACCTCCTGAAGAACCTCAAGCACCCTTCCTGCAACAAAAGATC
TACACGTACGCGGGGAGCATCCTGGTGGCCATCAACCCCTTTAAGTTCCTGCCCATCTACAACCCCAAGTACGTG
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCCTACTACACC
ATGCTCAGGAAGCGCGTGAACCAGTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGCAAGACCCAGAGCACCAAC
TTCCTCATCCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCCTGGGTGCT
GGCCCTGTGCTGGAGGCTTTTGGAAATGCCAAGACAGCCACAACAACACTCCAGCCGGTTTGGGAAATTCATC
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTGTCGAGAAATATCTGCTTGAAAAGTCTCGCCTG
GTGTCTCAGGAGAAGGATGAGAGGAACCTACCATGTGTTTTATTATTTGTTACTTGGGGTCAGCGAGGAAGAGCGC
CAAGAATTTTCAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTTGAAGATTGAAGATGGGGAG
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCCTCCCCGCCACCAAGAAGCAG
ATTTTTGCCGTCTCTCGGCCATCCTGTACCTGGGCAACGTCACTTATAAGAAGAGAGCTACAGGCCGAGAGGAA
GGGTTGGAGGTGCGGGCCACCCGAGGTGCTGGACACCCTGTGCGAGCTTCTGAAGGTGAAGCGAGAAATCTTGGTG
GAGGTTCTGACCAAAAGAAAAACGGTGACCGTCAACGACAAGCTTATCCTTCCCTACAGCCTCAGCGAGGCCATC
ACTGCCCCGCGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTTGCGACTGGATTGTGCTGCGGATCAACCACGCA
CTCCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCTTGCATTGGGGTCCTGGACATCTTCGGGTTTGAA
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCACGTGGCACAACATCGGCTACACAGACAAT
GTCGGCTGCATCCATCTCATCAGCAAGAAACCCACGGGCCTCTTCTACCTGCTGGACGAGGAGAGCAACTTCCCC
CAGGCCACGAGCCAGACCCTGCTGGCCAAGTTCAAACAGCAACATGAGGACAATAAGTACTTCTGGGCACCCCG
GTCATGGAGCCAGCTTTTCATCATCCAGCACTTCGCAGGGAAGGTGAAATATCAGATCAAGGACTTCCGGGAGAAG
AACATGGACTACATGCGGCCAGACATCGTGGCCCTGTGCGGGGCAGTGACAGCTCCTACGTGCGGGAGCTCATC
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGCTTCGGGAG
GCCGGACGCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTGCCCAAAGTCACCCAGAA
GAGCTGCCAAGAGGAGCCAGCACCCCTTCGGAAAACTTTACCGCGATTTCGATAACCAAATGATCAAGAGCATC
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGCGCC
TTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCCAAAGAACCTACTGGACTCCAAGTCCCTGAAA
CTCATCATCAGCATGACTCTGCACGACCGCACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA
AGCATCAGCGCCAGTTCCAGACATCCCTTAACAAGCTCTTGGAGGCACTGGGGAAGGCGGAGCCCTTCTTTATC
CGCTGCATCCGTTCCAATGCTGAAAAGAAAAGAGCTGTGCTTTGACGACGAGCTGGTCTGTCAGCAGCTGCGCTAC
ACCGGCATGCTGGAGACCGTGCGCATCCGGAGGTACAGGTACAGCGCCAAGTACACGTTCCAGGATTTACCCGAG
CAGTTCCAGGTGCTCCTGCCCAAGGATGCCCAGCCCTGCAGGGAGGTATCTCCACCCTCCTGGAGAAAATGAAG
ATAGACAAGAGGAACTACCAGATCGGGAAGACCAAGGTCTTCCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG
ACGCTGCACCGGGAGGTGGTGCGGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGCTGGAGCGTCGGCAC
TTCTGTCAGATGAAGCGGGCCGCCGTACCATCCAGGCCTGCTGGCGGTCTACCCGGGTCCGGAGGGCGCTGGAG
AGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTCTACCGGCACCAAGAA
CAGAGCATCATCCGCTGCAGAGCCTGTGTGCGGGGCACCTGCAGCGCAAGAGCTTCAGCCAGATGATCTCGGAG
AAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT
CAGGCGGTGGAGGGCAGCAGGTAGCTGAGCAGGGGCCGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG
CCTGAGGTGCAGCCAAGTGACAGGTCCCCCTAGAGCACTCTCACCTGAGAAGGAGGCCCCAAGCCAGAGAAG
ACTCTCCACCCAGAAAACCGTGGCGGTGAAAGTCACGAGAAAGTCCCCAGCAGCCGGGAGAAGCGTGAGTCG
CGTCGGCAAAGAGGGCTGGAGCACGTCAAGTTCAGAACAAACACATCCAGTCTGCAAGGAGGAGAGTGCCCTC
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCTGGAAGACAAAAGGAGAGCAGAGAAGAT

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FIGURE 5325B

GAAACCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAAAGCAGCCCACAGAGCAACCCAGGCCATG
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG
CCGACCAGCCTGGCCCTGGACAGCAGGGTCAGCCCACCGGCCCCCTGGCAGCGCCCCGAGACCCCCGAGGACAAG
AGCAAACCATGTGGCAGCCCAAGGGTTCAGGAAAAGCCCCGACAGCCCCGGAGGCTCCACGCAGATCCAGCGGTAC
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAAGTGTGGCGGGCAAGAAGCTGGTGGCCGCCGACGCCCTAGT
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCAGCCCCACAGAGGAG
AGGCGCACCTCCTTCTCCACGAGCGACGTCTCCAAGCTCCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA
ACCACGGACGGAGAGCGAAGTGCGAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCATCCTCCCTCCCA
GACGCAGGGCTGTCCCCGGGCTCTCAGGTCGACTCTAAATCCACGTTTAAGAGGCTTTTTCTGCATAAAACCAAG
GATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGCACGTGGTGTGGAAGCCACC
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA
CCAGGAGGCAAAGGGAAGAAGAACCAGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGAATCG
GTGTTCCGCCAGATCACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCCTGCTCAACAAGATAAATGACCTC
CGTTCCAGAAAGACGCCCATTGAGAGCTTGTTTTATCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAACGATG
TACTCTGTCCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACCAGATCGTCGTAGCAAC
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGGTCTCAACCTCTTCCAGTCACTGCTAGATGAGTTTACC
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT
GCTGTCCAGGAGCACAACGGGCACGTGTTCCGCCAGCTACCAGGTTAGCATCCCGCAGTCGTGCGAGCAGTGCCTC
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC
AAGATTGAGAGCCACTGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG
TGCGTAGACAGCCTGACCAGCGACAAGGCCTCGGTGCCCATCGTGCTGGAGAAGCTCCTGGAACACGTGGAGATG
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCAGCACTCGGGAGCTCCGGCAGGCGCTG
CAGACAGACCCCCGAGCAGTCAAGCTGGAGAAGTTCCTCCATCCACGCCATCACAGGGGTGCTGAAGCAGTGGCTG
CGGGAGCTGCCCCGAGCCCTCATGACCTTCGCACAGTACGGCGACTTCCTCCGAGCCGTGAGCTGCCGGAGAAG
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTTCAGAAAGCCAACCACAACCTCCCTGGAGAGACTC
ATCTTCCACCTTGTCAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTACCTGGGGCGCTGGCCATTATCTTC
GCACCTGCCTCCTGCGTGCCTTGACAACTCGGACCCGCTGACCAGCATGAAGGACGTCTTCAAGATCACACG
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGGAGGAGATCAGCCAACCTGGAGGCT
GCAGAGAGTATCGCCTTCGCGAGGCTTTCGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAACCTGGGGTTTTCG
TCTCCCTATGAGGGGGTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG
GAGGAGGAGGCAGCCGGCGCGCATGAGGACCGGGAAAAGGAGATTCTCATTGAACGGATCCAGTCCATCAAGGAG
GAGAAGGAGGACATCACCTACCGGTGCCGGAGCTGGACCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAG
ACGTGCGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCCGGGCGGGGGGCTCGGAAGGGCCCCCTGCGCCTGCT
CTCCCTTGCCCCGGCGCGCCACCCGAGCCCCCTCCCCACCGTGGCCGCCCTCCACGACGAAGGCCGCTCGTCC
TTCGTAACGGTCAGAGTGAAGACCCCCGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCCACAGGC
CTGCCCTCCCACCTGCCTCGCTGGGCACCGGGTGGCCGGGAGGCGGCTGCCCCAGTGGCGCGCGGGGAGCCACCT
GCCCCCGCCCCGGACCAGATACATTCCGTGTACATCACGCCGGGGCAGACCTGCCAGTGCAGGGCGCCCTGGAG
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCCAACGTACTGCCTGCCCCC
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAGTCTGCATGTCCGAGGACGGCCCCCTGCACTGGAG
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTTCGGCCCTCAGAGAAGGATCCAGAATCAAAGCTCAAGAGTGACGTG
AGGTGGGCACCGGCCCAAGTGCAGAGTCAAGGCAGGGAGAGGCGGCTGGAGCCAGGCCCCCTCGCACGCAGCC
CCCAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCTCACATCTCCCCACTCCCCCTTTTTG
TACGTTTAACTGTTTTCTTTGTACGTGGTTTACGTAACCTTAAAGTGAACAGCCTTAATGGAAGACCAATGGTT
TTTTATATGTGTATGTACAAAGTTTTCTATTAACGCTGCCCCGTCTCCCTTATAACCTGGACGTGAGCTGTCAGAG
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGGTTGGCTTGGGGTGGCCAATGGGCTGGG
ACCTCCATGAGAGTTTTGGACACTTGGGTACCTGACCCGTGCCTCTCTGACACATGTCTCCGGGGGGCAGCCA
CCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCCATGGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG
AGTCAGGGGCACCATGGACCTCACGTGCCAGGGAGACTTGAATGTGGCTGTCACTCTTCCGGACGCCAAGGGCTG

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FIGURE 5325C

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA
GGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC
CTCTCTCAGGCTTGGCCCACTCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGGCCCCCGCACA
GCATGAAATAAAAAGTGCCTGAGAAGTGTG

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FIGURE 5326

CCTGATCAGCGGGGCCGGGGCGGGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGG
CTGATTTAGAAGGAGGTTTCAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATGGGAAGTGGCAGAGCCCAGCAGC
CCCCTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCCGCACTCGCTCCAATCCTGAAGGG
GCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGCAGCCGCAGCGAGGGTGAGGGTGAGGCCGCCAGTGCT
GATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCGCCAGCCCCCTGAGGTCCAA
ATTTCGGACACCAAGGGTCAACTGTCCAGAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCAGTGCCA
AAGCTGGAGTCGTTCAACGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAGATGATTGAGATGTTTCGTGCGG
ACAAAACACAAGATCGACAAAAGCCACGAGTTTGCAGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGC
CTGACCTCCGACCCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTG
GAAGGACTTTTCAGCCTCATCCAGCAGAAAACCTGAGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCGCCA
TATGTGGTCCGCACCATCCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAG
AAAATGTTCCAGTGCCCATATTTCTTTTACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAG
ATGAGTTGGAAGATATGTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCAC
TGGCTGGGCCAGCCCTGGAGTTGCACAACCTGCATGGCGAAAACCTGTTGGCCCACCCCCTGCAGCGGCCTTGCCAGA
GCCATGCTTCCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTG
TACATCTGCACCTTCTTGTGCAAGGAAGTCCTTGCCCTAAAGCCTTGTTTCTCAAACCTGGGTTCTTGCGGACCTC
CGGGGTGGGGGGTTCCAGGAGGCACGTAGGGTACCTTGCAAGGTCCTAGGAGGGAAACCCAGGATTCCAGGAGG
GATCCCAGGAACCTGTGGGCACCCATTTTCTGTGTCTCCAGCCCATTTCCACTCCTAGTTTGTGATGGATAATTT
TTGTTCTTCCCTGTGTGATTTTTGCCATCAAAATAAAAAATTTGAGACTCGTTAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5327

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEAGEAASADDGSLNTSGAGPKSWQV
PPPAPEVQIRTPRVNCPEKVIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDKSHEFALVVVN
DDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQQKTELPVTENVQTIPPPYVVRTILVYSRPPCQPQ
FSLTEPMKKMFQCPYFFFDVVYIHNGTEEKEEEMSWKICLPSWAAWIPRVPATSMRHHWLGPWSCTTAWRNCWP
TPCSGLARAMLP TACWRRRMKPLRLRPLSEPSLYICTFLCKEVLGLKPWFSNWVPWDLRGGGVPGGT

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FIGURE 5328

GTGGAATTCATGGCATCTACTTCGTAIGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTT
CTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAG
GCCAACAGCGAGGCCTGCCGGGACGGCCTTCGGGCAGTGATGGAGTGTCGCAATGTCACCCATCTCCTGCAACAA
GAGCTGACCGAGGCCCAGAAGGGCTTTTCAGGATGTGGAGGCCCAGGCCGCCACCTGCAACCACACTGTGATGGCC
CTAATGGCTTCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACA
TTAAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGA
ATCGCGGACAAGAAGTACTACCCAGCTCCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTG
CTGGGCCTCAGCGCTCTGCTGCAGTTGAGATCCCAGGAAGCTGGCACATCTTGGAAGGTCCGTCTGCTCGGCTTT
TCGCTTGAACATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGG
GTAGCCGGAGAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGCAGTCCTGGGTGTGGGGACACAGTCGGGT
TGACCCAGGGCTGTCTCCCTCCAGAGCCTCCCTCCGGACAATGAGTCCCCCTCTTGTCTCCACCCCTGAGATTG
GGCATGGGGTGCGGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTTTCGGGGGGGGTTGCTTTTTTC
TGGGGTCTTTGAGCTCCAAAAATAAACACTTCCTTTGAGGGAGAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 5329

MASTSYDYCRVPMEDGDKRCKLLLGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAVMECRNVTHLLQQELT
EAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGEITTLNHLQDASAEVERLRRENQVLSVRIAD
KKYYPSSQDSSSAAAPQLLIVLLGLSALLQ

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FIGURE 5330

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGGCGACGCGTGGTGGCGAGGCTCCGCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTTCGGTCGCGAGCGCTGCCGTCGG
GAGGCGCTCCGAGGTTTCGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGTCTGTCGCGCCTCTGCACCCCCGCGCGGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCCCTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCTTGGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCCGAGGCC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCCGCTGCCCCCAGCGTCTCATAGTCCCTCACCCCTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGGTCGAGGCTGCGTGGTGTGATGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTTGTGTCAAAACCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCCTGGCAA
TAAACACTACCCGGTTCTCGCC

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FIGURE 5331

GCTTCCTCCTCCCCGCCGCCGCTCGCCATGGCCGCGCCGGCCCCGGGCCTCATCTCGGTGTTCTCGAGTTCCC
AGGAGCTGGGTGCGGCGCTAGCGCAGCTGGTGGCCCGAGCGCGCAGCATGCTGCCTGGCAGGGGCCCCGCGCCCGTT
TCGCGCTCGGCCTGTCTGGGCGGGAGCCTCGTCTCGATGCTAGCCCGCGAGCTACCCGCCGCCGTGCCCCCTGCCG
GGCCAGCTAGCTTAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCA
CGTACGGCCTCTACCGGGTGAGAGCTACGGGGGCGCCGGGGGATCACGCCGAGAGGGCCACAGCCACCGCCTACA
CCCCGGCTACGGAGGCCGCCGGGGGCCATGCCGAAAGGGCCGCGCCACTGTCTGCACCTCGGCTACGGGGGGCCA
CTGGGTATCATGCCAAGAGGGCCGTGCCACTGCCTGCACCTCGGCTACGTGGGTGCTGGGGGTCATGCCAAGA
GGGCCGCGCCACCGGTTGCCCTCGGCTACGGGGGGCCACTGGGGGTATGCCGAGATGGTCACGCCCACTGCCTG
CACCTCGACTACGGGGGCCGTGGGGGTCTAGCCGACAGGGCTCGCCCGCCTCCTGAACCCCGCCTACAGTGGGT
CCCGCAGGACCTCACTGCGCCCTCTGCCTTTATCTAGGCAGGGCTAGAAATGGTCTACTTGCAGTCCGTCTTCCT
GCTTCATCCGGTGGCCAGGCAGAGGGAACGGCACGGGCAAGGGCCTGGAAGGGAATCCGAGTGGCCCATGTCAAA
CGATGCCCATAACTCAGCCCCGTAGCGGACGGGGGCACGAGGAATCAGGTGTAGAGCCTGAATCTCAGGGTCCTG
ATCTCTAACCCAGCGAGTTCTCGGGGATCCCTGGGCAGCTTTGCCGCTCTGATGGCTCTGCTTCCAGGCTGTTT
ATCTTTGGCTTTGAGCCTCAGGATTCTATAGAATCAGAGGAGCGCGCTCTTTTAAAGACAGGGTAACTGAGGCTT
GGAGGAGCCTTGGCCTGGCCGAGGGAAGAGTGGGAGGGGCGGGCTCAAAGGCCAGGAACCTCAAGTCACTTGAGT
CTGGCAGCGTCAAGGGACACCCCATGCTGGGTGTGCCGTCTTCTCTTTGCATAGAATCTTGAGCTGATGATGGTT
TTGTGGGTTTTTTTATTAAGAGAAAAGGCTTACTGAACGCTTTATATGCATCAATTCATGAGTCCGTACCACAGCC
TATGAGATGTTACACTCATTTTACAGATGGAGAAAAGTGGGCCAGAAGAGGTGAGCTTACCTGCCCCAAGGCATCT
AGTGACCAGAGGGGCAGCCAGGGTGTGATCCTGCCTCATCTGACTTCGTAGTTGGGTACACATTTAACTTCCGCC
TTCCTGTGTGTGTTTTCCAAGAGCATATTAAAAAGTTTTGGCCGGGTGCGGTGGCTCACGCGTGTAATCCCAGC
ACTTTGGGAGGCCGACGTGAGTAGATCACCTGAGGTCAGGATTTTCGAGACCAGCCTGGCCAACATGGCAAACTC
TGTCTCTACTA

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FIGURE 5332

AAGATGCGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCCGGGGCTCCTCACCTACGTCTGGAGGAGCTCGAAAAGAGGCATCCGGTCTTGGGATGTCGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCCTCCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCTCTGCCTGGAGGAG
ACGGGGGAGCTGCTGCTACAGACAGGGGGCTTCTCGCCTCACCATTCTCCAGGTCTGAAGGACAGAGAGATC
CGGGACATCCTGGCCACCACGCCCCACCTGTGCAGCGGCCATACTCACCATCACCTGCCCCACCTTCGGTGAC
TGGGCTCAGCCGGCACCCGCTGTGCCTGGCCTTCAGGGGGCGCTCCGGCTCCAGCTGCGGCTGAACCCCCCGGCG
CAGCTGCCCCAACTCTGAGGGCCTGTGCGAATTCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGCTGCTGGAGCCCCGACCTCCGGGGGCTTCTCAGGCTGGGCCGGCCCTGCTGCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCCAAGTCCAGT
TTCTGGAAGCTGGTGCGGCACCTGGACCGCGTGGATGCCGTGCTGGTGACCCACCCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGCTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCCTGCGAGGCGCGCTGCGGGCTGGCG
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCCTGGCGCAGCTGGGCATCACGCCTCTGCCACTCAGCCGC
GGCCCCGTGCCAGCCAAACCCACCGTCTTTCGAGAAGATGGGCGTGGGCCGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGCGCGCCGAGCGCACGCTGGCCTCTGTGTGCGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGC GCGTGTCTTCCCCGGTTGCACCCCGCCGCTGCCTCCTGGACGGCCTGGTCCGCTGCAG
CACTTGAGGTTCTGCGAGAGCCCGTGGTGACGCCCCAGGACCTGGAGGGGCCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGGACAGCTCGAAGAGAGAGGGCCTCCTGGCCACCCACCCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCCAAGACCCCCCGGGAG
TTGAGGAAAGACCCCAAACCGAGTGTCTCCCGGACCCAGCCGCGGGAGGTGCGCCGGGCAGCCTCTTCTGTGCCC
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAAGCCCCGCAAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGCAGCCCGCCAGCCTCCGATGTGGAGAAGCCAGCCCCCCCCAGTGCAGCCTGCGGC
TCTCCGGCCTCCAGCTGGTGGCCACGCCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCTTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCTCCCTGAGTCCCACCGGAGCCCCGCAGAG
GGCAGCGAGCGGCTGTGCTGAGCCCACTGCGGGGCGGGGAGGCCGGGCCAGACGCCTCACCCACAGTGACCACA
CCCACGGTGACCACGCCCTCACTACCCGCAGAGGTGGGCTCCCGCACTCGACCGAGGTGGACGAGTCCCTGTCTG
GTGTCTTTGAGCAGGTGCTGCGGCCATCCGCCCCCACCAGTGAGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC
CGGGCGCGGCGCTCGGCTTCCCCACACGATGTGGACCTGTGCTGGTGTACCCCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCCGGCAGCTCGAATGACAGCAGTGCCCCGGTCACAGGAACGGGCA
GGTGGGCTGGGGGCCGAGGAGACGCCACCCACATCGGTGAGCGAGTCCCTGCCACCCCTGTCTGACTCGGATCCC
GTGCCCCCTGGCCCCCGGTGCGGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCTTG
CCTGACCCCCCTCAAGGTCCCCCACCCTGCCTGACCCATCCAGCATCTGCATGGTGGACCCCGAGATGCTGCC
CCCCAAGACAGCACGGCAAACGGAGAACGTGAGCCGCACCCGGAAGCCCCTGGCCCCGCCCAACTCACGCGCTGC
CGCCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGGCTTGCTGGTGGGGACCGTGCCAGCCGACCACT
CAGTGCCCGGAGTGAAGCCAGTGAGAAGGGAGGGCCGGGCACCCCTGTCCAGAAAGTCTCAACCCCCAAGACTGC
CACTCGAGGCCCCTCGGGGTGAGCCAGCAGCCGGCCCCGGGGTGTGAGCCACCCACCCAAAGTCCCCGGTCTACCT
GGACCTGGCCTACCTGCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCCAGCGCGTGC GCGCGCT
CTGCTACGTCTAGTGGCCAGGACCAGCGCAAGGAGGAAGGCATGCGGGCCGTCTGGACGCGCTACTGGCCAG
CAAGCAGCATTGGGACCGTGACCTGCAGGTGACCCCTGATCCCCACTTTTCTGACTCGGTGGCCATGCATACGTGGTA
CGCAGAGACGCACGCCCGGCACCAGGCGCTGGGCATCACGGTGTGGGCGAGCAACAGCATGGTGTCCATGCAGGA
TGACGCCTTCCCGCCTGCAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCAGCCCGCCTG
TCCCTAGATTACGCCACATCAGAAATAAACTGTGACTACACTTG

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FIGURE 5333

MAAVAGSGAAAAPSSLLLLVVGSEFGSPGLLTYVLEELERGIRSWDVPDGVNCLDEQLKVFVSRHSATFSSIVKGQ
RSLHHRGDNLETLLVLLNPSDKSLYDELRLNLLDPASHKLLVLAGLCLEETGELLQLTGGFSPHHFLQVLKDREIR
DILATTPPPVQPPILTITCPTFGDWAQPAPAVPGLQGALRLQLRLNPPAQLPNSEGLCEFLEYVAESLEPPSPFE
LLEPPTSGGFLRLGRPCCYIFPGGLGDAAFFAVNGFTVLVNGGSNPKSSFWKLVRHLDRVDAVLVTHPGADSLPG
LNSLLRRKLAERSEVAAGGGSWDDRLRRLISPNLGVVFFNACEAASRLARGEDEAELALSLLAQLGITPLPLSRG
PVPAPKPTVLFKMGVGRLDMYVLHPPSAGAERTLASVCALLVWHPAGPGEKVVRVLFPGCTPPACLLDGLVRLQH
LRFLREPVVTPQDLEGPGRAESKESVGSRDSSKREGLLATHPRPGQERPGVARKEPARAEAPRKEKEAKTPREL
RKDPKPSVSRTQPREVRRRAASSVPNLKKTNAQAAPKPRKAPSTSHSGFPPVANGPRSPPSLRCEASPPSAACGS
PASQLVATPSLELGP IPAGEEKALELPLAASSIPRPRTPSPESHRSAPAEGERLSLSPLRGGEAGPDASPTVTTP
TVTTPSLPAEVGSPHSTEVDESLSVSFEQVLPPSAPTSEAGLSLPLRGPRARRSASPHDVDLCLVSPCEFEHRKA
VPMAPAPASPGSSNDSSARSQERAGGLGAEETPPTSVSESLPTLSDSDPVPLAPGAADSDTEGFGVPRHDPLP
DPLKVPPPLPDPSSICMVDPEMLPPQDSTANGERQPHPEAPGPPQLTRCRPQSHSSGCCQNQGACWWGPCQPTTQ
CPE

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FIGURE 5334

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCACCCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCGGCACCGCGCCCGAGCCCACTCCATTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

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FIGURE 5335

MKASGTLREYKVVGRCLPTPKCHTPPLYRMRI FAPNHVVAKS RFWYFVSQ LKKMKSSGEIVYCGQVFEKSPLRV
KNFGIWLRYDSRSGTHNMYREYRDLTTAGAVTQCYRDMGARHRARAHSIQIMKVEEIAASKCRRPAVKQFHDSKI
KFPLPHRVLRRQHKPRFTTKRPNTFF

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FIGURE 5336

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGGCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGGTGGCCA
CGTCCAGCAAGGTCACCCGGGGCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTGCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCCAAGTGAGCCCAGAACTTGGGGAGCCAGTTCACCCACGGGTGGTCCAGGTACAGAC
TCTGCACGCCCTTAGGCCAGGTACAGTGCAGAGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCGAGTGACACCCCATCCCCTCCCATC
CCCCGGCGCGTGTTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

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FIGURE 5337

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA
TTACTTAACCTTTTCTGGGCCTCTGCCACCTCATCTGTAAAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA
CATTTGGGATATACTTATACTAAAAAAAATTATTCATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTCATAT
GTTTGAAACTTAATCCTCAAAGCAGTCCTTTCAACCTTGTCAACCTGTCGGCGCGGCCTCTGGTGCAGTGGCGGC
GGCTCCTGTTCTGCCGAGCTCTCTCCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCCGCATGGCTTT
ACTTACTGCGGCCGCCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCCAGCATGCCAGTGC
TTCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGTGGTCAC
CATGCTGGACAACCTTTCCCAACATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACTTTGCCCAAGCATATGCACGGGGTATCAGCCGAACCCAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAAGCTACCTTGTGTGCGAGCAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTCAACCAATGTTAGGCTATACTGATCATCAGTTCCCTG
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACAGCCACTTGG
TGGGCAGTGGCCTTTTACAGCCCTTACCTGTCTTGTGAGCAGCCATGAACGGGCTGGCAGGGCCTCTCCATGGAC
TGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTGAGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTGAGCGAGAGTTTGCTCTGAAACACCTGCCTAATGACCCCATGTTTAAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGGCCCAATGTAGATG
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCCTGTTTGGGGTGTAC
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCCAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGAGACTGGGGGAAAGTGACTACCAGA
AAGTGAGGAAGCCTAAATAAAAAGTATACTTTTGTTCAGGGGGCCTTTAAAGACTTAAGATTAAATATATCTG
AGGCACTGATAATATGTTTGTAGGTTAAATATAAATTAAGACTTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCCTGGTATGAGTTGCCCATCACAGGCATGGTCTGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACTTCGGAGCTTTAGCTTCTTCTCTGCCAAGCCCTCAATAAGCCAGCAAACCAG
GACTCTGCCCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTATACTGCCAAGTGACCA
TAAAGGCATGGCATTGTGTGACTGGCACCAATGTTTGATTTTTTTTTTAACTATCCAATTAATAAAGGT
CTGGGAGTGTCTGTTTCCATTACTTTAATACTCACCCCCCTCCAGACTTTCTACACCTGTTTCACCTCAGGC
TGAGGATGTTCTGGACCTCCCCCTCTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAATAAGTTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC
CCCCCACCACCCCCAGCTTTTAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTCTTTTTGAACAGAGAATTGATTCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTACTGGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCTCGTCCCCCTGCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTTCTCCCTTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAAGCCCCATT
TGCACAGTTTTTCAGCAACTCAGAATGCTCTACTTCTTTTTCTTTGAGAAAGGATTGAGATACGCTCCTGCTGTG
CCCCATCTTTCTCCAAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCCAGAACCCACACTGTTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTTCTGTATAAAATGCAAAATAAAT
GTTTAAATTAAC

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FIGURE 5338A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCCAGTCTCGGATCCC
TCGCGGACCCGATTGCACTCGGCTACCTCTGGAAACGCTCGGCTGTCTCGGGGGCACCTCTAGTCCACCAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGGAACACTCGGGTGCCCCCTTACCTCAGGCTCCGCCTCGGCCCTCGGTTT
ATCCGCCCCGCTCGAATGCGCTCGGGCATTTCGCGCGGGGGCGGGCCAGGCCGCTCGGAACCGTGCGGCGCGCG
AGGCGGGGATCCCGCGGCTGCGGCGACGGTGCGCGCGGTGGAGCCACGGGGCGGGCTTGGCTTGGTGTGACGGCG
GCTGCGGCGCGGTGGCGGCCGCGACAGGTGCGCGTCTCAGCTGGCCGAGCATGGTGGCAGCCTGCACCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGCGCCCTTGTAAGGGTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCCGTGTGGTCGCTGTGACTGCTGGAGATAGAGGTCCCAGCACCCCAAGCCAACCCAGCGGACCCCTCCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCCAACCCACTCACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCCGTTCCGCGGGAGCGGCCGAGGACCTGGAGC
TGCTGCCCCGCGACGTGCTGGTAGTGAGCCGGGCGGCCTTGACGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCCCACAGAGCGTGGGCTGGATGCCCCGCGCTCAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCCCTGGGGCCCGTGGCCCTGGCCCCGGCCCGCCCTCGCCACGGGGCCCCCGCCACTGCCCGCCAGGC
CCCGTGATGGGGCCCCCTGAGCCAGGCCTCACACTCCCCGACTTGCCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCCTTCTTGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCCGAGC
TGCCCCGACCCGCTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCCCTGCTGGCACTGCCCGCGCCGCTCGTGACCCCCGAGGCCTCGGCCGAGGCGCGCCGGGCCCTGCGGG
AGGCCGCGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC
TGCTCCAGCACCTGGGCCGCGTGGCCAGCCGCGCCCCGGCCCTGGGTCCCGCGGTCCGGGGCCCTGGGCGCCACCT
TTGGGCCGCTGCTGCTGCGCGCGCCGCCGCCGCTCCTCGCCGCGCCAGGGGGCGCTCCCCGACGGGAGTGAGC
CCAGCCCTGACTTCCCGGCGCTGCTGGTGGAGAAGCTGCTTTCAGGAACACTTGGAAGAGCAGGAGGTTGCGCCCC
CAGCGCTGCCGCTAAACCCCCCAAGGCAAAGCCGGCCTCCACAGTCTTGCCAATGGAGGGAGCCACCCTCCC
TGCAGGATGCTGAGTGGTACTGGGGGACATTTCAAGGGAGGAGGTGAACGAGAACTCCGGGACACTCCCGATG
GCACCTTCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCCTCAGGAAAGCGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCACTATGGCTTCTCAGAGCCACTCACCTTCTGCTCCGTTGTGG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACAATGCCAAGCTGGACACACGGCTCCTCTACCCTG
TGTCCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCAGCTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCCTGCTGAAC
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGACCTCATGCAGCTGCGCAAGATCCGAG
ACCAGTACCTCGTGTGGCTACCCAGAAAGGCGCCCGGCGAGAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACCACGAGGAACGCACTTGGTACGTGG
GCAAGATCAACCGCACGCAGGCAGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGCTGCTACGCCTGCTCCGTGGTAGTGGACGGCGACACCAAGCACTGCGTCATCTACCGCACGGCCA
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCACTACCAGCACGCCT
CGCTGGTGCAGACAACGACGCGCTCACCGTCAACCTGGCGCACCCAGTGCGCGCCCCGGGCCCCGGCCCCGCGC
CTGCCGCCCCGCTGAGCACCGAGGACCCGCCCCAAGCAGAGCCGCCCTGGGCCCCGTCTGCGCCGGAGGCTGCGGC
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGTCTCTATTTCTCCGGCTCTGGCTCTTGTGTTGGGGTTCT
CTCACCTCTTTCTCTTTCTTCCCTCCCCCATTTCTCCAGATCTCCCTCTGTCTCCTTTTCTCTGTCTTTCTTGG
CCCTGTCTCTCTCATGTTGGGGTCTTAACCTCCCCACCCCATATCTACGTGTCTCCTCCGGGCATTGCCCTCTC
CATGGCTCTGGTACCCCTGACCCTCTGCCCTGCCACCGCAGGTCCCCGGGGTCCCGGAAGCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGCCCCCTGGGCTGCGCGGCCCCAGCCTGGGCACCCCTGATTTTTAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGCGGGCCGGGCGGGA

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FIGURE 5338B

CCCGCCCCACAGACTCCAACTTCCCCTCCAAACCCCGAAGTGAAACCCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAAATAATTAAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTCGGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAAATTAGCCGGGCGTGGTGGCGGCCGCCTGTAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAACAGAGGGGAGACTCCTCCGTCTCAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGCAGTGGCCAAGTTGCGACACTGCCACGGCCCCCTCCCTCTGAT
GCAGATTGAGGGCTTCTCTTCGATCAIGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAACCTCTTTCCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

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FIGURE 5339

GGACCGCCGCCTGGTTAAAGGCGCTTATTTCCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCTGCTGCG**AT**
GACCCTGTGCGCCACTTCTGCTGTTCCCTGCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGCGGTGCAGGC
GTCCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCAGTTAACTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCCTGCGTGTTGGATGAACTTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCTGCAGCTCTACGCCCCAGGGCTGTGCGCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCCAGCGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTACCGTCAATGGGAAACCTTGGAAGATCAGACCCAGCTCCTTACCTTGTCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTTTGCTTCAAG**TG**
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCAGATACACAAAATTCACCCCA
TGATCAAGAAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAACTAGTTTAAT

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FIGURE 5340

MTLSPLLLFLPPLLLLLLDVPTAAVQASPLQALDFFGNGPPVNYKTGNLYLRGPLKKSNAPLVNVTLYYEALCGGC
RAFLIRELFPTWLLVMEILNVTLPYGNAEQNVSGRWEFKQHGEECKFNKVEACVLDELDMELAFLLTIVCME
EFEDMERSLPLCLQLYAPGLSPDTIMECAMGDRGMQLMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLLTLV
CQLYQGKKPDVCPSSSTSLRSVCFK

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FIGURE 5341

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCC GCGCCGTTCCCTCCGCCTGGAATGCGCCTCCCGCCCCAACCCAAACCCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTC CGGGGCAGGGCGTGTCCGTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGT CAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACC ACTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTCAGGATTAAGCGATTCTTGACAAGAAACAAAAGCAAAATCGTCCCATTC CCCAGTGGATTTGG
ATGAAAAC TGAAAATAAAATCAGGTACA ACTCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACATGA

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FIGURE 5342

MCPEGCQYTGRGHTLRTPQLGEAGGLHQPPGLCPRRSLRLECASRPNPTLCLLRLPSLRPGDPSPGAGRVRVWLL
APPCQSVSGEMAQYLEKPRVCGRMQAKPTHHDALRSGITSLTTRGAAAEIKVKMQSPGPSPSVAPTSSATFIA
LGTFRIKRFLDKKQKQNRPIPQWIWMKTGNKIRYNSKRTLEKNQAGSIRNCT

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FIGURE 5343

GCAACCTGCACAGCCATGCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTGCTGGTG
CTCTCGTGGCTGCCGCATGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTGGAACACCGACCTCGTCCCGGGCCCTGCAGTCCGGATACTCACGCCAGAAGTGCGGGCTG
GGATCCGGCGGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCCGAGGCCTCCCGCCTT
CACCGGGCTCTGTTCCGGCTGTCCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGCGTCAGCTC
AGCCTTGCAAGACCCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCCGCGCCGTGCGAGTCGGACCAACTGCTG
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGCCGCAAGCCGCCAGGGGGCGCCGCAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCGGGCGTTGCTGCCGTCTGCACACGGTCCGCGCGTCTGCTG
GAAGACCTGGGCTGGGCGGATTGGGTGCTGTGCGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTCCCCG
AGCCAGTTCCGGGCGGCAAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAGACCGACACCGGGGTGTCGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGTCCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAACCTGTGTATTTATTTAAACTCTGGTGATAAAAAATAAGCTGTCTGAACTGTT

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FIGURE 5344

MPGQELRTVNGSQMLLVLLVLSWLPHGGAISLAEASRASFPGPSELHSEDSRFRELKRYEDLLTRLRANQSWED
SNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLPEASRLHRALEFRLSPTASRSWDVTRPLRRQLSLARP
QAPALHLRLSPPPSQSDQLLAESSARPQLELHLRPQAARGRRRARARNGDHCPLGPGRCCRLHTVRASLEDLGW
ADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPDTPAPCCVPASYNPMVLIQKTDGTGVSLSQTYDDL
LAKDCHCI

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FIGURE 5345

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCCGCTGCCGCCGCCGCCGCCGCCGCTCTGGAG
CTCCCCCGCGCGGACGATGCCTGCCGTGCCCGCCTGGGGCTCGGGGCGGTGAGGCCCGGGGCGCGGGGTAGCTAT
GGCGACGGCAAGCGCGGCCCGCGGCGCCGCTGACAGGTGTGGGCCCCGCGGCGGGCGGCGTGGAGCAGCATGTGA
CGCCAAGGGGGGCAAGGGTTTCGGCCGTGCCCTCCGACAGCCAGGCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCCAGAAGTCAGCCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAATCATCAC
GCTGGGGGAGCCCCCTGGGTTCCTGCACTCCTGGTGGTGCCTCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG
AAGAGAGGCCTGCGAGCACTCCGGCGAGGCCAAGGCCTTCCAGGACTATAGTGTGTCAGCCGCCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGCAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG
CTCCCAGCCGTCCCCCACAACCCCAACGCCCCCATGATGGGGCCTCACGGTCAGCCCTTCATGTCACCGCGCTT
CCCAGGGGGCCCCCGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAATCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCAGGAGTTCGTGGCCCCGTGGGCCAGCCCCAGTGGAACATCGATCCC
CTACTCCTCCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCCGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACACAGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTTGCCGAAGAGTTCCCCCGGCGCCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCCGCGGGACGACGGCGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCCGAGCGAAAAGCTA
CTCGCCAGGGATGACCATGAGCGTTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCAG
CGCCCCTGCTCAGGGCGAGGGGCTGAGGTCACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCAGC
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTTCTGTATG
GACCTTCCTGCCATTTGTATTTTGTCCCAGAGAGAAAGGCTCTTTGGGGGGCCCTCTCCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTGGTTTTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5346

MYAKGGKGSAPVSDSQAREKLALYVYEYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAP
DRREACEHSGEAKAFQDYSAAAPSEVMGSMAPGDTMAAGSMAAGFFQGPPGSQPSPHNPNAPMMGPHGQPFMSF
RFPGGPRPTLRMP SQPPAGLP GSQPLLPGAMEPSPRAQGHPSMGGPMQRVTPFRGMASVGPQSYGGMRPPNSL
AGPGLPAMNMGPVVRGPWASPSGNSIPYSSSSPGSYTGPPGGGGPPGTPIMPSPGDSTNSSENMYTIMNPIGQGA
GRANFPLGPGPEGPMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTPRDDGEMAAAGTFLHFPFSE
SYSPGMTMSV

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FIGURE 5347

CGCGCGCTGGATGAGTATACCTCGGAGCTG**ATG**CTGGGCGGAACCAACACACTGGTGCTGCACAACACGTGTGAG
GACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGAGCTGTGCCAGCGCGTGAGCTTCTGC
ACTGACATGGACCCCGAGCCGCAGACCTTCCACCCCGTGCTGTCCCTGCTCAGCTTCCTCTTCAAGGCGCCACTA
GTGCCGCCCCGGCAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTGCATCGAGAACATCCTCAGGGCCTGC
GTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCGCCAGGGCCCAGCCTCAAGCGAGTT
GGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACCGGT
GATGCCAATGGGCATCTGCAAGAGGGGGCCCCCAAAGAGCCTTTCTCTCTGGGACAAAATACAAATGGCAGGAAG
GGTCCATACAGAAAAGAACGTCTC**TGAG**GTCTTTCGTTTTTAATAAAATGGTAAGAGTCTTTTCGTGTGGGGCCT
CCCAGCTGGGCAAGCCTTGATTGGCCAGGAGTCCAGGTGCCCGAGGTGTGACCTCAGCCCCTCGCCCTGAGCAGG
GGCGCTGGGCAGAAGCCTAGGCCCGCAGAGAGGCCCGGGGCTGCCGCCCCATCACACGCTCATGGTCATCCCTGG
CGAGTACTGCGGAGAGAGGAGGGGGGCAGCGCGCAGGGGCCGAGTTCAGCTCCGGAAGAGGCTGGGACCCGCCCC
AGGGACAATGGGGGACAGGGCAGGGCTGGGTCTGGGCAGACATGGGGTGGGGACAGGAGGGAACGGGGGAGGGG
CGATGCATGGGAAGGCCGCCCTGGGGCGCGGGTCCCGGGGTGGGGGCGGATGGGATCGGGACGGTGAAATAGGAG
CGGGAGGTGGTGGGGGGTGGGGAGAGGTTGAGGAGAGG

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FIGURE 5348

MLGGTNTLV LHNTCEDSLLAAPIMLDLALLTEL CQRVSFCTDMDPEPQTFHPVLSLLSFLFKAPLVPPGSPVVNA
LFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSLKRVGPVAATYPMLNKKGPVPAATNGCTGDANGHLQEGP
PKEPFSLGQNTNGRKGPYRKERL

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FIGURE 5349

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCCTCTGCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGGAGGCCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTGTAAAGGGGGGATAGGCAGCCATGAGCCCCTGGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTTGTCTGGGCTCGAACCGGGTCTCCAGACGTTGGGCCCCCTCCCTCCCAGCGCGGG
AGAGGCGGGGAAGGGGGCGGGGCGGGGAGGGGCCGAGCGCTTTTCTCCGGAGGTGCGCGCCCCGAGAGCCCGC
GCTGTCCGCCGCCGCTGCCTGAGTCGACTCTGCGCCGCCCGCCGCGATGGAGGCCGCCGCCAGTTCTTCGTGCA
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCGTCAGCCGCGA
GGGTGGCGTTCTCAAGGTGCACCCACGTCCACGCGCTTCACTTCCGGACCGCCCCGGCAGGTGCCCGGCTCGG
GGTCATGCTTGTGCGCTGGGGCGGGAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACCGTGAGCCT
GGGCTGGACGCCGAGGGCCAGGAGGTGTTTCGTACCTTCAGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTTCGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCGAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGGCCGCACATGGAGGCCCTGCGGCCCCGGCCTTCTGTTTACATCCCCGAATTCATCGC
GGCCAACCAGAGCGCGCGCGCGGACAACCTCATCCAGGCTCGCGTGCGCAGCAGCTGGAGCAGATCCGCAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCTCAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTCGCC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCCTCAATGGGTCTCCGCAGAACACCCTGGT
GCCCCGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCCTCATTGGCTCCGGCCTCAAGACCATGTCCATCGTGAGTTACAACCACCT
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCCGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGCAGAGCAACCCAGTGCTCTATACGCCCCGGCGAAGAGCCTGACCACTGCGTGGTTCATCAAGTA
TGTGCCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGTGCACAACACGTGTGAGGACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCCGAGCCGAGACCTTCCACCCCGTGTGTCCCTGCT
CAGCTTCTCTTCAAGGCGCCACTAGTGCCGCCCGGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACC
CGCTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCCACCACCTGAGG
CCCCGGTCACACAGTTTCTCGGCTCTTCTCCCGCTGCCCCCACGACCCTACCTTGAAGGCCCCCACAAATAA
AGGCGCTGCCACTCAGCCCTCCTTCCACCTGGGGTTCTTGGGGCCTGTGACCTGA

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FIGURE 5350

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG
ACAACCCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCCCTTGCTGCCATGGAGCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCACCTCTGGGTGACTGTGACGTCATCCAGGCCCTGGATCTCAG
TGTCCCCTCATGGACGTGGGGGAGACGGCCATGGTCACTGCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG
CAGGAGCCCATACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCCTACCA
GCGGGCGGACTTCGTCCTGGCCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGGTGAAGTGTCTGAACAACCTGGCGGCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTTCCGCAAGGGCAAGGTGCTGGCCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG
CACGGAGACCGCCTTGTACCGGAAAATGCTGGGCAACCCAGCCGGCTGCCTGCTAAGTGCCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT
CGCTGCCAGGAACTGACCACCTAGGTGGCTGCCACCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC
TCCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTTAGGGGAGCAAGGATTGGGGGT
CGTGCAGCCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCCAGAGGGAGGGGGCCCTCATTCTCCTC
AGACCCAGTTTTCCCCCACCCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCCTCAA
CAGGCCTGGGGGCAGCCCTTCCCCTGCCTAGTCCCCGCTGAGTGCCAGCCCCCACCCTGCGCGCCCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAATAAAGCATCCCACCCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5351

MGQPPAEEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKKTLPVPGPPGSSRPVKGQVVTVHLQTSLE
NGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSPIPPHAALCLEVTLKTAVDG
PDLEMLTGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSSAKVDMTFEEEEQLLQLKVKCLNNLAAS
QLKLDHYRAALRSCSLVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPIILRAALKLEPSNKTIHAELSKLVKKHAAQ
RSTETALYRKMLGNPSRLPAKCPGKGAWSSIPWKWLFGATAVALGGVALSVVIAARN

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FIGURE 5352

CTTGGCGCAGGCTGGAAGAGGAGCTGGTGAGAAACAGCGAAATGGCGCCTCCGGCCCCCGGCCCGGCCTCCGGC
GGCTCCGGGGAGGTAGACGAGCTGTTTCGACGTAAAGAACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAAC
GAGGCGCAGCGGGTGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCTGTATAGAGCGTACCTG
GCGCAGAGGAAGTTCGGTGTGGTCCTGGATGAGATCAAGCCCTCCTCGGCCCTGAGCTCCAGGCCGTGCGCATG
TTTGCTGACTACCTCGCCACGAGAGTCCGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGC
GTGGACGTGACCAACATCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCC
CTGCGTGCGCTGCACCAGGGGGACAGCCTGGAGTGACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGC
CTGGACCTCGCCCGGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCAGCCAGCTCGCCACT
GCCTGGGTCAGCCTGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAG
TGCTCGCCACCCCTGCTGCTGCTCAATGGGCAGGCGGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAG
GGCCTGCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCCTGTCCCAG
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCAGCTGAAGGATGCCCACAGGTCCCATCCCTTC
ATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCCAGCGCCTGAGGCTGG
CCCAGAGCTGTCAGGACCATGAAGCCAGGACAGAGGCCAGGAGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCA
CCTGCATCCCCCTCTGGGGGCAGGAGCCACCCCCAGCACCCCCATCTGTTAATAAATATCTCAACTCCAAAAAA
AAAAA

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FIGURE 5353

MAPPAPGPASGGSGEVDELFDVKNIFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKP
SSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSDVTNITFLMAASIYLHDQNPDAALRALHQGDSLECTA
MTVQILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGEKLQDAYYIFQEMADKCSPTLLLLNGQAAC
HMAQGRWEAAEGLLQEALDKDSGYPETLVNLIVLSQHLGKPPEVTNRYLSQLKDAHRSHPFKEYQAKENDFDRL
VLQYAPSA

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FIGURE 5354

GACATGTCTGCTAGCCAAGGAGCACCACGAGTGGCCAGCAGCCACCAGAGCTGGGAGAGAGGCCTGGGACGGCCT
TGCCCTCCAGCCTCCAGCTGGAGCCAGCCCTGCCGCCACCTTGACTTCAGACTTACGGCCTCCAGAGCTGTGAGG
AACGAATCCCTGTTGTCTTAACTGCCCCGGGCTGTGGTGCTTTGCCACAGCAGCTCCAGGACATTGAGACAGGTG
ACCTCCCAGGGGCCACTGTTTCTCCACCCCTGCACTTACTTCACCAGCTGGAGTGAAGGCAGGGAACCCCTGGGTCC
CCCAGGAGCAGCAGCTGCTGTGAGCATCACAGAAAAGCAGCCCCGGAGAGCAGGCGGTCCAGGCAGGGGCTTGTG
GTCCGTTTCATCTGGCTGCACAGCCGCGACCTCATTGGCAGGACGCCCCGGGGACAAGGAGCATCCATTAGTAATT
GGTTTTGGTTTTGATTTTTGTTTTCTTGAGATACGGTCTTGCTCTGTCTGTTAGCCTGGCATAACAGTGGCACAATC
TTGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGTGATCATCCACCTCAGCCTCCCGAATAGCTGGGACTACA
GGCACGCATCACCATGCCTGGCTAATTTGTATATTTTTTAGAGATGGGGTTTTGCCTGGCCGGGCGCAGTGGCTC
ACACCTGTAATCCCAAAGCGCTGGGGTTACAGGTGTGAGCCACAGTACCCGGCCCCATTGGTAATTGTAACACCT
TAGGATGACAACATTACAGTACCAACGCTACGACAACCTGGCAGTGTTTATACACCCTTGTGTGCTGGAGCCTCAG
GAAGCTTTGTAAGATGGTCTTGGGAGCTCCTTGCTCCTCCCCTGCATGATCCCTGTAACATGGTCCCTCAGCACG
GGGAAACAGACTCAGACCTGAAGTCACTTGTCTGTTGGACCTGGCACTGTGGCGAGCCCTCAGTGGAGCCTGGTT
GGTATCAGACATGCCATGCCCTCAGTGACACCTCAGACACGGGCCCTGGGCAGACAGCCCCCAGATGCGCGTGGA
TGCTTACGGGGTTCACAGAGCCACGTTTGAACCCAGAAGAACCAGCTTTGGTCTAGGGTGGCCCCCTCACCTGC
CTTCTCTTTTTAGCTGCTCAATAGCCATGGGGAATGGAGGGTCTGGGTCCAGTTAGGGACATGGAGGCATGGGTG
ACCTGTGCCCTCGGAGCTGAGCCGGTCTCAGCCTTGCTGGGCTCAAGCCTGGCCCTGGCCCGCAGCACACTGG
CCATCTTCAGGGTGCAGCCAGCACCCCTGGGCTCTCAGGGACTGAGGGCAGCTGCCCTGGCAGTGGGGGTGCCCA
GGGCTCCCATCCTTCTGCACGGCCCCCTCGGCACCCAGGCCGACCTCCTGCTAGAAGACGTGGCCTTGAAGCCCAC
AGGGTTGATGGGTTATGGTCAGGAGTCCCAGCTGGGCCCACCAGCCTCCTCAGGAAGGCGGGTGAGGTTGGTGTG
AGACTGACGGTGCCCTCCTCATGTCCCTTGGAGCGCCCCACCCACATCTCCCGCCCTCGGGTCTTGCTGGCC
CAGCATGAGAGGTGCTTCATAGGAACGGAGGGAGGACATGTCGGGACAGCTCGATGCTCGGCCTGCTGCTGCTCT
GCACCCCCAGGGCCTGGCTCACCCCTCTCTGGACCTGTCTGCTTCCAAGGAAGGGGACCCCTCTGAGGTCCACAGA
GGCCACCCCAGCTGTGGGTGCTGAGCATCTCTGTCTTGACGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATG
AGCAGGAGCGTGGACGTGACCAACACCACCTTCCTGCTCATGGCCGCTCCATCTATCTCCACGACCAGAACCCG
GATGCCGCCCTGCGTGCGCTGCACCAGGGGGACAGCCTGGAGTGGTGAAGTGGCCTCCCTGCTCTGGGGCCAGCCC
AGGGAGGCAAGTGCCCCCTGCCACATCTCCAGGCTGCGCACGGCCTCGCTGGCTGTGCTCATGGGAGCAGAGAAA
GGTGGTGTGCTGAAATGAGGCCCTGGCCTGCTGTCCAGGCTCCAGCTCCCCTGCCAGTGTGGGAGGCACTCCCATC
TGCGCACCAAGGCTGCAGATCCAAGGACACGGTGCCAGGCTGCAACCCTCTGTTCCCAAGGGCAGAGCAGAAAGC
GGCTTTGTCTCTGCTCGGTTTCTGTGTCCCCACCCCCACGAAGCCTTCTGTGTCTCGGCCCTGGGCCAGTCTC
TCAGGCCTCCCCGGGCCCCCATACCGGCCCTCCTCCAGGGCCCTCTGGGGTTGGGGTGCTGAAGCCCTGCAAGG
TTGGTGCCCCCCTCCACCCTAGGATGTGACTCCGGGCCATGTCCAGGGCACTGGTCACAGAAAGTGTGTGCTCAGTTC
TTCCCCGTGAGCTGTCCCTGCAGTGCTGCTTCCACTGTGAGTTGCAAGCTGGGCATTTTCATGGTCGCTGTGGA
TCTGCTCCCATCCACCTCCATCCACAGAGGGCTTAGAATTGCAGGGCGAGCCAGGCATGGTGACATGCACCTAT
GTTTCCAGCTACTTGGGAGGCGGAAGCAGGAGTATCCCTTGAGTCTGGGAGGTGGAGGCTGCAGTGAGCCGTGAT
GGTGCCACTGCACTCCAGCCTGGGTGGCAGAGCCAGACCCTGACTCACACAC

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FIGURE 5355

GCAAAACATTTCCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAAGACGCCTCCGTCGCG
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTTCGCGGTGCTCCTTGGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCGCGAAGGGGCTAGAGGCGGCTCCCTGGGTG
ACAACCGCGCGCCCCACCTTTCCCCACGTGGCCGCGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATGGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCATGGGGCCAGAGGAGGCAGTGAAAGAGGCCGTGGAGCAGTTTGAATCGCAAGGGGTTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCCAGGAGGTGTCAGCATACCTCACCCGCTTCTGCGACCAG
TGCAAACAGGACAAGGCCTGCCGCTTCCTCGCGGCGCCAGAAGGGGGCTACCCCATCATCTTCACTGCCTGGAAG
CTGGCCACTGCAGGTGACCAGGGCCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGGTGCTGACTGATGGACAGCCA
GACCTCCTGGATGCCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTCACGCTTGCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAAGCTGGC
GTGCTGCCTCTGCTGACTGGTGCCATCACCCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTGATGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCACAACCATGCCAAGATGATTGTG
CAGGAGAACAAGGCTTGAAGGTGCTCATCGAAGCCACCAAAGCGTTCTGGATAACCCTGGCATCCTGAGCGAG
CTCTGTGGAACCCTGTCCGCTGGCCATTGCAACGAGTTCTGCCAGGAGGTGCTCGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTTCAGGAGCTCGTGAAG
CAAGTGCTGAGCACCCCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCCTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCGTGGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCGAGAAACAGGCTTGATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACCTCATATGCAGGCCCGATCTGCCACCCTGAC
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTTGTATGTGAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTGTGACTCAGGAATGG
GGGTAGATCCATGTCTCCACTGTCCCCCATTAGTTCTGTCCCTTCACAATGAGAAGTGTTTTCTGGCAGGCC
TAGGTAAAGGTCGGGGGAGGGGGGAGCCTTGTAGGGAGGCCCTCTACACAGAAGAAAGCAGCCCCCATGTCCAG
CCACTTCTGGGTCCCAGCCAGCAGCACGGATGTTACTGTCCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCACGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCTCTGCTCCTTG
TCTTTCTTACCTGTAAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGTCTGTCTCTGGGTCTGGG
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5356

MVSKRIAQETFDAAVRENIEEFAMGPPEAVKEAVEQFESQGVDSLNI VKTAPKVSADGSQEPTHDILQMLSDLQE
SVASSRPQEV SAYLTRFC DQCKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSLNALS VLTGQPDLLDA
QGLQLLVATLTQNADEADLTCSGIRCVRHACLKHEQNRQDLVKAGVLP LLTGAITHHGHHTDVVREACWALRVMT
FDDDIRVPFGHAHNHAKMIVQENKGLKVLI EATKAFLDNPGILSELGTL SRLAIRNEFCQEVVDLGGLSILVSL
LADCNDHQMRDQSGVQELVKQVLSTLRAIAGNDDVKDAIVRAGGTESIVAAMTQHLTSPQVCEQSCAALCFLALR
KPDNSRIIVEGGGAVAALQAMKAHPQKAGVQKQACMLIRNLVAHGQAFSKPILDLGAEALIMQARS AHRDCEDVA
KAALRDLGCHVELRELWTGQRGNLAP

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FIGURE 5357

GGCCGGTGGGTGAGTGCACCGCGTTCTCGCACGCGTCATGGCGGTCCTCGGAGTACAGCTGGTGGTGACCCTGCT
CACTGCCACCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGTT
CCGATACAAGCACCCGTCTGAGGAGGAGCTTCGGGCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCCGAGATGCCCCGTTCCAGCTGGAGACCTGCCC
CCTCACGACCGTGATGCCCTGGTCCTGCGCTTCTTCCTGGAGTACCAGTGGTTTGTGGACTTTGCTGTGTACTC
GGGCGGCGTGTAACCTCTTCACAGAGGCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCTGCTCACGGTGACCTTCTCCATCAAGATGTTCTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCTCGAGCTGGGCCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCAGACCCACCGGGACGCACTGACCATGTGCGAGGACAG
ACCCATGCTGCAGTTCTCTGTCACACCAGCTTCTGTCTCCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT
TGCACGGGACTTCTGTCACCAGCCGCCGTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAGCTTGACGTACCTGACGCCGCTCATCCTCACCCCTCAACTG
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCCTGGGCCAGCTCCTCTACTATCCCCGACCCATC
CTCAGCCAGCGCTGCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCCTCTTCTCCGTGGCGTCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTCGGCCTCTACTTCCACCAGCACTTGCGAGGCTCCTAGCTGCCTGCAGACCCCTCCTGGGGC
CCTGAGGTCTGTTCTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGCGCCCCCGTGTCCCCAGCTGCAAG
GTGGGGCCGGACTCCCCGGCGTTCCCTTACCACAGTGCTGACCCGCGGCCCCCTTGGACGCCGAGTTTCTGCG
CTCAGAACTGTCTCTCCTGGGGCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGTT
TGAGTGGCAAGGGTGATGCTGGCTGCTCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

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FIGURE 5358

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCTAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCGAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTTCCTTGAGAGACG
AGTTGGGGGAGTCCCTCCACGCATTACCCACTCGGGCCGCAAAAATCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCTCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCCTCTCCACAGGGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGGAACGAGGTGTC
AGCTCTGCCGGCCACCCTAGACTGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTG
GGCCTCCGCCCTTTGGAGAGATTGAGACCGTTGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAA
AGAGCGAGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGA
CGTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCAAGTGAAATG
CGTTGAGGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGC
CGTGGCCCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGT
GCCCCGCTGACCTGAGTGAAGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGG
GGAAACCCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCAAGAGGAACCAATA
AACCTTCTGTGCAGAATGA

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FIGURE 5359

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQGSSLKHSTTLTNR
QRGNEVSALPATLDCDNLVNKPDERGF TPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIV
GLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHILK
LFQSNLVPADPE

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FIGURE 5360

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCTCAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCTTTGAGAGACG
AGTTGGGGGAGTCTCCACGCA⁺TACCCACTCGGGCCGCAAAAAC⁺TCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGACAGAGGAGGCTCGTGGGAGCTTTCCCC⁺ATCGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGGAACGAGGT
GTCAGCTCTGCCGGCCACCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAA
GGAGCATTTGCGGAAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTCACCCCCCTCATCTGGGCCTC
CGCTTTTGGAGAGATTGAGACCGTTTCGCTTCCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAAAGAGCG
AGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGA
CATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACACGTGAAATGCGTTGA
GGCCTTGCTGGCCCCGAGGCGCTGACCTACCAACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGC
CCTGGGATACCGGAAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGC
TGACCCTGAG⁺TGAAGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAAC
CCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTT
CTGTGCAGAAATGA

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FIGURE 5361

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTTLTN
RQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADP
HILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYT
PMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE

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FIGURE 5363

MQEPRRVTHCLGKRGVKTPLQPGSAFLPRVRRQSFTARSDSYTTVRDFLAVPRTISSASATLIMAVAVSHFRPG
PEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLYGHWSIMKWNRRRRRLQIEDFEA
RIALLPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPPLIGELYGLRTTEEALHASHGFMW
YT

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FIGURE 5364

GCCCCCTCCCCGCCCGCCTCCCGGCGCGGGTGGCCGAGGCGTAGCGCTGCGACCCCCGCACCCCTGCTAAC**ATGG**
CGCTGCGAGTGGTGCGGAGCGTGCGGGCTCTGCTCTGCACCCTGCGCGCGGTCCCGTCACCCGCCGCGCCCTGCC
CGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGCACTGGACCCGCTCTGCTCTCGGTGCGTA
AATTCACAGAGAAACACGAATGGGTAACAACAGAAAATGGCATTGGAACAGTGGGAATCAGCAATTTTGCACAGG
AAGCGTTGGGAGATGTTGTTTACTGTAGTCTGCCTGAAGTTGGGACAAAATTGAACAAACAAGATGAGTTTGGTG
CTTTGGAAAGTGTAAGCTGCTAGTGAACCTCTATTCTCCTTTATCAGGAGAAGTAACTGAAATTAATGAAGCTC
TTGCAGAAAATCCAGGACTCGTAAACAAATCTTGTGTGAAGATGGTTGGCTGATCAAGATGACACTGAGTAACC
CTTCAGAACTAGATGAACCTTATGAGTGAAGAAGCATATGAGAAATACATAAAATCTATTGAGGAG**TGA**AAATGGA
ACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTCTTAAATTAGTGGTGGATAGAAGACTTAG
AATAGAACTTTTAATATTACCGATGGGGGAAAAAACTACTGTTAACACTGCTAATGAAAGAAAATGCCTTTAA
CTTTCTAATGATTATAGATAAATATAATATGCATCTTTTTTCACAATATCCTATGATTTTTTAGACTAGGCTCTAGT
GTTCAGAATTCATGAAATTATCCATGGTAAAACTAGTTATAAAAATTACATAATCAAAGATAACATTGTTATT
CTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGGATTTGGGATGAAATACTTAATGATCTTTCC
ATTGGAATAACTGGAAGTGAAGAGGTTTTGTTGCTTGTACAGTGTGAGGAAACACCACTATTTTAATTTT
GCGATACACTGCATTTGCTGGTGCTATTTTTATACAGTGAAGCAACAGCTTTGCAGCAAAATAATAAAATACTTC
TTTGTT

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FIGURE 5365

MALRVVRSVRALLCTLRVPSPAAPCPRPWQLGVGAVRTLRTGPALLSVRKFTKHEWVTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCCEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 5366

TACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTG
CGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAA
GAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTTACAGGGTGAATGGACTGCT
CCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGCCT
ATTCAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGAAGACTGGTCTGCAGCTCCCACTGCTCAG
GCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAGCATGGAAAA
ATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 5367

GCTTTTCCATGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCCTCGTAACTTAAAGGGAAACTTT
CACAATGTCCGGAGCCCTTGATGTCCTGCAAATTAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCA
CTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCAT
AAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGT
CAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAAT
TGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTTGGT
TACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAA
CACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGAT
GTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTCGTGAACACCCATGGGAGGTCATGCC
TGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAA
GGAGGAATTTCAGGGTGAATGGACTGCTCCCCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTC
TGAAGGTGTGCAGGTGCCCTCTGTGCCTATTGAGCAATTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGA
AGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCT
TGCATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAAATAACATCAGTTTCT

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FIGURE 5368

MSGALDVLQIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFWEPRLLVVTDPRAHQPLTEASYVNLPTIALCNT
DSPLCYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPAMEDWSAAPTAAQATEWVGATTDWS

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FIGURE 5369

CTTTCCGGTGATGACAACCTTCCCACAAGAGGACATGCCTCTCACAAAGGATCTCCTTCATCCCTCTCCAGAAGA
GAAGAGGAAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCCAGGATG
CTATAAAGTCACCACGGTCTTTAGTCATGCACAAATGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCCTCTGCCA
GCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCCCTTCAGGAGGAAGCAGCACTAAAAGCACTCTGAATC
AAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

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FIGURE 5370

GTCGTACGCGTCCCGCGCCTCCTCGCGCCTGCGCCGTGGTTGGAAGGTCGTCCCTGTGACCGGCTTGGCGGTTG
GAGCGGCTGTCGCCATGTTGTCGGTAGCATCCCGCTCAGGCCCGTTGCGGCCCGTCTGTGCGCCACGTCCCGCG
GGGTGGCGGGCGCGCTGCGGCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTGGACCTGA
AGCGGCCCTTCCTCAGCCGGGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTTCGCTCCGTGGGCCTCA
ATGTCCCTGCTTCTGTTTATTCCACACAGACATCAAGGTGCCTGACTTCTCTGAATACCGCCGCCTTGAAG
TTTTAGATAGTACGAAGTCTTCAAGAGAAAGCAGCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAA
CTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATG
TGTTGGCCCTGGCGAAAATCGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAG
GCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAGGAAGCTGCAGTTGAATTATCACAGTTGA
GGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACCTCATCTTG
GCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCAT
CTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCAGTGACGATATGG
TGATTGTTGGTTAAGAGACTTGGAAGTCAAGTCATAGGCTTCTTTTCAGTCTTTATGTCACCTCAGGAGACTTATTT
GAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAATTGATGATGTATTTGCAAACATTAATGTG
AAATAAATTGAATTTAATGTTGAATACTTTCAGGCATTCACTTAATAAAGACACTGTAAAGCACTGTTATGCTCA
GTCATACACGCGAAAGGTACAATGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTG
TG

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FIGURE 5371

ACTGGAGTAACTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCT
TCTGCTGATGTGTTGGCCCTGGCGAGAGGCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAG
GAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTT
ATCCTGATAGGTGTTTGCATCATCTTGGCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGC
CCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCC
ACGTATGAGTTCACCAGTGACGATATGGTGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTCAG
TCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAAT
TGATGATGTATTTGCAAACATTAATGTGAAATAAATTG

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FIGURE 5372

GGGCCTGCGGGAGCGCGGCCTTGCGGTTCCCAGGACTCTTCTCCGGGCGCCTCGTCTCCTTACGCCACCCGCAAC
CCAAGCCAGGGCCCCGGTGACAGCGGCGGGGTGGGCCAGGACCGGGGAGGGGGTGCCCAGCAGCGACCCCCGGCT
CCCCCTAAGGCCGGGCGCAGCTCGGAGCCAGGAGCTGGCCCGGCGCGTGGCTTCCCGGAAGGCCCGGCGCAGCCG
GAAGGTGGGACGGAGGGCGGGGCCAGCGCCGGGGCCGCCACCAAGGCCTGCGCGACCTCCGCGGGGCTGGGGAG
CTGGGCGGGGAGCCCCGGGGCCTGCCAGGCCCCGGCTGCAGCCGCGTCTGATCGCCGAGCGCGCCGCTAGACCTC
CGCTCCCCCAGCCACCGTCTGGATGCTGTCTGTGCATACAGGCGCTTGAGAGCTGCTGAGCTTTCCTGAAAAGGGG
ACCTTTCCTTAAACTCTAGGAAGTAGAGTGGCATTGTGATGGAAATACTCTTATGCTCATTGAAACTGTCCCTC
TGAAGTCTCCCTCGAAGGCCCGCCACGATGAATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTC
TGGGGAGAGGAAGATGAAGGCGGCTGTCAAGCACTCTGGGAAGGGTGCCCTGGTCACAGGGGCCATGGCCTTCGT
CGGGGGTTTGGTGGGCGGGCCACCGGGACTCGCCGTTGGGGGGGCTGTGCGGGGGCTGTTAGGTGCCTGGATGAC
AAGTGGACAGTTTAAAGCCGTTTCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTTAACGA
AGCCGAGCCATCATCAGGCACCTGGAGTGGACGGACGCGCTGCAGCTGACCGCGCTGGTCATGGGCAGCGAGGC
CCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTCACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGA
CTAGGCCGCACCTCCGGGAGGTGGGGGGCCCCCTTTAAATGACTCTGTGATTCTGAAGAGGTGGCTTGGGAGTTG
GGAGAAGCCAGCGGATGCCCCCTGGGGAATCTCCACATCATCAGTGTATTACTAGTAATGTCCCGCTGGAGAGG
CCACCGCTGTGCAGTGTATGTTCCAGAAATTACTGATGAAGCAGCATGTGTTGGTGGCATGTGCACTGGCCTGC
CATGACAGCCCTCTGACTGGCCCCCAGTGAAGAGTAAAGGCCTGCCTGCCGAGGCTTCGGAGGCGTCTGCTGA
GTCTCTCACCCGCATGGGTCTGGGGAAGTATCAGCTCAGCCGACGGTCTGACCACACTTCATCCTCCCCCG
GGGCCTTCTCATCTTGGGAGATGACTCCTCTTCAGAGCACCTGCTGCAGGACTGGATCCCACCCCCCTGCAGGTC
CTGGGGTCTCAGGGCCTTGGAGCAGCCATGCTGGAATCATGTTTACCTCCTAGTGCAACCGTCCCCTACCCAGG
GACTGTGCAATGGCCCCACGGAGGGGACGGGCGGCCTGCTGAGTGAAGCCACAAATACCGAGTGGACTTGACCCC
GGCCCCCACTAGGCTGCACACCTAGACTCGCCCTGCCAGGGCCTCGCTCTTCCCATCTGAAAAGTCTGGTAGTT
CTTGAGGTTTACTTCTCAAATGAAATATTTTTAGTAAAAAGTACAGGTATATCTCGGAGATATTGTGGGTTCAGT
TCCAGACCACCTCGGTAAAGCCAACATCACAATAAAGCAAGGAAGCGCATTGTTTTAGTTTCCAGTGCATCTAA
GTCATGTTTACTGCATATTGCAGTCCACTAAATGTGCAATAGCATTATGTCTAACAAATGTACAAACCTTAATTT
AAAAATATTTACTGTTCAAATGCTGACACAGAAACGCAAAGTGAGCACATGCTGTTGGAAAATGGTGCCAAATA
GACTTGCCTGATGCCAGGCTGCTACAAACCTTCAATTTAAAAAAAACACAGTATTCACAAAGCATAGTAGAAT
GAGGTATGCCTGTATTGCTCTTTCTGAAGTGGTGTGATATAAACCATCTCTAAGAAATGTTTCTACCCTAAAGAT
TTCCCCAGTACAGTCAGCTCTCCGTAACTGTGGTCTCCACATTTAGATCCAACCAGCCTTGGATAGGAAATATTT
GAAAAAAGAAATTGCATTGGTACTGAACACGTACAGACCTTTTTTCTTGCCATTATTCCCTAAACAATATGGTG
TAGCATATTTACATAGCATTATATTGTATTGGTATTATAAGAAATCTAGAGATGATTTAAATTATACAGGAAG
GTGTGCGTAGGTTACGTGCAAACGCTATGCCATTGCCCATCAGGGACTTGAGCATCCTCAGATGTCGGTGTCTGA
GGGTTGAGGTTGCAGTCTTGAACCCATCCCCATGGATACTGAGGCATAGCTGTACTGTGTGTTTTCACTTTGC
TTTCAGAACTACGACTTGAATGTGATCGATTACAATAAATGTTTTTCT

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FIGURE 5373

MTIMVEDIMKLLCSLSGERKMKA AVKHSGKGALVTGAMAFVGGLVGGPPGLAVGGAVGGLLGAWMTSGQFKPVPQ
ILMELPPAEQQRLFNEAAAIIRHLEWTD AVQLTALVMGSEALQQQLLAMLVNYVTKELRAEIQYDD

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FIGURE 5374

AGCAGCCGGCGCGGCCGCCAGCGCGGTGTAGGGGGCAGGCGCGGATCCCGCCACCGCCGCGCGCTCGGCCCGCCG
ACTCCCGGCGCCGCGGCCGCCACTGCCGTCGCCGCCGCCGCTGCCGGGACTGGAGCGCGCCGTCCGCCGCGGAC
AAGACCCTGGCCTCAGGCCGGAGCAGCCCCATCATGCCGAGGGAGCGCAGGGAGCGGGATGCGAAGGAGCGGGAC
ACCATGAAGGAGGACGGCGGCGCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTTG
CAGGATCCAGATGAAGAAATGGCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAAT
AATGCAGTCTGTGCAGACCCCTGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAAC
TCAACGTGCAAGCCTCGGATTATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAG
GAAGTCTGGAATCATGTAAACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCTCTT
CTGCAGCCAAAATGCGAGCAATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAG
ACCTTTTACTTGGCACAAGATTTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAG
CTTATTGGGATTTTCATCTTTATTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAGTTTGC
TATGTGACAGATGGAGCTTGTTTCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGG
CGTTTAAGTCCCCTGACTATTGTGTCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAA
GTGCTACTGCCGAGTATCCCCAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTGGATGTT
GACTGCCTTGAATTTCTTATGGTATACTTGCTGCTTCGGCCTTGTATCATTTCTCGTCATCTGAATTGATGCAA
AAGGTTTCAGGGTATCAGTGGTGCACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGG
GAGACGGGGAGCTCAAACTGAAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGA
GACAGCTTGGATTTGCTGGACAAAGCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTC
CCCAGTGGGCTCCTCACCCCGCCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAATGGCGTGAACCCCAT
CCTTCTCCACCAAAGACAGTTGCGCGCCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTGCCTTTGCT
TTTACAGATATCTGAATGGAAGAGTGTCTTCTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAA
GTGTTTTTTTATTGAATGCTTATAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGT
GCGTGCTCCCGATGCTGCTATGGAAGGTGCTACTTGACCTAAGGGACTCCACAACAACAAAAGCTTGAAGCTGT
GGAGGGCCACGGTGGCGTGGCTCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGG
GCAAGCGTTGTGCAGAGCCCATAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAA
TGCCCTTGATGAACTGTTTTGTAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGAC
AAAAAAA

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FIGURE 5375

MPRERRERDAKERDTMKEDGGAEFSARSRKRRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLI
PTPKEDDDRVYPNSTCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLQHPLLQPKMRAILLD
WLMEVCEVYKLHRETFYLAQDFFDRYMATQENVVKTLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDE
ILTMELMIMKALKWRLSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA
ASALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSKCLKHFRGVADEDAHNIQTHRDSLDDLLDKARA
KKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA

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FIGURE 5376

GTGCTCACC CGGCCCGGTGCCACCCGGGTCCACAGGGATGCGAAGGAGCGGGACACC**ATGA**AAGGAGGACGGCGGC
GCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTGCAGGATCCAGATGAAGAAATG
GCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAATAATGCAGTCTGTGCAGACCCC
TGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAACTCAACGTGCAAGCCTCGGATT
ATTGCACCATCCAGAGGCTCCCCGCTGCCTGTA CTGAGCTGGGCAAATAGAGAGGAAGTCTGGAAAATCATGTTA
AACAAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCTCTTCTGCAGCCAAAAATGCGAGCA
ATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAGACCTTTTACTTGGCACAAGAT
TTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAGCTTATTGGGATTTTCATCTTTA
TTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAAGTTTGCATATGTGACAGATGGAGCTTGT
TCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGGCGTTTAAGTCCCCTGACTATT
GTGTCTTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAAGTGCTACTGCCGCAGTATCCC
CAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTGGATGTTGACTGCCTTGAATTTCTTTAT
GGTATACTTGCTGCTTCGGCCTTGTATCATTCTCGTCATCTGAATTGATGCAAAAGGTTTCAGGGTATCAGTGG
TGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGGGAGACGGGGAGCTCAAACTG
AAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGAGACAGCTTGGATTTGCTGGAC
AAAGCCCAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTCCCCAGTGGGCTCCTCACCCCG
CCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAATGGCG**TGAC**CAACCCCATCCTTCTCCACCAAAGACAGTT
GCGCGCCTGCTCCACGTTCTTCTGTCTGTTGCAGCGGAGGCGTGCCTTTGCTTTTACAGATATCTGAATGGAA
GAGTGTCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAAGTGTTTTTTATTGAATGCTTA
TAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGTGCGTGCTCCCGATGCTGCTAT
GGAAGGTGCTACTTGACCTAAGGGACTCCCAACAACAAAAGCTTGAAGCTGTGGAGGGCCACGGTGGCGTGGC
TCTCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGGGCAAAGCGTTGTGCAGAGCCCA
TAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAATGCCTTTGATGAAGTGTTTTG
TAAGTGCTGCTATATCTATCCATTTTTTTAATAAAGATAATACTGTTTTTGGAGACAAAAAAA

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FIGURE 5377

MKEDGGAEFSARSRRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLIPTDPKEDDDRVYPNS
TCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLDWLMEVCEVYKLHRET
FYLAQDFFDRYMATQENVVKILLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR
LSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILAASALYHFSSSELMQK
VSGYQWCDIENCVKWMVFPFAMVIRETGSSKCLKHFRGVADEDAHNIQTHRDSLDDLKARAKKAMLSEQNRASPLP
SGLLTTPQSGKKQSSGPEMA

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FIGURE 5378

TATAAAAGCTGGGCGGGCGCGGGCGGGCCATTTCGCGACCCGGAGGTGCGCGGGCGCGGGCGAGCAGGGTCTCCG
GGTGGGCGGGCGGCGACGCCCCGCGCAGGCTGGAGGCCGCCGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCC
ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGGCCCCGATGAGCAGCCACCTGCAGAGCCCCCGCACGCG
CCCAGCAGCGCCGCTTCGGCTTTCCCCGGGGCGCGGGCCCCGCGCAGCCTCCCCCCCCACCTGCCGCCCCGGAG
CCGCTGGGCGGCATCTGCGAGCACGAGACGTCCATCGACATCAGCGCCTACATCGACCCGGCCGCTTCAACGAC
GAGTTCCTGGCCGACCTGTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGCCGTGGGCCCCACGGGCGGC
GGCGGCGGGCGGCGACTTTGACTACCCGGGCGCGCCCGCGGGCCCCGGCGGGCGCCGTGATGCCCGGGGAGCGCAC
GGGCCCCCGCCGCTACGGCTGCGCGGCCGCCGGCTACCTGGACGGCAGGCTGGAGCCCCCTGTACGAGCGCGTC
GGGGCGCCGGCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGATGAAGCCAAGCAGCTGGCGCTG
GCCGGCTCTTCCCTTACCAGCCGCCGCCGCCGCCGCCCTCGCACCCGCACCCGCACCCGCCGCCGCCGCGCAC
CTGGCCGCCCGCACCTGCAGTTCCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCCGGTACCCCC
ACGCCGCCGCCCGACCCCGTCCCCAGCCCGCACCCCGCGCCCGCGCTCGGTGCCGCCGGCCTGCCGGGCCCTGGC
AGCGCGCTCAAGGGGCTGGGCGCCGCGCACCCCGACCTCCGCGCGAGTGCGGCGCAGCGGCGGGCAAGGCCAAG
AAGTCGGTGGACAAGAACAGCAACGAGTACCGGGTGGCGCGCAGCGCAACAACATCGCGGTGCGCAAGAGCCGC
GACAAGGCCAAGCAGCGCAACGTGGAGACGCAGCAGAAGGTGCTGGAGCTGACCAGTGACAATGACCGCTGCGC
AAGCGGGTGGAAACAGCTGAGCCGCGAACTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCAGAGAGCTCCTTG
GTCAAGGCCATGGGCAACTGCGCGTGAGGCGCGCGCTGTGGGACCGCCCTGGGCCAGCCTCCGGCGGGGACCCA
GGGAGTGTTTGGGGTCGCCGATCTCGAGGCTTGCCCCAGCCGTGCGAGCCAGGACTAGGAGATTCCGGTGCCT
CCTGAAAGCCTGGCCTGCTCCGCGTGTCCCTCCCTTCCTCTGCGCCGACTTGGTGCGTCTAAGATGAGGGGGC
CAGGCGGTGGCTTCTCCCTGCGAGGAGGGGAGAATTCTTGGGGCTGAGCTGGGAGCCCCGGCAACTCTAGTATTTA
GGATAACCTTGTGCCTTGAAATGCAAACTCACCGCTCCAATGCCTACTGAGTAGGGGGAGCAAAATCGTGCCTTG
TCATTTTATTTGGAGGTTTTCTGCCTCCTTCCCGAGGCTACAGCAGACCCCCATGAGAGAAGGAGGGGAGCAGGC
CCGTGGCAGGAGGAGGGCTCAGGGAGCTGAGATCCCGACAAGCCCGCCAGCCCCAGCCGCTCCTCCACGCCTGTC
CTTAGAAAGGGGTGAAACATAGGGACTTGGGGCTTGGAACCTAAGGTTGTTCCCTAGTTCTACATGAAGGTGG
AGGGTCTCTAGTTCCACGCCTCTCCACCTCCCTCCGCACACACCCACCCAGCCTGCTATAGGCTGGGCTTCC
CCTTGGGGCGGAACTCACTGCGATGGGGGTACCAAGGTGACCAGTGGGAGCCCCACCCCGAGTCACACCAGAAA
GCTAGGTCGTGGGTGAGCTCTGAGGATGTATACCCCTGGTGGGAGAGGGAGACCTAGAGATCTGGCTGTGGGGCG
GGCATGGGGGTGAAGGGCCACTGGGACCCTCAGCCTTGTGTACTGTATGCCTTCAGCATTGCCTAGGAACAC
GAAGCACGATCAGTCCATCCCAGAGGGACCGGAGTTATGACAAGCTTCCAAATATTTTGCTTTATCAGCCGATA
TCAACACTTGTATCTGGCCTCTGTGCCCCAGCAGTGCCCTGTGCAATGTGAATGTGCGCGTCTCTGCTAAACCAC
CATTTTATTTGTTTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG
GGGAAGGGTCTGAGACTCCCTTTCTTTTGGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG
GGTCTCTCTTTGCCCTCAGCTTTCCCCAGCCCCCTCCGGCCTGGGCTGCCACAAAGGCTTGTCCCCCAGAGGCCCT
GGCTCCTGGTCCGGGAAGGGAGGTGGCCTCCCGCCAACGCATCACTGGGGCTGGGAGCAGGGAAGG

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FIGURE 5379

TTGAGGGTCAATTCCAACTCCTTCACTTTGGTTGTGTTAGTAGACAGGGCAACAAAGTGCTTCGCCACTGCAGA
AGGATCCTTGGCCGCCTGGAGAAACCACTCCTTCGCCGTCTCTGCATTCTGTGATGGTCTCCTGGGTAGTAAAGGT
CTTGGAGGCAATGATGAACAGGGAGGACTCGGGGTTTCTGAGCTGGGCCAGGGTTTTGGCAATGTGAGTTCCATCAAT
GTTGGAGACATACCAGACGCGGGGACCTCCTGAAGAGTATGGCTTAAGGGCTTCAGTCACCATGAGGGGTCCCAG
GTCGGAGCCGCCAATGCCAATGTTGATGACGTCCGTGATGGTCTTGCCTGTGTACCCCTTCCAGTCACCGCTCCG
GACACGCTGGCAGAAAGACTTCATCTTGTCCAGAACCTTGTTGACCTCTGGCATCACATCCTTGCCGTCTACCAG
GATGGGTGTGTTTGACCGGTTCCGCAGAGCCACGTGCAGCACGGCTCGACCCTCGGTGTAGTTGATCTTCTCACC
ATTGAACATCCGCTCCCGGGCGGCCTCCACGCCCCCTGGACTTGGCCAAGTCCACCAGCATCCGCATCACGTCCTC
CGTCACCAGGTTCTTGGAGTAATCCACCAGGATATGCCCATGGTTGGTGTGAGGGTCAAGCTGAAGTGGTTGAA
GCGGTCCTTGTTGGCATCGAAGAGGCGGCGCAGGTTCTGAGCTCGGAGCGGTGCTCGCGGTACCATTGCTGCAGCTT
CTGGAACTGGGGGTCCCGGGTGAGAGCGGCCATGGCGGGACTAGAAGGTACACTGAGTGAGACGCGAGCCGAGGA
GGAAGGAGCGCCGGCAGCGCGCAGCA

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FIGURE 5380

ATGACAAAGAAAAGAAAGAACAACAATCATGCCAAAAGGGCCGCGGCCACATGCAGCCTATTTGCTGCATGAAC
TGTGCCCCGATGCATGCCCAAGTACAAAGCCGTTAAGAAACTCCTGTATGTGAAACTACATTACTGTGTGAGTTGT
GCAATTCACAGCAAAGTAGTCAGGAATCGATCTCATGAAGCCCGCAAGGACCCAACACCCCCTCCCCGATTTAGA
CCTGCGGCTAGTATCCTGACACCAAAATCCAACCACTCGAAGACACAGACAAAATGTTCCATGCAAGATATTGGC
AAAGTGAATGAAATTACATATAAAGAATACTATAAGCTGATTAAGGAGAATTTACACCAGAAACGCAAGCCACCA
CCACCCCCAGTGTCCCCAAGGCTGAAGGTGCAAGCTTGCCCTGGCCCTGGCCCTGGCATAGAAAGTGCACGATCT
GGTCATGTCATGCAGGTGAGGATACCTGTGTGCCAGGTCTCCAGCTCCCTGGTGACAAGACTGACAGACAAAAC
AATGGAACCTGGTACCTAGAAGAGGATGAGAAGGATCCCCGTGAACCCTAG

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FIGURE 5381

MTKKRKNNNHAKKGRGHMQPICCMNCARCMFQYKAVKKLLYVKLHYCVSCAIHSAKVVNRNRSHEARKDPTPPPRFR
PAASILTPKSNHSTQTKCSMDIGKVNEITYKEYYKLIKLNHQKRKPPPPVSPRLKVQACPGPGPGIESARS
GHVMQVRIPVCQVSSSLVTRLTDKTNGTWYLEEDEKDPREP

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FIGURE 5382

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATAACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTCAGGTCCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCAGTATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCCAGACCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGC

FIGURE 5383

[illegible]

GAGGCCCGGGAGCGGCAGTGGAAACCGACTCCAGAACTCCGGACGTGTGCGGGCGCAGTGAGTCGCAGCCATGTTCTGTTAACTCGTTCTTGAAGGGCGGCGGCGGGCGGGGAGGCGGGGGCCTGGGTGGGGGCCTGGGAAATGTGCTTGGAGGCCTGATCAGCGGGGCGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTGGTGGAGGCGGC GTGGCGGTGGAACGGCCATGCGCATCCTAGGCGGAGTCATCAGCGCCATCAGCGAGGCGGCTGCGCAGTACAAC CCGGAGCCCCCGCCCCACGCACACATTACTCCAACATTGAGGCCAACGAGAGTGAGGAGGTCCGGCAGTTCGGG AGACTCTTTGCCAGCTGGCTGGAGATGACATGGAGGTGAGCGCCACAGAACTCATGAACATTCTCAATAAGGTT GTGACACGACACCCTGATCTGAAGACTGATGGTTTTGGCATTGACACATGTCGCAGCATGGTGGCCGTGATGGAT AGCGACACCACAGGCAAGCTGGGCTTTGAGGAATTCAAGTACTTGTGGAACAACATCAAAGGTGGCAGGCCATA TACAAACAGTTCGACACTGACCGATCAGGGACCATTTCAGTAGTGAAC TCCAGGTGCCTTTGAGGCAGCAGGG TTCCACCTGAATGAGCATCTCTATAACATGATCATCCGACGCTACTCAGATGAAAGTGGGAACATGGATTTTGAC AACTTCATCAGCTGCTTGGTCAAGGCTGGACGCCATGTTCCGTGCCTTCAAATCTCTTGACAAAGATGGCACTGGA CAAATCCAGGTGAACATCCAGGAGGTAAAGGACCCCCATATTGGGGTATGGGTGCCTGGGAGGACCCACCCCTCA GCCCTTCATACCAGCTCTGAGCTGCAGTCCCCCTTCTCTATTTTGCCAGCCGTCCTGGGTGAGGGCAAAGGGG CTGGTGCTCTTGGGGTTCCCTGTCTCACTCTCCACCCTCCTCTCCCCAGTGGCTGCAGCTGACTATGTATTCTT GAAGTGGAGCCCCAGACCCGCCCCCTCACTGCCTTGCTATAGGAGTCACCTGGAGCCTCGGTCTCTCCAGGGGC GATCCTGTCTGCAGTCACATCTTTGTGGGGCCTGCTGACCCACAAGCTTTTGTCTCTCAGTACTTGTTACCCAG CTTCTCAACATCCAGGGCCCAATTTGCCCTGCCTGGAGTTCCTCTGGCTCTAGGACACTCTAACAAGCTCTGTC CACGGGTCTCCCCATTCCACCAGGCCCTGCACACACCCACTCCGTAACCTCTCCCCGTGTACCTGTGCCAAGCCT AGCACTTGTGATGCCTCCATGCCCCGAGGGCCCTCTCTCAGTTCTGGGAGGATGACTCCAGTCCCTGCACGCCCT GGCACACCCTTCACGTTTGCTACCCAGGCGGCCAAGCTCCAGACCGTGCCAGACCCAGGTGCCCCAGTGCCTTTG TCTATATTCTGCTCCAGCCTGCCAGGCCCCAGGAGGAAATAAACATGCCCCAGTTGCTGATCTCT

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FIGURE 5385

CTCTGACAAAAGCATCTCAGTGATTGACTTTTACTCGGGCGAGTGCAATTGCCAAGATGTTTGGCCATTTCAGAAAT
TATTACCAGCATGAAGTTCACCTATGACTGTGCATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTTTCATCTG
GCACCTGGGCCCCGAGATCACCAACTGCATGAAGCAGCACTTGCTGGAGATTGACCACCGGCAGCAGCAGCAGCA
CACAAATGACAAGAAGCGGAGTGGCCACCCCAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCT
GAGCCCTGGAGAGCAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA
AGATAGCTTGGATCCAGATCCTCGTTGCCTGCTAACCAACGGCAAGCTGCCACTGTGGGCAAAGCGGCTGCTAGG
GGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGCTGGGCAGAGCG
GGCCGGCCAAGAGCCCCCTCAAGACCATCCTGGATGCCAGGACCTGGATTGCTACTTTACCCCC**ATGA**AGCCCGA
GAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTGCTGAGTGAGTCAGAGAGTCC
CCAGGAAGCTGGCCGCGGGCACCCCTCCTTCCCTGCCCCAGCAGAAGGAATCATCTGAGGCCAGTGAGCTCATCCT
CTACTCTCTGGAGGCAGAAGTGACAGTCACAGGGACAGACAGCCAGTATTGCAGGAAGGAGGTGGAGGCCGGGCC
TGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCCGACAGCCCAAAGGACCAGAGCCCGCTGAGGACTC
GGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCGACGCCATCCACTCCCCAGCTCCGCTCCTGACCCTGCCCC
TCGGTTTGCCACGTCGCTGCCCCATTTCCAGGATGCGCAGGTCCCACAGAAGATGAGCTGTCCCTGCCCCGAGGG
ACCCAGCGTCCCCAGCAGCTCCCTACCCAGACTCCGGAGCAGGAGAAGTTCCTCCGCCACCACTTTGAGACACT
GACTGAGTCCCCCTGCAGAGCTCTGGGAGACGTGGAGGCCTCTGAAGCTGAAGACCACTTCTTCAACCCACGCCT
GAGTATCTCCACGCAGTTCTCTCAAGCCTCCAGAAGGCATCCAGGTTACCCATACCTTCCCTCCCCGGGCAAC
CCAGTGCCCTTGTAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCCAGAGCAGGTACTGGCTA
CGCCTCCCCAGACAGGACCCACGTCCTCGCTGCAGGGAAGGCTGAAGAGACCCTGGAGGCCTGGCGCCCCACCACC
TCCCTGCTTACGAGCCTGGCGTCTCTGTGTCCCTGCTTCTCCGTGCTGCCCACAGACAGGAATCTCCCAACGCC
CACATCTGCACCCACCCAGGCCTGGCTCAGGGTGTCCATGCCCCCTCCACCTGTTCTACATGGAGGCCACTGTC
CAGCTCCCGTGCCAGGATATCACGCAGCATCTCCCTCGGTGACAGTGAGGGCCCTATCGTGGCCACACTGGCCCA
GCCCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCTCCTTGGGCCAGGAGCTTCAGGCCATCACCAACCGCGAC
AACACCCAGTTTGACAGTGAGGGCCAAGAGCCTGCCCTGCGTTCTTGGGGCAACCACGAGGCCCGGGCCAACCT
GAGACTGACCCTGTCAAGTGCCTGTGATGGGCTCCTGCAGCCCCCGTGGATACCCAGCCTGGCGTCACCGTCCC
TGCAGTGAGCTTCCCAGCCCCCTAGCCCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTGCCCCAAG
TCTCCCAGCTCCTGAGTCCCTGGCCTTCCCTGCCCCACCCAGTAACCCCAAGCTTCCAGAGGCCCGGCCTGGCAT
CCCTGGCGGCACTGCCTCCCTCCTGGAGCCCCACCTCCGGTGCACTTGGTCTGTTACAGGGCAGCCCTGCCCGCTG
GAGTGAGCCCTGGGTGCCGTTGAAGCCCTGCCCCCATCTCCCTTGAGCTGAGCAGGGTGGGGAACATCTTGCA
CAGGCTGCAGACCACCTTCCAAGAAGCCCTCGACCTTTACCGTGTGTTGGTCTCCAGTGGCCAGGTGGACACCGG
GCAGCAGCAGGCACGGACTGAGCTGGTCTCCACCTTCTGTGGATCCACAGCCAGCTGGAGGCTGAATGCCTGGT
GGGGACTAGTGTGGCCCCAGCCCAGGCTCTGCCCAGCCCAGGACCCCGTCCCCACCGACGCTGTACCCCTGGC
CAGCCCAGACCTGCAGGCCCTGCTGGAACACTACTCGGAGCTGCTGGTGCAGGCCGTGCGGAGGAAGGCACGGGG
GCAC**TGA**GGGCGCAGCCCTCCACCGCAGCCCTGCTGCTTCTGAGGACTTAGGTATTTTAAGCGAATAAACTGAC
AGCTTTG

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FIGURE 5386

MKPESLENSILDSLEPQSLASLLSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVTGTD SQYCRKEV
EAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELS
LPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRETHTFP
PRATQCLVKSP EVKLM DRGGSQPRAGTGYASPD RTHVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLP TDRN
LPTPTSAPT PGLAQGVHAPSTCSYMEATASSRARISRSISLGDSEGPIVATLAQPLRRPSSVGELASLGQELQAI
TTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVP AVSFPAPSPVEESALRLHGSA
FRPSLPAPESPGLPAHPSNPQLPEARPGIPGGTASLLEPTSGALGLLQGSPARWSEPWVPVEALPPSPLELSRVG
NILHRLQTTFQEALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGT SVAPAQALPSPGPPSPPTL
YPLASPD LQALLEHYSELLVQAVRRKARGH

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FIGURE 5387

AAGAAGACTACAATCTCCGGAGGGAAACCTGGGGCGTCTCGCGCAAACGTCCATAACTGAAAGTAGCTAAGGCAC
CCCAGCCGGAGGAAGTGAGCTCTCCTGGGGCGTGGTTGTTTCGTGATCCTTGCATCTGTTACTTAGGGTCAAGGCT
TGGGTCTTGCCCCGCAGACCCTTGGGACGACCCGGCCCCAGCGCAGCTATGAACCTGGAGCGAGTGTCCAATGAG
GAGAAATTGAACCTGTGCCGGAAGTACTACCTGGGGGGGTTTGCTTTCCTGCCTTTTCTCTGGTTGGTCAACATC
TTCTGGTTCTTCCGAGAGGCCTTCCTTGTTCCAGCCTACACAGAACAGAGCCAAATCAAAGGCTATGTCTGGCGC
TCAGCTGTGGGCTTCCTCTTCTGGGTGATAGTGCTCACCTCCTGGATCACCATCTTCCAGATCTACCGGCCCCGC
TGGGTGCCCTTGGGGACTACCTCTCCTTCACCATACCCCTGGGCACCCCCTGACAACTTCTGCACATACTGGGG
CCCTGCTTATTCTCCAGGACAGGCTCCTTAAAGCAGAGGAGCCTGTCCTGGGAGCCCCCTTCTCAAACCTCCTAAG
ACTTGTTTTTCATGTCCACGTTCTCTGCTGACATCCCCAATAAAGGACCCTAACTTTCCAAAAAAAAAAAAA

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FIGURE 5388

MAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAATGKRPSARFPHQRRKKRREMDDGLAEGGP
QRSNTYVIKLFDRSVDLAQFSENTPLYPICRAWMRNSPSVRERECSPSSPLPPLPEDEEGSEVTNSKSRDVYKLP
PPTPPGPPGDACRSRIPSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKIRQRWKEASHRNQLRYSESMKIL
REMYERQ

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FIGURE 5389

GGCACGAGGGGGGAGAGTAGACAGCAGAACCAGCGGCGGGCGGCTAAGCAGAGACTGTAGTAGCGGGACAGCGAC
GACGGCAGCGATGGCTGGGGCGGGGCCAGCCCCGGGACTCCCGGGTGCAGGAGGACCCGTGGTCCCGGGTCCCTGG
CGCTGGCATCCCGGGCAAAGCGGCGAGGAACGCTTGAAGGAAATGGAGGCGGAGATGGCCCTGTTTGAGCAGGA
AGTTCTGGGGGCTCCAGTACCTGGAATCCCACTGCTGTGCCTGCGGTGCCACTGTCCCCACGGTCCCCACAGT
AGAAGCGATGCAGGTCCCAGCGGCTCCTGTGATCCGCCCAATTATCGCGACCAACACATACCAGCAGGTCCAGCA
GACTCTGGAGGCCCGAGCAGCTGCTGCAGCCACAGTAGTTCCCTCCCATGGTGGGTGGCCCTCCTTTTGTAGGCC
TGTTGGCTTTGGCCCTGGTGTATCGGAGTCACCTGGACAGCCAGAGGCTCGAGAAGCCATGTTCCCTGCGGCGGGC
AGCTGTGGCCCCCAGAGGGCCCCCTATCCTGCGTCCAGCCTTCGTCCCCCACGTGCTACAGAGAGCAGATTCCGC
TCTCTCCTCTGCAGCAGCCGGCCCCCGCCCTATGGCCCTACGGCCCCCTCACCAGGCCCTCGTGGGCCCCCTCT
GCCTGGGCCCCCTGGACCACCCATGATGCTGCCACCAATGGCTCGGGCTCCAGGGCCCCCGCTGGGCTCCATGGC
TGCACTGAGGCCCCCTCTGGAAGAGCCAGCAGCACCCCGAGAGCTGGGCCTAGGCCTGGGGTTGGGCCTGAAAGA
GAAGGAAGAGGCAGTGGTGGCGGCGGGCTGGGCTGGAGGAGGCTAGCGCGGCTGTGGCCGTGGGGGCAGGAGG
TGCCCCAGCTGGCCCTGCAGTCATTGGGCCCAGCCTGCCGCTGGCCCTGGCCATGCCATTGCCCAGCCTGAGCC
CCTGCCCCCTCCCGTTGGAGGTGCTCCGCGGCCTCCTGCCCCCGCTGCGCATTCCTGAACTCCTGTCCCTGCGTCC
TCGGCCCCGGCCCCCTCGGCCAGAGCCACCCCCAGGCCTCATGGCTCTTGAGGTCCCAGAGCCCCTGGGTGAAGA
CAAGAAGAAGGGGAAGCCAGAGAAATTGAAACGGTGCATTTCGCACAGCGGCAGGGAGCAGCTGGGAGGACCCAG
CCTGCTGGAGTGGGATGCAGATGACTTCCGGATCTTCTGTGGGGATCTGGGCAATGAGGTGAACGATGACATCTT
GGCACGCGCCTTCAGCCGCTTCCCATCCTTCCTTAAGGCCAAGGTGATCCGTGACAAGCGCACAGGCAAGACCAA
GGGCTACGGCTTCGTAGCTTCAAGGACCCAGCGACTACGTGCGCGCCATGCGTGAGATGAATGGGAAGTATGT
GGGCTCGCGCCCCATCAAGCTTCGCAAGAGCATGTGGAAGGACCGGAATCTGGACGTGGTCCGCAAGAAGCAGAA
GGAAAAGAAGAAGCTGGGCCTGAGATTAGGGTCTGTGGCCAGGCACCCGCTCCACCTGGCCGGGCGCTGGCTCCT
CCCTCAGTTCTCTTTGGAAAACCCCGAGCTGTCCACCCATCCCCTGCCCAAACCAGTTTCAATAAAATTTACGT
TCATTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5390

MAGAGPAPGLPGAGGPVVP GPGAGIPGKS GEERLKEMEAEMALFEQEVLGAPVPGIPTAVPAVPTVPTVPTVEAM
QVPAAPVIREIIATNTYQQVQQTLEARAAAAATVVPEPMVGGPPFVGPVGFPGDRSHLDSPEAREAMFLRRAAVA
PQRAPILRPAFVPHVLQRADSALSSAAAGPRPMALRPPHQALVGPPLPGPPGPPMMLPPMARAPGPPLGSMALR
PPLEEPAAPRELGLGLGLGLKEKEEEAVVAAAAGLEEASAAVAVGAGGAPAGPAVIGPSLPLALAMPLEPEPEPLPL
PLEVVRGLLPPLRIPELLSLRPRPRPRPEPPPPGLMALEVPEPLGEDKKKGKPEKLRKRCIRTAAGSSWEDPSLLE
WDADDFRIFCGDLGNEVNDDILARAFSRFPSFLKAKVIRDKRTGKTKGYGFVSFKDP SDYVRAMREMNGKYVGSR
PIKLRKSMWKDRNLDVVRKKQKEKKKLGLR

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FIGURE 5391A

CGGTGTGCGCCGCCGCGGCGCTGTTCATGGAGCTAGCGCAGGAAGCGCGGGAAGTGGGTGCTGGGCGGTTCGAAGAG
ATGGGGGTGCCCCGTGGCGGCGCCCGGGCCCCGGAATCGACGCTGCGCAGGCTGTGTCTGGGCCAGGGGGCTGACATC
TGGGCCTACATCTTGCAGCATGTGCACAGTCAGAGGACTGTCAAGAAGATCCGGGGAAACCTACTCTGGTATGGC
CACCAGGACAGTCCACAGGTCCGTGCGAAGTTAGAGCTGGAAGCTGCTGTGACCCGCTGCGGGCAGAAATCCAG
GAACTCGACCAGAGCCTGGAGCTGATGGAGCGAGACACTGAGGCTCAGGACACGGCCATGGAGCAGGCACGTCAG
CACACTCAAGACACCCAGCGTCGAGCTCTCCTCCTCCGGGCCCAAGCTGGGGCCATGCGAAGACAGCAGCATACG
CTCCGAGATCCCATGCAGCGGCTGCAGAATCAACTGAGGCGCCTGCAGGACATGGAGAGGAAAGCCAAAGTAGAT
GTGACCTTTGGATCCCTCACGTCGGCAGCTCTGGGCTGGAGCCCGTGGTCTGCGTGATGTCCGAACAGCCTGC
ACCTCCGGGCCCCAGTTCCTGCAGAACCTCCTGCTTCCCCAGGCCAAGAGGGGCAGCCTCCCAACCCCTCATGAT
GACCACTTTGGCACTTCGTACCAGCAGTGGCTGAGCTCAGTGGAGACGCTGCTGACAAACCACCCCCCAGGCCAC
GTCCTGGCTGCCTTGGAGCACCTGGCTGCAGAGCGGGAGGCAGAGATTCGGTCCCTGTGCACTGGGGATGGGCTT
GGCGACACAGAGATATCCAGACCCAGGCCCGGACCAGTCAGACTCCAGCCAGACCCTGCCGTCCATGGTTCAT
CTCATCCAGGAGGGCTGGCGGACTGTGGGTGTGCTGGTCTCCCAGCGGAGCACCTCCTGAAGGAGCGGCAAGTC
TTGACCCAGCGCCTCCAGGGCCTGGTGGAGGAGGTGGAGAGACGCGTCTGGGATCCAGTGAGAGGCAGGTGCTG
ATACTGGGGCTTCGGCGCTGTTCCTGTGGACGGAGCTCAAGGCCCTGCACGATCAGAGCCAGGAGCTGCAGGAT
GCAGCTGGGCATCGGCAGCTCCTGCTGAGGGAGCTACAGGCCAAACAGCAGCGGATCCTGCACTGGCGCCAGCTG
GTGGAGGAGACCCAGGAACAGGTCCGCCTGCTCATCAAGGGAAACTCGGCCAGCAAGACCCGCTGTGCCGGAGC
CCGGGGGAGGTGCTAGCTCTGGTCCAGCGAAAGGTGGTCCCTACATTTGAGGCAGTGGCACACAGAGCCGGGAG
CTGCTGCGCTGTCTGGAGGAGGAAGTCCGGCATTTCGCCCCACATTCCTGTTGGGCACGCTGCTGCGGCACAGGCCG
GGAGAGTTGAAGCCCCCTGCCACGGTCTCCTCCATCCATCCACCAGCTGCACCCCGCGTCCCCAAGGGGCTCCAGC
TTCATAGCGCTGAGCCACAAGCTGGGGCTGCCTCCAGGGAAGGCCTCGGAGCTGCTCCTGCCGGCGGTGCCTCT
CTTCGCCAGGACCTTCTGCTCCTGCAGGACCAGCGGAGCCTCTGGTGTGGGATCTACTCCACATGAAGACCAGC
CTGCCGCCAGGCCTTCCACCCAGGAGCTGCTGCAGATCCAGGCATCCAGGAAAACAGCAGAAAAGAGAACCCTG
GGGCAGGCTCTGAAGAGGCTGGAGAAGCTACTGAAACAGGCCTGGAGCGAATCCCTGAGCTGCAGGGGATCGTG
GGGGACTGGTGGGAGCAGCCAGGCCAGGCCCGCCCTCTCTGAGGAGCTCTGCCAGGGCCTGTCCCTGCCCCAGTGG
CGGCTGCGCTGGGTTCAGGCCCAGGGGGCCCTGCAGAAGCTGTGCAGCTGAAGAGAGGGTTCAAACGGAAGCCGA
GAACTTGACACTGTTACCCCCAACACCTCACCTCCCCAGGACATTTGGAAGAAAGCAGCGCCAGGATTCCTCGG
CAGTCGTCCCCACCCGCACCTGCAGTCCCTCATGTGCTGTTCTGCTGCCCCACTCAGCTCCTGGACCCTGTCTCT
TTCATCCCGCTAAAGCACCCCTAAAACCCCTTCATCACTTTCATTCTCAGCAAAAAGTAATTGAGCACCTCCTC
TAGGCGCTGGGGAGTCCACACTGAACAAAAGAAACAGAAAACCCTGTCTTCCAGCAGTTGAGTTCTAGGGCAGGG
AGACAGAGTTTACAAGATAAGGAAAATATATATGTAGTATGCTGCAAGTTAACTGCTGTGTGGGAAATCCAGCAG
GGGGTGGGATGTGTGATTGAATTGAGGGCCACACTGCCAGGTCTGCTCCGTCAAGGGGTGAGCAGGAGCAAC
AGGGGTGGCTGAGTAAGGGCTTGCAGCTGGAGGCAACAGCACATGCAAAGGCCCTGAGCCAGGATGTGCTGCAAT
AAGGGCCACTGAGGGGGACAGTGTAGGTGGGGGTGAGGAATGTATTAAAAGATGAGATTGCCTTCTAGTTTGT
TAGTTTCTTTTTTTTACATGTAAATCAGCCATTTGGAATTTATCCTAGCACATGGATCCAATTTTGTCTTATTTTA
CATATATCCTAGTAGCACTTACTGAAATTCACAGTCAGAGTGGCAGTTGCCTCTGAGGGAAGGTGGGTGGCAGGG
ATCAACTGAGGAGGAGACACAGAAATGTCCTAGCTGATGGGAATGTGCTGTGTCAAGAGCAGCGGCGGTGACGCA
GGTGTAGAGATTTGTGAGAGCTCATGTAGTTGTAGTCTTAAGGCCTGTGCATTTCACTGCGTGGGTACTCAATT
TATAAAGCAAAGCCCTTACACTTTTGAGATGCCACCTTTTTATGCACTAAATTTCCATGTTTAAATTGGGTTATAT
CTGGCTTCTCTCCAGACCTGCTTTGTATTTAACTCTCCATGTGTCAATTCCTACAGTAGCTTAATAGAAAAGGCTTG
TGACACATTGTTCATATCTGTTCTTGTCTTTTCTT
TGCCCAAGTTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCCGCCTCCAGGTTCAAGCCATTCTCATG
CCTCAGCTTCCCCAGTAGCTAGGATTACAGGTACGCACCACCACGCCAGCTCATTTTTTGTACTTTTAGTAGGGA
CGGGGTTTTTCATCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCCCTCCAAA
GTGCTGGGATTACAGGCATGAGCCACCGCGCCTGACCACATTGCCATATCTGAAATGGCTGGATTCTCTTAGGTG
CTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
AACTCAGCTCACTGCAACCTCTGCCTCCTGGATTCAAACAATTCTCATGTCTCAGCCTCCTGAATAGCTGGGATT
ACAGGCACCCACCACCATATCTGGCTAATATTTGTATTTTTTGTAGAGTCGGAGCTTTACCATGTTGGTCAGGCT

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FIGURE 5391B

GCTCTCCAACCTCCTGGCCTCAAGTGATTCTATCGCCTCTGCCTCCCAAATCTTCACCTGCTGGGATTAGTTTCCC
CTGTCTCAGTAAATTTTTTTTTCCCAAACCTAAGTGAACATTAGATTTAATTTGGCTGGCCCCAGAAGAAAAACATG
CACAGATGGTAGTTTTTACTGGTGTTCAGTAAGTTTTCAAATTTGGAAGTTTGGCAGCTTTATGATCTTGAACCT
TGCTGTCCATCTCTCACACAACCTCCTCTCTTGGCCTCCAGAGTCCCTTTACTCTCCCAGCTTTCCTCCTGCCCCCT
GGCTGCTGTTTTCCCAGCCTTTCCACATTGGCTTTCCCATGTAGTCCTTAGTGTGTCTGCTCCTCCTCTCTCTCCT
CATCACAGTTCCCAGCCCCCACCTTCAACTGAACTCAACAAAATCTTCAACTTCATACAGTAGTCACATTGTTAG
TAATAACACTGGCATTTTTTATTTTGATAAAATAGACCGTTTTAAATTTTTGAGATTCTACCTTATATTTTTTGAAT
TATATACTAAAGCAAATAAGTAGTGATGTAATGTCATTGGGGACCAAGATTTTTAGTGTAATGAAAAAGATAA
CAAATATAAACTCAAGTAAACACCCTGTAGTCTTTCACATGAATTGGAAATATCAGAATAAAGTCATGATTTTTTC
TCTTTCT

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FIGURE 5392

MELAQEARELGCVAVEEMGVPVAARAPESTLRRLCLGQGADIWAYILQHVHSQRTVKKIRGNLLWYGHQDSPQVR
RKLELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQDTQRRALLLRAQAGAMRRQOHTLRDPMQRL
QNQLRRLQDMERKAKVDVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLLLPQAKRGS LPTPHDDHFGTSYQ
QWLSSVETLLTNHPPGHVLAALAEHLAAERAEIRSLCSGDGLGDTESISRPQAPDQSDSSQTLPSMVHLIQEGWRT
VGVLVSQRSTLLKERQVLTQRLQGLVEEVERVLGSSERQVLIILGLRRCCLWTELKALHDQSQELQDAAGHRQLL
LRELQAKQQRILHWRQLVEETQEQRLLIKGNSASKTRLCRSPGEVLALVQRKVPTFEAVAPQSRELLRCLEEE
VRHLPHILLGTLRHRPGELKPLPTVLPSIHQLHPASPRGSSFIALSHKLGLPPGKASELLLPAAASLRQDLLLL
QDQRLWCWDLHMKTS LPPGLPTQELLQIQASQEKQKENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPG
QAALSEELCQGLSLPQWRLRWVQAQGALQKLCS

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FIGURE 5393

GGCACGAGGGCCCTGGCCGTGGCGAAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCTCGCGATC
CCCGCGCGGGCGGGACCGGGCGGCGCGGCATCATGACCCCTGTTTCACTTCGGGAAGTGTTCGCTCTTGCTACTT
CCCCTACTTCATCACCTACAAGTGCAGCGGCCTGTCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGAGT
CACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATCTA
TGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCG
GAATGCCGGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCG
CTGCATTCCCCTATGGGTCTGGAGCCCGGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCCAA
CATCAGTCTGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTT
CCGGCCAGCTGTCCTCCTGCTGATGTTCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTCTG
CTCGCTGGGCAGTTGGGCAGCTCTACTGGCCCGAGCAGTGGTAACGGGGCTGCTGGCCCTCAGCACTTTGGCCCT
GTATGTCGCCGTTGTCAATGTGCACTCCTAGGCTTGGTGTCTCAGACATTGATGTACCTTTTCCCTGCCTCGCTC
CAGGTTTTAGTGAAGTAAACAGTATTTGGAAAGTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5394

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVNVHS

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FIGURE 5395

ATGGCCGTTGCCAGCTTGCCTCCGTGCTAGTCGCATCTCAGCAGGATCCCCTCCCAGATTTGGTCCTGGTGCTT
GATGGTCGAGGCCATCTCCTGGGCGCCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTG
GTCGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACAGAAACAAGTGCCCCTACCACTTCCGGGCCCCC
AGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGT
CTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCACAGGCAGCGGCCTTAC
CTGTGGCGTCCATGA

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FIGURE 5396A

AAAAAATAGCCAGGCGTGGTGGCACATGCCTATAATCCCAGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGA
ACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGGTCACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTG
TCTCAAAAAACAAACAAACAAGCAAAAATCAAAAACATTGTTTCAGATCTTATTTTCTATTGACCTAAGAGTTA
TTTAATATAGACTTTTGAATTTTCAGGTAGATTTTACTTGTGTTTCTTTTAATTTTATTATTAATTTCCAGTTTT
AGTAGAAAATGTCTATATAATTTCAACCTTTTTTTTTTGTAACTCCTAGTTTTGTGTCTAGATTTTCAGCTTTTT
AATAGAGACCACCTTATCATAATTGAAAACCTCATCCTGTTTCTCTCTCATACACAACCTCATTTCAGCTTGTAGAT
TTTCTCTGGCTGTTCTGTGCTGGCTTGCCATCCTCTGGCCTACATGTAACGTGACTTCTGTTAGCAAGTCCT
TCACATTTCAGATGACTGCAACAGTTGAACATGCACATTACTTTTTTCCACATTTCTGAGTTACAGGCATATCCTG
TCTTTTTGTGCCATGAATTTTATAAGAACTTCAGTAAGATATAGACGTGTTTTCTGTCCGAAAAATCACTGATA
CACATTTTCTAAAAAACAGGAATGGCCTTGACTATGAGGGAATGGAAAGGAGAAAACCTGAGCAATGGGAGGAA
AGAACAAAACCAGTTGAACATTTGTCAAATGAATGAGTAATAGAATAAGTTGAAGGGAAGATTGAGTAGGTAGAA
CTCCTCAATACCTTTGCTATGGTGTAGAGACAAAGAAAAAGTTACCCATAGCTATGTGAAGGGGCAATGGGCAG
TGCATGCAATAGGTAAAGGCATAAGCAGTGGCAGATGCATAGGAATATACAGCCACCTATTTCCATTCTTGATTT
TAGCTGGGCTGCCCTGGATGAATAAAGAGAATATTTAATCACTGTAGTAAGGCATGAGAGACTAGAGGCAGAGAG
ATACATTTAGAACAAAGTATGTAGCTATGGGAATTAATGAGTAAAACCTATTATATGCTTAGCATTTATTACTTA
ATGTAGCGTTAACTAGGGATTGTTTCTGTCTTGAGGAGGTTTATAGGTAAGAATAGGCAGTATAACAATTGGAG
AAGTTAATAAATATATAATTTTTAAATTGAGAGCTATTATAAAGGCAAGGAATAGAGAATAGCAACATGGATTTA
GGTACTATCAATAGGGTCAACCTTAAAGGAAATGACTTTTTAATCTAAGATCTCAAGATGAAAGGAGCCAGCCATG
CAAAGAGCCCAATCAGGAGATTTGTGGGAGATAGAACAGACTGTGAAGAGTCCTAAGAGATGGAAGTAAGTTAGG
ACATGTGAGGTCTGCAAGGAGGCCTCTCCAGGGAGCAGTAAAGGGGACACTGGTTTTGAGATCATATGATGTAGGT
AAGCAGAGGCCTTCTTAACCACAGTGAGCTTGACTGGATTCTGAGAATGAAGAAAGATGAAAAAATTTAAGTAT
AGATTCTCGACCTCTCATCTTCATCAGAATTATCATGTAGAGAATATTAAATATCCTTCCAGGACTGCAGAGTCT
GATCCAGGTGGTTTTGGGTGGTGTCTAAACCTCAGTGTTAGTAACAAGCTATGTGGTGATTCTGATCCACACCTCA
ATATGAGAACCCTGACTTAAATGTTTACTTCATCACCATCTTGCTATTTTGTATGAACTCTCATTTTTCTCTG
ATGTTCCCTTTGGCTTTTTTTTTTCTTTCCAAATTGTATAACAATATTTTAGAGTTTTGGTTAAGGATTACTTTTG
TTGTCTTTTATTTCTACATTAGAAATGTTGCTTCTTTTAGTAAAAGAAAACAGCATGTGTTTGCTTCTTGTTTT
ATTTTAGATTTGGAGACCAAGTATGAGACCAAGAAGTTATCTTTAGAAAATGACATTTATGAAATAAATTTATCC
CAGTGGAAGATAATGGAAAGAATTGAAAACCATGGCCTTAAGGGTCTCATTTTAAAAAATGATTGGGAATCCACA
GGAAAAATGAAGGACAGGAGAGACCTCAAGAAGGATACTTCAGTAGTGTGAAAATGCCATCTGAAAAGGTGTCC
TCTTACCAGAAACGCACATCTGTTACTCCACATCAGAGACTTCATTTTGTGATAAACCTATGAATGTAAGGAA
TGTGGGAAGGCGTTTCAAGTGCGCCAACAGCTTACTTTTCATCACAGAATTCATACTGGTGAAAAACCGTATGAA
TGTAAGGAATGTGGGATGGCCTTCAGACAGACTGCACACCTTACTCGACATCAGAGACTTCATTCTGGTGAAAA
CTCTATGAATGTAAGGAATGTGGGAAGCTTTTCATATGTGGTGCAGATCTTAGAGTACATCAGAAAATGCATATT
GGTGAGAAGCCCTATGAATGTAAAGAATGTGGGAAGGCTTTTAGGGTACGAGGACAACCTTACTCTGCATCAGAGG
ATTCTACTGGTGAGAAACCTATGTGTGTAAAGAGTGTGGAAAAGCCTTTAGACAGTACGCACACCTGACTCGG
CATCAGAAAGCTTAATAGTGCTGACAGGCTCTATGAATGCAAAGAATGTGGGAAGGCCTTTTTGTGTGGCTCTGGT
CTTAGAGTACATCACAACTTCATACTGGTGAGAAACCTATGAATGTAAGGAATGCGGGAAGGCCTTTAGAGTG
CGACAACAACCTAACACTCCATCAGAGAATTCATACTGGTGAGAAACCTATGAATGTAAGGAATGTGGAAAGACC
TTTAGCCGTGGTTATCATCTTATTCTCCATCACAGAATTCATACTGGTGAAAAACCTTACGAATGTAAGGAATGC
TGGAAAAGCCTTTAGTCGCTACTCACAACTTATTTTCACATCAGAGTATTCATATTGGTGTAAAGCCCTATGACTGT
AAGGAATGCGGGAAGGCCTTCAGACTACTTTTCAAACTCACACAGCATCAGAGTATTCATATTGGTGAGAAACCT
TATAAATGTAAGGAATGTGGCAAGGCCTTTAGATTGCGCCAAAACTTACTCTACATCAGAGCATTCTACTGGC
GAAAAACCTTTGAGTGTAAGGAATGTAGGAAGGCCTTTAGACTTAATTCATCCCTTATTCAACATCTGAGAATT
CATTCTGGTGAGAAACCTATGAATGTAAGGAATGTAAGAAGGCCTTTAGGCAACATTCACACCTTACTCATCAT
CTGAAAATTCATAATGTAAAAATCTAAGAAAGTCTTTTCAACTTCTGTGTTATAGAACATTCTATGAATGTAGTA
ATTAATCTATTTTGTCTCCATACATGCAACTGCGTTGGCATTAGAGGTTTTATACCATTAAAGAGTGTGACAATG
TATTGTAGTCCATCATCACTCAAACCTGAAACTTCAGCATATTTGTTCTAAAACTAATCCTGTTATAAGAATGA
AAAAGACATTTACCGTCATCCCTATCCCATCACTTTGTGTCTACTGGACAAGACGCTTAAGTCTGTGTCTAT

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FIGURE 5396B

AATTTTTTAATTTATGACATGGTCATATAAGAGTGCAGCAGTTTGACACACTTTCAATCAAGAGGTGGAATCTAC
ATCCCTCTGTTGTATACAGGAATCTACATCCCTCTGTGACTGCTTCGCCCAGTAGAATATGGTAGACGTACTGCT
GTGCTGGTTTCTTGACTCAGACTTTACTGGTAGGGTTACTTCATCTCATGAAATGACAGAAGTGTCTTGTTACAA
AGTCTGGCTACTTTGCTGAAGAGACCACATGAAGAGGCCCTGAACTACGTAGAGAGGGAGAGGCACCTGCTGAA
CCCTGTCTTCTTGACATCCACCAAGATAACCAGACATTTGAGTGAAATTTTGGATCCACCAGACCAGCCACCAGCT
AAATGCCAGTGAGCGACTTGGTAACCTGAACTGATGCCATGTAGAATGGAAGAATTGACCAGCTGAGCCCCTGGC
CCAAATTTCTGACCCACAAAACATGAGATATAATAAAATGGTTGTTGTTTTAAGCCACTAAACTTTCTTTTATT
ATCATACTAAATATTTATTTTACATAATTCATACTAAAGGCTGTGGGCATAATGAGTATAGAAATGCCTTCCAC
CAACATTTAATCTTCATTGAACTTGAGATATCTTATTCTCGTTAAAATATTGAAAGTAAGGAATTCCTTTCCAGT
TTGTTTCATTAAAAACAGATACCCTAGACCAGGTGAGGTGGCCCATGCCTGTAAATCCAGCACTTTGGGAGGCCA
AGTAAGGACGATTGCTTGAGGCCAGAAGTTTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTCTACCAAAA
AACTTTAAAAATTAGCTGGGCATAATGGTGCATGCCTGTAGTCCTAGCTACTCGAGGCTGAGGTGGGAGGATCAT
TTGAACCCCAAGAGTTGAGGCTTCAGTGAGCTGTGATTGTACCACTGCACTCCAGCTTGAGTGACTGCAAGACCCT
GTCTCAAAAAAAAAAAAAAATAACAATCAGTATTCTCTGGCCCCAGTCAATATTAATAAATTGACAAAGGATAACA
TGAAACTTTGGAAATTAAGTACCTGTATTATGAAGCCCCATTAATTTTTTAACTACTTCATTGTTTTTTAA
AAATGCTAAATTGTCAATTTAGCATTTTGAGGCAATCCCTCAAATTGGCTCCTGTGTCTTTTATCATGACCAC
TCCAACCTTTGAGCTTTTTTTTTTCTGAACCAATGCATTGATTAGTTATGGAGCATACTAGAGCATTATTAAC
AAATAAAGGAAAAGAATGGAATATTTACCTTGCCTATCCTTTACAACTATATTTCAAGACAACCAAAAGTTGGT
GAAGGAAAGTTGTTGATTAGAGAATTCCAACCTGGTTAAAGGTCAAAGGAGGCCAGGCGCGGTGGCTCAAGCCTG
TAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGTGAGGTCAGGAGATCAAGACCATCCTGGCTAACACGG
TGAAACCCCATCTCTACTAAAAATACAAAAAATCGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCAGGAGAATGGCTTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTC
CAGCCTGGGTGACAGACCGAGACTCTGTCTCAACAAAAACAAAAACAAAAACAAAGATCAAATGAATG
ATAGAATTTGAAAACCTACGCTCTTTAATTTTACAAAATCATGGATTTTCGTGGTGATAGCAATGGATGCGAAGAC
CATTAGGTGAAAAATGGATAGGAAGCTTATAATGCATGGAGCAGAATGACAGGACACTAATCTATATTAACATCT
CTAAATGAGATCAGCCAGATGAACTTGATGTGATGAAATGGATACACACAGTGGACACCTGTGAAGTTTTCTTGG
CTCCCCAAAACCTGAGAAGTACAAGTTAGTCTCCAAACCTAATTACCAGTTTACAGGAAACATGGGGAATAAAG
AACAAATTAACAACACAAAGAAGCAAACAACCAATGCACAATTTGGGAAATTCTGCAGAAGTAATGGCCTAGTT
TTTTAACCAATACATGTC

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FIGURE 5397

MLLLLVKENS MC LL SCFI LDLETKYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKNDWESTGKIEGQER
PQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLHFVDKPYECKEKGKAFRVRQQLTFHHRIHTGEKPYECKEKGMAF
RQTAHLTRHQRLHSGEKLYECKEKGAFICGADLRVHQMHIGEKPYECKEKGKAFRVRGQLTLHQRIHTGEKPY
VCKECKGKAFRQYAHLTRHQKLNSADRLYECKEKGKAFLCGSLRVHHKLHTGEKPYECKEKGKAFRVRQQLTLHQ
RIHTGEKPYECKEKGKTF SRGYHLILHHRIHTGEKPYECKEKGKAFSRYSQLISHQSIHIGVKPYDCKECKGKAFR
LLSQLTQHQS IHIGEKPYKCKECKGKAFRLRQKLT LHQSIHTGEKPFECKEKGKAFRLNSSLIQHRLRIHSGEKPYE
CKECKKAFRQHS HLTHHLKIHN VKI

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FIGURE 5398

TGGATGGTGAACCCCTGATTCTGAAGTCGGTGTCTGCTGTGTTCATGGCAGGATTTCGGTTAGGAGGAACAGCACAG
CATGCTGGGCTCTGGATTAAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACTATT
GGAGGAAAAAAAAAAAAACAGAACTGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAA
GATGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAG
CTGTACTGTGATCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAAGTAGATTCTGGTCTGGCTGAA
TCTGTGTCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAG
CTCTGTGCCAAGTATAGCAAGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGTGAATGACAGTTTA
AGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGTCCTCTGTGGCCTTTTGCTCTGAGTGCTGTTTCCCTTGTAC
CAGAGGGCAGCACCATGGAAATCTGTTTTTCCTGTAGCATATTGT

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FIGURE 5399

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATGAGGTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTCAG
CCCAGAGCCGGGGCTATGGGGCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCACGCCCCATG
CAGCCTTCCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTTCATCACCTACGTTTTGG
TGGCTGGTCTTGCGCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGTCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGTGGGCTGGTGCTGCGTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGC GGTGAGCGCGCCCCGCTGA
ACCTCCCGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT
CCACCCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCCAGCCCCGCCCCCAACCCAAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCTGATGGGCATGG

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FIGURE 5400

MRFARSPLEILGPQLLLTLFPCSLEAEDPCVPAGHGDPHQLFDDTSSAQSRGYGAQRAPGGLSYPAASETPHAAF
LADEVSNMAMAYGSSSLAAQGKELVDKNIDRFIPITKLKYYFAVD TMYVGRKLGLLFFPYLHQDWEVQYQQDTPVA
PRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFSPDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTTIDL
VAF LGYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAV
AAAQPMLMYWLT FHLVR

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FIGURE 5401

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGC**ATGTA**
CGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCGACTCAA
GCTAGTTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCCG
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCCA
GCTCAAATGCTACTACTTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCCTCAA
CCTCCTCTTCCTGCTGTCCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCCTGGGCCCCAACAATACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCT**TGA**CCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

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FIGURE 5402

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLELNFLPTTGKLTQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 5403A

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCGCCCCAGCCCTCCCGCCCAGCCCG
CAGCCCCCTCCCTCTGTTCCCGACCTCAGACCCTGGGCTTCCGACCTCGACATCATGGGTGACGCAGAAGGCGA
AGACGAGGTCCAGTTCCCTGCGGACGGACGATGAGGTGGTCTGCAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCCGAGGGCTTCGGCAACCGCCTGTGCTTCCCTGGAGCCCACTAGCAACGCGCAGAAATGT
GCCCCCGATCTGGCCATCTGTTGCTTCGTCCCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC
TAACACGGTGGAGGCTGGCGTGGAGTCATCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGCATGTATCTGAGCTGCCTCACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGCTGGTGGACCATGCACCCAGCCTCCAAGCAGAGGTG
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCCTTGTCAGTGTCTCCTCCGAGCGCTACCTGCACCTGTC
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCCCTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
CTGCGAAGAGGGCTTCGTGACGGGAGGTACGTCCTCCGCCTCTTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCTGCTGACAGTATGACAGCGCAGACTTGCTACTATGAGGGGGAGCTGTGTGCACTCATGCCCGCTC
CCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCACTACCGGGCAGTACCTAGCGCTCACCAGGAGCAGGGCCTGGTGGTGGTTGACGCCAGCAAGGCTCA
CACCAAGGCTACCTCCTTCTGCTTCCGCATCTCCAAGGAGAAGCTGGATGTGGCCCCCAAGCGGGATGTGGAGGG
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGCAGCATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGGCGTGTCTAAGAAGAAGGCCATGCTGCACCAGGAGGGCCA
CATGGACGACGCACTGTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCCCGCATGATCCACAGCACCAA
TGGCCTATACAACCAGTTCATCAAGAGCCTGGACAGCTTCAGCGGAAGCCACGGGGCTCGGGGCCACCCGCTGG
CACGGCGCTGCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACGACGAGGAGAAGCAGAGCAAGCTGCGAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGGAGGGGAT
GCTCTCCATGGTCTGAATTGCATAGACCGCCTAAATGTCTACACCACTGCTGCCCACTTTGCTGAGTTTGCAGG
GGAGGAGGCAGCCGAGTCTTGAAAGAGATTGTGAATCTTCTCTATGAACTCCTAGCTTCTCTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGAGCTGGCTGGTCAGCAAGCTGGATCGGCTGGAGGCCTCGTC
TGGCATCCTGGAGGTCTGTACTGTGTCTCATTGAGAGTCCAGAGGTTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCTTGACGTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTTGCTGCCTGGCCGTGAGCTTCTGCT
GCAGACAAACCTCATCAACTATGTCAACGACATCCGCCCCAACATCTTTGTGGGCCGAGCGGAAGGCACCACGCA
GTACAGCAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG
GGTGGGCTGGGCCCTCACCGAGGGCTACACCCCTACCCTGGGGCCGGCGAGGGCTGGGGCGGCAACGGGGTTCGG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACACGTGGCACGCCCAGTGACTTCCCC
AGGGCAGCACCTCCTGGCCCCGTAAGACGTGATCAGCTGCTGCCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCCGTGCAGGGTGTCTTTGAGTCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTCAGCTT
CTCGGCTGGTGTCAAGGTGCGGTTCTCCTTGGTGGCCGCCATGGTGAATTCAAGTTCTGCCCCACCTGGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCCCTCACCTGGTGGGCCCCAGTCGCTGCCTCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCCAGATTGTCTGCGCCCCATCTGGAGCGCATTCGGGAGAAGCTGGCGGAGAACATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCGGTTTCGGGATGACAACAAGAGGCTGCACCCGTGTCTTGT
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAACTACAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGGCGGAGGACAACCTGAAGAAGACAAAACCTCCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGCGGCTGACGCCGGCGCAGACGAC
ACTGGTGGACCGTCTGGCAGAAAATGGGCACAACGTGTGGGCCCCGAGACCGCGTGGGCCAGGGCTGGAGCTACAG
CGCAGTGCAGGACATCCAGCGCGCCGAAACCTCGGCTGGTGCCCTACCGCCTGCTGGATGAAGCCACCAAGCG
CAGCAACCGGGACAGCCTCTGCCAGGCCGTGCGCACCTCCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGGTGC GCATCTTCCGGGCAGAGAAATCCTATACAGT
GCAGAGCGGCCGCTGGTACTTCGAGTTTGAAGCAGTCACCACAGGCGAGATGCGCGTGGGCTGGGGCAGGCCCCGA
GCTGAGGCCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGGCCAGCGCTGGCA
CTTGGGCAGTGAACCATTGGGGCGCCCTGGCAGCCGGGCGATGTGCTTGGCTGTATGATCGACCTCACAGAGAA

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FIGURE 5403B

CACCATTATCTTCACCCTCAATGGCGAGGTCCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCCTGCCCCTCTGCAGCTTGGGACCTGGCCAGGTGGGTTCATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCCC
AGTCACCACCTGGTTTCAGCAAAGGCCTGCCCCAGTTTGGAGCCAGTGCCCTTGAACACCCTCACTATGAGGTATC
CCGAGTGGACGGCACTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCGAAGACAGCCT
GGTGGAGATGCTTTTCTGCGCTGAGCCTCCAGTCCAGTTCACCAGCACTTCCGCTGCACTGCAGGGGCCAC
CCCGCTGGCACCTCCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCGGGCGGCGGAACCCGACCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGGCTGGAGCGAGGCAGAGAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCCCGCCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTGCGCATGATGACCCAGCCACCGGCCACCCCCACGCT
GCCCCGACTCCCTCACGACGTGGTGCCTGCAGACAACCGCGATGACCCGAGATCATCTCAACACCACCACGTA
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCCAGCTGCGTGTGGGCGGGCTGGGTACCCCTGACTACCA
TCAGCACGACATGAGCTTCGACCTCAGCAAGGTCCGGGTCTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCCGGGCAGCAGGGCCG
GATCAGCCACACGGACCTTGTCATTGGGTGCCTGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTTCCAGGTGGAACCCAACACTAAGCTATTTCTGCGCTCTTCGTCTGCCCACCCA
CCAGAACGTCATCCAGTTTGGAGTGGGGAAGCAGAAGAACATCATGCCGTTGTGAGCGCCATGTTCCAAAGCGA
GCGCAAGAACC CGGCCCGCAGTGCCCACCGCGCTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCCAACCACTTCTGTCAGGTGGAGACGAGGCGTGCCGGCGAGCGGCTGGGCTGGGCGCTGTCAGTGCCAGGAGCC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACC GGTTGCATGGACATCCTGGAGCTGTGCGGAGCGCCTGGA
CCTGCAGCGCTTCCACTCGCACACCCTGCGCCTCTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGCAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCCACTGCG
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCTGCCGAGCCGCCGCTCCATGCTCTCTGA
ATACATCGTGCCCTCACGCTGAGACCCGCGCCATCACGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA
CCCCCGCATGGCCTGCCGGGAGTTGGAGTACCACTTCGCTGAGGCCCCCGCATCATTTCTCGCCCCCTGTTT
CGTGGCCGCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCGGCCCGCCTCAGCCCTGCCATCCCGCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGGAGGCGGTGCGCGACGGTGGGCAGCACGCTCGCGACCCCGTCGGGG
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCCTGCTGGTGATGGGCATCTTTGGCGATGA
GGATGTGAAACAGATCTTGAAGATGATTGAGCCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAACAGCACAGGAAAAGGAAGATGAGGA
AAAAGAGGAAGAGGAGGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGGAGGAAGGGCTGCTCCAGATGAAGTTGCC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACCAGCGGAGCCGCTATGGCCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTTCCGCTCCCCACCCAGGAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTGACAGGATTTGCT
TGACTTTCATCAAGACCTGCTGGCACACTGTGGAATTCAGCTAGATGGAGAGGAGGAGGAACCAGAGGAAGAGAC
CACCTTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAAGTGC GGCTGGTGAAGAAGAAGGAAGAGAAACCTGAGGA
GGAGCGGTGAGCAGAGGAGAGCAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGC GCTGGGCCCCA
AGAGGACTTCGTGCAGAGCCCCGAGCTGGTGC GG GGCATGTTTCAGCCTCCTGCACCGGCAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACACCATCTCACCGTCCCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCTCGGCCAGATCCGCTCGCTGCTCATCGTGCAGATGGGCCCCCAGGAGGAGAACCTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT
CATGGAGGTGATGGTCAACGTCCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCCAAGATGGTGACAAGCTG
CTGCCGCTTCCCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACACGCGCTCCATGTTTTGACCACCTGAGCTACCT
GCTGGAGAACAGTGGCATCGGCCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGCTGCTGCCTCCGTCAATTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTTGCTGTCTTCGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGC GGCTGCT

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FIGURE 5403C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCCTGCGAGGGATGGCCCAGGCATCCGCAGGGACCGGCGGCGGAGCACTTTGG
TGAGGAACCGCCTGAAGAAAACCGGGTGCACCTGGGACACGCCATCATGTCTTCTATGCCGCCCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTGCCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATTCCCAACCTGGGCAAAGA
TGGGGCTCTGGTGCAGCCAAAGATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCCTGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGACGTGGGGTTCTTGCCCGACATGAGGGC
AGCCGCCCTCGCTGGACACGGCCACTTTTCAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCTGGC
CGTGCTGCCGCTCATCACCAGTGTGCGCCGCTCTTTGCGGGCACAGAACACCGCGCCATCATGGTGGACTIONTAT
GCTGCATACCGTGTACCGCCTGTCTCGGGGTCGTTGCTCACCAAGGCGCAGCGTGACGTATCGAGGACTGCCT
CATGTGCTCTGTCAGGTACATCCGCCCGTCGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTGACGTGCCCAT
CCTCAACGAGTTCGCCAAGATGCCACTCAAGCTCCTCACCAACCACTATGAGCGCTGTTGGAAGTACTACTGCCT
ACCCACGGGCTGGGCCAACTTCGGGGTCACCTCAGAGGAGGAGCTGCACCTCACACGGAACTCTTCTGGGGCAT
CTTTGACTCTCTGGCCCATAGAATAACGACCCGGAGCTGTACCGCATGGCCATGCCTTGTCTGTGCGCCATTGC
CGGGGCTCTGCCCCCGACTATGTGGATGCCTCATACTCATCTAAGGCAGAGAAAAAGGCCACAGTGGATGCTGA
AGGCAACTTTGATCCCCGGCCTGTGGAGACCCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTGCGGAGTACACACAGAGAAGTGGGCCTTCGACAAGATCCAGAACAAGTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG
GCCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA
GAAGACGGAAAAAGAAAAAACGCGGAAGATATCACAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCCTGTCCCGGAGCTGCAGGCCATGGCAGAACAAGTGGCAGAAAAATTA
CCACAACACGTGGGGACGGAAGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGCTGGTCCC
CTACGACACGCTCACGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGGTTACAAGAGGCCTTAAGGACATGGAAGTGGACTCGTCTTCCATTGAAAAGCGGTTTGCCTT
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTCATTGCCACCTGGAGGCTGTGGTTCAG
CAGTGGGCGAGTGGAAGTCCCCACATGAACAGGAGATTAAATTCCTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTTCACCAACCACTGCCTCTATTTCTTGCTCCACTCCGGCTAAAGTGCTGGGCAGCGGTGGCCACGCCTC
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAAACCTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTCTT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCCTGGCCCGCTCCCTGGATGCCAGGACAGTGATGAA
GTCAGGCCCTGAGATCGTGAAGGCTGGCCTCCGCTCCTTCGAGAGTGCCTCGGAGGACATCGAGAAGATGGT
GGAGAACCTGCGGCTGGGCAAGGTGTGCGAGGCGCGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGTGCCGTCCTCACCACCCTCTTCCAGCACATCGCCAGCACCAGTTCGGAGATGACGTCAT
CCTGGACGACGTCCAGGTCTCTTGCTACCGAACGCTGTGAGTATCTACTCCCTGGGAACCAAGAACACTTA
TGTGAAAAAGCTTCGGCCAGCCCTCGGGGAGTGCCTGGCCCGTCTGGCAGCAGCCATGCCGGTGGCGTTCTTGG
GCCGACGCTGAACGAGTACAACGCCTGCTCCGTGTACACCACCAAGTCTCCGCGGAGCGGGCCATCCTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCCCGACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCCGCTACACAGAGATGCCGCATGTATCGAGATCACGCTGCCCATGCTATGCAGCTACCTGCC
CCGATGGTGGGAGCGCGGGCCCGAGGACCCCTTCCGCCCTGCCCGCGGCGCCCCCCCCACCCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTGCGACAGCCCATTGTGAGCCGTGCACGGCCGGAGCTCCTGCAGTCCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCCTGGA
GGCCAAGGCGGAGGCCAGGAGGGCGAGCTGCTGGTGCGGGACGAGTTCTCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCAGCGCGGA
GGAGCTGTTTACGATGGTGGGCGAGATCTTCATCTACTGGTCCAAGTCCCACAACCTTCAAGCGCGAGGAGCAGAA
CTTTGTGGTCCAGAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCGGGGGGACCGGTACTCTGTGCAGAC
GTCAGTATCGTGGCCACACTGAAGAAGATGCTGCCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCAGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

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FIGURE 5403D

TCACCTTCAGGGAAAGGTCTGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCTG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTACGCCGTGCTCTACTACCTGGA
CCAGACCGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGGCCTGTTTCCGTATGACGCCCCCTGTACAACCTGCCACGCACCGGGCATGTAACATGTTTCTGGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCCCTGCACCAGTTGGTCTGCACTTCAGCCG
CACTGCCCTGACGGAAAAGAGCAAACCTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGCTGCAGATGAT
CAGTGCCTGCAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAACATGCAGCGTCTGGATCTCAATGCCTTTGAGAGACAGAACAAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTCTCAATCGCCAGAACGGAGAGAAGGTCATGGCGGATGATGAATTCACACAAGA
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCCAGAACTACCTACGGACACAGACAGG
GAACACGACCACTATTAACATCATCATTTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCAATTGAAGAGCAGGGCAAGAGGAACCTTCTCCAAAGCCATGTCGGTGGC
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGGTCCCTGCACCGGAACCAGCAGAGCCTGGCGCACAG
TCGCCTATGGGACGCAGTGGTGGGATTCTGCACGTGTTGCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGCTGAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTATGTTGCTGTGCTACTAGAAGG
GAACGTGGTGAACGGCATGATCGCCCGGCAGATGGTGGACATGCTCGTGAATCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCTTCGACATGTTCTGAAACTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCCGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTTCAGCGGTCCAGAAAT
CCAGTTCCTGCTTTCTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTTCGCCAACCGCTTCCA
GGAGCCAGCACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTCGGAGCATGTGCCCATGACCC
TCGCCTGCACAACTTCTGAGCTGGCCGAGAGCATCCTTGAGTACTTCCGCCCTACCTGGGCCGCATCGAGAT
CATGGGCGCGTCACGCCGCATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCAGTGGGAGATGCC
CCAGGTGAAGGAGTCCAAGCGCCAGTTTCATCTTCGACGTGGTGAACGAGGGCGGCGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCAGATCGCCGCGCAGATCTCGGAGCCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGGCGAGGCGGGCGCGGAAGGCGCGGAGGAGGGCGCGGGCGGGCT
CGAGGGCACGGCGGCCACGGCGGGCGGGCGGGGGCGACGGCGCGGGTTGTGGCGGCCGAGGCCGGGCCCTGCGAGG
CCTCAGCTACCGCAGCCTGCGGGCGCGCTGCGGGCGCTGCGGCGGCTTACGGCCCGCAGGGCGGCCACCGCAGT
GGCGGGCGCTGCTCTGGGCAGCAGTGACGCGCGCTGGGGCCGCTGGCGCGGGGGCGGGCGGGCGCGCTGGGCCCT
GCTCTGGGGCTCGCTGTTTCGGCGGGCGGCTGGTGGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCCTGGCAGG
CATGCCCCGACCCACCAGCGACGAGGTGCACGGCGAGCAGCCGGCCGGGCGGGCGGAGACGCAGACGGCGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCCGGGCCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCCCTTCGGGCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCTGCGGAACCGCCACACCCGAGGGCTCTCCCATCCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGTCCCGCCAGAGCCAGAGCCGAGCCGGAACCAGAGCTGGAGCCGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACCAGAGCCCCCAAGAAGCAAGCACCTCCCTCACCCCCCTCC
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAAGTGGAGGTGCAGAGGGTGAAGTTCTGAACTACCTGTC
CCGGAACTTTTACACCTGCGGTTCTTGGCCCTCTTCTTGGCATTTGCCATCAACTTCATCTTGCTGTTTTATAA
GGTCTCAGACTCTCCACCAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTACAGGTGCAGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGGCCGAGAGGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCCTTCT
CTGCATCATTGGCTATAATTGTCTCAAGGTGCCCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCCGAAGCT
GGAGTTTGATGGCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGAGTGGGACCGACTGGTGTCT
CAACACGCCGTCTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCCTGGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCACAATGAGCG

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FIGURE 5403E

CAAGCCCAACCCGCCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG
GGTCATCTTCACAGACAACCTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCCTCTGTAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTCGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTTCTTCCCAGCTGGTGATTGTTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA
AGCCCCCTTAGTCCCCAAGCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

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FIGURE 5404

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCG
TTTCCGTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAGTGTTAGCCTCCAGCCCTG
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCCTGAAGCTGTACCAGTTCAACCCAGCCTTCTTTCAGACCACGGTCACCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCGTGCAAGTGCATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCTGGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACCTCAGGTGTTTAATAAAGATGTGTTGACTCAG

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FIGURE 5405

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAFFQTTVTAQILLKALT
NLPHTDFTLCKCMIDQAHQEERPIRQILYLGDLLETCHFQAFWQALDENMDLLEGITGFEDSVRKFIHVVGITY
QHIDRWLLAEMLGDLSDSQLKVWMSKYGWSADESGQIFICSQEESIKPKNIVEKIDFDSVSSIMASSQ

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FIGURE 5406

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTTGAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5407

MSNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLLCGEEQGSDAALHFNPRLDTSEVVFNSKEQGSWGREER
GPGVPFQRGQPFVLI IASDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGGDVQLDSVRIF

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FIGURE 5408

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCTCTCACTGCCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGTTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCTGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5409

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTTCTGGTGCCGTCACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCC**ATGG**CAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTCCTGCGGAACCTATTCTCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTGCGCAGAGTCATCTGTTTGGTGG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGGCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCCCTTCTTCGCCC
TCGCCAAGGAACTCTATCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG
GGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCCAGCGGTTTCTTCTCCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGAGGTGCAGCCCTTTGCCCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCCCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCCAGTCGGGGGCGG
GGGTCCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAACCC**CAGTGA**CAGCTGCATCTCCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCCCAATCTCTTACAGCTCCCT
CCCCAAA**ACT**GGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCACGGGGCCAGGGCTACCCAGAACTTTTAACTCTTCCAGGACAGGGAGCTTCGGGGCCCCACTCTGTCTC
CTGCCCCCGGGGCTGTGGCTAAGTAAACCATACCTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC
AAAAACA**ACTA**C

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FIGURE 5410

MAEPDPSHPLETQAGKVQEAQDSDSSEGAAGGEADMDFLRNLF SQTLSLGSQKERLLDELTLEGVARYMQSER
CRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHY
FMRLKDKGLLLLRCYTQNIDTLER IAGLEQEDLVEAHGTFYTS HCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQ
SLVKPDIVFFGESLPARFFSCMQSDFLKVDLLLVMGTSLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI
MGLGGGMDFDSKKAYRDVAWLGECDQGCLALAE LLGWKKELEDLVRREHASIDAQSGAGVNPSTSPKKSPPP
AKDEARTTEREKPQ

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FIGURE 5411

CGAAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCCCATTCTG
GTGCCGTACAGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGTGACGGGAC
AGAGCGGTGCGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCGACTCAGATTACAGACTC
TGAGGGAGGAGCCGCTGGTGGAGAAGCAGACATGGACTTCCTGCGGAACTTATTCTCCCAGACGCTCAGCCTGGG
CAGCCAGAAGGAGCGTCTGCTGGACGAGCTGACCTTGGAAGGGGTGGCCCCGGTACATGCAGAGCGAACGCTGTCTG
CAGAGTCATCTGTTTGGTGGGAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGG
CCTCTATGACAAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACA
TCCGGAACCCCTTCTTCGCCCTCGCCAAGGAACCTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCAT
GCGCCTGCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGG
GCTGGAACAGGAGGACTTGGTGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA
CGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCT
GGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCAGCGCGTTTTCTTCTCCTGTATGCAGTCAGACTTCCT
GAAGGTGGACCTCCTCCTGGTCATGGGTACCTCCTTGCAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACC
CCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCTTTCTGGGGATGATTATGGG
CCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGG
CTGCCTGGCCCTTGCTGAGCTCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCAT
AGATGCCCAGTCGGGGGCGGGGTCCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAA
GGACGAGGCCAGGACAACAGAGAGGGAGAAAACCCAGTGAACAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTC
AGGGACAGCTGAGCCCCAACCGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCC
CCAATCTCTTACAGCTCCCTCCCCAAAACCTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACA
CCTCCTAGAGGCCAAGGCTTAAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCCTCCTGGGCTAAGGAGTA
ACCTCCCTCATCTCTAACTGCCCCCACGGGGCCAGGGCTACCCAGAACTTTTAACTCTTCCAGGACAGGGAGCT
TCGGGCCCCCACTCTGTCTCCTGCCCCGGGGGCCTGTGGCTAAGTAAACCATAACCTAACCTACCCAGTGTGGG
TGTGGGCCTCTGAATATAACCCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC
AGCTCCCAAAGTGGGTGGTGGGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTT
ATTGGAGACAAATTAAAAACAAAACAACCTAACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5412

MDFLRNLF SQTLSLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHL
PYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLLRCTQNIIDTLERLIGLEQEDLVEAH
GTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLLVMGT
SLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMIMGLGGGMDFDSSKAYRDVAWLGECDQGCLALAEELGW
KKELEDLVRREHASIDAQSGAGVNPSTSSASPKKSPPPAKDEARTTEREKPQ

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FIGURE 5413

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCTCAGGATCTGATTG
GCTCGTCACGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTC
CCGGTCCAAG**ATG**GCTGCGTCCATGGCGCGGCGCTTGTTGGCCTTTGCTGACTCGTCGGGGGTTCCGGCCCCGGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCCAGAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTACCTGTACCCAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCAA
CCAGACCCACCCAGACGTGCCCGTCGGGGATGAGAGCCAGGCTCGAGTGCTCCACATGGTCGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAGAACTCGACATCATCCGTGAGAAGCGCCTGTCCCA
CGTGTCTGGCCACCGGTCTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTACCCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTTTGAAGGCTG
TGGGATGACACCAAATGCCAACCCATCCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGC
TGGAACAGCGGAGGTGGGGCTTGACAGGCTACTTCATGGACCACACCGTGCCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCCT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTTGATATGCCACCCAAGAACTGGG
CCTCCCCGCCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTACCCAGTGC
TTCCAAGTGCACAGACTTCCAGAGCCGCCCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCCGCCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCCCTACCTCGGCACTGATCGGATCACAGCCCCCTACCCACGTGCC
TCTCCAGTACATCGGCCCCAACCCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAGCT**TAA**GAACCCAC
CCACAGCAGCCCTCGGGGGTGTCAGTGCTTCCCTGGAGTTCAGGAGACCCCGGACACCTGGGACCTGTGTTGCTGA
GCCCCGTCTGACATCTGTGTTCTTCTGTCAGCTCCACGCCCGGGCCCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCCTTGCTGCCTCAGAGTCAGTCACTGACCCTGTTATCATTGAGGGTCCAGTGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCCAATAAATGGTCAGGACAAAAAAAAAAAAA

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FIGURE 5414

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLYEYAREGYSALPQLDIERFCACPEEAAHALE
LRKGELRSADLPAAIISTWQELRQLQEQIRSLEEEKAAVTEAVRALLANQDSGEVQQDPKYQGLRARGREIRKELV
HLYPREAQLEEQFYLQALKLPNQTHPDVPVGDESQARVLHMGDKPVFSFQPRGHLEIGEKLDIIRQKRLSHVSG
HRSYYLRGAGALLQHGLVNFTFNKLLRRGFTPMTVPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA
EVGLAGYFMDHTVAFRDLPVRMVCSSCYRAETNTGQEPRGLYRVHHFTKVEMFGVTGPGLEQSSQLLEEFSLQ
MEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMEGRGRFGEVTSASNCTDFQSRRLHIMFQTEAGELQFAHTV
NATACAVPRLLIALLESNQKDGSVLVPPALQSYLGTDRITAPTHVPLQYIGPNQPRKPGLPQPAVS

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FIGURE 5415

AGCTGGATTTCAGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCAGTTCTTCTGCGTGC GGCGAGAGTGGTTGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTGCGGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCCTACCACAGGGACGGCCCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCTAACTTGTGGCCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGGCCGCCTCGGAAGCTGGGCCCCACGGAAGGCCGGCCGCAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAGCCCCAACTCAGCCAATCGCAAGTGCTGTGCGAGTGC GGCTCAGCA
CTGGCCGCGAGGCCGTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCACCCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGA CGGCTGGGGGCACAGTGGGCTGGGCGCCCCTGCAGAACATGAACCTTCGCTCCTGGCTGCCACAGG
GTCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCTCTTCCATC
AGGACCACTATTAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGGCCCTCTGTCAACACCCTTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5416

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHRLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVRGKYDCGHVQKK

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FIGURE 5417

AGCTGGATTTCAGCGTGTCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCAGTTCTTCTGCGTGC GGGCGAGAGTGGTTGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGGACGGC
CCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACACGTCCCTAACTTGTGGCCCAGCTCTGGTT
CCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGCACCGCCTGGGGCCCCCAAGCGGCCGCCT
CGGAAGCTGGGCCCCACGGAAGGCCGGCCGAGCTGAAGGGTGTGGTCCTGTGCACGTTTACCCGCAAGCCGAAG
AAGCCCAACTCAGCCAATCGCAAGTGCTGTCGAGTGC GGTCTCAGCACTGGCCGCGAGGCCGTCTGCTTCATCCCT
GGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCTTGTGGAGGGCGGCCGCACCCAGGACCTGCCAGGCGTC
AAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGAAGAAGTGACGGCTGGGGGCACAGTGGGCT
GGGCGCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGGGTCCTCCGATGCTGGCCTTTGCGCCTCTA
GAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCTCTTCCATCAGGACCACTATTAAGCCATAGGAGTCCTG
GGGGTGCAAAGGTGCCCTCTGTCAACACCCTTGGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG
CTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAATAAACAGACCCTGGCGCTTGTGATGTAAAA
AAAAAAAAAAAAAAAAAA

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FIGURE 5418

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHRLGPPKRPPRKLGPTEGRPQLKGVVLCFTFTRKPKKPN
ANRKCCRVRRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5419

GGGGAGCTTGCGGCACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCGGGCCACAGCCGGGCTGGCGG
GGGGACCA**ATG**GGGCGCCTCGGTCTCCAGGGGCCGGGCGCCCGGGTCCCCGCGCCGGAGCCGGAACCGAAGAGGC
GCTGGACCTGAGCCAACTACCCCCAGAGCTGCTTCTGGTGGTGCTGAGCCACGTCCCCCGCGCACGCTGCTCGG
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGGACGGCCAGGCCCTGTGGCTGCTGATCCTGGCCCG
CGACCACGGCGCCACCGGCCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCCCGCGTAACGCCAGGCC
TTGCCCCCTGGGCCGCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTGCAACCCCTGCGGCCAAGAAGG
CCTCCGAAAGTGGATGGTGCAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAACAGGACAACCGTGCCTGGGGC
CCCTTCTCAGACGTGCTTCGTGACTTCATTAGCTGGTGTGCAAGAAGCAGGTCTTGGACCTAGAGGAGGAGGG
TCTGTGGCCAGAAGTGTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCGACACGACAG
CGGTGTATGTACAGACTCCTCGTCCAACCTTAGACGCCAACAGACTGTTCTAGATAAAATCTCTGCTGTGCC
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTACGTACCCACGTGTTCTCCAACATCAAGATGGGCGT
CCGCTTTGTGTCTTTTGAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCGTGTGACCAA
CTCCAGTGTGATCGTGCAGTCCGTCTGTCC**TAG**TCCAGCACTACCCTTCTTGCAAGACAGCCTGACTGTGCCTT
CCAGGGCCTGGGACCATTGGCTGGGACCCCTCATTAACCAACCAAGCACTTGACCTCCCTGGCATACTGAGAAT
TCCTGGGTCCAATCAAAGGCCCTGACGGGGCCCTGTCTTCAGGTTCTAGAACTACCAGAAGAAGCTTCTTCCATC
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAAACCCACAAGTGAGCATGGG
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCCTCTCTTCTCCTCCCAACCAAAAACCTCCGATCCAGCCC
CAGGCCCCCTCTGTACCATCCCCTCCCCTCCGCACCACTGACCTCTTGTCTCCTGTTGTTTCTGCCACAGGGACTT
CCTTGGTCCCTTCAGGGAAGCCCTCAACTCATCTCTGAACCTAGAATCTCATCCTTAGGGCTCAGAGAGTCCCAG
CCCTAAGGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTCATGCAGCTGAAAGTCT
ACGTTAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCA
GGCGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATCCA
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA
GCCCCGGGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACTCCAGCCTGGGCAACACAGCGAGACTCCG
TCTCAAAAAGAAAAAGTTTGGATCAGGCAGGGTGGCTCACACCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGG
GAGGATCAGTTGAGCCCCAGAGTTCAAGACCAGCCTGGGCAATGTAGTAAGACCCCCATCGCTACAAAAAATACA
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTTGTG
CCCAGGTTGAGGCTATAGTGAGCCATGATCATACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTC
AAAAAAAAAAAAAGAATTTGGAGATGGTTCTGCCCACTCTGGTTTCTCTGAAAAAACGAGGTAATCCCTGAGCCC
AACCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTTATTTTGACTTTTTT
TCAAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTTCTTATTTTGCC

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FIGURE 5420

MGASVSRGRAARVPAPEPEPEEALDLSQLPPELLLVVLSHVPPRTLLGRCRQVCRGWALVDGQALWLLILARDH
GATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLIRNPCGQEGLRKWMVQHGGDGWVVEENRTTVPGAPS
QTCFVTSFSWCCKKQVLDLEEEGLWPPELLDSGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSAPVDP
IPQWNNNACLHVTHVFSNIKMGVRFVSFEHRGQDTQFWAGHYGARVTNSSVIVRVRLS

FIGURE 5421

[illegible]

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FIGURE 5422

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIVRGSK
GAKDGALTLLLDEFENMSVTRSNLSLRDSEPPPPARARQENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGD
RRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHP SRGAQGEPH
DVA PNGPSAGGLAIPQSSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVPGPPGPRSPQREPQRVS
HEQFRAALQLVVDPGDPRS YLDNF IKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQH
ENVVEMYNSYLVGDELWVVMFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGV IHRDIKSDSILLTH
DGRVKLSDFGFCAQVSKEVPRRKS LVGTPYWMAPELISR LPYGPEVDIWSLGIMVIEMVDGEPPYFNEPFLKAMK
MIRDNLPPRLKNLHKVSPSLKGFLDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVFLMRQNRTR

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FIGURE 5423

AGTTGGTGGAAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTCACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCCTCGGATCAGGCGTC
CCCTGAAGTCGGCACGCCCCCTCTGCGTCCCCCTTCGGTCCCGCTAGGACCCCGTCCGGGCTGCCGTCGCTCGTC
GCTATGGCGCCCCACCATCCAGACCCAGGCCAGCGGGAGGATGGCCACAGGCCCAATTCACACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCCTTCGACCCCCAAGTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGAGAAACAGCACAAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTTCAGGCCCCCACCAGCTCCAAGAGATCCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCCTGAGGTCAAGATTGGGGTTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC
ACACCGGTGGAGGTTCATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAACTGGAACGTG
AAGAACAAAGCTAGCAAGGGCTATGAGGAAAATACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACCAAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAACATCGGGACATGAATGAGAAGGAACTGGAAGCTCAGGAGGCACGGAAGGCCAGCTAGAAAACCAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCCCGGGCTGCCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTTCAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGGAGCCACAGCCGCAGC
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACTTGAGTCCAGGGCATTTCAGGGCTGGTTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACCTTGTGTTTCCCCACCCCAACCTTTGCTGTTAATAAAGT
CAACTTCTCTTA

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FIGURE 5424

MAPTIQTQAQREDGHRPNSHRTLPERSGVVCRVKYCNSLPDIPFDPKFITYPFDQNRVQYKATSLEKQHKHDLL
TEPDLGVTIDLINPDYRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWMMRKTEYISTEFNRYGISNEK
PEVKIGVSVKQQFTEEEIYKDRDSQITAIEKTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFDS
DPAPKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRQEEEMDYAPDDVYDYKIAREYNWNVK
NKASKGYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLENHE
PEEEEEEMETEEKEAGGSDEEQEKGSSEKEGSEDEHSGSESEREEGDRDEASDKSGSGEDESEDEARAARDK
EEIFGSDADSEDDADSDDEDRGQAQGGSDNDSGSGSNGGGQSRSRSHRSASPFPSGSEHSAQEDGSEAAASDSSE
ADSDSD

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FIGURE 5425

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTACAGGCCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGGCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTCATGCCTGTCTTCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAGTTTGTGGCCTATTTCTGCCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC
GGGAGTACAACCTGGAACGTGAAGAACAAAGCTAGCAAGGGCTATGAGGAAAATAATACTTCATCTTC

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FIGURE 5426

TTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCC**ATG**CCGTCCAAGGGCCCCGCTGCA
GTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAACGCGGCAATGGTCTCATCAA
GGTGAACGGGCGGCCCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCTGGAGCCAGTTCTGCTTCT
CGGCAAGGAGCGATTTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCACGTGGCCCAGATTTATGC
TATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGAT
CAAAGACATCCTCATCCAGTATGACCGGACCCTGCTGGTAGCTGACCCTCGTCGCTGCGAGTCCAAAAAGTTTGG
AGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGA**TAA**GCCCATCGTGACTCAAACTCACTTGTATAAT
AAACAGTTTTTGAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAA

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FIGURE 5427

MPSKGPLQSVQVFGRKKTATAVAHCKRGNGLIKVNRPLEMIEPRTLQYKLLEPVLLLGKERFAGVDIRVRVKGG
GHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLLVADPRRCESKKFGGPGARARYQKSYR

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FIGURE 5428A

AGAGAACAGATTTCGGAACTGGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACCAGCGGGGAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGACTGCTGTCTTTCCAGCAGCAGCGGAAGATGTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGCGG
AGTGCAGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATATGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCCAAGAAACCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACCAGTGGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCCTCCAATATCGATAATGTTGTCTGGATGAAGATCGTTCTGGGGCTCGCCGCCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGCCACGGCCATTTCTTGATGCGCAAGTTCATTGCCTACCAGTTCACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCTACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGGCTACTGGAACCAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACCTGAAACCAAAGTCTGGGTCCGCCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCACGCATCGACTACGATCGCATCAAGGCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGCCCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGATGTTGCCTCTGATGGT
GACTTCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGCTGCTGTG
ATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAAAGTTTGAGGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGACTGAGAGCACAGGGAAGGAGCGGGAGCACAACTTCCAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCCAGCCAGGAACCTTAGAAAATACTTCAAGATGGGGGACCACGTGAAGGTGATT
GCTGGCCGATTTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTTTCGTTATCCTGTTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGCTCCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCAGCATGAATGGGGCGAGCTGGTGACGCTGGATCCCCAGACTGTGGGTGTCATCGTGCGACTAGAACGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGACTGTGACACATCAGGCTGTGACCCGGAAGAAGGACAAC
CGCTTTGCTGTGGCCTTGGACTCAGAGCAGAACAACATCCATGTGAAAGACATCGTTAAGGTCAATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCCCATCTCTTCCGAAGCTTCGCCTTCTTACATTGCAAGAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGCTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGCTGGAGGTCAGCGT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCGGGGCGGAGGGACAACGAACCTCATC
GGCCAGACCGTGCGCATCTCCAGGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACACGGTGGGCTCACGG
CGCCCGGGCGGCATGACCTCGACCTATGGGAGGACGCCCATGTATGGCTCCCAGACGCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG
CCCCTGCATGATGGCAGCCGCACTCCTGCCCAGAGTGGGGCCTGGGACCCCAACAACCCCAACACGCCGTCACGG
GCTGAGGAAGAATATGAGTATGCTTTTCGATGATGAGCCACCCCGTCCCCGCAGGCCTATGGGGGAACCCCAAT
CCCCAAACACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATACAACCCCGCAGACGCCAGGGACG
CCGGCCATGTACAACACAGACCAGTTCTCTCCCTATGCTGCCCCCTCCCCACAAGGTTCTTACCAGCCCAGCCCC
AGCCCCCAGAGCTACCACCAGGTGGCGCCAAGCCCAGCAGGCTACCAGAATACCCACTCCCCAGCCAGCTACCAC
CCTACACCGTCGCCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTTGGCTACAGTCTTATGACACCTGGA
GCTCCCTCCCTGGTGGCTACAACCCACACACGCCAGGCTCAGGCATCGAGCAGAAGTCCAGCGACTGGGTAACC
ACTGACATTCAAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTCATCCGCAGT
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTGAGCATTTCAGTGAGCACCTGGAG
CCTATCACCCCCACCAAGAACAACAAGGTGAAAGTGATCCTGGGCGAGGATCGGGAAGCCACGGGCGTCTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCTTG
GGGAAGCTCCTGGAAGCCTTGAAGCAGGCAGGGCCGGTGGACTTCGTGCGATGAAGAGTGATCCTCCTTCTTCCC
TGGCCCTTGGCTGTGACACAAGATCCTCCTGCAGGGCTAGGCGGATTGTTCTGGATTTCTTTTGTTCCTTT

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FIGURE 5428B

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTTGTTGTACCGTCTTCAATAAAAAGAAGCTGTTTGGTCTAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 5429

MSDSEDSNFSEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEEEEEYDEEEEEEDDDRPPKKPRHGGF
ILDEADVDDYEDEDQWEDGAEDILEKEEIEASNIDNVVLDEDRSGARRLQNLWRDQREEELGEYYMKKYAKSSV
GETVYGGSDLSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIAEQFTDTPLQIKSVVAPEHVKGYI
YVEAYKQTHVKQAIEGVGNLRLGYWNQQMVP IKEMTDVLKVVKEVANLKP KSWVRLKRGYKDDIAQVDYVEPSQ
NTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKS
FAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTSTGKEREHNFQPGDNVEVCEGELINLQGKILSVDGNKITI
MPKHEDLKDMLFPAQELRKYFKMGDHVKVIAGRFEQDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETA
SGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRFVAVALDSEQNNIHVKDIV
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHP
SAGGQRGFGSPGGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRL
TTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGSQTPLDGSRTPHYGSQTPLDGSRTPAQSGAWDPNN
PNTPSRAEEYEAFAFDDEPTPSPQAYGGTPNPQTPGYDPSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQG
SYQPSPPQSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPPSPVGYSPMTPGAPSPGGYNPHTPGSGIEQN
SSDWVTTDIQVKVRDITYLDTQVVGQTGVIRSVTGGMCSVYLKDSEKVVSISSEHLEPITPTKNNKVKVILGEDRE
ATGVLLSIDGEDGIVRMDLDEQLKILNLRLFLGKLLEA

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FIGURE 5430

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCCTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCCCTTCGCTGCGTCCTTTGCAGGGGCGGTGGCGCTCTGCAAGGCCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAAGTTGTCGCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCTCCCCCGCTTTCCATTGGCTGTAGCTCCGGCCCCGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCCGCTGGCGTCAGCGCAAGATGGCGGCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCGCGGGGCCCA
GATCAGGCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGAGCTGGTGGGACTGTGAGCGTCGTCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGATGAGTTGACAATGATCCAATTCTGGTA
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCTT
CTCCAGACCCTCTGCAGGAACCGTACTACCAGCCACCTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCCTGAGTGGTCGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTTGGATCTGTCTGCCCTTCCTCAAG
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCCTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTTGAACTCTGGGCCCTCCTC
AAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTTCCAATAAAGTACA
TCCCAGACGCCACACCTGCTGTGTCCCAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGGTGCTTTGTTGGATCAGAGCAGATTTTTCACCC
TGGTCTCGGAATCTAAAAACCCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACCAGAGATTACCCCTCTCAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAAA

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FIGURE 5431

MASALSIGNKCDPFLRCVLCRGGGALQGPRGRGPDDFESQLSPPGSARRLVRSKRACGNPPDAFGLSRASVHPPL
PRVSI GCSSGPGRAKRERVGGAAWRQRKMAASAAVFSRLRSGRLGSRGLCTRLATPPRRAPDQAAEIGSRGSK
AQGPQQQPGSEGPSYAKKVALWLAGLLGAGGTVSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDY
RQMII EPTSPCLLPDPLQEPYYQPPYTLVLELTGVLLHPEWSLATGWRFKKRPGIETLFQQLAFLYEIVIFTSET
GMTAFPLIDSVDPHGFI SYRLFRDATRYMDGHHVKDISCLNRDPARVVVVDCKKEAFRLQPYNGVALRPWDGNSD
DRVLLDLSAFLKTIALNGVEDVRTVLEHYALEDDPLAAFKQRSRLQEQQRLAELSKSNKQNLFLGSLTSRLW
PRSKQP

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FIGURE 5432

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA
GACACGGCCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGTC
CCCCTGCAGCGCCCGGCTCCCCTGCCGCCTCTTCTTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGC GCGCGGACCGGTCTACACCGAGCAGCCCCGGAGCGCCCCG
GCCTGATCTCCCACTGCCCGACGGGCTCTTG CAGGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTCAI
CATCGAAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCCTGGAGCCTGCTGGCGCGCTGGCTGG
CAGGCGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCCGGGACATTACGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCCTGCCGTGCGGACCGCGTGCACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGCTGCCTCAGCCCCAGGGGCCCGTCTCTGTCTACCACCGGATGCCTTGTCCC
TGGGCCTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCTTTGAATG
CACCTGCCCGCGTGGGTTCTACGGGCTGCGGTGTGAGGTGAGCGGGGTGACATGTGCAGATGGACCCTGCTTCAA
CGGCGGCTTGTGTGTCGGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCACCTGGTTTCCAAGGCTC
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGCTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCGCGAGCGCGCGGACCCGTGCGCCGCGCGCCCCCTGTGCTCACGGCGGCCGCTGCTACGCCCACTT
CTCCGGCCTCGTCTGCGCTTGCCTCCCGGCTACATGGGAGCGCGGTGTGAGTTCCAGTGACCCCCGACGGCGC
AAGCGCCTTGCCCCGCGGCCCGCGGGCCTCAGGCCCGGGGACCCCTCAGCGCTACCTTTTGCCTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCGTGGCCGGCGCTGCGCTCTTGCTGGTCCACGTGCGCCGCCGTGGCCACTCCCAGGA
TGCTGGGTCTCGCTTGCTGGCTGGGACCCCGGAGCCGTGAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGCAGGAGGGTTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGCAGAGGCAGCACCTGCTTTTTTCCCTACCCCTCCTCGATTCTGTCCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGGTTTTAAGCCCATTTTCAGTTCTAACTTACTTTTCATCCTATTTTGCATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTTT

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FIGURE 5433

MVSPRMSGLLSQTVILALIFLPQTRPAGVFELQIHSFGPGPGAPRSPCSARLPCRLFFRVCLKPGLSEEAES
PCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVPFRDAWPGTFSFIIETWREELGDQIGGPAWSLLARVAGR
RLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRERSAPSRGPGLRPCAPLEDECEAPIVCRAGCS
PEHGFCEQPGECCRCLEGWTGPLCTVPVSTSSCLSPRGPSATTGCLVPGPGPCDGNPCANGGSCSETPRSFECTC
PRGFYGLRCEVSGVTCADGPCFNGGLCVGGADPDSAYICHCPPGFQGSNCEKRVDRCSLQPCRNGGLCLDLGHAL
RCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALGFGGRDCRERADPCAARPCAHHGRCYAHFSG
LVCACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDFQRYLLPPALGLLVAAGVAGAALLLVHVRRRGHSQDAG
SRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSSVDNRPEDVDPQGIYVISAPSIYAREVATPLFPPLHTGRA
GQRQHLLFPYPSSILSVK

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FIGURE 5434

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGGCCGGTTTGTGTGGTCCCATTTTGTCTGGTTGCATTACTGGGT
AATCGGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGAGTCCCTTGCCCGCTCCTTCAGGTCTCAGCGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCTGCGGCCCTCTGAGCCCACC**ATG**GCCGTCCCACCGGGCCA
TGGTCCCTTCTCTGGCTTCCCAGGGCCCCAGGAGCACACGCAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAG
GCTGCCCCCTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGGGCCCAGCAGGCGCCACCCAGGATTTCGAGCAACAA
GAAGGAGAAGAAGGTCCTGAACCATGGTTATGATGACGACAACCATGACTACATCGTGCAGTGGCGAGCGCTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAGGCTTTCTGAACCAGGCCCAGATTGAGCTGCG
GCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTT
CCGGAACCACCTGTGCTGGTATTTGAGCTGCTGTCTTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTTCTGGCCACGCCTGA
GCTCAGCATCATTCACTGCGACCTCAAGCCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGCTCACC
TGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCCTCTTCAGTGGCTCCAATGAGGTGACCCAGATGAACCGCATTGTGGAGGTGCTGGGCATCCC
ACCGGCCGCCATGCTGGACCAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCGGGGGCCGGCGGGCGGGGGAGCCGGGCCACAGCCCCGCCGACTACCTCCGCTTCCAGGACCT
GGTGCTGCGCATGCTGGAGTATGAGCCCGCCCGCCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGCCCCGGCAGGCAGCAGTGCCTCCACCTCGCCCGCGCCCCCTCGACAC
CTGCCCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGGCCCTGGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGATGTGCCCCACAAGACACATCAAGCCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACCTTGGTCTGCTCCCCATCACCAACCTC
ACCACCACCCCGGAGCTGATGGATGTGAGCCTGGTGGGCGGCCCTGCTGACTGCTCCCCACCTCACCCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTCTGTCCACCCCTCCCGCCTCCTGA
TGACCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCG**TGA**CCCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATACCTCCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCCTGGGGCAGGGGGGTCA
AGGAGAGGGTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGCCCTCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGGTGGAGGGAAGACCCCCCTCACCCAGGACCCTAGGAGGGGGTGGGGG
AGGTAGGGGGAGATGGCCTTGCTCCTCGCTGTACCCCAAGTAAAGAGCTTTCTCACAAAAA

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FIGURE 5435

MAVPPGHGPFSGFPGPQEHTQVLDPDVRLLPERRLP LAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAP
PQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIKI IKNKKAFLN
QAQIELRLLELMNQHDTEMKYYIVHLKRHF MFRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLTRKLAQQQLCTAL
LFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG
CILVEMHTGEPLFSGSNEVDQMNRIVEVLGIPPAAML DQAPKARKYFERLPGGGWTLRRTKELRKDYQGPGRRL
QEV LGVQTGGPGGRRAGEPGHSPADYLRFDLVLRLMEYEP AARISPLGALQHGFRRTADEATNTGPAGSSAST
SPAPLDTCPPSSSTASSISSGGSSGSSSDNR TYRYSNRYCGGPGPPITDCEMNSPQVPPSQPLRPWAGGDVPHKT
HQAPASASSLPGTGAQLPPQPRYLGRPPSPTSPPPPELMDVSLVGGPADCSPPHPAPAPQHFAASALRTRMTGGR
PFLPPPDDPATLGPHLGLRGVPQSTAASS

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FIGURE 5436

GGATCCGGCAACGAAGGTACCATGGCCGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCA
GTCCCCGTGGGGGTGGCTTTGGCGGCCGAGGGGGCTTTGGTGACCGTGGTGGTTCGTGGAGGCCGAGGGGGCTTTG
GCGGGGGCCGAGGTCGAGGCGGAGGCTTTAGAGGTCGTGGACGAGGAGGAGGTGGAGGCGGCGGCGGCGGTGGAG
GAGGAGGAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGGGGTCTGTGGTCGGGGAGGAAAAAGAGGAAACC
AGTCGGGGAAGAATGTGATGGTGGAGCCGCATCGGCATGAGGGTGTCTTCATTTGTCGAGGAAAGGAAGATGCAC
TGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTCCGAAGGAGATGACA
AAATTGAGTACCGAGCCTGGAACCCCTTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCC
ACATCAAACCGGGGGCTAAGGTTCTCTACCTCGGGGTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCG
TTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCCACCGCTCTGGCCGTGACCTCATTAACTTGGCCAAGA
AGAGGACCAACATCATTCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGG
ATGTGATCTTTGCTGATGTGGCCAGCCAGACCAGACCCGGATTGTGGCCCTGAATGCCCACACCTTCCTGCGTA
ATGGAGGACACTTTGTGATTTCCATTAAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCT
CCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGCAGGAGCAGTTGACCCTTGAGCCATATGAAAGAGACC
ATGCCGTGGTTCGTGGGAGTGTACAGGCCACCCCCCAAGGTGAAGAACTGAAGTTTCAGCGCTGTCAGGATTGCGAG
AGATGTGTGTTGATACTGTTGCACGTGTGTTTTTCTATTAAAAGACTCATCCGTCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 5437

MKPGFSPRGGGFGGRGGFGDRGGRGGRGGFGGGRGRGGGFRGRGRGGGGGGGGGGGGGRGGGGFHSGGNRGRGRG
 GKRGNQSGKNVMVEPHRHGCVFICRGKEDALVTKNLVPGESVYGEKRVSISEGDDKIEYRAWNPFRSKLAAAILG
 GVDQIHIKPGAKVLYLGAASGTTVSHVSDIVGPDGLVYAVEFSHRSGRDLINLAKKRTNIPVIEDARHPHKYRM
 LIAMVDVIFADVAQPDQTRIVALNAHTFLRNGGHFVISIKANCIDSTASAEAVFASEVKKMQQENMKPQEQLTLE
 PYERDHAVVVGVRPPPKVKN

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FIGURE 5438

CAACGGGGGCATCCACTACATCACCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTCACCGTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGCGGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCCACCTCCTCATGTCCATCCCCAGCCCCCTTCCGTGGACGGCTCTG
TGGCCTCTGTGGGAACCTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCAGTGTGCTTGGCAGAGGAGACTGCACCCATATGAGAGCAACGAGGCCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCCTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCTGTGCCGAGCCTGGCAGCCTACACGGCGGCCTGTGAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCCCGCTCCATTGCCCCGCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCACCCGCTGTTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCTGCTTTCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCCACCAGGCCGTGTATGTGAGGTCAAGGCTGAAGCCCGGAACTGCTGGGCCACCCGTGG
TCTCTGTGTCCTGTCTGTGGGTGCCAACCTCACACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCCAGGACTACAGAATACCATCCCCTGGTACCGTGTAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAAACGGAGGCTGTGGGCCAGGTCCACATCTTCTTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTCAGCAATGACCATGCTGGGAAACTGTGTGGGGCCTGTGGAAACTTTGACGGGGACCAGACCAATGATTG
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC
T

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FIGURE 5439

GTCAACTTAGTGTACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTGGTTCCCTTTCTTAA
GCCCTTATTGGCTATCTTTCTTTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTTAAATTTTAAACCATGCT
TGTTTAACTGCTGGTAAAATTCACGTCTTTCAGACTGTAATGCTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCCTTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCCAGAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAA
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGATGCCAACC GTTGGG
TCCCTACCCTCCTCCATACCCACCGCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCACAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCCTCCTCTTCCTCCTCCTCCTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATATAGCTAATGAATTA
GGCAGGGGAGCTATTTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAAAATGTGATTTTT
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAATTCATTATGATGAAAAACCTCTATCTTTTTT
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGTTGCTGCACTAACTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGTTTTTGGAACCTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCCTATTCAAATAAAGTTATTTCTCCTGGTCT

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FIGURE 5440

GCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAACATGTGGAATCCCAATG
CCGGGCAGCCAGGGCCAAATCCATATCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGA
TGCCAACCGTTGGGTCCCTACCCTCCTCCATACCCACCGCCTGCCCCTGGAATCCCTCCTGTGAATCCCTTGGCT
CCTGGCATGGTTGGACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATG
CACAAGCACCAAAAGCACCAAGTACCACAAGCATGACAAGCATTCTCCTCTTCCTCCTCCTCTTCCAGCAGT
GATTCTGACTGAATACAGGCCCTGGACCCCTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATG
CCACGTTGTACTGGGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGA
GCCCTGAGTGGCTAGGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATA
TAGCTAATGAATTAGGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTT

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FIGURE 5441

GGCTTGGTCACT**ATG**GAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCTGTCTTCCCTGGGCCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCCTGGTTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACACAGGCTCCAACCTATTATGTGCGCATCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCCTCACGCATTTTCGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTTCATCCGGGTCTGTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCACTTCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGGAAGACTATGTGGCCCGGCCAGATAAGATTTCA
GGAGCTGATATCAACTCCATCTGTCTCAGGAGAGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCCTGGCC
AAGGACTTCGAGAAAGCATACAAGACTGTCATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAG**TGAC**CCCTTC
CCTTCCCTCCACCACACCCTCAGGGGCTGGGGCTTCTCTCGACCCCCAGCACCTCTGTCCCAAAACCTCATTC
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5442

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYVVRILSTIDRELLKPNASVALHKKHSNALVDVLPPEADSS
IMMLTSDQKPDVMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTA
AFIRVVGSEFVQKYLGEGRMVDRDVFRLAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD
QNVNVKVIMATNRADTLDPALLRPGRIDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI
NSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

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FIGURE 5443

ACTGTGCCCTGTCCACGGTGCCTCCTGCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCGAGGCCCTGATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAAATGCCAGCTGATGAAGACCGAGAGGCCGCGACCCAACACC
TTTGTTCATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTTCGCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTTCAGCAAGGCACGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTCCTTGGCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTCCAGAACACCAGGCACCCGTTCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC
ACAGAGGAGCGGGCCCGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGGAGTACCTGGCGCCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGCTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCCTCTTCGAGCTCATCCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGCTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC
AGCGATGCCAAGGAGGTTCATGGAGCACAGGTTCTTCCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCCTTCAAACCTCAGGTACGTCCGAGGTGACACAAAGGTACTTCGATGATGAATTTACCGCCCAGTCC
ATCACAATCACACCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCCACGCAGAGGACGCACGCTCGCTGCCATCACCGCT
GGGTGGTTTTTTCCCCCT

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FIGURE 5444

CTCTTTATAATTTAGTTTCCATAGAAGTTATATGTGCATTTAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCACAGGCCCCGCCCCCTCCTCCCACCTCGTTTCAGCCTGTCCAGACAGAAGCTGGGGCCCCAGCGGAG
GTAGCAGCAGACGCCTGAGAGCGAGGCGGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG
AGGAGCCCCGCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAGCCCCGCTGGGTCC
TGCTGGTCCCTCATTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCAACCAGCGCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATTCT
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCCAGCGGGCCCCAGCCACAGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG
TGGACATGCAGAAGCTGACCCATGGCGTCTGCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAACATGGACTGGCGTTCACTGACCCAGGTCAAGGAGCTGGGCGTGGTTCATGTACAACTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCCCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CCTACCTGGCGAGTGCGCCCCACCCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAATGCCCCGAGTTTTCATCTACGTGCTGTTCATGAACCTACCTGCCACTCTGGAGTTCTCCCACCCCTACA
GGTTCTGGCCTGCCATTGACGATGGGCTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCAGGCTCGAATCCCATATGCCCGTGTCA
ACCACAACAAGTACATGGTGAAGTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACCTCGCTGCTGGTGAACGAGAATGGGAGGGGCGGCCTGCGGAGCCAGCTGGAGGGCCATTTTCC
TGAGGGACTGGGACTCCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGGCCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC
TGTCCCCGCGCCCCCGCTTCTGTCTGCCCCATTGTGGCTCCTCAGGCTCTCTCCCCTGCTCTCCACCTCTACCT
CCACCCCCACCGGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCCACCCCCACTTTCCAGGGCAAAAAGGGCCAGGGTTATAATAAGTA
AATAACTTGTCTGT

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FIGURE 5445

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGCCCTCCCGGGGAAGTCATTCATCTGAATGTGGGAGGCAAGAGATTCACTACCTCTCGCCAG
ACTCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAAGATGAGACC
GGAGCAATCTTCATCGATCAGGGACCATACAGTCTTCGCCCACCCGTCACTCTACGTCTTGCGCATCACAAAGA
GTTGGATCCCAGGGGTGTCCACGGTTCCAGCCTCCTCCATGAAGCCCAGTTCTATGGGGCTCACTCCTCTGGTTTCG
TCGCTGCGAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGGAACGTCTCTTCAATGGTTACCTGCGGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGCCAGCCCCTGT
CCGACGGAGCAACACGATGCCCCCAACCTTGGCAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAACCCC
TCCCTCACCTCAGGACAACCTGAGGAGCCGGGGATGGTGCGCCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCGGGTGCATGGTGGGGCTTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCCTGTGGAGGCCTTGTCTTCGTCGGGAACCAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGGAATGCCGTACCAAGCACTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCCTCCTCCTGGGCTGCAACAACGGCTCCATTTACTACGTGGATGTGCAGAAGTTCCCCTTGCGCAT
GAAAGACAACGACCTCCTTGTGTCAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCACCGCCCTCAGTGTCTA
CCTCACCCCCAAGACCAGTGACAGTGGGAACCTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGCGGGT
CATCGTGCAGCACCCGGAGACTGTGGGCTCGGGGCCCTCAGCTCTTCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTGCGAGAAGCACCTCATCTCAGTCTGTGCCGACAACAACCACGTGCGGACATGGTCTGT
GACTCGCTTCGCGGCATGATTTCCACCCAGCCCGGCTCCACCCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA
GTCGGCAGATGGGCATGGCGGCTGCAGTGCTGGCAATGACATTGGCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGCCAGTGCCAGCCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGCTGGAGTGCGAGGGCTCCCGCGGGCTCGGCTC
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGGCCATGTGGGACCTAACCCACCGCCATGGA
CGGCCTCGGCCAGGCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCGCCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCCAGCCCCTCACCCCGCATCTCCCTCACAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCCTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCGGCGCCG
TGGTGGGGGCAGCTTTGTGGAACGCTGCCAGGAACCTGGTGCAGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACTCCCTCACACCTCCCAAGATGAAGCTCAATGAACTTCCTTTTG
AACAACGCAGCTGCCATGATGCCTTGGGATGCCCTGGTCTCTGGGGGACTCAGGTGCCTCCCTGATTCTGTGGGA
ACCCCGGGTTCAGGGCCAGGGCCTCCTTGGAATAAATGGTTATTGTTACTAGGTCCCCACCTTCCTCTTTTCTG
GAAGCCAAAGTCACCTCCCCAATAAAGTCTCACTGCC

5908/6881
FIGURE 5446A

CGTTGCTGTTTGTGCTGCTGCCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAGTGTGCAGGCCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCCAAGTCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGGCGGCCCGGGGGCCAGGGGGCCGGGGGACTACTGAGAAGGAGGCCCCACAGC
GTGCCCCCGCTGGCAAGGCCCCGGTCCCTGTGTCCCTTGATCTGTGACAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCTCTGTCCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCGGCCCGGGCCCCGG
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCAACCGCGACGACGAGCACGGCGTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGCGAGGAGCGTCCGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGGGCGGAGGCGGCAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCCGCGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTTCGGGAGC
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCGAGGAGGTCTGCTGCCGAGGGGCGGCTTGG
CCTGGGGCGTTACGACTGTCAGCTGTGCTCCGAGCGCCTGGGGAACCTCCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTTCAACCGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGCGCGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAACACGCGCGGGGTACACGTGTGTGTGCCCCGACGGCTTTCTGCTCGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGGCCCTGCTTCCGCGTGTCTCCGCGACGGCGGT
GTTGCTGCCATTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCTAGGCAAGGCCTGGGGCCGGG
GCTGCCAGCTCTGCCCCACCTTCGGCTCAGAGGGTTTCCGGGAGATCTGCCCCGCTGGTCTGGTTACCACTACT
CGGCCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCGAGTGTCACTCAGCCAGCCTCGTA
CCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCCCACCATCGCCTGGAGCCCCGGCCTGAACCCCGGC
CCGATCCCCGGCCCGGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTGACGCAACCCCCAGGTCTGCGGCCAGGACGCTGCATTTCGGGCCAGCGGCT
ACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTGCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAAGTCAACAGGACGCTTCCGCTGCGTGTGCGGCCCGGGCT
TCCGAGCCGGCCACGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCGCGTGCCGCCGCCGTGTGACCTCG
GGCGCTGCGAGAACACGCCAGGACGCTTCCCTGTGCGTGTGCCCCGCCGGGTACCAGGCTGCACCGCACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCCTGTGTGGCCGAGGGGCTGCAAGAACCTGCCTGGCT
CTTTCCGCTGTGTTTGCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGGCCCGGCCGCTGTGACAACACGGCAGGCTCCTTTCACTGTGCCTGCCCTGCTGGCTTCCGCT
CCCGAGGGCCCGGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCCGAAGCCCCCACCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCCAACTGCTGGCTCCGAGTGC
AGGATGTGGATGAGTGTGAGAACCACCTCGCATGCCCTGGGCAGGAGTGTGTGAACCTGCCCCGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCCGGGTGCC
CTCCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGGG
CGCCGTCCGGTCCGGCCCGGGCCCTGCGCAGACGTGAACGAGTGCCTGGAGGGCGATTTCTGCTTCCCTCACGGCG
AGTGCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCTGGCTACCGACCCGGACCCCGGGAGCCTCTT
GCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTTGCCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGCATCTGTCTCCGGGACACCGCGCTGGCCCGGACCTCGCCTCCTGCCTCGACGTGGACGAATGTGCGGAGC
GAGGCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAACTCTCCCGGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCACGCGGGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTTGTG
GAGCCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCAGCCTGTGACCCTGGCTATCAGCCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAAATG
TCGAAGGCTCCTTCTCTGTGTCTGCCCCAACAGCCCCGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACTTCTGCTGGCACGTTCCCAGGCTCGCAGCCCCAGGCACCTGCTAGCCCCGTTCTGCCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCCGCCGACCCAGCACACCTAGGCAGGGCCCTGTGGGGAGTGGGCGCCGGGAGTGCTACT
TTGACACAGCGGCCCGGATGCATGTGACAACATCCTGGCTCGGAATGTGACATGGCAGGAGTGTGCTGTACTG
TGGGTGAGGGCTGGGGCAGCGGCTGCCGCATCCAGCAGTGGCCGGGCACCGAGACAGCTGAGTACCAGTCATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTCAGCTCT
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTAACACGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

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FIGURE 5446B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAACTCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCTGCCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCTACGACCCCTACCCACCGCCACCTGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCTCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCGGGCACCCTGCGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGC CGTCCCCGAAGGCTTCACCTGCCGTTGCT
TCGACGGCTACCGCCTGGACATGACCCGCTGCGCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTTCGCAC
CCACGCACCAGCCGCACCACTGTGCGCCCGCACGGCCCCGGGCCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG
CGCCCGCCACTCGGGGCCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCCGCCTGGA
CCTGGAGAAGGGACCTACGGACGCCTGGAAGCTGCGACGCCCTGCACTGCTCCCGCCTCCACCAGCGCCTCCAC
TGATGTCGTGGTCCCGGGCCTGGCCAGGGGCCCCCTTACATGCCCTCTCCCTTTTATAAAATTTTCCATTAAAA
ACCACCTATTTTCT

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FIGURE 5447

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT
TCCAGGACCTTCTCCACAACCTAGGCCATTTTCCCTGCCAGGTGTCCTTTTTTGACCTCTTGACCTCTGACTCAAAG
GTCAGCTCAAAGGTTCCGAACTCGGGCCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCCAACTCACTCATGAGTT
TCCACATCCAGCCCCAAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCCGAGGTAACCCAACCGGT
ACCACAGATCCGGTTCCGGATTTAAGGACCCCAACCTGTTAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG
CAATTCCCTGCTCCCGTGGTTTTCAAATATTAGCCCTGGTCCTTTACACCCCACTGCTCAGTCCCCAGATTCTGGAA
CTCAGCTCTTAAACCTTTAAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCCGCTTTCT
GAACCTCTCAACACCTCCTGTAGACCCCAAAATGACTTCTCCATGCTCTCCTCCCCCTAAAACCACTAATTTCTCC
TCCAAAAACCCCTGTACCCCAAGCCAGCAGCATTCCATCTCCTCCTCTACCCCCAAGTCCCTTGACTTTTTCTAGC
TTTACCATCCCTCCCTGGAGTCAGCAGACCCCTGTTCCCCCACCCTGCTCCCACTGCCTCCTCCACCCGCTGCCAC
AGGGCCTGCTCCCCGTATGTCTTCGGCCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCC
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG
GATCCTCTTCTGTGCAGACCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC
AGGTACTCTCCTGTGCGCCCCAGTGGCGTCCCCCTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC
GGCCAGGGAGAGATGTTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTGAGAGGAAGGGCCAC
AAGGCACACTGGGCGGTGAGTGCAGGGGTCTGCTGGGTGTTGCGGGCTGTGCCAGTCTCGGCTACACTGAGGAC
CCTGAGCTGCCGGGCTGTTCCACCCAGTGTGCGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACCAGGTCCGG
GAGAGCAACCTGCAGCTGACGGACTTCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGCCCGTGGGT
GGGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG
TCTCAGGCTGCAGCCTAGCTCGTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCCCTCTACCTGTGTTA
GCAGATCTGGCAACCCCTGTAAGGGGGGTGCTAGATGGACCCGATTTGACAGATGGCAAGACTGAGGCCTGGAGAA
GTGGAATCACTGGCCTGAGGTACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTCTGCTCCAGGCTGGAGT
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCCCCAAG
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTTGTATTTTTTAGTAGAGACGGGGCTTTGCCAT
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGAGTAATCCACCCGCCCTCGGCCTCCCAAAGTGCTGGGATTACA
GGTGTGAGCCACTGAGCCCCGGCCACAGTGCAGTATTTCTAACCAGTGATCAGGGTAAAGAGGATGCGTGTCCACC
ATCCAGCCCTGATCAGCCTGTCTGTGCATCCCCCATCCAGCCAGGGCTTGAGCAGCCTTGCTCACCCTGTG
TCCCCTGCATTGTAACACATCCAGGCACAAGAATAGCCGCCAGTGACTGCCAAGTGAGTGAACCAGCCTGCTTG
GAGCCTGCCTCTTTCCCAAACCTGCTCATTATCCTGTTACCCACCCAGCCACGTGTCCAATACTCCAGATG
CAAAATAAAAAGCTCTACGACA

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FIGURE 5448

GAATTCCTGACTTCCTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTTGGAGAAACCCAGG
GCTAAAGTCACGTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCC**ATGG**CAGTTCCCGAGACCCGCCCTA
ACCACACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCT
TCTCCCAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGGCCAGGCCTTTGTCTATCT
TCAAGGAGGTCAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTA
TCCAGTATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGG
AGAAGAGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGAGCCACCCCGTGG
TGGGGGCTGTCCAGGGGCCTGTCCCGGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGG
GCCAGCCGCCCTACATGCCGCCCCCTGGTATGATCCCCCGCCAGGCCTTGCACCTGGCCAGATCCCACCAGGGG
CCATGCCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCCAGCCTCTTTCTGAGAATCCACCGAATCACA
TCTTGTTCCCTACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCTGGCT
TCAAGGAGGTCCGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGG
CAGCTCGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAG**TAGC**
ACCTTTTCCCCCATGCCTGCCCCTTCCCCTGTTCTGGGGCCACCCCTTTCCCCCTTGGCTCAGCCCCCTGAAGG
TAAGTCCCCCTTGGGGGCCTTCTTGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCT
GTCCCAGACATTGCACCTGGCGCTGTTAGGCCGGAATTAAAGTGGCTTTTTGAGGTTTGGTTTTTCAAAAAA
AAGGAATTC

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FIGURE 5449

MAVPETRPNHTIYINNLNEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGF
PFYDKPMRIQYAKTDSDIIAKMKGTFVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPMTQA
PRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPFGAMPPQQLMPGQMPPAQPLSENPPNHILFLTNLPEETNELMLS
MLFNQFPGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

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FIGURE 5450

CGGACGAGGCACGAGTGAGGGGGGAGGCGGTGGCGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC
CCCCCTTTCCCCCTTCGCCTCCTGACAGGAAAGGTTTAAAGGGGACAGAGCCCTGGGAGGCCGGGGCCGGGCTCGG
GGGCCACCCCGGGGGCCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACCTTCGCGAGGAGCTGCAGCGCC
GCGGCCTGGACACTCGAGGCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCGTTGGAGGCCGAGGAGCCTG
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCCGGGCACATCAACGAGGAGGTTCGAGACCGAGG
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCCGCCCGGGCTGCAGCCGCACGCGGAGCCCGGCGGCTACT
CGGGGCCGGACGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC
AAGAAAACGAGTCAGGCTACGAGAGGAGACCACTGGAAATGGAGCAGCAGCAGGCCTATCGTCCAGAAATGAAGA
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCTCCCGCCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT
TCCAGAGTCGAAAGAGGCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC
GCTCTCCTCAGCCTCCTGTGAAGAGGATGAAGATGACTTTGATGATACCCTTGTTGCTATTGACACCTATAACT
GCGACCTCCACTTCAAGGTGGCCCGAGATCGGAGTAGTGGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAGGGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT
CCGTGAAGCACCTTCCGTCTACAGAGCCTGACCCCCACGTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA
CCCAGCTAGGCGAAGAGCCTTTCTCCTATGGCTATGGAGGCCTGGGAAGAAGTCCACCAATAGCCGGTTTGAAA
ACTACGGAGACAAGTTTGCAGAGAACGATGTGATTGGCTGCTTTGCGGATTTTGAATGTGGAAATGACGTGGAAC
TGTCTTTTACCAAGAATGGAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCC
TCTATCCTCATGTCTGGTGAAGAATTGCGCAGTGGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG
TCTTCCCGGGTTTACCTTCATCCAGCACCTTCCCCTTAGTGAGCGTATCCGGGGCACCGTTGGACCAAAGAGCA
AGGCAGAATGTGAGATTCTGATGATGGTGGGCCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG
CCTCCAACCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCCTAC
GCCGGCAGCGGAACATATGCTGGCCGCTGGGATGTCTGATCCAGCAGGCCACCCAGTGCCTCAACCGCCTCATCC
AGATTGCTGCCCCGAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTGAGCCAGAGACGAAAAA
TGAGACCATTGTAAGGCTTCCAGCGCAAAGCTATTGTAATTTGTCCCACTGACGAGGACCTAAAAGACCGAACAA
TAAAGCGAACCGACGAGGAAGGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAAGCCAACTTCACGTTGC
CAGATGTTGGGGACTTCCCTGGATGAGGTTCTGTTCAATTGAGCTGCAGCGGGAGGAAGCGGACAAGCTAGTGAGGC
AGTACAACGAGGAAGGCCGCAAGGCTGGGGCACCCCTGAAAAGCGCTTTGACAACCGAGGTGGTGGTGGCTTCC
GGGGCCGCGGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTGGAGGCAACCGTGGCGGCTTCC
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA
GCCAGAACCGCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC
AGCAACAGCCGCCACCACAGCAGCCTCCGCCACCACAGCCACCACCCAGCAGCCACCGCCACCACCCAGCTACA
GCCCTGCTCGGAACCCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA
GCACCCCCACCGTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCCTACAACCAGGGAGGTTACA
GCCAGGGCTACACAGCCCCACCGCCTCCACCTCCACCACCACCTGCCTACAACCTATGGGAGCTACGGCGGTTACA
ACCCGGCCCCCTATACCCACCGCCACCCCCCACTGCACAGACCTACCCTCAGCCCAGCTATAACCAGTATCAGC
AGTATGCCCAGCAGTGGAACAGTACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACTACGACTACG
GGAGCTACTCCGGGAACACACAGGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC
TGCCGGCTTCTCCACCAGCGCCTGCCTCGGCCCCCTCCTCTGCCCCCGCCAGATCCCGTGGTGTGGGGATGGGG
TCATCCCAGGGCTGCCTCCCTCCAGCCCACTGCCTCCCCCTCTGAGGGGCTTCCCTTCCCCTCCATAGGGCCAGGCA
TTTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTTGTCCCCACCTCCCCAGCCTTCCACCTC
CTGTTCTTCTACCTTCTTCTTTTTGACTAAATAATCCCCACCTCCCTTGATCATACAGTGAGGCTACAGTGAC
TGAGGGGAGAATCCCCTCCTGTTCACTCTCCCAACCTGCTCCAGCCCCTCAGCTTCCCAGACCCTCATGCAGTT
GGTTGTAAATTCTCCAGGAGCTGTTTTACTGTCTACTTTTCAGGATTAAAAAAAATCAAACTTAAAAAAA
AAAAGTTTAAAAAGCAAAATGGGGAGGGGGAGGAAGCAGTGACTTTTTTTTGGTAATTATGCGCTTTTTTTTAAAT
TTTTAGAATTTGTCTTTTTTACTGTGGGTGGGCTGTTGATATTTTATCAAGATAAGCATTTCTTTCTGAGTTTCA
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAAACCAAACC

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FIGURE 5451

GCCTGGGCGCAGCGGTGCACCCGGACCCGGAACATTCTCAGGCGAAAGTGTCTCTTGCGTGCGTGGGCCGGAGGT
TAGTGTGCGGGGCCCCGCGGGCGGTTGAAAAGTCCGAGAGAATCAGGATGGAGGCGCGTGGCGACGGCGACGGCGG
CGAAGGAACCCGATAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCACTGCCAT
CTAAACCCCAGGACAAAGTGAAGCAGCTGAGGCAACACCACTGGCCCTGGACAGTGACACCTCCGGGGCTGAAA
ATGCAGCAGTGAGTGCTATGCTGCACGCTGTAGCCGCCAGCCGCCTGCCTGTTTGAGCCAGCAGCAGGGTGAAC
CCGACTTGACAGAGCATGAGAAAGTGGCCATCCTGGCCAGCTGTACCACGAGAAGCCACTGGTGTTCTTGAGC
GCTTCCGCACAGGCCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGCGGACCACCGTGACACTTCT
ACTGTGCTGAGGTGGCCCGGCAGGGCACTGCCCCGCCCCGCACCCTGCGTACCCGCCTGCGTAACCGGCGCTATG
CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGCCCCCTGCTAT
ATGAGCAGTACATCGGGCAGTATCTCACCCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACAGCCCCCAAGC
CCGGGTCCCCCGGGAGACCTGCTTGCCCGCTCTCCAACCTTGCTGCTCCAGTCTACGAGGAGCGGGAGCTACAGC
AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCGCTGCTTGAGGAAGAGGAAGAGGAGGAGGACAGTGACGAGG
AAGACCAGAGGTGAGGCAAGGACTCGGAGGCTGGGTTCCCGACTCGGAGGAGAGGCTGATCCTGCGAGAGGAGT
TCACCAGCCGCATGCACCAGCGCTTCTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC
CCGACTTCGACAACCTCGACATCGTGGCACGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG
CGCCCAGCCCAGAGCTGGATGGGGACTGATGGCCGCCACCCTTCCCACCGCCTGCCCCATCCCCATCCCCAACA
GGCAGCTGATTCCAGGCCTGCTCAGTGACCCCTTCTCTAGGGGACATCAGGGCAGTGCCCCACAACCCACACAC
ACCACCATCTCACTGGGTCTAGTCTCATCTCAGACAACCCCCACCCCACTGTTTCTGGGGTTCCCTTTCTCATC
TCTCCACCCCTGTCTCCTGCTCTGTCTTTCTTGCTGTCTGTCTGGGCTTCTTTCTGTCTCTTTCTGTCTTTCTG
TCTCTCTCCCTACCCCGCTCCCTCTTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTTCTCCCCCTCTCTCTCTG
CCTTAGGCTCTGTCTCCACCGCAGGGCCCCAAGTGAAAGTCTCCCTTGCCGGAGGCCAGCTGGCAGGGCCTTT
CGTGGCTGGAAGTGGCCAGTTTGCTTCCGGTGCTGACCCCTAGGCCCCAGCGCAGCTGCCTCCCGTGCTGTCTGT
CTCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCACACTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC
CTTCTGCCTCACTCTGGGCCTCTTCTTTCTACTTGTACATTTCCACCTCTCTAGGCCTCTGCTCTCACTGTCCCT
CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCTCTGGGCCCCCTTCTCCCCCTTC
CCTCAAACCTGGCTGCTATAGGCAGCAGAACCTGACCACTGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC
AGGCAGGGAGGATGGGGGCAGCTCTCTTCTCTCCCCAGGACCCAGGCTGTGGATCACGGGGCCTGCCAGCTTGAG
TGTAAGGGAGGGGGGACTCTACCCCTCTCAGCCCCACCAGCCCCCTCTGCCCAACCACAATTTTCCCTTCTC
CGCCTTCTCTCCCTCTCTGTTTACACTCCCCAAATGCGCACAGGCTGTTATCATGGGTCTGAGTCATCCCAC
ACACAGCCTGCCCCAGCGTCCCTGCCCCAGCTGGCCGCAGGGCCCCGCCCATGGAGCCCCCTGCCGCCCTGGGC
TAATGGGAGCCAGATGGCCGCCTGGTGACTCAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATGC
CCCCACACCCGGCTCCTGCTCCCCCAGCAGACACACAGGAGGGCCTGGCCACTGTTGAGGGGGCACACAGGGC
AAGGGTCACCAAGTCGGGGCCTAGGGACTCCTCATGCCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC
CTGAAGGACCCCTCAAACTGCCTCCTGGAGTCCACGGTTCTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA
ACCAGAATTAGAGCCAGACAGGGAAAGTGAGAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA
ACGAAAGCCTCTGCTACGGAGCGCTTCTGTCTCTGTGAGGCCGAGCGAAGTGCTGACACCGGGTTGGATCCT
CAGATGGCCCCATGAACTAGTGAAAGTGGGTCAAAGGAGGCCTGGAAAGATGTTGCTTCCCTCAAGGCCACTCGGCC
ATCAGAGGCAGAAATGAAACAGGAACCCAGGCCTAGAATCACAAAGGTCTAGAAACCACTTGCGTGTCTGGCCT
CTCAGGTGTGAGGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA
GGTTTGAGAAGGGTCAGATGGTAGGCGGGCCTAACAAAGGGCTCCGTGCTAGCCACTGTCCCGCACACAGACAGGA
TCAGGTCTCTTGATATGGAGATCAGTCCCCAAATCACTGAATTGTCCAGCAGTGCTATGCCCTAGGTACTACC
AATATCACTCCTCTATTTCCCAGAGGAGGAAGCAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA
GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTCTTACCTGCCTGTATTTGTGCCCCATTTTTAAAGAGCAGAGGGC
CTGGGCCACAGGAAGGTATCAGCCCTTGGTGATAGGCACATTTTTTACCAGTCTATCATTTGGTCATTAAATTT
GTTTACAATATACTTTGCTATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5452

MEAVATATAAKEPDKGCIIEPGPGHWGELSRTVPVSKPQDKVEAAEATPVALDSDTSGAENAAVSAM LHAVAASRL
PVCSQQQGEPDLTEHEKVAILAQLYHEKPLVFLERFRTGLREEHLACFGHVVRGDHRADFYCAEVARQGTARPTL
RTRLRNRRYAALRELIQGGEYFSDEQMRFRAPLLYEQYIGQYLTQEELSARTPTHQPPKPGSPGRPACPLSNLLL
QSYEERELQQRLQLQQEEEEACLEEEEEEEEDSDEEDQRSGKDSEAWVPDSEERLILREEFTSRMHQRFLDGKDGD
FDYSTVDDNPDNLDIVARDEEERYFDEEEFEDAPSPELDGD

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FIGURE 5453

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGCGGGGGCAGGGGGGACGCCCCGTCCGGGGCAGCCC
CCCGGCTCTGAGCCGCCCCGCGGGGCCGCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC
CCCAGAGTCTGAGACGAGCCGCCGCCGCCCGCCACTGCGGGGAGGAGGGGAGGAGGAGCGGGGAGGAGGGACG
AGCTGGTCGGGAGAAGAGGAAAAAACTTTTGTAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGCGCGGGGACCTC
TTGGCGCGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCCAGACCGCCTCCCTTTGCCGCCGGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCCATTCGCGACCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCCAGACCTCGGGCGCACCCCCTGCACGCCGCCTTCATCCCCGGCCTGTCTCCTG
AGCCCCCGCGCATCCTAGACCCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCTATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCCGGTCCA
AGCCTCCCTCCACCACTGCGCCCTTCTCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCCTACCTTTTGCCGG
GAGACCCCCAGCCCCTGCAGGGGCGGGGCTCCCCACCACACCAGCCCTGTTGCGCTCTCGGCAGTGCCGGGGG
GCGCCGCTCCCCCATGCCGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC
TGACGCCTGGCCGCGCCGCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCCG
GCCCCGTGCCCGAGGCCGTGCTCGCCCTGTACAACAGCACCCGCGACCGGGTGGCCGGGGAGAGTGCAAGCCGG
AGCCCGAGCCTGAGGCCGACTACTACGCCAAGGAGGTCACCCGCGTGCTAATGGTGGAAACCCACAACGAAATCT
ATGACAAGTTCAAGCAGAGTACACACAGCATATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG
AACCCGTGTTGCTCTCCCGGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAAGTGGAGCAGCACGTGGAGCTGT
ACCAGAAATACAGCAACAATTCCTGGCGATACCTCAGCAACCGGCTGCTGGCACCCAGCGACTCGCCAGAGTGGT
TATCTTTTGATGTCACCGGAGTTGTGCGGCAGTGGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTTCGCTTAGCG
CCCACTGCTCCTGTGACAGCAGGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGGCCCGCGAGGTG
ACCTGGCCACCATTTCATGGCATGAACCGGCCTTTCTGCTTCTCATGGCCACCCGCTGGAGAGGGCCAGCATC
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAAGTGTGCGTGC
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT
TCTGCCTCGGGCCCTGCCCCCTACATTTGGAGCCTGGACACGCGAGTACAGCAAGGTCCTGGCCCTGTACAACCAGC
ATAACCCGGGCGCCTCGGCGGCGCCGTGCTGCGTGCCGACGGCGTGGAGCCGCTGCCCATCGTGTACTACGTGG
GCCGCAAGCCCAAGGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCGCCCCGC
CCCGCCCCGCCCCGCGAGGCCCGGCCCAACCCGCCCCGCCCCGCTGCCCTTGCCCATGGGGCTGTATTTAAGG
ACACCCGTGCCCCAAGCCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTCAATTGGCG
CCTGCCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCCTCCTCCTGCCTG
TCTGCACTATTCTTTGCCCGGCATCAAGGCACAGGGGACCAGTGGGGAACACTACTGTAGTTAGATCTATTTAT
TGAGCACCTTGGGCACTGTTGAAGTGCCTTACATTAATGAACATTCAGTCACCATAGCAACACTCTGAGATGC
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCAGAGAGGTTAAGGGAGGAGTTCTGCCCACC
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTCAGGCCAGGCGGGGTGGCTCACG
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTTGAGACCAGCCTGGGT
AACATAGTGAGACCCCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCCAGCTACTCTGGAGGCTA
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

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FIGURE 5454

CAGCCGCACGTGGGCTCGGCGCG**ATG**GAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG
GGTCCAGCCCTCGGGGTCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTCGCGGCCAGATG
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCCTGGCGGGTGTGTACGGGCCGGCCGAGGTGAAGGTCAGCA
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTTCAGAGAAGA
GCCGGGAGCGGTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCCGCACCTCCATCACCG
TGGTGCTGCAGGTTGTCAGCGATGCCGGCTCTCTCCTGGCCTGTTGTCTGAATGCCGCCTGCATGGCATTGGTGG
ATGCAGGTGTGCCCATGCGGGCTCTCTTCTGTGGGGTCGCCTGCGCCCTGGACTCTGATGGGACCCCTCGTGCTGG
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCCCTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCCTGGCTGCGGCCCCAGGCCGCTTCGC
AACACGTCTTCCGTTTCTACCGGGAATCGCTGCAGAGGCGTTACTCCAAGAGCT**TG**AGGCAAGCTGGGGCAAGGGG
CCGCTCCCATTCGCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCAGCCTTGCTCTCTGACC
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCACAGGGCTCCTGTGGGGAGGCCTTGCCCTGTGACAGCCCCAG
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA
ATTAATTCACTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5455

MEEETHDAKIRAENG TGSSPRGPGCSLRHFACEQNLLSRPDGSASFLOGDTSVLAGVYGPAEVKVSKEIFNKAT
LEVILRPKIGLPGVAEKSRERLIRNTCEAVVLGTLHPRTSITVVLQVVSDAGSLLACCLNAACMALVDAGVPMRA
LFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYDTELQQCLAAAQAASQHVFRFYR
ESLQRRYSKS

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FIGURE 5456

GTTAGCCAAGATGGCGGTAGCGATCGCTGCAGCGAGGGTCTGGCGGCTAAACCGTGGTTTGAGCCAGGCTGCCCT
CCTGCTGCTGCGGCAGCCTGGGGCTCGGGGACTGGCTAGATCTCACCCCCCAGGCAGCAGCAGCAGTTTTCATC
TCTGGATGACAAGCCCCAGTTCCAGGGGCTCGGCGGAGTTTATAGATAAGTTGGAATTCATCCAGCCCCAACGT
CATCTCTGGAATCCCCATCTACCGCGTCATGGACCGGCAAGGCCAGATCATCAACCCCAGCGAGGACCCCCACCT
GCCGAAGGAGAAGGTGCTGAAGCTCTACAAGAGCATGACACTGCTTAACACCATGGACCGCATCCTCTATGAGTC
TCAGCGGCAGGGCCGGATCTCCTTCTACATGACCAACTATGGTGAGGAGGGGCACGCACGTGGGGAGTGCCGCCGC
CCTGGACAACACGGACCTGGTGTTTGGCCAGTACCGGGAGGCAGGTGTGCTGATGTATCGGGACTACCCCCCTGGA
ACTATTCAATGGCCAGTGCTATGGCAACATCAGTGACTTGGGCAAGGGGCGCCAGATGCCTGTCCACTACGGCTG
CAAGGAACGCCACTTCGTCACTATCTCCTCTCCACTGGCCACGCAGATCCCTCAGGCGGTGGGGGCGGCGTACGC
AGCCAAGCGGGCCAATGCCAACAGGGTCGTCTCTGTTACTTCGGCGAGGGGGCAGCCAGTGAGGGGGACGCCCA
TGCCGGCTTCAACTTCGCTGCCACACTTGAGTGCCCCATCATCTTCTTCTGCCGGAACAATGGCTACGCCATCTC
CACGCCACCTCTGAGCAGTATCGCGGCGATGGCATTGCAGCACGAGGCCCCGGGTATGGCATCATGTCAATCCG
CGTGGATGGTAATGATGTGTTTGCCGTATAACAAGGAGGCCGACGGCGGGCTGTGGCAGAGAACCA
GCCCTTCTCATCGAGGCCATGACCTACAGGATCGGGCACCACAGCACCAGTGACGACAGTTCAGCGTACCGCTC
GGTGGATGAGGTCAATTACTGGGATAAACAGGACCACCCCATCTCCCGGCTGCGGCACTATCTGCTGAGCCAAGG
CTGGTGGGATGAGGAGCAGGAGAAGGCCTGGAGGAAGCAGTCCCGCAGGAAGGTGATGGAGGCCTTTGAGCAGGC
CGAGCGGAAGCCCAAACCCAAACCTACTCTTCTCAGACGTGTATCAGGAGATGCCCGCCAGCTCCGCAA
GCAGCAGGAGTCTCTGGCCCGCCACCTGCAGACCTACGGGGAGCACTACCCACTGGATCACTTCGATAAGTGAGA
CCTGCTCAGCCACCCCCACCCATCCTCAGCTACCCCGAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTG
ACAGCACACCACTGTCTTCCCCAGTCAGCTCCCTCTAAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTCACCC
CTGCTCCTCCCGGCTGTTACATTGTCAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTCAGCCCCCTCTTC
ACCTGTTGTTACAGTGCCTTCTCCAGGGGCTGGGTGAGGGGCACATTAGGACTAGAAGCCCCCTCTGGGCATGGG
GTGGACATGGCAGGTCAGCCTGTGGAACCTGCGCAGGTGCGAGTGGCCAGCAGAGGTCACGAATAAACTGCATCT
CTGCGCCTGGCTCTCT

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FIGURE 5457

MAVAIAAARVWRLNRGLSQAALLLLRQPGARGLARSHPPRQQQQFSSLDDKPQFFGASAEFIDKLEFIQPNVISG
IPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNTMDRILYESQRQGRISFYMTNYGEEGTHVGSAAALDN
TDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAANKR
ANANRVVICYFGEGAASEGDAHAGFNFAATLECPPIFFCRNNGYAISTPTSEQYRGDGIARGPGYGIMSIRVDG
NDVFAVYNATKEARRRAVAENQPFLEAMTYRIGHHSTDDSSAYRSVDEVNYWDKQDHPISRLRHLYLLSQGWWD
EEQEKAWRKQSRRKVMEAFEAERKPKPNPNLLFSDVYQEMPAQLRKQQESLARHLQTYGEHYPLDHFDK

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FIGURE 5458

AGCAAG**ATG**GCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAACTAT
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCTTTTTTCATCCTGAAGCAGGGAGGCGCAGTC
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA
GTGCCTGTGCGAAGCTGTGGATGCCGGTGA CTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCCCTGAAG
GAGCTCCAGTCCCTTGTGCTGCGAGCGCTGCTCCACGTGGACGACTGGTGTCTCAGCCGCCTCTACCCACTGGCC
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCACCTC
CAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCCTGGCCTCACTCAGATATTGGTGGAG
GAGATGCTGCCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT
CGGGACACAGCCAGCCCTGTCCCTGCC**TAG**CCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTTGTCTTCACTCAACGTCAGGGTGGGGAGTGGTGCTG
GCCAATCACAGGAGAGAGCGTGAGTTCCCAGTATTTATTCCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTC
ACCCTGTCAGGCAGCCCTTTCCATGCCCCCTGTT CAGGCCTGGGGAGGTAAAGGCTCAGGCTGTTAGTAGCCGCAG
AGAGCCACACTCACCTTGT CAGGAGACTCTTCTCAAAGTGCCTTATGTGAGTGCACTGCCATTTCTTGCAGGGA
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTTCTCCCCCGTGCAGGGCCGCTGTGCCCACT
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCCAGGCCCCATAGTATTGCTGG
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTTCAGTTGGCAGTTTTTTTGAAAGGGGATAAGCTTTGT
CAGTAGAGGGCACCAAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGTTGGTTGTGCTTCTGCC
TCTGGACGCCGCA GTGCATGTGGCTTCCCCAGCACCCAGCTCCTGAAGCACCAAGCGGTCAGCAGCTGCCCTTGG
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCACTGTT
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

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FIGURE 5459

MAAPWASLRRLVAPMWNGRIRGIHRLGAAVAPEGSQKKKRTILQFLTNYFYDVEALRDYLLQREMYKVHEKNRSYT
WLEKQHGPYGAGAFFILKQGGAVKFRDKEWIRPDKYGHFSQEFWNFCEVPVEAVDAGDCDINYEGLDNLLRLKEL
QSLSLQRCSHVDDWCLSRLYPLADSLQELSLAGCPRISERGLACLHHLQNLRLDISDLPAVSNPGLTQILVEEM
LPNCEVVGVDWAEGLKSGPEEQPRDTASPVPA

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FIGURE 5460

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGAT
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAG
ATGGAATCCAGGAAATCCACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGG
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTTCCTCTTCGCCGCCCTCCTTCCGCCGCCCGCT
CCTTCCCTGTATCTTTTAAAGTTTCTTTCCTACCCTGTCCCATTTTCTGGTAAGGTTTCTAGGAGGTCTGTTA
GGTGATACATCCTACAGCTTATTGGCTTAATATGTACTCTCCTTTGATGTGGTCTACTTGGGGCCGATTGGGAGAA
AGAGAAATCAATAGTGCAACTGTTTTGATAATGAATATTGACAAGTGTCTTTTTGAAATAAAGAACCAGTCC

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FIGURE 5461

ACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATC
GAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAG
CGAGAAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGC
TGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAG
CTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCC
AGGAAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGT
TGGTGATCTTTAACTGGAAGGCTGCTTTCTCCTTTTCGCCGCCCCCTCCTTCCGCCGCCCGCTCCTTCCCTGTGTC
TTTTTCACCAAACGTGCCGCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATT
TAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATGTACACATTTTGTAATTACCTCTTT
TGTTGTTTTGTAGCAACCTTTTGTAACATTCCATATAATACCACAGCCCTGAAGCAGCGATCGAATCCCTTTT
TCACTTT

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FIGURE 5462

CCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATCGAG
GCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCGA
GAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGG
TTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGG
AAATCCAACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAAAAGAAGATTGTGTTTTTGGCCACTGATTTAGCCATGTGAACTCATCTCATTACCCTTTTCT
GAGTTTGAAGCTGCTGTCTCTACAAGTGCCATCTCATTGTGCTTTGTATCAGTCAGTGCTGGAGAAATCTTGAAT
AGCTTATGTACAAAACTTTT

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FIGURE 5463

TCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTG
AGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGAACAGAGGTAAGAAGGTTATTGAAAACCGGGCC
TTAAAAGATGAAGAAAAGATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGAT
AGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAG
CTGGCAGAATCCCTTTGCCGAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT
GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAG
GCGGAGACCCATGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAA
CTGAAATGCACCAAAGGGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG
TAGAACGCCTCAGTCTCACCTGCTGCTGCTCCTCCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCAC
CTTTGGAAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAGTATGTTGTGATG

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FIGURE 5464

MMQRSELSASSEKLREKGGPGNRGKKVIENRALKDEEKMELQEIQLEAKHIAEEADRKYEEVARKLVIIEGDLE
RTEERAELAESLCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKILTDKIKEAETHAEFAERSVAKLEKT
IDDLEDKCLKCTKGEHLCTQRMLDQTLLDLNEM

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FIGURE 5465

GCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGGTTGAAGAGGAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACCTCCAGG
AAATCCAACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGAGTTTGCTGAGAGAT
CGGTAGCCAAGCTGGAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGGGGAGCACCTCTGTA
CACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAACGCCTCAGTCTCACCCCTGCTGCTGCT
CCTCCCTCTGAACCAGACTCCGCCTGAGGCCAGCCTGCCCCAAGCTGACCTTTAATTGAGGGCTGATCTTTAACT
GGAAGGCTGCTTTCTCCTTT

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FIGURE 5466

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGAAGTGTGTGGTGGATAGAAGAGTTGTG
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT
GGAAAAATTGAAGTGAAGTGAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTCTAACCTTT
GATGACCGTGAAGTCCGTGGGTGGCTATGGCGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAA

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FIGURE 5467

MSKSECPEEPEQLRKLFIGGLSFETTDKSLRSHFEQWRMLTDCVVDRRVVEPKRAVSREDSQRPEHHLRDYFEQY
GKIEVTEIMTDRGSGKKRGFAFLTDDRDSVGGYGGSSSSSSSYGSGRRF

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FIGURE 5468

CGCCCCGACTTGTGCGCCCGGGAAACCCCGTCGTTCCCTTTCCCCTGGCTGGCAGCGCGGAGGCCGCACGATGCCT
GGAGTTACTGTAAAAGACGTGAACCAGCAGGAGTTCGTCAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGGAAG
CTGAAAGTCCCCGAATGGGTGGATAACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAACTGG
TTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACCAAG
ATCTATGGGGGACGTGAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGCCGG
GTCCTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGCAAACTGACACCTCAGGGA
CAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAACCATGCTGGGTT
AATAAATTGCCTCATTCGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5469

MPGVTVKDVNQQEFVRALAAFLKKSGKLKVP EWDTVKLAKHKELAPYDENWIFYTRAASTARHLYLRGGAGVGSM
TKIYGGRQRNGVMPSHF SRGSKSVARRVLQALEGLKMVEKDQDGG RKLTPQGQRDLDR IAGQVAAANKKH

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FIGURE 5470

GGGCGCCCCGCCGGTCACTTCCGCGCGGACACCAGCCTTGAGAGCCCAGGGAGATGGAAAGACTTCGCCCCGAGGG
GCGGCCTCCCCAGGCCCCCTCCCGGCCTGGCCTGGTTCCTCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG
AACGAGCTGGAGACAAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCCAGCC
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCCTGCTTTGCTGTCTGCATGCCGAC
ATGCTGGGCTCACTGGGCCCCAAGGAGGCCAAGAAGGCCTTCCTGGACTTCTACCACAGCTTCTGGAGAAGACA
GCGGTTCTCCGGGTGCCGGTCCCTCCCAACGTCGCCTTTGAACTTGACCGCACTAGGGCTGACCTCATCTCCGAG
GATGTCCAGCGGCGGTTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCGGCGAGCTGGAGGACTTC
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCAGCTGGAGGCTTGGGTGGGCGGGAC
CGAGCCAGCTACGAGGCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATAACC
ATCTCTACCGACGAAGAAAAGAGTGCTGCCGTGGTCAACGCCATTGGCCTGTACATGCCACCTTGGGGTGCGG
ACCAAGAGTGGAGACAAGAAGTCGGGGAGGAACCTTCTCCGGAAAAAGGTGATGGGGAACCGGCGGTCCGACGAG
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCCTGGATGCCGCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA
GATTTTCGACACCTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCGGAAGGGAGGCGTGGGGATG
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTCTGCACCTCTGTCCCTGGAC
AGCCAGACCGGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGCCCAATGAGCCTG
GAGTCTTGGCGCCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGGAG
CCGGGGCGGTCCGGACTGGAGCTTGAACCAGAAGAGCCTCCCGGCTGGCGGGAACCTCGTCCCCCAGACACCTG
CACAGCCTGCCCCAAGAGCCAGGTGAAGCGGCAGGAGGTGCTCAGCGAGCTGCTGGTGACAGAGGCGGCCACGTG
CGCATGCTGCGGGTGCTGCACGACCTCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCCCTTGGAGGAGCTG
CAGAACATCTTCCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCCTGTTCTCGATCGCCTGATGAAGCGGAGG
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGACGTGCTGCTGGCCCGGTTTGATGGTGCTGAGGGCTCCTGG
TTCCAGAAAAATCTCCTCCCGCTTCTGCAGCCGCCAGTCAATTTGCCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG
GACCTTCGGTTCTGTGCCTTCGTGCAGGAAGCTGAGAGCCGCCCGCGGTGCCGCCGCTGCAGCTGAAGGACATG
ATCCCCACGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC
ACAGAACGGGAGAAAGTGGAGCTGGCAGCCGAGTGCTGCCGGGAAATTCTACACCACGTCAACCAAGCCGTGCGT
GACATGGAGGACCTGCTGAGGCTCAAGGACTATCAGCGGCGCTGGACTTGTCCACCTTCGGCAGAGCAGCGAC
CCTATGCTGAGCGAGTTCAAGAACCTGGACATACCAAGAAGAAATTGGTCCACGAGGGGCCCCACTGACGTGGCGG
GTGACTAAGGACAAGGCAGTGGAGGTGCATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCCAGCGCCAGGAC
GAGCGGCTGCTGCTCAAGTCCCATAGCCGGACACTGACGCCCCACGCCGATGGCAAGACCATGCTGCGGCCCGTG
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAAGCCTTCTACGTCTTTTTTACCTGGGAC
CAGGAGGCCCAGATATACGAGCTGGTGGCACAGACTGTGTGCGGAGCGGAAAACTGGTGTGCTCTCATCACTGAG
ACTGCCGGATCCCTGAAAGTCCCTGCCCCCTGCCTCTCGCCCTAAGCCCCGGCCCAGCCGAGCAGCACCCGAGAA
CCCCCTCCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCGGACCGAGAGAATC
CTCAGTGACCTCCTGCCCTTCTGCAGACCAGGCCCCGAGGGCCAGCTCGCTGCCACGGCCCTTCGGAAAGTGCTG
TCCCTGAAGCAGCTTCTGTTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCCA
GGGGGCGGCCCCCTGAGCCCAGCACGGACCCAGGAAATCCAGGAGAACCTGCTCAGCTTGGAGGAGACCATGAAG
CAGCTGGAGGAGTTGGAGGAGGAATTTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTCTGTCCCC
CAGCCTGGCTGCACTTGAAGTTCCCGCCCAGGAAGGCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA
GGGACACCCCCACCCACACAGCTGCCGCAGCATCTCACACCCCGAGGGCCTGAGGAGAGGGAGCTGTGGGCCAC
GCCTGGGAGGGGCCCCAGCTGGGGTTACTGGCCCCGATGAGCCTCGGCCATCTCTCCCTCCTGCCCTCTGCTTGG
GGGACTCAGGGCTCCATTCTGGAGGGCACACGGTGACCCGGGCCATCTCAGTATTGCCTGTGGGGGCCACCCCT
CCACCCCCACCCCCAAGTGCTTCGCTCTGTTTTTATACCTGAATTGGAGGGTTTATTTTTTAATATATATTAT
CTAAGAAGAAAAA

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FIGURE 5471

MEDFARGAASPGPSRGLVPVSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLMALLQHVALQFEPGPL
LCCLHADMLGSLGPKEAKKAFDFYHSFLEKTAVLRVPVPPNVAFELDRTRADLISEDVQRRFVQEVVQSQQVAV
GRQLEDFRSKRLMGMTPEQEQAQLEAWVGRDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLY
MRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKPGATD
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREPGADAPLELGDSSPQGPMLES LAPPESTDEGAETESP
EPGDEGEPGRSGLELEPEEPPGWRELVPD TLHSLPKSQVKRQEVISELLVTEAAHVRMLRVLHDLFFQPM AECL
FFPLEELQNIFFSLDELIEVHSLFLDRLMKRRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFC SRQSFAL EQ
LKAKQRKDP RFCAFVQEAESRPRCRLQLKDMIPTMQRLTKYPLLLQSIGQNT EEP TEREKVELAAECCREILH
HVNQAVRDMEDLLRLKDYQRRDL SHLRQSSDPMLSEFKNLDITKKKLVHEGPLTW RVTKDKAVEVHVLLDDLL
LLLQRQDERLLLKSHSRTLTPDPGKTMLRPVLR L TSAMTREVATDHKAFYVLFTWDQEAQIYELVAQTVSERKN
WCALITETAGSLKVPAPASRPKPRPSPSSTREPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQLAA
TALRKVLSLKQLLFP AEEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEELEEEFCRLRP LLSQ
LGGNSVPQPGCT

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FIGURE 5472

CCGCCGAGCCTCTGTGCGGTGGGACCAACGGACGGACGGACGGACGCGCGCACCTACCGAGGCGCGGGCGCTGC
AGAGGCTCCCAGCCCAAGCCTGAGCCTGAGCCCCGCCCGAGGTCCCCGCCCGCCCGCCTGGCTCTCTCGCCGCG
GAGCCGCCAAG**ATG**GGGGACAAGAAAGATGACAAGGACTCACCCAAGAAGAACAAGGGCAAGGAGCGCCGGGACC
TGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAGATGTCAAGTGAAGAGGTCTGCCGGAATAACA
CAGACTGTGTGCAGGGTTTTGACCCACAGCAAAGCCAGGAGATCCTGGCCCGGGATGGGCCTAACGCACTCACGC
CACCGCCTACCACCCAGAGTGGGTCAAGTTTTGCCGGCAGCTCTTCGGGGGCTTCTCCATCCTGCTGTGGATCG
GGGCTATCCTCTGCTTCCTGGCCTACGGTATCCAGGCGGGCACCGAGGACGACCCCTCTGGTGACAACCTGTACC
TGGGCATCGTGCTGGCGGCCGTGGTGATCATCACTGGCTGCTTCTCCTACTACCAGGAGGCCAAGAGCTCCAAGA
TCATGGAGTCCTTCAAGAACATGGTGCCCCAGCAAGCCCTGGTGATCCGGGAAGGTGAGAAGATGCAGGTGAACG
CTGAGGAGGTGGTGGTGGGGACCTGGTGAGATCAAGGTGGAGACCGAGTGCCAGCTGACCTGCGGATCATCT
CAGCCCACGGCTGCAAGGTGGACAACCTCCTCCTGACTGGCGAATCCGAGCCCCAGACTCGCTCTCCCGACTGCA
CTCACGACAACCCCTTGGAGACTCGGAACATCACCTTCTTTTCCACCAACTGTGTGGAAGGCACGGCTCGGGGCG
TGGTGGTGGCCACGGGCGACCGCACTGTATGGGCCGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGA
CGCCCATCGCCATCGAGATTGAGCACTTCATCCAGCTCATCACGGCGTGGCTGTCTTCTGGGTGTCTCCTTCT
TCATCCTCTCCCTCATTCTCGGATACACCTGGCTTGAGGCTGTATCTTCTCATCGGCATCATCGTGGCCAATG
TCCCAGAGGGTCTGCTGGCCACTGTCACTGTGTGTCTGACGCTGACCGCCAAGCGCATGGCCCGGAAGAACTGCC
TGGTGAAGAACCTGGAGGCTGTAGAAACCCTGGGCTCCACGTCCACCATCTGCTCAGATAAGACAGGGACCCCTCA
CTCAGAACCGCATGACAGTCGCCCACATGTGGTTTTGACAACCAGATCCACGAGGCTGACACCACTGAGGACCAGT
CAGGGACCTCATTGACAAGAGTTGCGACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGCGCTG
TCTTCAAGGGTGGTCAGGACAACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATGCGTCTGAGTCTGCCCTGC
TCAAGTGCATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGCAACAAGAAAGTGGCTGAGATTCCCT
TCAATTCCACCAACAAATACCAGCTCTCCATCCATGAGACCGAGGACCCCAACGACAACCGATACTGCTGGTGA
TGAAGGGTGGCCCCGAGCGCATCCTGGACCGCTGCTCCACCATCCTGTACAGGGCAAGGAGCAGCCTCTGGACG
AGGAAATGAAGGAGGCCTTCCAGAATGCCTACCTTGAGCTCGGTGGCCTGGGCGAGCGCGTGCTTGGTTTCTGCC
ATTATTACCTGCCCGAGGAGCAGTTCCCCAAGGGCTTTGCCTTCGACTGTGATGACGTGAACCTTACCACGGACA
ACCTCTGCTTTGTGGGCCTCATGTCCATGATCGACCCACCCCGGGCAGCCGTCCCTGACGCGGTGGGCAAGTGT
GCAGCGCAGGCATCAAGGTCAATCATGGTCACCGGCGATCACCCCATCACGGCCAAGGCCATTGCCAAGGGTGTGG
GCATCATCTCTGAGGGCAACGAGACTGTGGAGGACATCGCCGCCCGGCTCAACATTCCCGTCAGCCAGGTTAACC
CCCGGGATGCCAAGGCCTGCGTGATCCACGGCACCGACCTCAAGGACTTCACCTCCGAGCAAATCGACGAGATCC
TGCAGAATCACACCGAGATCGTCTTCGCCCCGACATCCCCCAGCAGAAGCTCATCATTGTGGAGGGCTGTGAGA
GACAGGGTGAATTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCGCTCTGAAGAAGGCCGACATTGGGG
TGGCCATGGGCATCGCTGGCTCTGACGTCTCCAAGCAGGCAGCTGACATGATCCTGCTGGACGACAACCTTGCT
CCATCGTCACAGGGGTGGAGGAGGGCCGCCTGATCTTCGACAACCTAAAGAAGTCCATTGCCTACACCTGACCA
GCAATATCCCGGAGATCACGCCCTTCTGCTGTTTCATCATGGCCAACATCCCGCTGCCCCCTGGGCACCATCACCA
TCCTCTGCATCGATCTGGGCACTGACATGGTCCCTGCCATCTCACTGGCGTACGAGGCTGCCGAAAGCGACATCA
TGAAGAGACAGCCCAGGAACCCGCGGACGGACAAATTGGTCAATGAGAGACTCATCAGCATGGCCTACGGGCAGA
TTGGAATGATCCAGGCTCTCGGTGGCTTCTTCTCTTACTTTGTGATCCTGGCAGAAAATGGCTTCTTGCCCGGCA
ACCTGGTGGGCATCCGGCTGAACTGGGATGACCGCACCGTCAATGACCTGGAAGACAGTTACGGGCAGCAGTGGGA
CATACGAGCAGAGGAAGGTGGTGGAGTTCACCTGCCACACGGCCTTCTTTGTGAGCATCGTTGTGCTCCAGTGGG
CCGATCTGATCATCTGCAAGACCCGAGGAACCTCGGTCTTCCAGCAGGGCATGAAGAACAAGATCCTGATCTTCG
GGCTGTTTTGAGGAGACGGCCCTGGCTGCCTTCTGTCTACTGCCCCGGCATGGACGTGGCCCTGCGCATGTACC
CTCTCAAGCCCAGCTGGTGGTTCTGTGCCTTCCCCIACAGTTTCTCTCATCTTCGTCTACGACGAAAATCCGCAAA
TCATCCTGCGCAGGAACCCAGGGGGTTGGGTGGAGAAGGAAACCTACTAC**TGA**CTCAGCCCCACCACATCGCCC
ATCTCTTCCCCGTCCCCCAGGCCCAGGACCGCCCTGTCAAGTCCCCCAATTTTGTATTCTGGGGGGAGGAGCCC
TCTCTTCTGTGGCCCCACCTTGGCCCCCACCCTCCACTATCTCCTGCCGCCCCACTCTGGCTGGCTTCTCT
CCCCTGCCCCAAACCTCTCTCCTCTCTTTTTCTGTGTGAGTTTCTCTCCTCTCCTCACCCCTCTATCCATTCC
TCCCCCCCCAGCCACCTCCCTGGGCTCTTTTTTACTCCCTTCAGCCCCCGGCTGATGCCATCTCTGGTTCTGG
ACAATTATCAAAATATATCAGTGGGGAGAGAG

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FIGURE 5473

MGDKKDDKDSPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALTTPPT
TPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNLYLGIVLAAVVIITGCFSYQQEAKSSKIMES
FKNMVPQQALVIREGEKMQVNAAEEVVVGDLVEIKGGDRVPADLRIISAHGCKVDNSSLTGESEPQTRSPDCTHDN
PLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFFILS
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNR
MTVAHMWFDNQIHEADTTEDQSGTSFDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDRVAGDASESALLKCI
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLQGKEQPLDEEMK
EAFQONAYLELGGGLGERVLGFCHYYLP EEQFPKGFAFDCDDVNFTTDNLCFVGLMSMIDPPRAAVPDAVGKCRSAG
IKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTSEQIDEILQNH
TEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT
GVEEGRILFDNLKKSIAYTTLTSNIPEITPFLLFIMANIPPLGTITILCIDLGTDMPAISLAYEAAESDIMKRQ
PRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLED SYGQQWTYEQ
RKVV EFTCHTAFFVSIVVVQWADLIICKTRNSVFQQGMKNKILIFGLFEETALA AFLSYCPGMDVALRMYPLKP
SWWFCAFPYSFLIFVYDEIRKLILRRNPGGWVEKETYY

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FIGURE 5474

CCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTACCTGCAGAGGTGCCTGTGTCTCAGCCT
GACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGCCATTGGGCGGGATCGCCGGGGGCGC
AGGGCCCGGAGGAACAACAGTGGAGAAGCAGGCGGGGCAGCCACACAGGAGCTCTTCTGCTCAGCCTGTGACCAG
CTCTTTCTCTCACCCACCAGCTACAGCAGCACCTGCGGAGTCACCGGGAGGGCGTCTTTAAGTGCCCCCTGTGC
AGTCGTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCATAGCAGCGAGTCACACTTCCTGTGT
GTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCCACCGGCGAGCCCACACCCGAATCCTCTG
CATTTCATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCTTTATCACCGGCGTACTCATGGGGTAGGG
GGTGTCCCTCTGCCCACAACACCAGTCCCACCAGAGGAACCTGTCAATTGGTTTCCCTGAGCCAGCCCCAGCAGAG
ACTGGAGAGCCAGAGGCCCTTGAGCCCCCTGTGTCTGAGGAGACCTCAGCAGGGCCCCGCTGCCCCAGGCACCTAC
CGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCTTGACGTGACCCGGCACCAACGTTTTGTGCATCGGCTG
GAGCGGCGCCATAAATGCAGCATTGTGTGGCAAGATGTTCAAGAAGAAGTCTCACGTGCGTAACCACCTGCGCACA
CACACAGGGGAGCGGCCCTTCCCCTGCCCTGACTGCTCCAAGCCCTTCAACTCACCTGCCAACCTGGCCCCGCCAC
CGGCTCACACACAGGAGAGCGGCCCTACCGGTGTGGGGACTGTGGCAAGGCTTTACGCAAAGCTCCACACTG
AGGCAGCACCGCTTGGTGCATGCCAGCACTTCCCCTACCGCTGCCAGGAATGTGGGGTGCCTTTTACCCTCCT
TACCGCCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAAGTGTGCGAGTGTCCCCCGCTCCTTC
TTGCTGCGTCGGCTGCTGGAGGTGCACCAGCTCGTGGTCCATGCCGGGCGCCAGCCCCACCGCTGCCCATCCTGT
GGGGCTGCCTTCCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGCCGCTGCTGCCCAGGCCCCACGGCGC
TTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCAGGCACACGAGGCGGCCCATGCAGCT
GCTGGGCCTGGAGAGGTCTGGCTAAGGAGCCCCCTGCCCTCGAGCCCCACGGGCCACTCGTGCACCAGTTGCC
TCTCCAGCAGCCCTTGAAGCACTGCTACAGCATCCCCTGCGGCCCTGCCGCGCGCGGGGTCTAGAGTGCAGC
GAGTGCAAGAAGCTGTTCAGCACAGAGACGTCACTGCAGGTGCACCGGCGCATCCACACAGGTGAGCGGCCATAC
CCATGTCCAGACTGTGGCAAAGCGTTCCGTACAGGTACCCACCTGAAAGACCACCGGCGCCTGCACACAGGTGAG
CGGCCCTTTGCCTGTGAAGTGTGTGGCAAGGCCTTTGCCATCTCCATGCGCCTGGCAGAACATCGCCGCATCCAC
ACAGGCGAACGACCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTCCTTCTCCAACCTCTGGAAGCACCGC
AAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGAGGCGGAGGCTGCCGTTGGCCTGGCC
GTCATGGAGACTGCTGTGGAGGCGCTACCCCTGGTGGAAAGCCATTGAGATCTACCCCTCTGGCCGAGGCTGAGGGG
GTCCAGATCAGTGGCTGACTCTGCCGACTTCTCTTTGGCACCTCCATTCCCTGTTGCTGAAGGCCCTCCAGCA
TCCCCCTAAGCATCTGTACATACTGTGTCCCTTCTCTTCCCATCCCCACCACCTTGTAAGTTCTAAATTGGATT
TATTCTCTCGTGAGGGGGGTGCTCTGGGGTCTTGACACACATAAAGGTGCCCCCCCCACCTTCCACCTCTTAGCA
CTGGTGACCCCAAAAATGAAACCATCAATAAAGACTGGGTGCCCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 5475

MFKKKSHVRNHLRTHHTGERPFPCPDCKPFNSPANLARHRLTHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHF
PYRCQECGVRFHRPYRLLMHRYHHTGEYPYKCRECPRSFLLRRLLEVHQLVVHAGRQPHRCPCGAAFPSSLRLR
EHRCAAAAAQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAGPGEVLAKEPPAPRAPRATRAPVASPAALGSTATA
SPAAPARRRGLECECKKLFSTETSLQVHRRITHTGERPYPCPDCKAQRQSTHLKDHRRLHTGERPFACEVCGKA
FAISMRLAEHRRITHTGERPYSCPDCKGSYRSF SNLWKHRKTHQQQHQA AVRQQLAEAEAAVGLAVMETAVEALPL
VEAIEIYPLAEAEQVQISG

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FIGURE 5476

TCTGAGAGGCGAGGCCGGGTGAGGCGGCGAGGGCGGCCCGACGGGCGCGGGACGGGACGGGGCAGCGAGGGCGCC
GGGAGCCGCGGGCCCGGAATCGGGGCGCTTCGCCCCGGGCCCCCAGCATGAAAGACCCCGGCGGACACAGGGTTTG
CCTTCCCGGATTGGGCCTACAAGCCAGAGTCGTCCCTGGCTCAAGGCAGATCCAGCTGTGGCACTTTATCCTGG
AGCTGCTGCGGAAGGAGGAGTACCAGGGCGTCATTGCCTGGCAGGGGGACTACGGGGAATTCGTCAATCAAAGACC
CTGATGAGGTGGCCCCGGCTGTGGGGCGTTTCGCAAGTGCAAGCCCCAGATGAATTACGACAAGCTGAGCCGGGCCC
TGCGCTATTACTATAACAAGCGCATTCTGCACAAGACCAAGGGGAAACGGTTACCTACAAGTTCAATTTCAACA
AACTGGTGCTGGTCAATTACCCATTTCATTGATGTGGGGTTGGCTGGGGGTGCAGTGCCCCAGAGTGCCCCGCCAG
TGCCGTGCGGTGGTAGCCACTTCCGCTTCCCTCCCTCAACGCCCTCCGAGGTGCTGTCCCCACCGAGGACCCCC
GCTCACCACCAGCCTGCTCTTCATCTTCATCTTCCCTCTTCTCGGCTGTGGTGGCCCGCCGCTGGGCCGAGGCT
CAGTCAGTGACTGTAGTGATGGCACGTGAGAGCTGGAGGAACCGCTGGGAGAGGATCCCCGCGCCCGACCACCCG
GCCCTCCGGATCTGGGTGCCTTCCGAGGGCCCCCGCTGGCCCGCCTGCCCATGACCCTGGTGTCTTCCGAGTCT
ATCCCCGGCTCGGGGTGGCCCTGAACCCCTCAGCCCCCTTCCCTGTGTGCGCTCTGGCCGGTCTCGGATCCCTGC
TGCCCCCTCAGCTCTCCCCGGCTCTGCCCATGACGCCACCCACCTGGCCTACACTCCCTCGCCACGCTGAGCC
CGATGTACCCAGTGTTGGCGGGGGGCCAGCGGCTCAGGGGGAGGCTCCCACTTCTCCTTCAGCCCTGAGGACA
TGAAACGGTACCTGCAGGCCCCACCCCAAAGCGTCTACAACCTACCACCTCAGCCCCCGCGCTTCTGCACTACC
CTGGGCTGGTGGTGCCCCAGCCCCAGCGCCCTGACAAGTGCCGCTGCCGCCCATGGCACCCGAGACCCACCGG
TCCCCTCCTCGGCTCGTCATCCTCTTCTTCTTCTTCCCTCCCCATTCAAGTTTAAGCTCCAGCGGCCCCCACTCG
GACGCCGCGCAGCGGGCAGCTGGGGAGAAGGCCGTAGCCGCTGCTGACAAGAGCGGTGGCAGTGACGGCGGGCTGG
CTGAGGGGGCAGGGGCGCTAGCCCCACCGCCCCGCCACCACAGATCAAGGTGGAGCCCATCTCGGAAGGCGAGT
CGGAGGAGGTAGAGGTGACTGACATCAGTGATGAGGATGAGGAAGACGGGGAGGTGTTCAAGACGCCCCGTGCCC
CACCTGCACCCCCCTAAGCCTGAGCCCGGCGAGGACCCGGGGCATCCCAGTGATGCCCTCAAGCTACGCTTTA
AGCGGCGCTGGAGTGAAGACTGTGCGCTCGAAGGGGGTGGGGGCCCGCTGGGGGCTTTGAGGATGAGGGTGAGG
ACAAGAAGGTGCGTGGGGAGGGGCCTGGGGAGGCTGGGGGGCCCCCTACCCCAAGGCGGGTGAGCTCTGACCTCC
AGCATGCCACGCCCCAGCTCTCCCTGGAGCACCGAGACTCCTGAAGGCTGTGGGCAGGGGACCTGTGTGCCCGC
ACCCCCCATGCTTCTTTTGCTGCCTTAAGCCCCCTATGCCCTGGAGGTGAGGGCAGCTCTTGTCTCTTCCCTG
CCTCCTCCCTTTTCCCTCCCCACATTTTGTATAAACTTTAATTTCTTTTTTTTAAAAATGGTGGGGGTGGGTGG
GTGCCCAGGGCTAGGGGCTATTCCCTGTCTCTGTGGGTTTCTAAGCTCTGGGCAAATTGGTGGTAGGGGAGGGA
GGGGGAAGTTAAGGGGTCACCTCCATTCTGGGGAATTTATATTTGAATTGAGGCTTTGGCCTTAACACCCAGGA
ACTTTTCTATTACAATCGCTTAGGAAGTAAAGCCTTGCTCCCTCCCTGTTCTCTGCCTCTTGTACCCCTCTGAC
CCACCCGCTCTGCCCCACTCCCAGCCCTCCTCAGCCCCAGCCCTGCCTGCCCTGCCCTCCAGGGGGCCATGAGT
GCCTAGGTTTCTCATACCCACAAGGTCACAGCAGGGGAGGGAGGGACAATTTTATAATGAACCAAAAAATTCAT
GTGTTGGGGGGTGGGGGGCGGAGGAGGGTGAGGGGTGCCGCCCATGGGCCACAAATCTCTACAAGTGCTGTAT
CCCTCTCCCACTCCCCACCCAGCACCGGTCCAACCCCTTCATCCCCAGCTGCTCCTAGGACTGGCCCATGGGCA
GGCGGGTGGGGGGATGGGAAGGGGTGCCCTGAAACCAAACTGGAAGCCCCCTCTGCCTCCCAGCTGGGGCCTCT
GGGGTGGGGTGGGGGGCTGTGGTCAAGCCTTATTCTGTATTGGGGACTGAGGGTGGGGGGAGTAGAGGGGGCCGCT
GGAGAATGTATTCAAAACAATAAACTTTGGACCTTTGGAAAA

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FIGURE 5477

MKTPADTGFAFPDWAYKPESSPGSRQIQLWHFILELLRKEEYQGVIWQGDYGEFVIKDPDEVARLWGVKCKPQ
MNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKLVLVNYPFIDVGLAGGAVPQSAPPVPSGGSHFRFPSTPS
EVLSPTEPRSPACSSSSSSSLFSAVVARRLGRGSVSDCSDGTSELEEPLGEDPRARPPGPPDLGAFRGPPLARL
PHDPGVFRVYPRPRGGPEPLSPFPVSPLAGPGSLLPPQLSPALPMTPTHLAYTPSPTLSPMYPSSGGGGPSGGGG
SHFSFSPEDMKRYLQAHTQSVYNYHLSPRAFLHYPLVVPQQRPDKCPLPPMAPETPPVPSSASSSSSSSSSPF
KFKLQRPPLGRRQRAAGEKAVAAADKSGGSAGGLAEGAGALAPPPPPQIKVEPISEGESEEEVETDISDEDEED
GEVFKTTPRAPPAPPKPEPGEAPGASQCMPLKLRFKRRWSEDCRLEGGGGPAGGFEDGEDKKVRGEGPGEAGGPL
TPRRVSSDLQHATAQLSLEHRDS

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FIGURE 5478

AGCCGTGCTCAGAAAGTTTCTGGATCCCAGGCTCATCTCCACAGAGGAGAACACGCAGGCAGCAGAGACCATGGG
GCCCATCTCAGCCCCCTTCTGCAGATGGCGCATCCCCCTGGCAGGGGCTCCTGCTCAGACCTCACTTTTCACCTT
CTGGAACCCGCCACCCTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGAGGGGAAGGAGGTTCT
TCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGGGGAAACAGTGGATGCCAACCG
TCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCCAGGGCCTGCATACAGCAATCGAGAGACAATATA
CCCCAATGCATCCCTGCTGATGCGGAACGTCACCAGAAATGACACAGGATCCTACACCCTACAAGTCATAAAGCT
AAATCTTATGAGTGAAGAAGTAACTGGCCAGTTCAGCGTACATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAA
CAACTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTACCTGTGAACCTGAGACTCAGAACACAACCTACCT
GTGGTGGGTAAATGGTCAGAGTCTCCCGGTGAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCT
ACTCAGTGTCAAGGAATGACGTAGGACCCTATGAATGTGAAATACAGAACCCAGCGAGTGCAAACTTCAGTGA
CCCAGTCAACCCTGAATGTCTCTATGGCCAGATGCCCCCACCATTTCCCCTTCAGACACCTATTACCATGCAGG
GGTAAATCTCAACCTCTCTGCCATGCGGCCTCTAATCCACCCTCACAGTATTCTTGGTCTGTCAATGGCACATT
CCAGCAATACACACAAAAGCTCTTTATCCCCAACATCACTACAAAGAACAGCGGATCCTATGCCTGCCACACCAC
TAACTCAGCCACTGGCCGCAACAGGACCACAGTCAAGGATGATCACAGTCTCTGATGCTTTAGTACAAGGAAGTTC
TCCTGGCCTCTCAGCTAGAGCCACTGTGAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATATAGTAGCT
CTGGTGTAGTTTCTGCATTTCAAGAAGACTGGCAGACAGTTGTTTTTATTCTTCTCAAAGCATTTCGAATCAGC
TACCATTCAAATTTGCTTCTTCTTCAAGATTTATGGAAAATACTCTGACGAGTACTCTTGAACACAAGTTCCTGA
TAACTTTAAGATCACGCCACTGGACTGTCTATGAACTTGCAAACAGGCTGATACCTTTGTGAAGTTGCCACCAA
AACACAGAAGGAAAAAAACATGAATTTTATTGAACATAATAATGAGGATAATGTTTTTAAGATTTTTTTTTT
TTTTTGAGATGGAATCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCACGATCTCAACTCACTGCAAGCTCCGC
CTCCTGGGTTTACACCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCTGCCACAACGCCCGG
CTAATTTTTTTGTATTTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCAATCTCCTGACTTCATGGTCCGCTGCCT
CAGCCTCCCCAAAGTTCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCCGTTTTTAAGATTTTTTATTTGAAAA
ATTGCCAATTCTTTAAGTGTTTTCTTTTTCAGATTTATGAATTTCTTTATCTTTAAGCTATCTATACCTTACTG
CAATTTGGTAAAGCAGACTTTTGTGAACAAAAATTATAACATTTACTTTTGCTCCCTACCTGACTGCCACAGAAC
TGGGCAACTATTCATGAGTATTCATATGTTTATGGTAATTCAGTTATTTGCACAAGTTCAGTGAGAATCTGCTGT
CTTTATAATGGGATATAGTTTAAACATTGGTTATATTACCAAGGCTTTGATTGGGATGTTATTTGAGAAAAAT
ACAGAGAATGATAGATTAAACGGAGTGTCTAATCTATCGTGTCAACCCCAAATTTTTACGTATGAGATCCTTTAGT
CCACCCAATGGCTGACAGTAACAGCATCTTTAACACAACCTTTTGTTCAAATGTACTATGGTCTCTTTTAGAGTC
AGACTCCTAGACTCACTTGTTCTCACTGTCTGTTTTAATTTAACCCAGGCATGCAATGCTAGATAATAAAATTC
TCCCTATTGGCTGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5479

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLLVHNLPPQDPRGYNWYKGETVDA
NRRIIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEV TGQFSVHPETPKPSIS
SNNSNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLFVSPRLQLSNGNRTLTL LSVTRNDVG PYECEIQNPASANF
SDPVT LNVLYGPDAPTISP SDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH
TTNSATGRNRRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

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FIGURE 5480

ATGATGGCGTATATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGGATCTG
ATGCACCAGGCTGTGCCCTACCCAAGCGCCCCCAGGAAGCAGCGGCGGAGCGCACCACTTCACCCGGAGCCAA
CTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCTATGCCCCGTGAGGAGGTGGCTCTGAAG
ATCAATCTGCCTGAGTCCAGGGTTTCAGGTTTGGTTCAAGAACCGGAGGGCTAAATGCAGGCAGCAGCGACAGCAG
CAGAAACAGCAGCAGCAGCCCCCAGGGGGCCAGGCCAAGGCCCGGCCTGCCAAGAGGAAGGCGGGCACGTCCCCA
AGACCTCCACAGATGTGTGTCCAGACCTCTGGGCATCTCAGATTCTACAGTCCCCCTCTGCCCCGGCCCCCTCA
GGCTCCCCAACCACGGCAGTGGCCACTGTGTCCATCTGGAGCCCAGCCTCAGAGTCCCCCTTTGCCTGAGGCGCAG
CGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGACCTCCGCCCCCTATGCCATGACCTACGCCCCGGCCTCCGCT
TTCTGCTCTTCCCCCTCCGCTATGGGTCTCCGAGCTCCTATTTTCAGCGGCCTAGACCCCTACCTTTCTCCCATG
GTGCCCCAGCTAGGGGGCCCGGCTCTTAGCCCCCTCTCTGGCCCCCTCCGTGGGACCTTCCCTGGCCCAGTCCCCC
ACCTCCCTATCAGGCCAGAGCTATGGCGCCTACAGCCCCGTGGATAGCTTGGAATTCAAGGACCCACGGGCACC
TGGAATTCACCTACAATCCCATGGACCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTGTAG

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FIGURE 5481

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEELEALFAKTQYPD VYAREEVALK
INLPESRVQVWFKNRRAKCRQQRQQQKQQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISDSYSPPLPGPS
GSPTTAVATVSIWSPASESPLPEAQRAGLVASGPSLTSAPYAMTYAPASAFCSPPSAYGSPSSYFSGLDPYLSPM
VPQLGGPALSPLSGPSVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFOIL

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FIGURE 5482

TGACAAGATGGCGGCAGGAGGCAGTGGCGTTGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTTCT
GGGGCTGCGGGCCCACTTCGGTGGACCCAGCGCTGAGGCGGCGGCGGCGAGGCCCAAGAAATAAGAAGCGGGGCTG
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCAGTTCCTGGAAGACGTGCGGCTACAGGAGCGCAC
GAGCGGTGGCTTGTTGTGAGAGGCCCAATGAAAACTCTTCTTCGTGGACACTGGCTCCAAGGAAAAAGGGCT
GACAAAGAAGAGAACCAAAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCCTCGA
GAACACATCCAAAGTCCCTGCCCCAAAGACGTCTCGCCCACCAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCCGCTCCT
CAACCCCTTCTGCAACAAGGGCCAAGCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC
AGACAACCCCTTGACAGGCCGTTGGTTGGCCAGGATGAGTTTTTCTTGAGCAGACCAAGAAGAAAGGAGTGAA
GCGGCCAGCACGCCTGCACACCAAGCCGTCCAGGCACCCGCCGTGGAGGTGGCGCCTGCCGGAGCTTCTTACAA
TCCATCCTTTGAAGACCACCAGACCCTGCTCTCAGCGGCCACGAGGTGGAGTTGCAGCGGCAGAAGGAGGCGGA
GAAGCTGGAGCGGCAGCTGGCCCTGCCCGCCACGGAGCAGGCCGCCACCCAGGAGTCCACATTCCAGGAGCTGTG
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAGGGGGAGCCAGGCCAGGGCGAGGGGCCGAGGCTGGGGATGCCGA
GGTCTGTCCCACGCCCCGCCCGCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGGGAGAAGGCTGT
GCACAGGCTGCGGGTACAGCAGGCCGCGTTGCGGGCCGCCCGGCTCCGGCACCAGGAGCTGTTCCGGCTGCGCGG
GATCAAGGCCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGCGGCGGCAGAGGCGGCGGCAGGCGGCGGGAGGC
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA
GCTGACAGACTCGCTCAGGACCCTGAAGCCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCCAGAGGAG
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTT
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

5946/6881
FIGURE 5483

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGTCAGCCACCATGTTTCAGCTGGCTGAAGCGGGGCGGGGCACGGGGCC
AGCAGCCCCGAGGCCATCCGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGG
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCATGGTGCTGG
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCCGGCTCCCGCG
TGGGGCCTGAGCCCACCACCGACTGCTTTGTGGCCGTCATGCACGGGGACACTGAGGGCACCGTGCCCGGCAACG
CCCTCGTCGTGGACCCGGACAAGCCCTTCCGCAAACTCAACCCTTTTCGAAACACCTTCCTCAACAGGTTTCATGT
GTGCCCAGCTCCCTAATCAGGTCCTGGAGAGCATCAGCATCATCGACACCCCGGGTATCCTGTGCGGTGCCAAGC
AGAGAGTGAGCCGCGGCTACGACTTCCCGGCCGTGCTGCGCTGGTTCGCGGAGCGCGTGGACCTCATCATCCTGC
TCTTTGATGCGCACAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA
AGATCCGCGTGGTGCTCAACAAGGCCGACATGGTGGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT
GGGCGCTGGGCAAGGTGGTGGGCACGCCCCGAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCCAGCCCCCTCC
TCGTGCCCGACAACCGGCGCCTCTTCGAGCTGGAGGAGCAGGACCTCTTCGCGACATCCAGGGCCTGCCCCGGC
ACGCAGCCTTGCGCAAGCTCAACGACCTGGTGAAGAGGGCCCCGGCTGGTGCAGATTACGCTTACATCATCAGCT
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAACAAGAAGAAGCAGCTGATCCTCAAACCTGCCCGTCA
TCTTTGCGAAGATTTCAGCTGGAACATCACATCTCCCCTGGGGACTTTCTGATTGCCAGAAAAATGCAGGAGCTGC
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC
ACGACATCGCCAAGCTCATGCCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGACGGGGGGCG
CTTTTGAGGGCACCCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTTCGCGCTGGCCAGCCACCTCA
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCCGCAACCTGCCCCGTGCGCTGGTGCCACCCTCCAAGCGACGCC
ACAAGGGCTCCGCCGAGTGAGCCGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCAGCTCCAGTCGGCTGCACG
CACACCCCTGCTCCGGCTCACACACGCCCTGCCTGCCCTCCCTGCCAGCTGTAAGGACCGGGGGTCTCCCTCCT
CACTACCGCCAGACACCCCGGTGGAAGCATTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACTGGCACACGCAGGCATCCATCCATCCGTCATT
CATTCAAATATTTATTGAGCACCTACTATGTGCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCAGGAGAGGGCACCTACACAGTCACGCAACACACA
CTAATTCTTGCGAGGGCCCCCAGCCCCCTCCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

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FIGURE 5484A

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTTCTTTTTTAAAAATTTTTTCTCACTGCGTTGCCAGGCTG
GTCTCAAACCTCTTTGGCTCAAGCCATCCATCCTCCTACCTCAGCCTCCCAAAGTGCTGAGATTACAAGCGTGAAC
CACCATGCCAGGAGGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTTCCTTCCACCTTTCCCGGCCTGCAGCTCCATGTGCAAGAAG
CTTCCGGCAACCACCTGAACCCAGAGCCCCAACAGCCGGCCCCCAGTGTGGACCTAGACTTCCTGGAAGATGACA
TCCTGGGCTCTCCTGCGACAGGGGGCGGGCGGGGGCAGTGGGGGGCGCTGACCAGCCCTGTGACATCCTCCAGC
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC
TGCCACCCCTGCAGCCTGCGGATGGCGGGGCAGGCCCGACGGGCGCTGGAGGGGCAGCGGCCGTGGCTGCGGGGC
CCCAAGCCCTCTTCCAGGCAGCACCGACCTGCTGGGGCTGCAGGGCCCGCTACCGTGCTGACCCACCAGGCC
TGGTGCCGCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTGTCAGCCTGTGGGCTGGGCAATG
TGACACTGCAGCCCATCCCGGGCCTCCAAGGCCCTGCCAATGGCAGCCCTGGGGGTGCCACGGCGGCCACACTGG
GCCTGGCGCCCATCCAGGTGGTGGGCCAGCCGTCATGGCGCTCAACACGCCCACCTCCCAGCTCCTGGCCAAGC
AGGTGCCCCGTCAGCGGCTACCTGGCCTCGGCGGCTGGCCCCCTCGGAGCCCGTGACGCTGGCGTCGGCCGGTGTCT
CGCCACAGGGGGCTGGCCTGGTCATCCAGAAGAACCTCTCGGCCGCTGTGGCCACCACGCTCAATGGGAACCTCTG
TGTTCCGAGGCGCGGGGGCGCCTCGGCTCCACCGGGACGCCCTCGGGACAGCCGCTGGCGGTGGCCCCAGGCC
TCGGCTCGTCGCCACTGGTCCCGGCGCCCAACGTGATCCTGCATCGCACACCCACGCCCATCCAGCCCAAGCCCG
CGGGGGTGCTGCCGCCCAAGCTCTACCAGCTGACGCCCAAGCCGTTTGCGCCCGCGGGGCGCCACGCTCACCATCC
AGGGCGAGCCGGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTTCATGGCGCGGGGAAGGCGG
GCCAGAACGTGGTGCTGTGCGGCTTCCCCGCGCCTGCGCTGCAAGCGAACGTCTTCAAGCAGCCACCGGCCACCA
CCACCGGAGCGGGCCCCGCGCAGCCCCCGGGGCCCTGAGCAAACCCATGAGCGTCCACCTCCTGAACCAAGGCA
GCAGCATCGTCATCCCCGCCAGCACATGCTGCCGGGCCAGAACCAGTTTCTACTGCTGGCGCCCCGGCGGTCC
AGCTCCCGCAGCAGCTCTCAGCCCTGCCGGCCAACGTGGGCGGGCAGATCCTGGCGGCCGCTGCCCCCACACAG
GTGGACAGCTCATCGGAACCCCATCCTCACAACCCAGAACCTGGCGGGCCCACTGAGCCTGGGCCCCGTGTTGG
CCCCCACTCCGGGGCCACAGCGCGCACATCCTCTCCGCCGCTCCCATCCAGGTGGGCCAGCCTGCGCTCTTCC
AGATGCCCCGTGTGCTGGCGGGGGCAGCCTGCCACGCAGAGCCAGCCAGCGCCCCGCGGGCGCGGCCACCA
CTGTCTCCAGGGGGTACCCCTGCCCCCAGCGCCGTGGCCATGCTCAACACCCCCGACGGCCTGGTGACCCGG
CCACCCCTGCCGCTGCCACCGGGGAGGCCGCGCCTGTCTCACGGTGCAGCCTGCCCCCAGGCGCCCCCGCGG
TCAGCACACCCCTGCCCCCTGGGCCTCCAGCAGCCGAGGCGCAGCAGCCCCCGCAGGCCCCCACCCACAGGCCG
CCGCCCCGCTCAGGCCACCAACCCCCAGCCAGCCCTGGCCTGGCGTCTAGCCCGGAGAAGATCGTCTGGGGC
AGCGGCCCTGTGCCACCCCAAGGCCATCCTCACTCAGGACTCCCTGCAGATGTTTCTGCCCCAGGAGAGGAGCC
AGCAGCCCTCTCCGCAGAGGGGCCCCACCTCTCCGTGCTGCTCGGTTCATAGTCAGCGCCCCGCTCCCGCCC
AAGACCCAGCCCCAGCCACCCCGCTCGCCAAAGGAGCTGGCCTCGGCCCTCAGGCCCCCGACAGCCAGGCTTCCC
CGGCTCCGGCCCCCAGATCCCGGCAGCGGCTCCGCTGAAGGGCCCAGGCCCTCTTCGTCCCCGTCACTACCTC
ACCAGGCCCTCTGGGGGACAGCCCCACCTGCCCTCCCCACACCCACCCGCCCCCTTCCCGCCACCCCTCCC
GGCCACAGAGTGTGTCCGCCCCTCCCTCAGAGCCACCCCTTGACCCCTTGCCCCCACCCCAAGGCCCCCCCACTC
TGCCTGGCATCTTTGTATCCAAAACAGCTAGGCGTTCCCCCGCCTGCCAGCAAACCCGGCCCCCTACTGCCCCAG
GCCCCCGCAGCCGCTCTCCGCCCCCAGTCCCAGCCGCTGAGGGACCGTGCCCCCAGCCCCCACCCTCCCTC
CATCCTCCACCTCCTCTGCTGTGGCCTCCTCCTCTGAGACGTCCTCCAGGTTGCCAGCCCCCTACGCCATCCGACT
TCCAGCTCCAGTTCCACCCAGCCAGGGGCCCCACAAGTCCCCCACTCCCCCTCCAACCTCCACCTGGTCCCTG
AGCCGGCAGCACCCCCCCCCACCGCCTCCTCGGACCTTCCAGATGGTGACCACCCCTTCCAGCGCTGCCCCAGC
CGAAGGCTCTTCTCGAGAGATTTACCAGGTGCCGTCCGGAATCATCCTCCAGAACAAGGCTGGGGGGGCCCCCTG
CCGCCCCGCAGACCTCCACCAGCCTGGGGCCCCCTACCAGCCCCGCTGCGTCTGTGCTGGTCAGTGGGCAGGCC
CATCTGGGACCCCCACTGCCCCAGCCAGCCCCCGCCCCGGCACCCATGGCCGCCACAGGCTCCCTCCTCTGCT
TTCCAGCCGAGAACAAGGCTTTTGCCAGCAAACCTCCCGACCCTGAATGTGGCCAAGGCCGCTTCTCCGGGCCAG
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACCTGAGTGGCCTGAAGAAGCCCCCACGCTTCAGCCCAGCAAGG
AAGCCTGTTTCTGGAGCATTTGCACAAACACCAGGGCTCCGTCTGACCCCGACTACAAGACGGCCTTCCCTC
CCTTTGAGGACGCCCTGCATCGCCTCCTGCCCTACCATGTCTACCAGGGCGCCCTCCCCTCCCCAGTGACTACC

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FIGURE 5484B

ACAAAGTGGACGAGGAGTTTGGAGACGGTCTCCACGCAGCTGCTGAAACGCACCCAGGCCATGCTCAATAAATATC
GGCTCCTGCTCCTGGAGGAGTCCCGGAGGGTGAGCCCCCTCAGCGGAGATGGTAATGATCGACCGAATGTTTCATTC
AGGAGGAGAAGACCACCCTTGCCCTTGATAAACAGCTGGCCAAGGAGAAGCCGGACGAGTACGTGTCTTCCTCCC
GCTCGCTCGGCCTCCCCATCGCAGCCTCTTCCGAGGGTCATCGGCTTCCCGGCCACGGCCCCCTGTCTGTCTTCAG
CTCCCGGGGCTCCACCCAGCCCCCTCCACACCTGCCCCACCAAGCTTGTGATCCGGCACGGCGGGGACAGCGGCT
CCCCCTTCGGTCACCTGGGCCCCGGGCGTCTCCTCCTGTCTCCTCTTCCTCCTCCTCCTCTGCGCCTCCTCCT
TGGACGCCGACGAGGACGGCCCCATGCCCTCCCGCAACCGCCCCGCCATCAAGACCTACGAGGCCCCGGAGCCGCA
TCGGGCTCAAGCTCAAGATCAAGCAGGAAGCCGGGCTCAGCAAGGTCGTGCACAACACGGCCCTGGACCCCGTGC
ACCAGCCCCCGCCACCCCCGCTACCCTCAAGGTGGCCGAGCCCCCGCCACGGCCGCCACCACCACCGCCGCCCA
CGGGCCAGATGAACGGCACGGTGGACCACCCGCGCCTGCCGCCCCCGAGCGCAAGCCCTGGGCACCGCCCCGC
ACTGCCCGCGCTGCCACTGCGCAAGACCTACCGCGAGAACGTGGGGGGCCCTGGCGCGCCGGAGGGGACGCCCCG
CAGGCAGGGCACGGGGAGGCAGCCCGCGCGCCTGCCCGCCAAAGTGGACGAGGCCACCAGCGGGCTCATCCGCG
AGCTGGCGGCCGTGGAGGACGAGCTGTACCAGCGTATGCTGAAGGGCCCCCGCCAGAGCCCGCAGCCAGCGCCG
CCCAAGGCACCGGGGACCCCGACTGGGAGGCGCCCGGGCTGCCCCCTGCCAAGCGGCGCAAGTCCGAGTCGCCCCG
ACGTGGACCAGGCCAGCTTCTCCAGCGACAGCCCGCAGGATGACACGCTCACCAGACACCTGCAGAGCGCCATCG
ACAGCATCCTGAACCTGCAGCAGGCCCCCGGCCGACGCCCGCGCCCTCGTACCCCCACGCTGCCTCGGCCGGCA
CCCCCGCATCCCCGCCGCCCTGCACAGGCCCGAGGCCTACCCACCCTCCAGTCACAACGGTGGCCTCGGCGCCA
GGACGTTGACCAGATAACACCGGGCCGCTCCCCCTTCCCCGTCCCCCTCCTCCCGAAGACGCCGGGACAGTCGGGT
GTCCGCCCTCAGCCTCCTGGGACTCGAGCCGGGGATCCCCCTGACGGTTTTTCTTGCTAAGTTATTTGAGTCAC
AAAGGCCCTCCTTCCCTGCCGCTGCTTCAGCTGGGTGCTGGGGGTGGGCGTGGATTTAGGGAGGGGGCTGTGA
TGTAACAGTCTCCCCTGCCAAGGAGGGGCAAAGTGCTGTGTAGTTCCTGTTTCTTCCCATTTCTTGGCACAC
TCTGCCCCCTGTGTCGGGGGACACGCGCATGTGTTGCCAGGGATGGGGCCACCGGGTTGATGCCAACGCTCCGG
GTGCCTGTCTGTCTGTGTGGCTTCTCAGATGGTGGAGGGTGTGGGAGCTGGCAGGGTCCTTCCAGACAGTCTC
AGCCTCTCCCCGCCGCCCCCAACAGGCTGTCAAACAAAACCGGAGAGGGGGTGGGGGAGCCAGCCTCCAGCGTG
CTGTGCCCCGAGGCACCCGTGTGACATCCGCACGTCCAGCTCCGTGACCTGTGTGTGTGTGTGTGTGCACAAGTG
AGTGAGAGATTTTGAACGCCACCCCTCGACTTTGAAATCTGAGCAAAACAAGAACTGGGGTCTTCTCTCCCC
CGAACCTCTCCCCAGCTAGTCTTCCCTCTGTTCTTCTGCTCCAGCCGCCCGCGCCAGATTTTGAAATCTCGGA
GACAAAACCTAGTACTGTAAGATAAATTTTTTTGTACTGTATTTATTGTGTATAACGATTTTTTTAAAGGAGAAT

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FIGURE 5485

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTTCTCTGGCC
TCTTTGGAGGCTCATCCAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAACATGTTCAAAATGGCCA
AAAACCTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCCAAGAGGCCATTAACTGTTTGATGC
GAGCAATCGAGATCTACACAGACATGGGCCGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCACTACGAGCAGTCTGCAGACTACTACAAAGGCGAGG
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAGACTACT
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC
TGTTCCCAGCTTTCTCTGATTCCCGGGAATGCAAGTTGATGAAAAAATTGCTAGAGGCCACGAGGAGCAGAATG
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGGCTGGACCAGTGGCTCACCACCATGCTGC
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTGCCCGTCT
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG
GCAGGCTCCTCTTCCCCCAGCCCCGGGAGCCTCCCCCAGCTTCCTGCAGCCCCGACCTCTCAGGTTAGACCCTGG
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTTCTTGG
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAAATAAAAAACAACACTTTTGC

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FIGURE 5486

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGCGGCA
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCTGTGGGGACTGGAGGCCAGAAAACGGCTGCGGG
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGGCAGGAGTGA
AAGGACTGACCATGCTGGATCACGAACAGGTAACCTCCAGAAGATCCCGGAGCTCAGTTCTTGATTTCGTACTGGGT
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG
ACACTGAGGATATAGAGAAGAAACCAGAGTCATTTTTTCACTCAATTTCGATGCTGTGTGTCTGACTTGCTGCTCCA
GGGATGTGATAGTTAAAGTTGACCAGATCTGTACAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTTGGCT
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAATAAAGTTGCCAAAGTTAGCC
AAGGAGTAGAAGATGGGCCCCGACACCAAGAGAGCAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG
TGGTCTTCTGCCCTGTAAAGAAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCAGTTCTGATA
CATATGAGGAAGATTCTGAGTTGTTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCTTGACC
TGCTTCTGAGGACTTTGTGAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCTCCTCACAACAACCTTCTTCTTCTCGATGGCATGAAGG
GGAATGGGATTGTGGAGTGCCTTGGCCCCAAGTGAACCTCAAGATTTGGCAGCCCCAGAGATGCCAACTGCAGCAT
GCCCACCTGTATTCCCTGTCCCTTCTTTCATGAAGGCATCTCCAGGCAAGGAAAACCTGAAGTCATTGGCCCCGAT
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG
CGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTGAGGCTGCCTGTCATCCCGGGCCTGCCAGCTCCCCTGAGTGAT
GAGCACTTCCAAGCACCCCTCTGCCCTTTCTGTGCTTATGCTGTCCCGGCCTCGCCAGCCCTCTGGGGCATTG
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTCACCTTCTTGACTTATTCCCCA
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCATGAGGCACCAAGTGAAGCA
CAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGAAAAACCATGACAGGCAAATGCATTTCTCTGGAGTTTGAGA
CCCTGACAAAACAACAGGTGGCATCTGGTGTGCTGTTCTTGAGTTTTCTGTTTAGGATTAGTTGAGTTCCAGCTGGG
TTTTGGGAGAAAAGGAGATGCTACCAAGTCTTGATGTTAGGGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTG
TCTTTCAAGGCAGGTTCTTGGGGCTTCAAGGCTAGGAGGGAGGAGCCTGCCCTTTTAACAGAACCCAGTCACAT
GCGGCTCAAGTCACTCAGAGGCTGTTGCATTTCAAGGCTATGTTGGTCCTTTGTTTACCTCCTAAACCACAGCTG
TTTGTGTTTACATATGTTGTGAATTTTCTTGGTTCTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA
TTTGCTTGTTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTCAGACCT
GAGGCTCTA

5951/6881
FIGURE 5487

GTCATTGGCCCGATACAAAACATTTCTTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGC
TGCTCGACAAGGGGCGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAGGCTGCCTGTTCATCCCGGGCCTGCCAG
CTCCCCTGAGTGATGAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCCTTATGCTGTCCCGGCCTCGCCAGC
CCTCTGGGGCATTTGTGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTCACCTTCTT
GGACTTATTCCCCACCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCCAGGCCCCATGAGG
CACCAGTGGAAGCACAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGCAGGTGGCATCTGGTGTGCTGTTCTTG
AGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGGTTTTGGGAGAAAGGAGATGCTACCAAGTCTTGGATGTTAG
GGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTGTCTTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGG
AGGAGCCTGCCCTTTTAACAGAACCCAGTCACATGCGGCTCAAGTCACTCAGAGGCTGTTGC

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FIGURE 5488

TGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCGCCATGATCC
GCTTTATCCTCATCCAGAACCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTCC
GGAACTTTAAGATCATTTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC
TGGCTTACCTGGAGGCCATTACAACTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAAGTGGACC
TGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGACGAGATGTTCTGGCTGGCGAAATCCGAGAGACCAGCC
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAGGGCAGGCGAGCCCCACCCCGGCCCGG
CCCCCTCCTGGACTCGCCTGCTCGCTTCCCCTTCCCAGGCCCCGTGGCCAACCCAGCAGTCCCTCCCTCAGCTGCCT
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCCACTGCCTCTGGGCCCTGGCTGTG
GGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTGCCGTTGTCGTGTGATGCCATAAGCGTCTGTGCGTGGAGTC
CCCAATAAACCTGTGGTCCTGCCTGGC

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FIGURE 5489

GGCACGCCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG
GCCCCGATCCCACCCTCCCGGACCTAAGAGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATT
CTGGCATCCCAGCCCTCAGTGTCCAAGACCCAGGCAGCCCGGGTCCCGCCTCCCGGATCCAGGCGTCCGGGATC
TGCGCCACCAGAACCTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA
CGTCCCACCCAGAGAACTCTCGTATTCCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACTCCCAGCTTT
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCAGCCTGGGGAATTTAAACACTCCAGCTTCCA
AGAGCCAAGGAACCTTCAGTGTGTGAACCTCAAACTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT
ACTCAACTCAGTCTTAGGAACGTGCGGTCTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGCTAAGA
AACCCCGGTGCTTCCCATC**ATG**GTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGCGGAGCCCACCGC
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCGCGGGACCA
GGTGCGCCGCTGCCTTCGAGCCAACCTGCTTGTGTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG
ACTGGGGGTGTGCGGGGCGGGGGTGCCTGGCGTTGGGCCGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCGA
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGCCGCTGGTGGTGTGAGCTTGATCGGCGGCGCCGCCAGCCT
GGACCCCGGCGCGCTCGGCCGTCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTCCGGC
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCCGCTCCGCCGCCATCAACGCCTCCGTGGGAGCCGC
GGGCAGTGCCGAAAATGCCCCAGCAAGGAGGTGCTCGATTGTTTCTGGATCTTGCGAGAAAATATCTTCCCTTC
CAACCTGGTGTGAGCAGCCTTTTCGCTCATACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGTGAA
GGTGCCCGTGGGGCAGGAGGTGGAGGGGATGAACATCCTGGGCTTGGTAGTGTGTTGCCATCGTCTTTGGTGTGGC
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT
GGTCTCCTGGATCATGTGGTACGCCCCCTGTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA
TGTGGGTTTACTCTTTGCCCGCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT
GGTACTGCCCCCTCATCTACTTCTTCAACCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT
GGCCACTGCCTTTGGGACCTCTTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGCCTGGAGGAGAATAATGG
CGTGGCCAAGCACATCAGCCGTTTCATCCTGCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCA
GTGCGTGGCCGAGTGTTCATTGCACAGCTCAGCCAGCAGTCCTTGGACTTCGTAAAGATCATCACCATCCTGGT
CACGGCCACAGCGTCCAGCGTGGGGGACGCGGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCCTCGA
AGCAGTCAACCTCCCGGTGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT
CCTCAATGTAGAAGGTGACGCTCTGGGGGACGAGTCTTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCAC
AGAGCCTGAGTTGATACAAGTGAAGAGTGAGCTGCCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCC
CCTCCTCAAACACTATCGGGGGCCCCGAGGGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATG**TAA**ACCCC
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGCCCCAGCACCTCCAGGACAGGAGATCTGGGAT
GCCTGGCTGCTGGAGTACATGTGTTTACAAGGGTTACTCCTCAAAACCCCCAGTTCTCACTCATGTCCCCAACTC
AAGGCTAGAAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCCTGTC
TCAGGGAGCAGGTCACAGGTACCATGGGGAATTCTAGCCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA
TTTTGGCGGTGTAGTTGTGGGGGATGTGTGTGTGCACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTTCTGTGACCTCCTGTCCCCATGGTACGTCCCACCTGTCCCCAGATCCCCTATTCCCTCCACAATAACAGAAA
CACTCCCAGGGACTCTGGGGAGAGGCTGAGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTTTAGCAATA
AAATTGAGTGTCAACTATTT

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FIGURE 5490

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGEILLRLLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNILGLVVFAIVFGVALRKLGPEGELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAIHGLLVLP LIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQQS LDFVKIITILVTATASSVGAAGIPAGGVLT LAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEP ELIQVKSELPDPLPVPTEEGNPLLKH YR
GPAGDATVASEKESVM

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FIGURE 5491

GTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGGGCCCCGCATCCCACCCTCCCGGACCTAAG
AGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATTCTGGCATCCCAGCCCTCAGTGTCCAAGA
CCCAGGCAGCCCGGTCCCCGCCTCCCGGATCCAGGCGTCCGGGATCTGCGCCACCAGAACTAGCCTCCTGCAG
ACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCACGTCCCACCCAGAGAACTCTCGTATTC
CCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACTCCCAGCTTTCGGACATCTGGCACACGGGGCAGAGCAG
AGAAGCCTCAGCGCCAGCCTGGGGAATTTAAACACTCCAGCTTCCAAGAGCCAAGGAACCTTCAGTGTGTGAAC
TCACAACCTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTTACTCAACTCAGTCCTAGGAACGTGGGT
CCTGGGAAGGAGCCCAAGCGCTCCCAGCCAGCTTCCAGGCGCTAAGAAACCCCGGTGCTTCCCATCATGGTGGCC
GATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGCGGAGCCCACCGCCAACGGGGGCGCTGGCGCTGGCCTCCATC
GAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCAGGTGCGCCGCTGCCTTCGAGCCAACCTG
CTTGCTGCTGCTGACAGTGGTGGCCGTGGTGGCCGCGTGGCGCTGGGACTGGGGGTGTCGGGGGCCGGGGGTGCG
CTGGCGTTGGGCGCGGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCGAGCTGCTGCTGCGTCTGCTGCGGATGATC
ATCTTGCCGCTGGTGGTGTGACAGCTTGATCGGCGGCGCCGCCAGCCTGGACCCCGGCGCGCTCGGCCGTCTGGGC
GCCTGGGCGCTGCTCTTTTTCTGGTACACACGCTGCTGGCGTCGGCGCTCGGAGTGGGCTTGGCGCTGGCTCTG
CAGCCGGGCGCGCCTCCGCGGCCATCAACGCCTCCGTGGGAGCCGCGGCGAGTGCCGAAAATGCCCCCAGCAAG
GAGGTGCTCGATTCTGTTCTGGATCTTGCGAGAAATATCTTCCCTTCCAACCTGGTGTGACGAGCCTTTCGCTCA
TACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGGTGAAGGTGCCCGTGGGGCAGGAGGTGGAGGGG
ATGAACATCCGGGCTTGGTAGTGTGTTGCCATCGTCTTTGGTGTGGCGCTGCGGAAGCTGGGGCCTGAAGGGGAG
CTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCTGGTCTCCTGGATCATGTGGTACGCCCT
GTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGGGTTTACTCTTTGCCCGCCTTGGC
AAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCTGGTACTGCCCCCTCATCTACTTCTCTTC
ACCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCTGGCCACTGCCTTTGGGACCTCTTCCAGT
TCCGCCACGCTGCCGCTGATGATGAAGTGCCTGGAGGAGAATAATGGCGTGGCCAAGCACATCAGCCGTTTCATC
CTGCCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCAGTGCCTGGCCGAGTGTTCATTGCACAG
CTCAGCCAGCAGTCCTTGGACTTCGTAAAGATCATCACCATCCTGGTACAGGCCACAGCGTCCAGCGTGGGGGCA
GCGGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCCTCGAAGCAGTCAACCTCCCGGTCGACCATATC
TCCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGTCTCAATGTAGAAGGTGACGCTCTGGGG
GCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGT
GAGCTGCCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCCCTCCTCAAACACTATCGGGGGCCCGCA
GGGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATGTAAACCCCGGGAGGGACCTTCCCTGCCCTGCTGGGG
GTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCTAGGGCTCTGGGGGTCTGCCTGCACACTC
TGGGGAGCCAGGGGCCCCAGCACCCCTCCAGGACAGGAGATCTGGGATGCCTGGCTGCTGGAGTACATGTGTTAC
AAGGGTTACTCCTCAAAACCCCACTTCTCACTCATGTCCCAACTCAAGGCTAGAAAACAGCAAGATGGAGAAA
TAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCCTGTCTCAGGGAGCAGGTACAGGTCACCATGG
GGAATTCTAGCCCCCACTGGGGGGATGTTACAACACCATGCTGGTTATTTTGGCGGCTGTAGTTGTGGGGGGATG
TGTGTGTGCACGT
GTCCCACCCTGTCCCCAGATCCCCTATTCCCTCCACAATAACAGAAACACTCCCAGGGACTCTGGGGGAGAGGCTG
AGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTAGCAATAAAATTGAGTGTCAACTATTT

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FIGURE 5492

ATGATGGAGGAGCGAGCGGCCCGCGGTCGCCGCCGCCGCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCCGGGCGGGCCCGGCAGGTAAGGGAGGCGGGCGGC
GGAGGCAGCCCCGGGCCACGGCGGGCCCGGAGCCCTGAGCCTGCCGGGGATCCTGCACTTTATCCAGCACGAG
TGGGCGCGCTTCGAAGCCGAGAAAGCCCGCTGGGAGGCCGAGCGCGCCGAGTTACAGGCTCAGGTGGCCTTCCTT
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGGCGGATCAAGATGCTAGAGTATGCGCTG
AAGCAGGAAAGGGCCAAATATCATAAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAGAAAGCAGATGTG
TCAGAAACAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGG
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGCTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGT
TCCCTGCTGGGCCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGGCCCCCAGGGCTCCACCAGGC
CCTGCAGGGCTCAGTGGTGGGGAGTCTGCTGCTGGTGAACAGATCGAGGAGCAGATAAAGAGGAACGCGGCAGGC
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTGCTGGGGCAGATCCCTTCTCCTGCAGAACTGCGAGGACGAAGAC
AGCGACGAGGACGATGAGCTGGACAGCGTGCAGCACAAGAAGCAGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG
CCCGAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTCTCTGGGCTCAGGA
GAGGATGGGGAAGGGGCTCCAGACCCCTCGGCGGTGCACTGTGGATGGGAGCCCCCATGAGCTGGAAAGCCGTCGG
GTCAAACCTCCAAGGCGTTCTGGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGAAGTGGCCCCGCTCCT
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGGAGGTGAGCCTGGGG
GACTTGGCAGATCTCACCGTCACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAG
AAGACGTGGAACCCCAAGTTACCCCTGCGCTCGCACTACGACGGCATTCTGTTCCCTGGCCTTCCACCACAGCCAG
TCGGCTCTGCTCACCGCCTCCGAGGACGGCACGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACAGGCCAAGAAG
AATGCGGCGCTAGATGTGGAACCTATACATGCTTTCCGGGCTCACAGGGGCCAGTGTTGGCTGTGGCTATGGGC
AGCAACAGTGAATACTGCTACAGTGGCGGGGCGAGATGCCTGCATCCATAGTTGGAAGATTCCAGACCTCAGCATG
GATCCCTATGATGGCTACGACCCAAGCGTGCTGAGCCACGTCTTGGAGGGCCACGGGGACGCCGTGTGGGGCCTG
GCCTTCAGTCCCACCTCCCAGCGCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCATCTGGGACCCCAGCAGC
AGCAGCCCCGGCCTGCCTCTGCACCTTCCCCACAGCCAGCGAGCACGGGGTCCCCACCTCAGTGGCCTTACCAGC
ACCGAGCCTGCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGTATGACATGGAGGTTGGCAGTGCC
CTCCTCACGCTGGAGTCCCGGGGCGAGCAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCCAAACCAGCCT
CTCACCATCACCGCCACGACGACAGGGGCATCCGCTTCTTGACAATCGGACAGGTAAGCCGGTGCACTCCATG
GTTGCACACCTGGACGCAGTCACCTGCCTAGCCGTGGACCCCAACGGCGCATTCTGATGTCAGGAAGCCATGAC
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAAACGTGCGTGCAGGAGATCACGGCCCACCGCAAGAAGCACGAG
GAGGCCATCCACGCTGTTGCCTGCCACCCAGCAAGGCCCTCATTGCCAGTGCTGGCGCTGATGCCCTGGCCAAG
GTCTTCGTATTGATGCCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGTAGGGCCGGGCAGGTGGGGCT
GAGGGGACTCCCAGCCTCGCTGGAGGTGCAGAGGCCTGGCCTCTGTCTGTTTGCCATGGAGCCTGGTGGTGCTAA
CGGCCCTTCCCCAGGAATCCCTCCCCAACGGCTGCCCTCCCCAAGCATCCAGCCTGGGGATGGGCCCTTTTCAG
GAATACCCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGACAGCCGCTCCTGGTATCAGAGCTGCTTTCC
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTTCTCC
CCTTGAGCTCCTGCTCCCCATCCCCATCCTCCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAAGGTGGCAGC
CGGGAGCCTCAGAGCTGAGCCCCGGCCTGGCTGCCCTCCCCCTCCGGCCCTCTCCACTGCTTTCCAGACACTAAC
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCCAGCGCCCCATGGGGTCGCCCATGGGT
AGAGACGGCTTTCTTGIGCCCCCTCCCTGGGGCATGGAGGGTGGAGTGGGCCTCGGGTCCCCCTGAACTCCCTGTA
TATCTGTATAAATAACGGGATTTTCATGGCGCCGCCCCACCCGCATTATCACTGTGTGATGGTCTCAGTCAGTCT
CCTCCCTGTCTCCACTCTTTCCCTCTATTTATTTCACTCTCTTGTTTGGTTCTACCCTGCACCCTCGGTCCCCTT
CCAGGTTCTGTATAAGCCCCAACCCCTCTGTCCCCATCTTGTATGTGAAAACCTTGTCTCAATAAAACCTTTG
GAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5493

MMEERAAAAVAAAASSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGSPGPTAGPEPLSLPGILHFIQHE
WARFEAEKARWEAERAELQAQVAFLOGERKGQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADV
SEQVSNPVPESVTLENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPG
PAGLSGGESLLVKQIEEQIKRNAAGKDGKERLGGSVLGQIPFLQNCEDEDSDEDEDELDSVQHKKQRVKLPKALV
PEMEDEDEEDDSEDAINEFDLFGSGEDGEGAPDPRRCTVDGSPHELESRRVKLQGVLADLRDVGDLPPKVTGPPP
GTPQPRPHEDVFIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDSKDAFKKTWNPKFTLRSHYDGIRSLAFHHSQ
SALLTASEDGTCLKLWNLQKAVTAKKNAALDVEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDLMS
DPYDGYDPSVLSHVLEGHGDAVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLCTFPTASEHGVP TSVAF T S
TEPAHIVASFRSGDTVLYDMEVGSALLTLESRGSSGPTQINQVVSHPNQPLTITAHDDRGIRFLDNRTGKPVHSM
VAHLDAVTCLAVDPNGAFLMSGSHDCSLRLWSLDNKTVCQEITAHRRKKHEEAIHAVACHPSKALIASAGADALAK
VFV

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FIGURE 5494

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGC**ATGG**CTG
ACCAACTGACTGAAGAGCAGATTGCAGAAATCAAAGAAGCTTTTTCACTATTTGACAAAGATGGTGATGGAACTA
TAACAACAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA
TTAATGAAGTAGATGCTGATGGTAATGGCACAAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG
AAGCAGATATTGATGGTGATGGTCAAGTAAACTATGAAGAGTTTGTACAAATGATGACAGCAAAG**TGA**AAGACCTT
GTACAGAAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCTTTTCTTTGTTTGTAACCTATCTGTAAAGG
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT
TACTGTCATTGTCCTAAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTTAA
AGTAGTTTTCTTTAGGAAGTGTGAGCATGTTGTTGTTGAAGTGTGGAGTTGTAACCTCTGCGTGGACTATGGACAG
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG
TACTGCTGGTCCTGTACCAGAAACATTTTCTTTTATTGTTACTTGCTTTTTTAACTTTGTTTAGCCACTTAAAAT
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTGTTTTCCAATAAAAAAATTACAATTTA
CCC

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FIGURE 5495

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMAR
KMKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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FIGURE 5496

GAGCCTACCAAACCTTTGGTTCGCAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC
AGGCAGGAAGCAGTGCCCTGGAAAAAACCCAAAGGCATCAATTCCAACAGCACAGCTAACTTGGAGGATCCTGAG
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCCAGAGAGCCACCTCAGGATGCCCGGGCAGAA
GCCGAGAGCCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAGGCCGTG
GCCTGGGTGTCTGCCAAGAACCCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCCTACGTC
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGCTGATGCCAAGAAAGGGCCAGGCTCAAGAAGGGAGGCATCA
GATCAGAAGGCCCTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA
GAAGGCTCTCCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTCTTGTCACTGAATAAGACTTTGGACTCTCTTAGGGCC
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCTTGGGTGGGAGGGAGTTGGGGAAGGGAGGT
GGATCTCTATGCCCTTTTCTCTACCAGGCCTGCCGTTTACCGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTCAATCCCTTTATGCATGAGCAGGGTCACTGTTACACT
CATCCATGTTTCACTTTTCTCCCCACGCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA
TTTGGAAGAGCTGGGTGGCCCTGCCATATTCTTCTCCCGCCTTCTCTCGTGTAACCAGCGGGGTAAGTTAAGC
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCCTCCAGTTATCTAGCCAGGA
GGTCCCAAGAGTTAGTTTTAGGGAAGAAAGAAATGTCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG
TAAAAATGGCACTTTTGATTCCATTGTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGAAGGGGGGTGATTATAGGG
AAGGACGCAGGCATTCTAGGTCCCCAGCTCTAATTCCATCCATCTACCCAAGTGTACCATCTTTGCACCAAAC
TGTCACCATCTTTGTCAGCAGAAGGTCACTACTCACATTATAGTAAGAGGGGAAAAAAATCTTTTAAACTTGGCT
GTTGGCCGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGATCACGAGGTCAG
GCGTTTTAAGACCAGCTTGACCAACATGGTGAAACCCCATCTCTACAAAAATTAGCTGGGCGTGGTGCGCGGCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGTTGCAATGAGCCGA
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAACAAAACCTTGGCTGTTAATG
TCTGCCCTCTGAATTCAGACACACTATATTAGACCAGACCACCATGTGTCATTGTGTGTGTGTGTGTGTGTGTTT
GCGTGCGCATGTGTAGAGGAGAGAGAGAGGTCCTGAGATAATGGTTTCCAAACTGTATCGTAGCCGTCCACAAA
GATGTAATCCAAATCTATTTTTCTCACGTGTTTAAAAAACTGAAAAGTGACTACTCAGATATGTTGGAAGTCACA
TCGAAGACTATCAGAATATTACCTTGTGTTTATAGGTTAACTTGTTTTGTACACGTCTTAGTTATTTAGGCAT
CTCTTTGCTTAAATTTGAGTTTCTTGTAATGTGACTGATGAGCGAGGTTAGAAGTGGAAGAAATTCCTGTGCAT
GTTCTATAATCTGACACCCTGAAAGCAAGTTTCCTTTTCGTCAATTCACATGCTCTTGTTCTGCCGTGACTGTTTCA
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA
GTTTTACAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT
CAACTTTAAACAAAATTTCTCGTGATGATTCAATTTCAAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA
AGAGAGTGGTTTTCCGTTTGCAGCTACACAGCTGTGTGCATCGACGTTCTCCTGGGGTGTGTGCCAAGCGAAACCC
AGGGGTGAATTGGATTCTTGAAGAGACCAAGCCTGTAACGTGTCCAGCTTCTAATTTCAAAACGGGTCCATTAGG
GCTTCGTTGTGTTAACAAGTTGACACCATGACTAGTAAATGTAAACGTGTATGTATAAAATAAAGTTTTAGCAAAT
TAAGTGTCTCTGTT

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FIGURE 5497

CGCGACGGTTTCGGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTGCGCTTTGCGGC**ATG**GCGATGGCGGAG
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTTCTACAGCCAGGCCATC
GAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGTATGGCTAC
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC
AACATGGCACTGGGCAAGTTCCGGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCCTGAAGCAGAAGGCCTTTGAGCGGGCCATCGCGGGCGAC
GAGCACAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG
CTTGAAGACGGCAAAGTGACAATCAGTTTCATGAAGGAGCTCATGCAGTGGTACAAGGACCAGAAGAACTGCAC
CGGAAATGTGCCTACCAGATTCTGGTACAGGTCAAAGAGGTCCTCTCCAAGCTGAGCACGCTCGTGGAACCACA
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTCGAG
CTCAACGGTTTACCCTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCGAGGCTCCTTCTCTGTA
GAAGTGATCCTCACCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTCACCTCCTTCGAGGCAACCACGAG
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCCAGATGTACGAGCTC
TTTAGCGAGGTGTTTCGAGTGGCTCCCGTTGGCCAGTGCATCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG
TTCAGTGAAGACGGTGTCAACCTGGATGACATCCGGAATAATTGAGCGGAATCGACAACCCCCAGATTTCAGGGCCC
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGGCGTGAGCTGTCAG
TTTGGGCCTGACGTCACCAAGGCCTTCTTGAAGAGAACAACCTGGACTATATCATCCGCAGCCACGAAGTCAAG
GCCGAGGGCTACGAGGTGGCTCACGGAGGCCGCTGTGTACCGTCTTCTCTGCCCCCACTACTGCGACCAGATG
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCCTCAGTTCCACCAGTTCACAGCAGTGCCT
CATCCCAACGTCAAGCCCATGGCCTATGCCAACACGCTGCTGCAGCTAGGAATGATG**TGAG**GGTGACGGGCGGGGC
GGCCTGCATCCCAGGGCCCCCTCCAATCCCACCGGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG
GGCAATGTTGGACCCCTTTTACTTTGTAAAGTTTGTATTTATTCCTTTTAGGTTTGCAGAGGGGGTAGGGGCA
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA
GCCTGGGCATTCTGTGGGGAGGCCGTCCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTTGCA
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCCATAGGAAGACCCCCAGAGAGAGGGTCAGCAGGGGGGGCCCC
GCCTGCGCCTCCCCCTCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCCAGCTATTTTATGTC
TGTAATTAAATATGTTAAATAAAGTCATTATCGGAAAAAAAAAAAAAAAAA

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FIGURE 5498

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSLAYLRT
ECYGYALGDATRAIELDKKYIKGYRRAASNMALGKFRAALRDYETVVVKVPHDKDAKMKYQECNKIVKQKA
FERAIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQVKEVLSKLST
LVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTFLGFKLLYPDHFHLL
RGNHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQCCINGKVLIMHGGLFSEDGVTLDDIRKIERNRQP
PDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENLDYIIRSHEVKAEGYEVAHGGRCVTVFSAPN
YCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

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FIGURE 5499

CCCCCTTCCTGTGGGGTTTCATTGGGGCATCCCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCG
GCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCTCCCCAGGAAGCCGGACTCTATGGGGCGGGACCCCTGGGGG
AGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCG
TGGGCGAGCCGCCCCGCCGCGGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTT
ATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCTTCAGCCGCGTCCAGATCTACCACA
ACCCACAGGCCAATTCTTTTCGCGTCGTGGGCCGGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCA
TCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCCAACTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCC
TCAACTTCGGCAGCAAGGAGGATGCGGCCAGTTTGCCGCCGGCATGGCCAGTGCCCTAGAGGCGTTGGAAGGAG
GTGGGCCCCCTCCACCCCCAGCACTTCCCACCTGGTTCGGTCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGC
AGAAAAGGCAGCAGCCCCGGCCCGTCCGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCCCACCTGCTCCCC
CCGCTGGGGGTCCACCCCCACCACCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTT
CGGGGGTCCCAGCTGCAGCGCACGGAGCAGGGGGAGGACCACCCCTGCACCCCTCTCCCGGCAGCACAGGGCC
CTGGTGGTGGGGGAGCTGGGGCCCCAGGCCTGGCCGAGCTATTGCTGGAGCCAAACTCAGGAAAAGTCAGCAAGC
AGGAGGAGGCCTCAGGGGGGCCACAGCCCCAAAGCTGAGAGTGGTCAAGCGGAGGTGGGGGACTCATGGAAG
AGATGAACGCCATGCTGGCCCGGAGAAGGAAAAGCCACGCAAGTTGGGGAGAAAACCCCCAAGGATGAATCTGCCA
ATCAGGAGGAGCCAGAGGCCAGAGTCCCGGCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAA
CCTTGCCAAGGATGAAGTCGTCTTCTTCGGTGACCACTTCCGAGACCCAACCCTGCACGCCCAGCTCCAGTGATT
ACTCGGACCTACAGAGGGTGAAACAGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAA
TCATTGAAGCCTTCGTCCAGGAGCTGAGGAAGCGGGTTCTCCCTGACCCACAGGGACCCAGAAGACCCGCTTCTC
CTTTCCGCACACCCGGCCTGTCACCCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACACAGGAAT
GCATCGTTCCCACTCCCCATCCCACTTGGAAACTCCAAGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCT
GCTGATTGGCTGGGGAGGCCCCCGCCCTTTTCTCCCTTTGGTCCTTCCCCTCTGCCATCCCCCTTGGGGCCGGTCC
CTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGGGGAAGGAAGGAGGGAATTTACATTCCCTTGTCTAG
ATTCACTTTAACGCTTAATGCCTTCAAAGTTTTGGTTTTTTAAGAAAAAAAATATATATATATTGGGTTTTG
GGGAAAAGGGAATTTTTTTTTTCTCTTTGGTTTTTGATAAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCT
GGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAGGGGATGTCTCACCGGGCTGGGGGTGAGATATCCCCCAC
CCCAGGGACTCCCCTTCCCTCTGGCTCCTTCCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCT
CAGTTTTTTGATTTTTTATTTGGGTAGGTTTTGGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGAAATAAGATG
AGGGAGAAAGGAGAAGGGGAGGAACTTCTCCCTCCCACTTCACCTTTAGCTTCTTGAAAATGGGCCCCCTGCA
GAATAAATCTGCCAGTTTTTTATAAAAAAAAAA

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FIGURE 5500

MSETVICSSRATVMLYDDGNKRWLPAGTGPOAFSRVQIYHNPTANSFRVVGRKMOPDQQVVINCAIVRGVKYNQA
TPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEEGGGPPPPPALPTWSVPNGPSPEEVEQQKRQQPGPSE
HIERRVSNAGGPPAPPAGGPPPPPGPPPPPGPPPPGLPPSGVPAAAHGAGGGPPAPPLPAAQGGGGGAGAPG
LAAAIAGAKLRKVSKQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP
AQSESVRRPWEKNSTTLPRMKSSSSVTTSETQPCPSSSDYSDLQRVKQELLEEVKKELQKVKEEIEAFVQELR
KRGSP

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FIGURE 5501

ACAGTAGTAAGAGTAACACTGTAGCCGCCACCGGCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCTTTC
TGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCGGCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCT
CCCTGACCACAGGGACCCAGAAGACCCGCTTCTCCTTTCCGCACACCCGGCCTGTCACCCTGCTTTCCCTGCCTC
TACTTGACTTGGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCCACTCCCCATCCCCTTGGAAAACTCCA
AGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCCGCCCTTTTCTCCCTT
TGGTCCTTCCCCCTCTGCCATCCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGG
GGAAGGAAGGAGGGAATTTACATTCCCTTGTTCTAGATTCACTTTAACGCTTAATGCCTTCAAAGTTTGGTTT
TTTTAAGAAAAAAAATATATATATATTTGGGTTTGGGGGAAAAGGGAATTTTTTTTCTCTTTGGTTTGTGAT
AAAATGGGATGTGGGAGTTT

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FIGURE 5502

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCGCCTCGATCCCTCTGCAGTCTTTCCCTTG
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCCGGACCACAGGCTCCAGATGGACCC
TGGGAAGGACAAAGAGGGGGTGGCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCAGTGTGGACACCTCGGC
CCAGGCGGCCCTCAGACCTACGCGGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC
AGGGTCAGAGCCCCTGGCAGGAGAGACGCCCCAACAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT
GAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGGGAATTTGGCGACGTAATTCC
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCCCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCTTGCGGGTCCTGCTTGTCCAGGTGGATGTGAAAGATCC
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA
GCAGGACTTCGTCTCCCGGGTGAAGTGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCT
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCTGGG
CCCTCAGAAAAGCCCGGAGGCTGTTTGATGTCCTGCACGAGCCCTTCTTGAAAGTACCCTGATGACCCCAGCTGCC
AAGGAAACCCCCAGTGTAATAATAAATCGTCCTCCCAGGCCAGGCTC

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FIGURE 5503

MDPGKDKEGVPPQPSGPPARKKFVIPLEDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAI SQPLEGAGAT
CPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNEVLKEVRNVPWEFGDVIPDYVLGQSTCALFLSLRYHNLHP
DYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLETYKAYEQKPADLIME
KLEQDFVSRVTECLTTVKSVNKTD SQTLTTFGSLEQLIAASREDLALCPGLGPQKARRLFDVLHEPFLLKVP

FIGURE 5504

AGATTCTGAACCTTGTGAGGCATCTGGGCCCTCCCCAGAAGACATTAAACACAGAAAGACAGCCCTACTAACTAGT
 ATTCTTACCTGTCTCTTCAAGAATTTTCAGACCAATCGACCGTCTGTCTCTTTAAGGCTTAGGAAGAGCAGTGTG
 GCTGCCCCCTTTAAGGAGGCGTTGCAACAAACCATATTGGACAGACGATGGGGGCGACCCATCGGGACCCGACGGG
 CCTCTGACTCCAGCAATACAGCGAATCAGCGGCTTTTCGGGAATACATTTTTTCGGAAAAAGACTTCTTCCTCGGTT
 TTCTGCTCTGCACACGTTGAAATTTTCCCCAGTTTTTTCCTGCAGATCGGGAGTCGAGCAATGCCTACCCCCGCGC
 TCCCGCACAGTTGGGCGCTCCCGGATGATGCCCTACCCCTTTGGATCCACGTGGTCTGCAACCTGGTGCGAGCA
 GCCCCGGGCTACAGGGTTGCCTGAGGTGTGGGTCCCAGGATGGAGGAGCCCCAGGCCGGCGATGCTGCTCGGTTCT
 CTTGTCCCCCAACTTTACCGCGAAGCCCCCAGCCTCAGAGTCCCTCGTTTTCTCCTTGGAGGCGCTGACGGGTC
 CAGATACGGAGCTGTGGCTTATTAGGCCCTTGACACTTTGCCCCAGAATGCTTCAATGGGCGGCATGTGCCTC
 TCTCTGGCTCCAGATCGTCAAGGGCAAATTTGGCAGGCAAGCGGCACCGCTATCGAGTCTCAGCAGCTGTCCCC
 AAGCTGGAGAAGCGACCCCTGCTGGCCCCCTCAACGGAGGCAGGAGGTGGACTCACCTGTGCCTCAGCCCCCAGG
 GCACCCCTAAGGATCCTTGAGGGTCCCCAGCAATCCCTGTGAGGGAGCCCTCTGCAGCCCATCCCAGCAAGTCCCC
 CACCACAGATCCCTCCTGGCCTGAGGCCTCGGTTCTGTGCCCTTTGGGGGCAACCCACCAGTCACAGGGCCTAGGT
 CAGCCTTGGCCCCCAACCTGCTCACCTCAGGGAAGAAGAAAAAGGAGATGCAGGTGACAGAGGCCCCAGTCACTC
 AGGAGGCAGTGAATGGGCACGGGGCCCTGGAGGTGGACATGGCTTTGGGGTCGCCAGAAATGGATGTGCGGAAGA
 AGAAGAAGAAAAAAATCAGCAGCTGAAAGAACCAGAGGCAGCAGGGCCTGTGGGGACAGAGCCACAGTGGAGA
 CACTGGAGCCTCTGGGAGTGTCTGTTCCCGTCCACCACCAAGAAGAGGAAGAAGCCCAAAGGGAAAGAAACCTTCG
 AGCCAGAAGACAAGACAGTGAAGCAGGAACAGATTAACTGAGCCTCTAGAAGACACAGTCTGTCCCCGACCA
 AAAAGAGAAAGAGGGCAAAAGGGGACGGAAGGGATGGAGCCAGAGGAGGGGGTGACAGTTGAGTCTCAGCCACAGG
 TGAAGGTGGAGCCACTGGAGGAAGCCATCCCTCTGCCCCCTACGAAGAAGAGGAAAAAAGAAAGGGACAGATGG
 CAATGATGGAGCCAGGGACGGAGGCATGGAGCCAGTGGAGCCGGAGATGAAGCCTCTGGAGTCCCCAGGGGGGA
 CCATGGCGCCTCAACAGCCAGAAGGAGCGAAGCCTCAGGCCCAGGCAGCTCTGGCAGCTCCCCAAAAGAAGACGA
 AGAAAGAAAAACAGCAAGATGCCACAGTGGAGCCAGAGACAGAGGTGGTGGGGCCTGAGCTGCCGGATGACCTTG
 AGCCTCAGGCAGCTCCCACATCCACCAAGAAGAAGAAGAAGAAGAGAGAGGTACACAGTGACTGAGCCAA
 TTCAGCCACTAGAGCCTGAACTGCCAGGGGAGGGACAGCCTGAAGCCAGGGCAACTCCGGGATCCACCAAGAAGA
 GGAAGAAGCAGAGTCAGGAAAGCCGGATGCCAGAGACAGTGCCCCAAGAGGAGATGCCAGGGCCGCCACTGAATT
 CAGAGTCTGGGGAGGAGGCTCCACAGGCCGGGACAAGAAGCGGAAGCAGCAGCAGCAGCAGCCTGTGTAGTCTG
 CCCCCGGGAAACTGAGGAACTAAAGAAAGCTGAAGGTGCCACCTGGGCCACCAGAAGGTGACACCCCCAGAATC
 CCTCCCCAGAGACTGCACCAGCGCAGCCAGCAGGAGCCTGGCCTGGGAGGACGATTTATTATTACACTGGGGGTT
 TCCTTGGCAGCTGGGGTCATCAGGGTACTTTCAAGAAGGGCTCGTGCAGGACATCAAACAGCCTCCGGGCCTGGA
 TGGGAGGGGAGAAAAAATGAGGAACCAGTCATTAAAGGAGCTGTTTCTGGGTAAATCTAGAGTGGGGTTTTGGT
 TCTTTATTTTCCCCTATACCCTCAAGCATTTATCCATTGAGTTACAAACAATCCAGTTACAATCTTTTTAAGTTA
 TTATTATTATTATTATTTTTTTTTTTTTTTTGTAGATGGAGTCTCGCTCTGTGCCCCAGGTTGGAGTGCAGTGGCGCA
 ATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACT
 ACAGGCCCCCTGCCAGCTAATTTTTTTGTATTTTTTTTTTAGTAGAGATGGGGTTTTACCACGTTAGCCAGGATGGT
 CTCGATCTCCTGACCTCCTGATGCGCCTGCCTCAGCCTCCCAGTGCTGGGATTATAGGTGTGAGCCACTGCGCCT
 GGCTAAGTTATTATTATTTTTTTTGTAGACAGTCTCCTGGTGTACCCAGGCTGGAGTGCAGTGGTGTGATCTTGGC
 TCACTGCAACCTCCGCCTCCTGGGTTCCAACGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGCCTAAAGGTGC
 CCACCACTATACCCGGCTAATTTTTTGTATTTTTTAGTAGAGACAGGGGTTTTACCATATTGGCCAGGCTGGTCTCG
 AACTCCTGACCTCGTGATCCACCTGCCTTGACCTCCCAAAGTGCTAGGATAACAGGTGTGAGCCACCGCACCCCTG
 CCAAGTTATTTTTAAATGTACCATTATTATTGACTATAGTCACCTGGTTGTGTTATCAAATAGTATGTCTTATTC
 ATTCTTTCTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTACCCATTAACTTCCCCATCTCCCTGCCAGC
 CCCTAACTACCCCTCCCCAGCCTCCAGGAACTATCCATCCACTCTTATCTCCATGAGTTCAATTGTTTTGATTTTT
 AGATACACAAATAAATAAGAACATGCAATGTTTGTCTTTCTGTGCCTGGCTTATTTCACTT

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FIGURE 5505

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAG
KRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQPIPASPPFQIPPGLRPRFC
AFGGNPPVTGPRSALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEMDVRKKKKKKKNQQLKEPE
AAGFVGTEPTVETLEPLGVLPSTTKKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTEGME
PEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKKEKGQMAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQ
AQAALAAPKKKTKKEKQQDATVEPETEVVGPELPDDLEPQAAPTSTKKKKKKKERGHTVTETIQPLEPELPGEGQ
PEARATPGSTKKRKKQSQESRMPETVPQEEMPGPPLNSESCEEAPTGRDKKRKQQQQQPV

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FIGURE 5506A

CGCCTCCCTCCGCCGCCGCTTGGGCCGGCTCCGCGCCCCCTCCGCGGCCCCCGCCCCGCCGCTGCCCGCCGCC
CCATGGCGCCCCGGGTCCCCGCTGCACGGGGCCACTAGGACCCTCGGCGTCCCTTCCCCCTCCCCCGCCCTGCCCC
CTCTCCCGCCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGTAGCTCGCGTCCCCAGGCCGGCGGGGGGGA
GGGGAAGAGAGGGGACCTTGGGACCCCCGCCCCCCCACCCGGCCGCCCTGCCCCCCGGGACCCGGAGAAG**ATG**

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCATGGCACCTTGGGCAGTGGCCGCTCC
TCGGACAAAGGCCCCGTCCTGGTCCAGCCGCTCACTGGGTGCCCGTTGCCGGAACCTCCATCGCCTCCTGTCCCGAG
GAGCAGCCCCACGTGGGCAACTACCGCCTGCTGAGGACCATTGGGAAGGGCAACTCTGCCAAAGTCAAGCTGGCT
CGGCACATCCTCACTGGTGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCTAAACCACCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG
ACTGAGAAGACGCTGTACCTGGTGTGAGTACGCAAGTGTGGAGAAGTGTGACTACCTCGTGTGCGATGGC
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCGACAGATTGTTTCGGCTGTGCACTATTGTACCAGAAAAAT
ATTGTACACAGGGACCTGAAGGCTGAGAACCTCTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC
TTCAGCAACGAGTTACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCGGAGCTG
TTTCAGGGCAAGAAGTACGACGGGCCGGAGGTGGACATCTGGAGCCTGGGAGTCATCCTGTACACCCTCGTCAGC
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT
TTCTACATGTCAACAGACTGTGAGAGCATCCTGCGGAGATTTTGGTGCTGAACCCAGCTAAACGCTGTACTCTC
GAGCAAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCGAG
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC
CGGGGCGCCCCAGGGCTGGCCTGGCACGGGTGCGGGCGCCAGCGACACCACCAACGGAACAAGTTCCAGCAAA
GGCACCAGCCACAGCAAAGGGCAGCGGAGTTCTCTTCCACCTACCACCGCCAGCGCAGGCATAGCGATTTCTGT
GGCCCATCCCCCTGCACCCCTGCACCCCAACGCAGCCCCGACGAGCACGGGGGAGGCGGAGCTGAAGGAGGAGCGG
CTGCCAGGCCGGAAGGCGAGCTGCAGCACCGCGGGGAGTGGGAGTTCGAGGGCTGCCCCCCCTCCAGCCCCATGGTC
AGCAGCGCCCAACAACCCCAACAAGGCAGAGATCCCAGAGCGGCGGAAGGACAGCACGAGCACCCCCCAACAACCTC
CCTCCTAGCATGATGACCCGAGAAACACCTACGTTTGACAGAACGCCCCGGGGCTGAGCGCCCGTCACTGTTG
CCAAATGGGAAAGAAAACAGCTCAGGCACCCACGGGTGCCCCCTGCCTCCCCCTCCAGTCACAGCCTGGCACCC
CCATCAGGGGAGCGGAGCCGCTGGCACGCGGTTCCACCATCCGACGACCTTCCATGGTGGCCAGGTCCGGGAC
CGGCGGGCAGGGGGTGGGGGTGGTGGGGTGTGCGAATGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT
GCACCCCTGCCCGCCGGGCGGCCCGCCCAACCAACCTCTTACCAAGCTGACCTCCAACTGACCCGAAGG
GTTACCCTCGATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAG
ATCAGGTCGCAGACGAACCTGAGAGAATCGGGGGACCTGAGGTACAAGTTGCCATCTACCTGGGATCAAACGG
AAACCGCCCCCGGCTGCTCCGATTCCCCCTGGAGTGTGAAGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGG
CAGCTCTGCGCCAGGCCACAGCAGCCGCCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGCTGGCCTGCCTGC
ACGGGGGTGCGGGCGGGCCGAGCCCTGTCCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCGGCCAGGCTTGC
GGGGAGTTCTTCCGCCGTGTGGCGGGCACCGCCCTGGCCTTCCGCACCCTCGTCACCCGCATCTCCAACGACC
TCGAGCTCTGAGCCACCAGGTCCCAGGGCCCTTACTCTTCTCTCCCTTGTCGCCTTCACTTCTACAGGAGGGG
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACCTCAGTTTCCCTGAATTATATTGGGGGCAAAGATTGTC
CCCTCTGCTGTTCTCTGGGGCCGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGGGAGCTGGCACCTTCC
TGGAGCCTCCAGCCAGTCTGTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG
GGCAGGGAGGGAAACTGAGGAAATCTTCCATTCCCTCCCAACAGCTCAAAATTAGGCCTTGGGCAGGGGCAGGGAG
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCCCTTCCCCCTCCC
GTCCCCCTACGCTCAAACCCCCCACTTCCCTGCCCCAGGCTGGCGCGGGGCACCTTTGTACAAATCCTTGTAATACC
CCACACCCTCCCCTCTGCAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCCG
ACCCCTCCTCCTGTACGCCCTCACCTGCAGCCTGTTGCCCAATAAATTTAAGAGAGTCCCCCCTCCCCAATGC
TGACCCTAGGATTTTCTTCCCTGCCCTCACCTGCAAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT
TTTTCTTTTCGAGCCTCGGTTTTCTCATCTGCAGAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCTGG
AAGAAGGCAGGATGGAACCTCGGCCTCATCCCCGAGGCCCCAGTTCCTATATCGGGCCCCCATTCATCCACTCAC
ACTCCCAGCCACCATGTTACACTGGACTCTAAGCCACTTCTTACTCCAGTAGTAAATTTATTGCAATAAACAATC

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FIGURE 5506B

ATTGAXCCC

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FIGURE 5507

MSSRTVLAPGNDRNSDTHGTLGSGRSSDKGPSWSSRSLGARCRNSIASCP EEQPHVGNYRLLRTIGKGNSAKVKL
ARHILTGREVAIKIIDKTQLNPSSLQKLFREVRIMKGLNHPNIVKLFEVIET EKTLYLVMEYASAGEVFDYLVSH
GRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLLD AEANIKIADFGFSNEFTLGSKLDTF CGSPPYAAPE
LFQGKKYDGPEVDIWSLGVILYTLVSGSLPFDGHN LKELRERVLRGKYRVPFYMSTDCE SILRRFLVLNPAKRCT
LEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEVTATYLLLGRKTEEGG
DRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSS STYHRQRRHSDFCGPSPAPLHPKRSPTSTGEAELKEE
RLPGRKASCSTAGSGSRGLPPSSPMVSSAHNPNKAEI PERRKDSTSTPNNLPPSMMTRRNTYVCTERPGAERP SL
LPNGKENS SGTPRVPPASPSSHSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGGVQNGPPASPTLAHE
AAPLPAGRPRPTTNLFTKLT SKLTTRVTLDPSKRQNSNRCVSGASLPQGSKIRSQTNLRESGDLRSQVAIYLG I K
RKPPPGCSDSPGV

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FIGURE 5508

ACCCGGAGCGGGAAG**ATG**GCGGCGGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCCAGCCGGCACCCAATGCCTGGCAGGTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCCGCCGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TAGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCCGGCAGAAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCATTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTCCCCCTCCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCTCTCCTTCTGCCACTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAAGTCGCCCTGGAACCTTCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTTACAGTGTCTTC
GAGTTCTTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTTCCAGTCATTCTGTGGTCTCTCTTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTCTATCGACCTCTGGAAGATCACCAAGGTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCCGCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTTCGACCAAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGCACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCTCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTTCATCGACGACCTGTTTCGCCTTTGTTCATCAAGATGCCCCGTTATGTACCGGATCGGC
TGCTGCGGGACGATGTGGTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCCACAGCAGCAGGGGCC
CTCACGCCACACCTGCACCCACACGACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCAAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCCTCAAAGCCAGCAGAGGACAAGAAAAAGGAT**TAG**

TCGAGACTGGTCTCACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCCTCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCCTCAGGTACAGGGCCAGCGTGTGACGT
AGGGGCCGGGGCAGGCCAGGGTTTGTGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCAGCACTGGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTTGGGCGGG
GGTGGGGCCGGGCCCCCTACGGGATGCCACGGCCGTTTCATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC
CTCCTAGACCGCGCCCTTTAACACAGTCTGGATTTAATAAATTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAAAAAA

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FIGURE 5509

MAAAQEADGARS AVVAAGGGSSGQVTSNGSIGRDPPAETQPQNPPAQAPAPNAWQVIKGVLFRIIFIWAISSWFRR
GPAPQDQAGPGGAPRVASRNLFPKDTLMNLHVYISEHEHFTDFNATSALFWEQHDLVYGDWISGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDERQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKFDAVSGDYYP IIYFN DYWNLQKDYYPINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALTIIVSIVHSVF EFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVQVSFVIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFPLLG CYAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFITMTP
QLFINYKLKSV AHPWRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVVFIIYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVPTAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPFKPAEDKKKD

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FIGURE 5510

GATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGA
GCGGCCAGCGCTGGGAACTGGCACTGGGTTCGCTTTTGGGATTACCTGCGCGCCAAGCTGGAGGAGCAGGCCCAGC
AGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCCGCTCAAGAGCTGGTTCGAGCCCCTGGTGGAAGACATGCAGC
GCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCACCAGCGCCGCCCCCTGTGCCCAGCGACAATC
ACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACCCCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGG
AGACCCGTGTCCTCCGCCCCAGCCGTCCTCCTGGGGTGGACCCTAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5511

CGCAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAAGGTTCTGTGG
GCTGCGTTGCTGGTCACATTCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGTTCGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTACCCAGGAACTGAGGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAAGTGGAGGAACAAGTACCCCGGTGGCGGAG
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCGCGAGGGCGCCGAGCGCGGCCTCAGCGCCATCCGCGAGCGCCTGGGGCCCCCTGGTGGAAACAG
GGCCGCGTGCGGGCCGCCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG
AGCTGGTTCGAGCCCCTGGTGGGAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCCAGCGACAATCAGTGAAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCTCTCTGGGGTGGACCC
TAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5512

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELRQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKRLRLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEK
VQAAVGTSAAPVPSDNH

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FIGURE 5513

GGCGGCGGCAGCGGGTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGGTGCCTGCCCAACCCGGGCACATTGAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTGAG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCATTACAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTACCCCTGGGGAACCCAGACGTCCTCGTGGGTTTCAAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGGCCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACCTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACAGCTGCAGGTGGGTGTGGAGTTTGAAGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCAACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTGAGCCCTCCTGGCCCCCGCCTTCACGCCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGGTCGGGGGGGGACATTGAAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAACCTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCCTCCAAAGGGCCTGGGCCCGCCCCGAGGGGGCAGCGAGAGGAGCTTCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCAGGACATTTTACAGAAAAA
AAACAAAAACAACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5514

MGNVLAASSPPAGPPPPPPAPALVGLPPPPPSPPGFTLPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQLGPLRSKMAIQTQQSKFVNWQVDGEYRGSDFTAAVTLGNPDVVLVSGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMFLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPEKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 5515

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCGGAGCCGGAGCCGGAGCCCCACAGGCACCTACTAA
ACCGCCCAGCCGATCGGCCCCACAGAGTGGCCCGCGGGCCTCCGGCCGGGCCAGTCCCCTCCCGGGCCCTCCA
TGGGCCCGGGCCGCTGCCCTCCTGCCGTCGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTGC
TCCTGGAAACCGGAGCCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCCTGG
AGCTGCCGTCGCCACCTGCTGCCACCTGTTCCCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCCAGATGCAC
CTGCGAACCACCAGAATGTGGCCGCCTTCCACCCTAAGATGGGTCCCAGCTTCCCCAGCCGAAGCCTGGCAGCG
AGCGGCTGTCTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGAGTTTGCCACCTTCCCCAAGGGGTCCGTCC
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCCAAGAACCAAGCTGAGGCCCAGAAGGTACGTTTCAGCCAGG
ACCTTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCCACTGCCCGGATCTCCTGGCTCTCATCCCTGG
ACTGGGAAGCCAAAGAGACTCAGGTGTGAGGGACCCTGGCCGGAAGTGTACTGTACACCAGCCGCTTCACCTTGG
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA
TACCTGTGACCCCTCTCTGTACGCTACCCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACTGGTACCTCGGCC
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCACGGGCTATGACTGGAGCACGACCTCAG
GCACCTTCCCGACCTCCGCAGTGGCCCAGGGCTCCCAGCTGGTCATCCACGCAGTGGACAGTCTGTTCAATACCA
CCTTCGTCTGCACAGTCACCAATGCCGTGGGCATGGGCCGCGCTGAGCAGGTCATCTTTGTCCGAGAAACCCCA
GGGCCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGCTGCTGCTTCTGG
CTGGGGGGTCCCTTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG
CCAGTGGCGACGGGGATTCTACGATCCGAAAAGCTCAGGTGTTGGGAAATGGGGACCCCGTCTTCTGGACACCAG
TAGTCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG
CAGTTTATGTGTGACCTGGACACAGACAGAGACAGAGCCAGGCCCGGCCCTCCCGCCCCGACCTGACCACGCCG
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACTGCCTCCCACTTTCTTGG
GACTTGGAGGGAGGTGGAACAGCACACTGGACTTCTCCGTCTCTAGGGCTGCATGGGGAGCCCGGGGAGCTGAG
TAGTGGGGATCCAGAGAGGACCCCGCCCCCAGAGACTTGGTTTTGGCTCCAGCCTTCCCCTGGCCCCGTGACAC
TCAGGAGTTAATAAATGCCTTGGAGGAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5516

MARAAALLPSRSPPTPLLWPLLLLLLLEETGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLVTWQRPDA
PANHQNVAAFHPKMGPSFPPSPKPGSERLSFVSAKQSTGQDTEAELQDATLALHGLTVEDEGNYTCEFATFPKGSV
RGMTWLRVIAKPKNQAEAKVTFSQDPTTVALCISKEGRPPARISWLSSLDWEAKETQVSGTLAGTVTVTSRFTL
VPSGRADGVTVTCKVEHESFEEPALIPVTLVRYPPPEVSISGYDDNWYLGRTDATLSCDVRSNPEPTGYDWSTTS
GTFPTSAVAQGSQQLVIHAVDSLNTTFVCTVTNAVGMGRAEQVIFVRETTPRASPRDVGPLVWGAVGGTLLVLLLL
AGGSLAFILLRVRRRRKSPGGAGGGASGDGGFYDPKAQVLGNGDPVFWTPVVPGPMEPDGKDEEEEEEEKAKEG
LMLPPPPALEDDMESQLDGSLISRRVYV

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FIGURE 5517

AGTCTCCGCCCGCCGCGTGAAC**ATG**GAGCCCCCGGACGCACCGGCCAGGCGCGGGGGCCCCGCGGCTGCTGTT
GCTCGCAGTCCCTGCTGGCGGGCGACCCAGATGCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT
GATGCGAGGAAAGTCTGTCAATTCTGGACTGCACCCCTACGGGAACCCACGACCATATATGCTGGAATGGTTCCT
TACCGACCGCTCGGGAGCTCGCCCCCGCCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTCACAATGCA
CGACACCCGGGGCCGCAGTCCCCCATACAGCTGGACTCCCAGGGGCGCCTGGTGCTGGCTGAGGCCAGGTGGG
CGACGAGCGAGACTACGTGTGCGTGGTGAGGGCAGGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCAACAAGGGACACTGTCTGTGATGGAGGACTCTGCCCAGGA
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCCCCCAAGATCACGTGGTATCGCAACGGGCAGCGCCTGGA
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGCACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCT
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCACTACAGCCT
GCCCCAGGGGCCGCCACGGCCGCTGGACAGCCCCACCTTCCACCTCACCTGCACTATCCACGGAGCACGTGCA
GTTCTGGGTGGGCAGCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG
GGACGGCAGCCCCAGCCCGGAGTATACGCTTTTCCGCCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT
CGAGGGGAACCTTGACCCTGGAGGGAGTGACCCGGGGCCAGAGCGGGACCTATGGCTGCAGAGTGAGGATTACGA
CGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCTGGAGCTCAGCGA
GGGGAAGGTGCTTTCTTACCTCTAAACAGCAGTGCAGTCGTGAACCTGCTCCGTGCACGGCCTGCCCACCCCTGC
CCTACGCTGGACCAAGGACTCCACTCCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATCACCTTCGATT
CAATGGCACCTACGTATGTGAGGCCTCCCTGCCCACAGTCCCGGTCTCAGCCGCACCCAGAACCTTCACGCTGCT
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA
AGTCACACTCATCTGCTCTGCCCGCGGCCATCCAGACCCCAAACCTCAGCTGGAGCCAATTGGGGGCAGCCCCGC
AGAGCCAATCCCCGGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGA
TGGCATCTCTGTGAAGCCTCCAACCCCCACGGGAACAAGCGCCATGTCTTCCACTTCGGCGCCGTGAGCCCCCA
GACCTCCCAGGCTGGAGTGCGCGTCAATGGCCGTGGCCGTGAGCGTGGGCCTCCTGCTCCTCGTCGTTGCTGTCTT
CTACTGCGTGAGACGCAAAGGGGGCCCCCTGCTGCCGCCAGCGGCGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC
AGGGCTGAGCCACTCGGGGTCGGAGCAACCAGAGCAGACCGGCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG
GGGTGGCAGCGGGGGCTTCGGAGACGAGTGCT**TGAG**CCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC
AGGCATCAGAGAACCAGCCCTGCTCACGCCATGCCCGCCCCCGCCTTCCCTCTTCCCTCTTCCCTCTCCCTGCCC
AGCCCTCCCTTCCCTTCCCTCTGCCGGCAAGGCAGGGACCCACAGTGGCTGCCTGCCTCCGGGAGGGAAGGAGAGGG
AGGGTGGGTGGGTGGGAGGGGGCCTTCCCTCCAGGGAATGTGACTCTCCCAGGCCCCAGAATAGCTCCTGGACCCA
AGCCCAAGGCCAGCCTGGGACAAGGCTCCGAGGGTGGCTGGCCGGAGCTATTTTTACCTCCCGCCTCCCTGCT
TGGTCCCCCACCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCCCTGGTCCCACT
CCTGCCCCCGCCCTACCTCCGCCCCACCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTTGTACACA
TC

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FIGURE 5518

MEPPDAPAQARGAPRLLLLLAVLLAAHPDAQAEVRLSVPPPLVEVMRGKSVILDCTPTGTHDHYMLEWFLTD RSGAR
PRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRLVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEAT
EVSPNKGTL SVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVFPVEMNPEGYMTSRTVREASGLLSLTSTLYLR
LRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLTLHYPTHEVQFWVGSPSTPAGWVREGDTVQLLCRGDGSPSPE
YTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAYLDPLELSEGVLSLP
LNSSAVVNCSVHGLPTPALRWTKDSTPLGDGPMLSLSSITFDSNGTYVCEASLPTVPVLSRTQNFTLLVQGSPEL
KTAEIEPKADGSWREGDEVTLIC SARGHPDPKLSWSQLGGSPAEP IPGRQGWSSSLTLKVTSALS RDGISCEAS
NPHGNKRHVHFHFGAVSPQTSQAGVAVMAVAVSVGLLLL LVAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS
EQPEQTGLLMGGASGGARGGSGGFGDEC

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FIGURE 5519

TCCCAGCCGCACCGGTCCTTCCCGGCACACGCGAGGCTCCCATGGCTCTGGCGGTGGCCCCGTGGGGGCGACAGT
GGGAAGAGGCCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGC
TGTCCGTGAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTTCTC
GGCGGGCGGCGGGCGGAGGCGGCCCGGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATC
TGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCC
GGGCGGGCTCCAGACTCAGGCGACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACG
CACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCACACCTTCTGGAGGG
AAAGTTGCGGAGCCCCGGTGTGTGCTGCCCTGGGCTGAGTTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAAC
CAGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCACGTGTCCATCTTCGAGTTCTG
ACGTCTTCACCAGGCTCTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCACCCACCCAG
GCTACATGGCCTTCCTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCCTGCAGAGACAAGCCAGGCAGTTACA
TCTTCCGGCCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCAGATGGCAGCATCCTGCAGA
CCATCCCTGCCAACAACCCCTGTCCCAGGTGCTCCTGGAGGGACAGAAGGACGGCTTCTACCTCTACCCAGATG
GAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCAGCAGCGCATCCACGTGTCAGAGGAGC
AGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGTGCTGAGAGCAACAAGGATGTGA
AGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCC
CCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACCAGTTCTACGGTCAGGCTACTGCTGAGG
ACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTGCCCCCTTTCGGCTCCTCCATTGC
CCCCACGGCCAGATCTGCCCCCAGGAAGCCAGAAATGCCAGCCGAAAGTGAGACTCCTAAAGGGGAAGTCCC
CTCCAGCTGCGCTGGGACCCCAGGACCCTGCCCCGGCCTGAAGGCCAGGGCACCCAGATGTGCTGCTCAAGGGAG
CCCCAAGGGCTGGAAGGGGGTTGTGAAACCGAAATAAACTGCCAAGCCTGGTCTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 5520

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGPGGPGG
SGDFLLIYLANLEAKSRQVAALLPPRGRRSANDELFRAGSRLRRQLAKLAIIFSHMHAELHALFPGGKYCGHMYQ
LTKAPAHTFWRESCGARCVLPAEFESLLGTCHPVEPGCTALALRTTIDLTCSGHVSIFEFDVFTRLFQWPPTLL
KNWQLLAVTHPGYMAFLTYDEVQERLQACRDKPGSYIFRPSCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLL
GQKDGFIYLYPDGKTHNPDLTTELGQAEPQQRIHVSEEQLQLYWAMDSTFELCKICAESNKDVKIEPCGHLLCSCCL
AAWQHSDSQTCPFRCRCEIKGWEAVSIYQFYGQATAEDSGNSSDQEGRELELGQVPLSAPPLPPRPDLPPRKPRNA
QPKVRLLKGNSPPAALGPQDPAPA

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FIGURE 5521

ACCATTTGGAGCTGAGGCGGCTGCTGCTCTCGGGGGAGGTGTTGGCGCTCCGGTCAGGGGAGGGGTCTGGCTGGGA
GGTGAAGCAGGCCGGGTGGCCTTCCCCCTCAGGATGTCGATGACCCTGCGGCTGCGCGCCACCATGAGCGGCGT
GTCGTTGTGGCAGTTCTTGAGGCTGCTGTCAGCGCCGCTGCGGACCAGCGTGCGCACCAGCGGGAGGAGCCCGCG
GCCGGACGCTGAGTGCAGGGCGGAGCTGCCGGAGTACATTTGCGCGTTACGTTGGCGCCGTGCTGCAGCAGCAG
CTGCACCATGCTAAGGCTGTTGTTTTCCACGGCGTGATGAGCGGGGAGCGGCCG

FIGURE 5522

GCCCGGTATGCCCGCGGGCGCATGTGACGAGGGGCCCGTGGACTGCGCACCCGCCCAAGGCCACTGGACTCCC
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCCGCTGCGCCGCCCTTCCCGGAGCCCGCTCCCGCGGGCGCTG
CGGGCCTTGTGCTCCCCCTGGACCTCTGCGCGGCGGCTGCGACCTGCCGGCGGTCCCCGGGGCCCCCCCCACGGCC
TGGCCCGCGGAGGCGCTTTACTACCCCGGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCCATGGAACACCCCTTTCTGCTGACATCGC
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGACAGCTGGTGCCAGCCCCATGGCGCT
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCGACCTGCCTGCGAGCCCTGCTGGA
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGCCCGCAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA
CACCGAGTGCCAAGAAACCGTGCAGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGGACATTAAGAGCGG
CCGCTCCCCGCTCATCCACGCCGTGGAAAAACAAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA
CGTGAACGCGCAAATGTACTCCGGCAGCTCCGCCCTGCACTCAGCGTCCGGCCGCCGGCTCCTCCCGCTGGTGC
CACGCTGGTCCGCAGCGGCGCTGACAGCAGCCTCAAGAACTGCCACAACGACACGCCGCTCATGGTGGCGCGAG
CCGCAGGGTCATCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCCAGCCAGACCCCTCCCCTGA
CCGGAGCGCCAACACCTCCCCCGAGAGCAGCAGCCGCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC
CTCACCTCCCAGTCTCCCCCAGGGACCCCCCTGGATTCCCCATGGCTCCTCCCAATTTCTTCTTCTTCTTCCCC
ATCTCCACCCGCTTCTGCTTCTTCTGCTGGGGTCTCCGAGGCCCTGGCCGGCGGCTGCCCCCTCCCAGCTCC
AGGAGGCAGCTGAGGGGGATGGGGGGGCAGATCTTGGACTCATGAGGAGGGGCCCCCTGCCCTGTGGGGTCAAC
CCTTCTGGAACTGTGAAGATCTCACTCTGCCCCCCCCCATCTTCGGGACCAGGATTTGCACAGAAGCACATGCA
CCTACCCATACACCCCTCTTCTGAGCACAGATGTTCCCCCATCTCGCTCCCTCCCAGGACTCTGACCCCAGCAT
TCTCAGGCACCAGTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCCCTCCCAGAGCTGGTGGACC
CAGGGAACAGCCACTCCCCTCCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCCGTAAACGGGCACGGAT
CACGATGTAAATTATTAAGCATTTTGGTTGGATTTCTTTTGTAAATAAACTATTTTTGTACCAT

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FIGURE 5523

CCGAGGGTCAGGCTGCAGAAGCCCAGAATCCCACCCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGC**ATGA**TCTCCTTCTGTCCAGACTGTGGCAAAAG
TATCCAAGCGGCATTCAAATTCTGCCCCCTACTGTGGAAATTCTTTGCCTGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTCACTCTTCCAAGGCTCAAAGAGAGGGCTGAACTCCAGTTTTGAAACCTCTCCTAA
GAAAGTGAAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGCAGAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGCACCCAC
CTCCACCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAACCTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCCAAGCCTCTGCAAGTCAACAAGTGGAAGAAGCTGTACTCGAC
CCCACTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTTACCAGGACAAATACAGGTTCTTGGTGTTACCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTGAGCCCAAAGCATGTGCTGTCAGAGAGGTCTGTGCTGCAGGT
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCTCCATGAGAATGAGTATGTTTCATGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCCGCTATTGCCCAAG
TGGCAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTCATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCGCCGCAGCGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGCTCTACGG
GTTTCTGCCATGGACAAATTGCCTTCCCAACACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTTGATAAGCC
GGGGCCCTTCGTGGGACCCTGCGGTCACTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTGTCTCCATATGACCCCATTTGGCCTCCCGATGGTGCCCT**TAG**GTGGAATCCAGAACTTTCCATTTGCAGTGTGC
AACAGAAAAAAAATGAAGCAATGTGACTCAAGGCCTGCTGTTTAATCACAGATAAGCTTCTAGAACAAGCCCTG
GAATGTGCATTCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCGGAGGGCCCCAGTTTCCCTC
CCGTGAATGTGAAGTTCCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCCTAGCAAAGCTGGATGGGGTTGGGC
CGGCCCCACAGGGGGGACCCCTCCTACCCTTGACTCCTCTGTGCTTTGGTAATAAATTGTTTTACCAGAG

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FIGURE 5524

MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPHVSSFQGSKRGLNSSFETSPKKVKWSSTVTSPRLS
LFSDGDSSESEDTLSSSERSKSGSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSCSPQKTRQSPQTLKRSRVTTSL
ALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTLTCDSGPQKQKFSCLKDAKDGRLFNEQNFFQRAAKPL
QVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLP SLGRSLQSALDVSPKHVLSERSVLQVACRLLDALFLHEN
EYVHGNVTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQS
LGYCMLKWLYGFLPWTNCLPNTEDIMKQKQKFVDKPGPFVGP CGHWIRPSETLQKYLKVVMALTYEEKPPYAMLR
NNLEALLQDLRVSPYDPIGLPMVP

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FIGURE 5525

ATTCATTCCCTGTCCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCCGCTCTGCCTGCGTAGCCCCGGCCAT
GGCTCTGTAGCCTCGACCCCTTTGTGCCCCCGGCCGTCTCCGCGCTCACCACGCCTGCGCTCTCCGCTCCCACC
TTCTTTCTTCAGCCGAGGCCGCGCCGCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTGCGCTTGGTGCCT
GTCTTCGCCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCCTGTTGCCATCAGTGCC
CAGCACCTGTGCTACAGCCATGTCACTCCTGGCGACCTTGGGGCTGGAGCTGGACAGGGCCCTGCTCCCAGCTAG
TGGGCTGGGATGGCTCGTAGACTATGGGAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCCTTGG
GGGAGCCCTGGAGGGCGGGCTTCCAGTGGGGGGAGAGCCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGA
GCGAGTTGATTTACAGCTCTCCTCCCTCTGGAGCCTCCCCTACCCCCGGCACCTCCCCAACCTTCCCCAAC
CCCACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCCTAGATGC
CCCGCCCCCTCCCACCACCCTCCCCGCGCCACTACCACCACCACCCTACCACCAGCCCCCTCCCTCCCCCTGTC
CCTCCCCCTCCTTTGACCTCCCCAGCCCCCTGTCTTGGA TACTCTGGACTTGCTGGCCATCTACTGCCGCAACGA
GGCCGGGCAGGAGGAAGTGGGGATGCCGCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACC
TTCTCGCCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAA
GTCGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAGGCCCTGGAGGGCGAGTGCCAGGGGGCTGGA
GGCACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCAT
CGAGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTTAGAAAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTC
TTCAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATG
CTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGAGGCCAGGAGGTCAATACCAGCCTGGGCA
ACATAGTAAGACCCTGTCTCTATTAAAAAAAAAAAAATCAACCCCTTCTTCCCCACCAAACCACCAACTCCTCTCT
ACTCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTTCTGGATCTCCTTCCCTCCTTTCTC
GTCCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCCGTACATAACAGCCGAGGCACCGAGGCCCACA
GGGAAGCAGCTGGGAGCTTGGAAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGT
GGGTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGG
GACCCATATCCTACAGGCAAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGG
CCAGGTTTGCAGTGCGGGAAGATGAGCAGGCCAGTGGGAGGAGGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGT
GTTCATTTTAGCTCTAAGAAAAAAAAATCAGTGTTTCGTGAAGGTGTTGGAGAGGGGCTGTGTCTGGGTGAGGGAT
GGCGGGGTACTGATTTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTCTG

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FIGURE 5526

MSLLATLGLELDRALLPASGLGWLVDYGKLPPAPAPLAPYEVLGGALEGGLPVGGEPLAGDGFSDWMTERVDFTA
LLPLEPPLPPGTLPQPSPTPPDLEAMASLLKKELEQMEDFFLDAPPLPPPSPPLPPPPLPPAPSLPLSLPSFDL
PQPPVLDTLDLLAIYCRNEAGQEEVGMPPPLPPPQQPPPPSPPQPSRLAPYPHPATTRGDRKQKKRDQNKSAALRY
RQRKRAEGEAGEGECQGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQTRSC

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FIGURE 5527

GCGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCGGCCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCCATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCTTCCCAGTCCTGACAAATGGCCTTTCCTTAAGTTCCTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCCAGCTGCTCTGAC
CCCAATATCAGGAACCTTGGCATCTCTGATCTAACAAGGGCACCCTAACAAGGACAAAGCCACCATCATTACCT
TGATTCCGCACATGCCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCTGCACCTCCTCGTCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGCTGGACACAAGGTACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAAGCTGGGCTACGCCTTGCCTCCCCAGGAAA
AGGGCCACTCGCCCCAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAGGCACACGCTCTTGGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAX
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGCTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATCACCTTCTCGCCGCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGT
GCCGGCCACCAAGGTGTTCCCTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAAA
CACCGATCGCCCGTCGCGCATGATTTTCTACCCGCGCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCAGCGTTCCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCCTGTGCTGCGCCAGCTCTGGGACGGCACCGGCGTCTGTCAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGGAAGGGGCCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGGCATGTGCATGGGGTGGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCCTCC
AGTCCAAGGCCAGTTATCTCTCCAAAACACGACCACACGAGGACCTCGCATTAAAGTATTTTCGGAAA

5993/6881
FIGURE 5528

GAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGGCCCTCGGCTGAAGAAAGAAGAA
ATCTTCCCAAGGCTGCAGACACCGACGGATTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCC
ATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTTACGTTTGGCACTGCAAAGACGGCAACA
ACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCA
GCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCACT
TTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGC
AACACAGCTGCCACCCCAGCCATGGCAAACCCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATA
TCGAGCACCGTACCTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGGCT
CCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCTCA
GCAGGGAATTAGCCCAGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCA
GGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCCAGCCTCTTTGCGTCAATA
GCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACT
GCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTGCC
ACCGCCACCGCCACCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCCTGGCGCCAGCC
GGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGC
TCCGCCATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC
TTCTTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCAGCCTG
CACCGCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCTGTCCCAGCAG
AAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCAC
GCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGCTCAAGCGCATGGCCCAGGAT
CTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACACCAGTGACCCACTGCAGCAGATCTGC
AAGATCCTCAATGCGCACATGGACTCACTGCAGTGGATCGACCAGAAGTTCGGCCCTGCTGCAGAGGAAGGTGGAG
GAGGTGACCAAGGTGTGCGAGGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACA
GCAGCCCTGGGGCCCGCAGGTCCCTAGGGAGTTTATGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTG
GCAAGATACTTGTGTTTGTGTTTCTTTCTTTTACA

5994/6881
FIGURE 5529

CTGTAGTCCTGGCACTTTGAGAGGACAAAGAGGGAGGATCGCTTGAGCCCAGGAGTTGAAGACCAGGGCAACAGA
AAATCTTCCCAAGGCTGCAGACACCGACGGATTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAG
CCATGAGCGGGTTTAAATTTTGGAGGCACTGGGGCCCTACAGGCGGGTTCACGTTTGGCACTGCAAAGACGGCAA
CAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAAATTTGGGGCTCCCTTCCAAC
CAGCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCA
CTTTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGA
GCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCA
TATCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGG
CTCCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCT
CAGCAGGGAATTCAGCCCAGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAG
CAGGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCCAGCCTCTTTGCGTCAA
TAGCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCCA
CTGCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTG
CCACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCCTGGCGCCAG
CCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGG

5995/6881
FIGURE 5530

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCACAGGGCTGCCACTGCTGCTCGGCCTCCTGCG
CCCCACCAGCACCACAGCCACCCAGTCCACACCCAGCCACCCCGGCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTGATGGATGAGGACGCCACCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCGCCGGCCCCCCCCACCTGCTCAGTGCCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTTCATCAGAT
GAGGAGAAATGGGCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGGCGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATATTGAAGTCCAGGGAGGGAGCGCCCCGGGCGCGTCCGCCCCGTCCACACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCTCCTTGCCTCTCCCATTTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCGTCTTCCAGCCACGACCTGCCGCGCCGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCCTAGCGACAGATTCTTCTATTAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTGTTTTCCGCCTAGCGACAAGGGATTTGCTCGCACGGCATTGGCTCCATCCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTTCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCTGGGGGCGTGGCCAAGCCCTCCTCTTCCCAGAATTGGCCCGGGGCC
TTCAATTTACGTTCTTTACACTACGGGGACTGGGGTCGTCTTTGCCCCACGTCCCGACAACCTTGTTCCCTGACCCC
CTCAGGGATGGCCCCAAACTGTCCCTGCCTCTGGCACCCCTTTTCATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGCTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGGCAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTTACCTCTGAGAT

5996/6881
FIGURE 5531

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCG
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCCGGGCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCCC
CATCTTCTTGCCCTCGGACGGGCAAGCCCTGGTCCTGGGACAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAATCCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGCAGATCCTGAGACCCGGACAGTGGCAGTGAAACAGCTGGGA
GTTAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCCTGGCACCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGGCTGGGAGAACTTGGAGAAGTTGCTAGTGTTCACCGCAGCTGGGGTGAAACCCAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTTCCCACTGGCCCCAGTGACTGGAGG
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTCACCAAC
CAGATGAGCATCGGGCGCGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCCTTCCAGGTGCTGGTGGCCACGCACGCAGGCTTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCATATCCATCGGGGACAGCATCTTTGTGGGAGACGCAGCCGGACGC
CCGGCCAACTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCTTCGCCACGCCTGAGGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGGAGGTGGTT
GTCGCAGTGGGATTCCCTGGGGCCGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTGCGCCGGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAAACGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCAGCCGCGGGCGTC
CCCTGCCGCTGCTTCTCTTACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTCGAGAGATGACGGAC
TCCTCTCATATCCCCGTGTCAGACATGGTCATGTATGGCTACAGGAAGCAGTTCGAGGCCCCAACGCTGGCTGAA
GGCTTCTCTGCCATCCTGGAGATCCCGTTCCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCAGCTCCCTCCACAATAAACGCTGTTTCTCCTTG

5997/6881
FIGURE 5532

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGT**ATG**GTCCCCGGGTCCGAGGGCCCCGGCCCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGCTCCGCAA
GCACTACCTGCTCCCGGCCATCGAGTATTTTAATGGTGGTCCCTCCTGCTGAGACGGACTTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTTC AACACAGTGGACTGCGCTCCCGAGTCCTACGTACAATGTCACGCTCC
CACCAGCAGCGCCTATGAGTTTGTACCTGGCTCGATGGCATTAAAGTTCATGGGCGGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTG CAGCTGTTTGATGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCTCCTCATCTGCAACTCACCCCATACTTGTTGCCTGCTGTTGAGAGCACCACGTACTC
TGGATGCACAAC TGAATCTTGTG CAGCAGATTGGGGAGCGGGGGATCCACTTCTCCATTGTGTCTCCCCGGAA
GCTGCCTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCCCCGGCCTTGCTGGAGCCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTCTGGTTCGGGGACTCGTGCTGCCTGTTGGGGGTGGCTCAGCCCTAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCCGACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGGTTC CCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCAAGGACCCCTGGCGCCCCCAA
GCCACCACCTGCTTCCCAGCCAGTCTGGTCTCCACTGTGGCCCCCTGGCTCCGGCCTGGCTCCCACGGCACAGCC
CGGGGCACCGTCCATGGCAGGCACTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCACTCTCCAATAAGCTTCTGGCCTGGAGCGGGGTCTGGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAAC TCAAGGATGGTCCAGTTCCATTTACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCACCTTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGCTCAT
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCCCTACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTCA TCACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA
GCAGGCACCCCCAGGGCTGGGGCCATTCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCC
CACCGCAGCCCCAGCCTCAGGGTACCGTAGGGGCCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCCC
AGCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGCCCCACCCCTCCTGGACCCATCCTTCGGC
CCCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCG CAGACTGGGGTGCCCC
CACCCAGGCCTCCCTCCACCACCTGCCCAGTCCTGGCCCGCACAACTTCCCCCTCGGGCTCCACTGCCAGGTAA
GGGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCAGCAGCTCCTGGGCTAGAGCACCAAGACCAAGTGC
TCCTGGGAAG**TAA**AGACATAGGATCCAAGAATGAGGGTTCCCCAGCCGGGCCTGCAGCCAGCGTCATGGAGGA
CGACATCCTCATGGATCTCATCTGAATCCCCAACACCCAATAAAGTTCTTTTAAACACAAAAAAAAAAAAAAAA
AAAA

5998/6881
FIGURE 5533

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGRLRKHYLLPAIEYFNGGPPAETDFGGDYGGTQYSLVVFNTVD
CAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLSTALQLFDDFKKMREQIGQTHRVCLLICNSPP
YLLPAVESTTYSGCTTENLVQQIGERGIHFSIVSPRKLPA LRLLFEKAAPPALLEPLQPP TDVSQDPRHMLVRG
LVLPVGGGSALGPLQSKQPVPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPPASQPSLVSTVAPGSGLAPTAQPGAPSMAGTVAPGG
VSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKP KPPASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLIM
QLIPQQLLTTLGPLFRNSRMVQFHFTNKDLESLKGLYRIMGNGFAGCVHFPHTAPCEVRVLMMLLYSSKKKIFMGL
IPYDQSGFVNGIRQVITNHKQVQQQKLEQQQQRGMGGQQAPPRAGAHSGGPSQALTESAPAPPTAAPASGYRRGLW
GHGAAPAPRYCPAPARCPSPRSWSSFWPTPSWTHPSAPEPWGQPSAAKPPQPTTAADWGAPTFGLPPPPAQSWP
AQLPPRAPLPKGKTRGRAEVWTECPSSSWARAPRPSAPGK

5999/6881
FIGURE 5534

GGCACGAGGGCCCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCAC
TGACAGTCCCCACGTGAGGGACCGCGGTGGGAGTCTTAAATGGGGGAGGAGGGGACGGGCGGCACTGTGCATCTG
CTGTGCCTCGCGGCCCTCCAGCGGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGGCGGCCCGCCCGTCCAGCAG
CTCCCGTTCTCTGTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCT
GCGAGGACCGAGAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATCACCCCTCATTGTTCTGTCATCTGAG
GTGGGCATCTCTGAGCTGAGGCTGGAGAGACTACTCCAAATGGTGTGGAGCCATGGTCCTTCTTGTGGGACTT
GAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGC
TTCTGGGGGACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTC
TTGCAGGAAGCCCTCTCCGGGTTCGCTGAGGCCGCGGGCACGACCTTCGTCAGTCTGGTGGTGTCGGGCCGGGTG
GTGGCAGCAACAGAGGGTTGGTGGCGGCTGGGGACGCCCCGAGGCCGTGCTGCTCCCCTGGCTGGTGGGGTCCCTG
CCGCCGACAGCCGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACC
CTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCACCCCTCAGCCAGTTGTATCCACAG
CTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCC
AGTGGCTTCCCCCTTCACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAACCTGAAGCGCTGCCTCTTCACC
GTGGAGCCCTTGGGGGATAAAGAGCCTTCACCAGAACAGCGCCGGCGCCTCCTCCGAAACTTCTATACCCTGGTC
ACCTCCACGCACTTCCCACCAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCC
AGAGCTTGCTACCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTGCTGGTGGCCTTGACAGCTGGGGCTT
CGGCGGCTGCTGCTGCTGTCTCCCCAGAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCAT
GCCCTCACCCCACTTCTTTGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTT
TATTCGCTCACAAATAACACAGCCCCTGGATGGGGAGGGGGTAGGAGGGGCTACAACAGGGTGGGGTGGGAGGG
GAGGAGACATCCACTTCCCTGGCCCCCTCTCCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGGACTCCCCCTA
ACCCCCAGAAATGTAAACAGCAGCAGATGAACAAAAATAAAAAACAAAAGGCCGAAAAAAAAAAAAAAAAAAAA
AA

6000/6881
FIGURE 5535

MGEEGTGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTVVWKSF
HDSITLIVLSSEVGISELRRLERLLQMVFAMVLLVGLEELTNIRNVERLKKDLRASyclIDSFLGDSELIGDLTQ
CVD CVIPPEGSLLQEALSGFAEAAGTTFVSLVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLP
HGSPTVPHRLLTLLPSLELCCLLCGPSPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLL
LLHLELKRCCLFTVEPLGDKEPSPEQRRRLLRNFYTLVTSTHFPPEPGPPEKTEDEVYQQLPRACYLVLGTEEPG
TGVRLVALQLGLRRLLLLLSPQSPTHGLRSLATHLHALTPLL

6001/6881
FIGURE 5536

CGGCTCAGAGCTCCGGACCGCGGGCGGAGGGGAGGGGCAGGGGGCGGTGCCACGGCCTGCCAGCCCCGCCGCCG
CCCCGCCAGCCAGCCCTCCCCGCGGCCGGCTCGGCTCCTTGGCGCTGCCTGGGGTCCTTTCCGCCCCGGTCCCCGCT
TGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCATCATGCCGGCCGTGTC
CAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGTAAAGAGCAAAGAGGCGGAAAT
TAAGAGAATCAACAAGGAACTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTTGGATGGCTACAGTAA
GAAAAAATATGTGTGTAAACTGCTTTTTCATCTTCTGCTTGGCCATGACATTGACTTTTGGGCACATGGAGGCTGT
GAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCTGTGCTGGTGAAGTTCGAA
CTCGGAGCTGATCCGCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCCACCTTCATGTGCCT
GGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGACATCCCCCGCATCCT
GGTGGCCGGGGACAGCATGGACAGTGTCAAGCAGAGTGCGGCCCTGTGCCTCCTTCGACTGTACAAGGCCTCGCC
TGACCTGGTGCCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTCAC
GGCCGCCGTGAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGT
GTCGCGCCTGAGCCGATCGTCTCTCTGCTCCACCGACCTCCAGGACTACACCTACTACTTCTGCTCCAGCACC
CTGGCTCTCGGTGAAGCTCCTGCGGCTGCTGCAGTGTACCCGCCTCCAGAGGATGCGGCTGTGAAGGGGCGGCT
GGTGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGTGCAGCATTCACACGC
CAAGAACGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAAGCCCAACCTCCTGGTTCGGGC
CTGCAACCAGCTGGGCCAGTTCTGTCAGCACCAGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGCAC
GCTGGCCAGCTCCGAGTTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAATGCCCTCAAGACGGA
GCGGGACGTCAGCGTGCAGCAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAGCAATGCCAAGCAGAT
CGTGTGCGGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGTCTGAAGGTGGCCAT
CCTGGCCGAGAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCATCCGCATTGCGGGCGA
CTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTCACCAACCGTGATGACGTCCAGGGCTATGCCGC
CAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCCTGTACAGAGAATGTTGAAGGTGGCGGCTACATCCTTGG
GGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTT
CCATCTGTGCAGCGTGGCCACGCGGGCGCTGCTGCTGTCCACCTACATCAAGTTTCATCAACCTCTTCCCCGAGAC
CAAGGCCACCATCCAGGGCGTCTGCGGGCCGGCTCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCGAGC
CGTGGAGTACCTACCCCTCAGCTCAGTGGCCAGCACCGACGTCCTGGCCACGGTGCTGGAGGAGATGCCGCCCTT
CCCCGAGCGCGAGTTCGTCCATCCTGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGGGCCGCGCAGCGCCCTGGACGA
TGGCCGGAGGGACCCAGCAGCAACGACATCAACGGGGCATGGAGCCACCCCCAGCACTGTGTGACGCCCCCTC
GCCCTCCGCCGACCTCCTGGGGCTGCGGGCAGCCCCCTCCCCGGCAGCACCCCCGGCTTCTGCAGGAGCAGGGAA
CCTTCTGGTGGACGTCTTCGATGGCCCCGGCCGCCAGCCAGCCTGGGGCCACCCCCGAGGAGGCCTTCTCAG
CGAGCTGGAGCCGCTGCCCCGAGAGCCCCATGGCTTTGCTGGCTGACCCAGCTCCAGCTGCTGACCCAGGTCC
TGAGGACATCGGCCCTCCATTCCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGTAAGAACAACGGGGTCTT
GTTTCGAGAACCAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCGACAGAACCTGGGCCGATGTATCTCTTCTA
TGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTACCCACTGTGGTTACCCGGGAGACCTCCAGACTCAGCT
GGCTGTGCAGACCAAGCGCGTGGCGGCGCAGGTGGACGGCGGCGCAGGTGCAGCAGGTGCTCAATATCGAGTG
CCTGCGGGACTTCTGACGCCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCCCAGGCCCTCACCT
GAAGCTCCCAGTGACCATCAACAAGTTCTTCCAGCCCACCGAGATGGCGGGCCAGGATTTCTTCCAGCGCTGGAA
GCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCAACCCATGGACGCAGAAAGTTACTAA
GGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAAATGTGGACCCCAACCCTGAGAACTTCGTGGGGGCGGG
GATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCCAGGCCCGAGTGATCCG
GCTGACCTTGCACACCAGCAAGGAGCCCGTCTCCCGTACCTGTGTGAGCTGCTGGCACAGCAGTTCTGAGCCCT
GGACTCTGCCCCGGGGGATGTGGCCGGCACTGGGCAGCCCCCTGGACTGAGGCAGTTTTTGGTGGATGGGGGACCT
CCACTGGTGACAGAGAAGACACCAGGGTTTGGGGGATGCCTGGGACTTTTCTCCGGCCTTTTGTATTTTTATTTT
TGTTTCATCTGCTGCTGTTTACATTCTGGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTTCCCCCCCCAAGCACAGA
GGGGAGAGGGGCCAGGGAAGTGGATGTCTCCTCCCCCTCCCACCCACCCTGTTGTAGCCCCCTCTACCCCTCCC
CATCCAGGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCTAA

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FIGURE 5537

AGGCGCAGACGGGGAAGCGGAGCCAAC**ATG**CCAGTGGCCCGGAGCTGGGTTTGTACAAAACTTATGTGACCCCG
CGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC
GACTTGTCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCG**TGA**AAGAGGAAGAACGCCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

6003/6881
FIGURE 5538

MPVARSWVCHKTYVTPRRPF EKSR LDQELK LIGNVLLRRLLRIGVLDEGKTKLDYILGLKIEDFLERRLQTQVFK
LGLAKSIHHAGVLIRQRRVRVRNQVANIPSFIVRLDSQKRIDLSLRSPYGVAAPAA

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FIGURE 5539

GTGGGCAGCCGAGGCCGCGAACTGCATC**ATGG**GAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCCGCAAGGTCATCGGGATCGTGTGTTCCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGAGAAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCAT
CAAAGATGTGGCCATTAAGGAGCCCCTAGTGGATGTCTGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATAACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCT**TGAG**GGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGGCTGAGCGTTCCTAGGCGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGGCCTGGGCTGGGGGGATGGGGAGGGCACATCGTGAAGTGTGTTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 5540

MENFVATLANGMSLQPPLEEVSCGQAESSEKPN AEDMTSKDYYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFKDKVVL DVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASSS
ASGWATASSTSPCSTPCSMPTSVAPDGLIFPD RATLYVTAIEDRQYKDYKIHWWENVYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACLIEVDIYTVKVEDLIFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLT VKTGEEIFGTIGMRPN AKNNRDLDF TIDLDFKGQLCELSCSTDYMR

6006/6881
FIGURE 5541

AAGTAAGTATCCCCACTTTTCAGGGTAGCATCCTCTTTCCCTAGTTATTTTCAGTGCAGAATCGATTACAGTGTAAG
CCTCTACCTCCTGCACTTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTTC
CAACACAGAACTTCCATTCAATTCCCCTCCGACTGCCCGCCTCCCTCCTCCAGGACAGAGCACGCCCCAGGTTTC
GAGACTGAACTACCCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCCTCCTCTTT
TCCTCTTTCCCTCCCTACTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCCAGAGTACACAGCCTGCCTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTGGGGCGTGGGGCAGCTGGAA
CCCACCCCTGTCTTGAGCTCCGGGTAGCTCTCAAACCTCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAAATAAAACCAACTTTATCATTCTTTGGGTAAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGGCTGTTCCCGCCCCATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCCGCCCTTTCTACGCTGGGCCGGTTATCGACCCGGCCC
AGTGCAGCAGGCGCGGGAAAGTTGAACTAATAAAGTTTGTACGAGTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGGCGGTGGGGCCCCGGACAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCCCTAGCTGCCTTCCTTAGGCGTGGTGAGGCTGCCGGGTCTCCTGTTCCAACCTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCTTCTGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCCTCGGCCTTGCTCTCTGCCCATCCGCCCTGCTATGGTTTAGAGCCTGGCCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCAGCGGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCCAGAATT
ACAGGGTCCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTCGCCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCAAGCCGAGCATGCCCCGGGCCCCCGCCTCCTTC
CCCGGAGCCCCTGGCCCGCCTGGCCCTAGCCATGGAGCTGAGCCGGCGCTGGCCGGGCTGGGGGGCACCCCTGGC
CGGACTCAGCGTGGAGCAGGTGCACAGCTTCACGCCCTGGATCCAGGCCACGGGGCTGGGAGGGCATCCTGGC
TGTTTCACCCGTGGACTTGAACCTTGCCATTGGACTGA

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FIGURE 5542

GGTTCCAGCTGCCCCGACGCCCCGACCTTCCATCGTAGGCCGGACCATGGGAACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTTCGCAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGCTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTTCGGAATCTTCCAGGCCTGGGCCCAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCCTGAGCCCTGCCCTCAGCCCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTTCGAGGTGACAGCCTTCTA
CCGGGGCCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCCGAGGGCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTGAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGCCCAGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTTTGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGGTTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGCTGAGCCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTCCTGCTATGAA

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FIGURE 5543

MGTPKPRILPWLVSQILDGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEATGAYVPGRDKPDLPT
WKRNFERSALNRKEGLRLAEDRSKDPHDPHKIYEFVN SGVGDFSQPDTSPTDNGGGSTSDTQEDILDELLGNMVL
PLPDGPPSLAVAPEPCPQPLRSPSLDNPTFFPNLGPSENPLKRLLVPGEEWFEVTA FYRGRQVFQQTISCPEG
LRLVGSEVGDRTLPGWPVTLPDPGMSLTDRGVMSYVRHVL SCLGGGLALWRAGQWLWAQRLGHCHTYWAVSEELL
PNSGHGPDGEVPKDKEGGVFDLGPFI VDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMVKVVP TCLRAL
VEMARVGGASSLENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGPGES

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FIGURE 5544A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCCAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGAGATAGTGTGGGGCCCTTGAGGTCTTCATGTCTATCCTCTACTTCCATCCTTTCT
CCCGGGACCTCCACTCCAACTCTCCCCCTGGACCCCAAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCCTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCCAATGATAAAGATGGCTCTCGGT
GTCATGGCCTTCGATGGCGGCGCTGCCGGAGTCCACGGTCAGAGCCCCGTTCCCAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTTGGACATGGCCACGGACAGCTTCCTCGCAGGGCTGGTGAGTGTCTGGATCCCCCGGATACCT
GGGTTCACAGCCGCTGGACCTGCGGCCTGGCGAAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGGACAGAGATCCCATCCCTCTGCCTGTGCCAGCCTGCTGCCCCGTCTCAGGGCCTGGAGGACGGGCAAAACGG
TTTCTCCACAGTCGAACCTCTTAGGCCACCTGTGCCCGTCACCTCACCTTGGGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCCCTCCTCTGCATCCTCCTCCCTTCCCTTCTCCTCATCTTCTCCTCCCTTCCCTCCTCC
CACCCCAACCGCCCCCTGCACCCCAAGCCCCACCTGCCCCCGATTGATATCTATGACCCCTTCCACCCCAACCG
ACGAGGCCCTACTCTCCACCGCCTGCTCCGGAGCAAAAAGTACGACCCTTTTGAGCCCAACGGCTCCAACCCAGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAAGAGGAAGAGGAAGACGAGG
AGGAGGAGGAAGGCCTGTCCCAGAGCATCAGCCGCATCTCGGAGACCCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCAGGTGACGAGAGCCCCCGCCGACGCGCAGCCACACAGCCGACTCCCGCCCCTGAA
CGCCGCCCCAGGTGGACTCCACCCGGGCTGATGGAGCCATGCGCCGGCGGGTCTTCGTGGTGGGGACCGAGGCAG
AGGCTTGTCGGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGTGGTGGAGCCGCCCTCCCGCCGCCCTGCTGC
CGCCCGCGACTCGGAGATCGAGGAAGGGGAGATCGTCCAGCCGAGGAGGAGGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCGCGCGCGCGGGCCGCCCGGCTACACCGCGCGCCTCGGCCACCCCAACGGCCAGCCCTTCTCTCAGC
CTCCCGCTCCGCGGGCCCCGAGGGGGACGACTTCTTGTCCTGTCATGCGGAGTCGGACGGCGAGGCGCCCTGC
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCGCCCGCCGACTCGCGCTGGGGCGGCCCTGGACCTGCGCCGCA
AGATCCTGACCCAACGGCGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGCGCGCCCGCGCCCGCCCGCGCCG
CTGCTGGTCCGCCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTCGGGCACCCAGCCAGCGCCCGCCCGCCCGGCTCGCCCTGGGACTCCAAGAAGCACCGCTCGCGGGACC
GCAAGCCCGGCTCCACGCCTCGTCTCGCCCGCGCGCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCACCCGCC
GCCGCTCGCGCAGCACCGACCGCCCGCGGGGGCAGCCGCAGGTGCGGTCGCGGTCGCGGAGAAAGCGGCGACGGCGGC
GGCGCTCCGCTCCCGCCCCCGGCCACTTCTCATCGTCTCTCGAGGCGGAGCGGCACCGCGGGAAACACC
GGGACGGTGGCGGCAGCAAGAAGAAGAAGAGCGGTGCGGTCGCGGTCGCGGGTGAGAAGCGGTCTGGGGATGGCAGCG
AGAAGGCCCGCGCGCCCGCCCGCCCGCTTGCTCCACCTCGTGTGGTGACCGCGACAGCCGCCCGCGGGGGG
CCGTGCCACCTCCATCCAGGACCTCACGGACCACGACCTCTTCGCCATCAAGCGGACCATCACGGTGGGCGGC
TTGACAAGTCCGACCCCGAGGACCTCTCCTGCTCCGGCCTCTCACCTAAGCGGGAGGTCTGTACGACTCCG
AGGGACTGAGCGGCGAGGAGCGGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCCGCTCGGGGGCCGCTCCTCCT
CCTCCTCTTCCCGGAGAAGGGGTCTCGTCGGAAGGCGTGGACGGGGTGACCGGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTATCCAAGAAGGCCCGGCCCAAGGAGTCGGCGCCTTCTCAGGGCCCCCGCAA
AGCCACCAGTCAGCAGCGGCTCAGGCTCTTCATCCTCGTCTCTCTCTTCTTCCCGGAAGGTGAAGCTGCAGT
CCAAGGTGGCGGTGCTGATCCGCGAGGGTGTGACGAGCACCACCCCGGCCAAGGATGCCGCGTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTCAGCCGTGACCGCGAGAGTCGCTCCCCCTTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGCAGCACCAAGCCCAAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA
AAACCAAGGGGACCAAGGGAAAGACCAAGCCATCCAAGACCAGGAAAAAGGTCCGCACTGGAGGTGGCAGCGGGG
GCAGTGGTGGCCAGGTGTGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGCAGGCACCAAGGGGGCGG
AGGAGACTTCTGGTCCGGGGAGGAGCGGGCAGCCAAGGTTCTTAGCACCCCGCCCCCAAGGCAGCCCCACCAC
CCCCTGCCCTCACTCCGGACTCGCAGACCGTGGACAGCAGTGAAGACACCTGAGGTCTCCTTCTGCCCCGAGG
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCCTGCTACCACCACGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCCA
GCGCGGGGTCCACAGCCGCTGACTCGGGGGCGGAGGACGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACCAGCGGCGTCTTGGCCTTGACTGCACTTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCAGGAGTGTATCCAGGCCACCAACCAGATCC

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FIGURE 5544B

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCCAGCTCCTGTGCCCACCTCTTTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTTCGACCCCCCCCCACCCCCACCGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCCACGGCCGCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCTGC
CCCCCTCTCTGAAGGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCAAGCCTGTCCCCAGTGCCCCTCCCTTCTGTTTGTGCCCTCTCCCC
AATTTCAATTAAAGATTTTCATGAAACATT

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FIGURE 5545

MSILYFHPFSRDLHSKLSPLDPQVTMEEEDESRGKTEESGEDRGDGPPDRDPTLSPSAFILRAIQQAVGSSSLQGD
LPNDKDGSRCHGLRWRRRCRSPRSEPRSQESGGTDATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRPGESDM
LELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKTVSPQSNSSRPTCARHLTLGTGDGGPAPPPAPSSASSSPSPS
PSSSSPSPPPPPPPPPAPPAPPAPRFDIYDPFHPTDEAYSPPPAPEQKYDPFEPTGSNPFSSSAGTPSPEEEEEEEE
EEEEEEEEEEEEEGLSQSIISRISETLAGIYDDNSLSQDFPGDESPRPDAQPTQPTPAPGTPPQVDSTRADGAMRR
RVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPDSEIEEGEIVQPEEEPRLALSIFRPGGRAARPTPAASA
TPTAQPLPQPPAPRAPEGDDFSLSHAESDGEALQVDLGEPAAPAPPAADSRWGGLDLRRKILTQRRERYRQRSPS
PAPAPAPAAAAGPPTRKKSRERKRSGEAKAAASSSSGTQPAPPAPASPWDKSKHRSRDRKPGSHASSSARRRSR
SRSRSRSTRRRSRSTDRRGGSRRRSRSEKRRRRRRRSASPPPATSSSSSRERHRGKHRDGGGSKKKKKRSRSR
GEKRSRGDSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGRDLKSDPRGPSPAPASS
PKREVLVDSEGLSGEERGGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRSSKKARPPKE
SAPSSGPPPKPPVSSSGSGSSSSSSSSCRRKVKLQSKVAVLIREGVSSTTPAKDAASAGLGSIGVKFSRDRESRP
FLKPDERAPTEMAKAAPGSTKPKKTKVKAKAGAKTKGTKGKTKPSKTRKKVRSGGSGSGGQVSLKKSKADSC
SQAAGTKGAEETSWSGEERAAKVPSTPPPKAAPPPPALTPDSQTVDSCKTPEVSFLEEEATEEAGVRGGAEED
EEEEEEEEEEEEEQPATTTATSTAAAAPSTAPSAGSTAGDSGAEDGPASRVSQLPTLPPMPWNLPAGVDCTT
SGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSSLGMTAPVPTSLGLPPGPSSYLLPGSLPLGGC
GSTPPTPTGLAATSDKREGSSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYQKDDITKEEYKDILRKAVHKI
CHSKSGEINPVKVSNLVRAYVQRYRYFRKHGRKPGDPPGPPRPKEPGPPDKGGPGLPLPPL

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FIGURE 5546

GGCACGAGGAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAAT
GGTGCGATCTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCCATTTCAGCCTCCCGAGTAGCT
GGGATTACAGGATGACGCGGCATGGCAAGAACTGCACCGCAGGGGCCGTCTACACCTACCACGAGAAGAAGAAGG
ACACAGCGGCCTCGGGCTATGGGACCCAGAACATTGACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTT
GTCTCTCCCTGCAGCCTTGCCACGATCCTGTTGTCACCCCAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGG
AGTACATTCTGCACCAGAAGAAGGAGATTGCCCCGGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCG
AGGAGCAGAAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCG
TGAGCCGGCCCCCTCAACCCTTTCACAGCCAAGGCCCTCTCGGGCACCAGCCCAGATGATGTCCAACCTGGGCCCA
GTGTGGGTCCTCCAAGTAAGGACAAGGACAAAGTGCTGCCAGCTTCTGGATCCCGTCGCTGACGCCCGAAGCCA
AGGCCACCAAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCCATGTGAGGGAAGCCCCCTGCGCATGTGCGACC
TGACGCCCCGTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGCGGGCTCATCACCCGCAGCGAGCGCTACG
TGTGTGCCGTGACCCGCGACAGCCTGAGCAACGCCACCCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTCA
CCCTCGAATGCGTGGAGAAGCTGATTGCGGAAGGACATGGTGGACCCTGTGACTGGAGACAAACTCACAGACCGCG
ACATCATCGTGCTGCAGCGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGC
CGGTGATGCAGGCCTGAGTGTGTGCGGGAGACCAAATAAACCGGCTTGGGTGCGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5547

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNIRLSRDAVKDFDCCCLSLQPCHDPVVTPDGYLYEREAILEYIL
HOKKEIARQMKAYEKQRGTRREEQKELQRAASQDHVRGFLEKESAIVSRPLNPFTAKALSGTSPDDVQPGPSVGP
PSKDKDKVLPSFWIPSLTPEAKATKLEKPSRTVTCPMMSGKPLRMSDLTPVHFTPLDSSVDRVGLITRSEYVCAV
TRDSLSNATPCAVLRPSGAVVTLECVKELIRKDMVDPVTGDKLTDRDIIVLQRRGGTGFAAGSGVKLQAEKSRPVMQ
A

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FIGURE 5548

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACTAAGGA
GGCTTCCAGAAGATTTTGATTAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCCTTTCCAGTTTTGTCAAGAATTCCCTGAGCGGCAG
ACACCCTCAAAGTAAAAACGGGAACACAGAGAAGGAAAAAGAAGAACACAAGCGTTTTTGAGAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGTGGGGCTGGATGTTCTTGAGAGTCAGGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAACTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGCAGGCAGGA
AGCGGAGCGAGGGCTGAAGGGAACCTTCGTCTCTCAGCATGGGGTCCC CGGCCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTCTCCTTCCCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCCGAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACCAGGTGTCCTGGTATTGGGAGAAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAACTGGGCCCTGACAACACCTCGGTGCCACCGCCAAGTTCGCCCTGAACGGCGA
GGAGTTCATGAATTTTGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCCGAGGCCCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCCAACAAAGGAGCTCACCTTCCTGCTATTCTCCTGCCCCGACCGCCTGCGGGA
GCACCTGGAGAGGGGGCCGCGGAAACCTGGAGTGGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCCCTCCGGAGCTGCAACTTCGGTTCCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGA CTTCGGCCCCAACAGTGACGGATCCTTCCACGCCTCGTCGTCACT
AACAGTCAAAAAGTGGCGATGAGCACCCTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTTGGATCTCCCTTCGTGGAGA
CGACACCGGGGTCTCTGCCCCACCCAGGGGAGGCCAGGATGCTGATTTGAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGECATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCTTTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGGTCTGGGCCTAGTTGTCCTCCCTCTGGAGCCCCGTCTGTGG
TCTGCCTCAGTTTCCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCC

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FIGURE 5549

TTTCTTTTTTTCAGGCGGCCGGAAGATGGCGGACATTCAGACTGAGCGTGCCTACCAAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCCTTCACTGGTAATGTGT
CCATTCGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTCACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCGCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCAGAAAGTTCTGAGGCTGGACATCGGCCCGCTCCC
CACAATGAAATAAAGTTATTTTCTCATTCCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5550

CTTTTCCAAGCGGCTGCCGAAGATGGCGGAGGTGCAGGTCTTGGTGCTTGATGGTTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTCGTACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCTCCTCCGCAAGCGGATGAACACCAACCCTTCCCG
AGGCCCCCTACCACTTCCGGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGAT
GGTGGTTCTTGCTGCCCTCAAGGTCTGCGCTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCTCAAGACCCACGGACTCCTGGTCTTGAGCCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCAATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGGTACAGGCATCGCCCATGCTCCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 5551

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLKYLAF LRKRMNTNPSRGPYHFRA
PSRIFWRTVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVP AALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 5552

CGCAGTCTTCGCGGAAAGCGTTTCGGGGTAGGCGATGGCTGCGACGCGTGCAGGGCCCCGCGCCCGGAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCTTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCCTGGAATCCCTGGTGACTGGGCGGGCTGTTT
GAGAGGTTTCGAGACGGGGACGTCCAGCTGGCCCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCATGGGGAGTAATTGGCCTCATCCTGCCACCCACATTCTCCTTCCTTGAGA
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCCGGCCTCCCCGGCGC
CCCTCCTCCTGGCCCAGCTGGCGGGGGAGCTGGGCCCCCTTCCCGGGAATCCTGAATGTCTCAGTGGCCCTGCGT
CCCTGGTGCCCATCCTGGCCTCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGGAGGAAGGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCCTGGCGCTGGGGACGGAGTCGCTGCTGCTGCTGA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGTGGACGCCGCTGGTCCGACCGCGGCCCCGGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCGGGGGCTGCCGCATGTGACCTGGTCCAGCGCTTTG
TGCGTGAGGCCCAGAGCCAGGGTGCACAGGTGTTCCAGGCTGGTGATGTGCCTTCGGAACGCCCATTTCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCAGCCTCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTGTGTCGCT
CCCCCTTCGCGACAGCCAAGGAGGCACTGTTGGTGGCCAACGGGACGCCCCGCGGGGGCAGCGCCAGTGTGTGGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCACGGCC
TCAGAGACCCCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTTGGCACGGGGGCCAGACGGGCTGT
ATGAGTATCTGCGGCCCTCAGGGACCCCTGCCCGGCTGTCTGCTCTCCAAGAACCTGAACTATGACACCTTTG
GCCTCGCTGTTCCCTCAACCTGCCGGCTGGGCCTGAAATAGGGCCAGCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGGCCGTTTCCAGGCTCCTGGGGCCCGAAGCTCCAGGCCATCCGGGATTCTGTCTGGCAACCTCCATGGCT
ACGTGGCTGAGGGTGGAGCCAAGGACATCCGAGGTGCTGTGGAGGCGCTCACCAGGCTTTCCCTGGCTGGGCGG
GCCAGTCCCCAGGAGCCCGGGCAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCTGG
CCTCGAGGCTGGAGAGGCAGGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCGGGTGCAGGCCCAAGGCCACACCTGTCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGGACGAGTGGCCCCTGCTTGCCTTCGTGTCCCTGCTGG
CTCCCGCCCTGGCCTACGGCAACACTGTGGTTCATGGTGCCAGTGC GGCCCTGTCTCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCAGCAGGCGCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGCACCAAGACGTCCAGGCCATGTGGTATTTTCGGATCAGCCAGGGTTCCAGTTTGTGAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGGCCTGGGACCAGGAGGCCGAGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCTATGGGGGACTTGATGCCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG
TTCCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTTTTTGGAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAATCTCGGCCCCTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCACACACCTGGCTCGAGGCCATTTTAGTTCTGAGGTTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTTGTGAAACAGAGAAAGGGGACCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTTGTCTTCTCCATCTGGTGGCTCTTGCTCTCTGTTTTCTCTACCTTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACTCTCTGGAATAAAATTAAAGTCCTCTCT

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FIGURE 5553

MGVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ
PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWSDRGPGGLRLLIQESV
WDEAMRRLQERMGRRLRSGRGLDGAVDMGARGAAACDLVQRFVREASQGAQVFQAGDVPSEPFYPPTLVSNLPP
ASPCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWSERLGQALELGYGLQVGTWINAHGLRDPSPVPTG
GCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQGA
ELKAAEALEVELSARRLRAWGARVQAQGH TLQVAGLRGPVLRRLREPLGVLAVVCPDEWPLLA FVSLLAPALAYGNT
VVMVPSAACPLLAL EVCQDMATVFPAGLANVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPV
WASRGCPRAWDQEAGAGPELGRLRVARTKALWLPMGD

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FIGURE 5554

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCACGGATTTGACGATGGTGTTTCGG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACTGGGGTTCGGATCCTGGGCAAAGTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCACGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTTCGG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACCTTGAGCTGAATCCGGAATGGCGCATGATGAAGAACCGGCCATTTCATGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCCG
CCCCCGGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCCGACCTCCTCTTGG
CCGAAGTTGACCTCCCCAAACTGGATGGAGCCCTGGGGCTGTCGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGGTGCCTTCTTGATGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAGATTTTTGCCTTTAAAAAAA
AAAAAAA

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FIGURE 5555

MANPKLLGMGLSEAEAIGADSARFEELLQASKELQQAQTTRPESTQIQPQPGFCIKTNSSEGKVFINICHSPSI
PPPADVTEEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQGCTAYDVAVNNSDFYRRMQNSDFLRELVITIAREGL
EDKYNLQLNPEWRMMKNRPFMGSIQQNIRSEQRPRIQELGDLYTPAPGRAESGPEKPHNLWLEAPDLLLAEVD
LPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKAAFHRKRKQLMVAMPLLPVPS

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FIGURE 5556

CCCAC TTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCGCGGCTCCCCAGCCCC
AGGCCGGGAGGCCCAG**ATG**GGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGA
GGAAGGCAGTGAGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGCCCGGATGCAGAGGGGGTGTG
GAGCCCAGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGGAAAAATAATTTT
GTCTGATGAAGGCAAGATGTATGGTTCGGAATGAACTGATCGCCCCGTACATCAAGCTGAGAACGGGGGAAGACCCG
AACTCGAAAAACAGGTTTCTAGTCACATCCAGGTTTTTGGCCCCGAAGGAAATCAAGGGAAATCCAGTCCAAGTTGAA
GGACCAGGTTTCCAAGGACAAGGCTTTCCAGACAATGGCAACCATGTCTCTGCCAGCTCATCTCCGCGCCTTC
TCTGCAGGCCAAACTGGGTCCCACTGGTCCTCAGGCCTCTGAGCTTTTCCAGTTTTTGGTCTGGAGGATCTGGGCC
CCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACCGTTCACCTTGTCAGTACTCCCCCATCTACTGA
CCTCCCAGGGTACGAGCCCCCCCCAAGCCCTCTCACCCCTGCCCCACCTACCCCATCGCCCCAGCCTGGCAGGC
TCGGGGCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTC
TTACCAGAGGCACCTGTTCTGTGCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGA
CGTCCGGCAGATCTACGACAAATTCCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCA
TGCCTTCTTCTTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCCAAGTGGTGAGGAGGCAGGGGCCGGTGGCAG
CATCAGCAGTGGTGGCTTCTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCTCACCTGTTCTC
CAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGCCCAGCTGGAGGACGGCAGATT
TGTGTACCGCCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTTCTTGACAAGTTGCGGCAGCTGCCTGA
GCGATACATGATGAACAGCGTCTTGAAAACTTCACCATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACT
GCTGCTCTGCACCGCCTATGTCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCCAGCATCACATTTACCGCCTGGT
CAGGGAC**TGAA**AGGGGGACCCCCAAACTGGCTCACCCCCCAGAACACCCTCCTCCCAGGGAGGGTCTCCAGCTCA
CCTCATGCTTCTTATTTGGGGAGAGGGCTGTGATGTAAAGGGGTTGACCTCAGAGGCCTAAGCAACTGGGGCCAT
CCCCCCCATTAGAGGGGGCCCCCAAACCTTGGTTGGAGAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCG
ATATTGGGACCTCACAGTGGGTGTCTGAAAGGACAGATCACTCCGGAGTATCAGGGATTGTGGGGACAGGAGTGA
GACAACCCCCCAGGTACAGCACTGGCTTTTCTTTTCAGCCCCTGACAGGCCACCCCCACTCCTCTGCATGTCTTG
GAGAGCGCTAGTTACACATTGGCTTGTCCCTTTTACTTTTTTCCCAGCCACCCCTCCCCCTGAAATTTCTGCCCT
CTCTACCACCCTCACTCCATGACCTGTGAGATCACAAAGTGAAGATGAACCTTTCTGTGCAGGAGCAGAGCCAG
GTGGGCCCTGGACATTTTTTTTTTTTTTAATATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATC
TCCGCTGCACAAGCAGTGTGTTGAACCTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGTTTTCC
TTCTCTCCCTCTCAAAGTTTGTGTTGTTGTTGTTCTGACAGAGGATAAAGCTATTTTACCAAAAAAAAAAAAAAA
AA

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FIGURE 5557

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEAGAGDGGPDAGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGK
MYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKL
GPTGPQASELFQFWSGGSGPPWNPDPVKPFSQTFFTLSLTPPSTDLPGYEPPQALSPLPPPTPSPPAWQARGLGT
ARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVQVRIYDKFPEKKGGGLRELYDRGPPHAFVLV
KFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSKVCSEFGKQVVEKVETERAQLEDGRFVYRLL
RSPMCEYLVNFLHKLRLPERYMMNSVLENFTILQVVTNRDTQELLLCTAYVFEVSTSERGAQHHIYRLVRD

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FIGURE 5558

GTTGGTGAGCATC**ATGG**CAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCACTCCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTCAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTTCG
GGCAGTCCTTATTGCTGGCCAGCCGGGCGACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAAGTACCCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCCGCTCCTTCACACGCGCCCGCGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGCCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCATCAACTCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCGAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGAAAACGCAAGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTCACTCTTCCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCCTCTTCAACGAACTCAAAGGCGAGACCATGGACACCTCCT**TGAG**TTGGATGTCATCCCCCGAC
CCCACCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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FIGURE 5559

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIEGEVVEIQIDRP
ATGTGSKVGKLTLLKTTEMETIYDLGTKMIESLTKDKVQAGDVITIDKATGKISKLGSRFTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESRSTQYMKEYQDAF
LFNELKGETMDTS

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FIGURE 5560

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT
CGGCCCCGCACCCTACCTGGTGCATTCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT
CCTGCGCCAGCCATGCCTTTAAACCGCACCTTTGTCCATGTCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA
TTCGACCTGGAGAACGCAGTGCTCTTGAAGTGGCTGGGAGGTGGCTAACAAGGTGGGTGGCATCTACACGGTG
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGACAACACTACTTCTGGTGGGGCCGTACACGGAGCAG
GGCGTGAGGACCCAGGTGGAAGTCTGAGAGGCCCCACCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC
AAGGGCTGCAAGGTGTATTTGCGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGCTCCTGGACGTGGGTGCC
TCAGCTTGGGCCCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGCCGTGGTACGACCGC
GAGGCCAACGACGCTGTCTCTTTGGCTTTCTGACCACCTGGTTCCTGGGTGAGTTCCTGGCACAGAGTGAGGAG
AAGCCACATGTGGTTGCTCACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGTGCCCGGCGACTG
CCTGTAGCAACCATCTTACCACCCATGCCACGCTGTGGGGCGCTACCTGTGTGCCGGTGCCGTGGACTTCTAC
AACAACCTGGAGAACTTCAACGTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG
GCGGCAGCCCACTGCGCTCACGTCTTCACTACTGTGTCCCAGATCACCGCCATCGAGGCACAGCACTTGCTCAAG
AGGAAACCAGATATTGTGACCCCCAATGGGCTGAATGTGAAGAAGTTTTCTGCCATGCATGAGTTCCAGAACCCTC
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTTATGGGCATCTGGACTTCAACTTGGAC
AAGACCTTATACTTCTTTATCGCCGGCCGCTATGAGTTCTCCAACAAGGTGCTGACGTCTTCTGGAGGCATTG
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCGAGCAGACAGTGGTTGCCTTCTTCATCATGCCAGCGCGG
ACCAACAATTTCAACGTGGAAACCCTCAAAGGCCAAGCTGTGCGCAAACAGCTTTGGGACACGGCCAAACAGGTG
AAGGAAAAGTTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCGACATGAACAAGATGCTGGAT
AAGGAAGACTTCACATGATGAAGAGAGCCATCTTTGCAACGCAGCGGCAGTCTTTCCCCCTGTGTGCACCCAC
AATATGCTGGATGACTCCTCAGACCCCATCCTGACCACCATCCGCCGAATCGGCCTCTTCAATAGCAGTGCCGAC
AGGGTGAAGGTGATTTTCCACCCGAGTTCTCTCCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT
GTCCGTGGCTGTACCTTGGAGTCTTCCCCTCCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGCACGGTT
ATGGGAATCCCCAGTATCTCCACCAATCTCTCCGGCTTCGGCTGCTTCATGGAGGAACACATCGCAGACCCCTCA
GCTTACGATATCTACATTCTTGACCGGCGGTTCCGCAGCCTGGATGATTCTGCTCGCAGCTCACCTCCTTCTC
TACAGTTTCTGTGAGCAGAGCCGGCGGCAGCGTATCATCCAGCGGAACCGCACGGAGCGCCTCTCCGACCTTCTG
GACTGGAAATACCTAGGCCGTTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCTTTCCAGAGCACTTC
ACCTACGAGCCCAACGAGGCGGATGCAGGCCCAGGGGTACCGCTACCCACGGCCAGCCTCGGTGCCACCGTCGCC
CTCGCTGTACGACACTCCAGCCCGCACCAAGAGTAGAGGACGAGGAGGATCCCCGGAACGGGCCGCTGGAGGAAGA
CGGCGAGCGCTACGATGAGGACGAGGAGGCCGCCAAGGACCGGCGCAACATCCGTGCACCAAGAGTGCCCGCGCCG
AGCGTCTGCACCTCCTCCACAGCGGCAGCAAGCGCAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC
CCCGAGCGAGCCCCCAGCCCCACCAGCTCCCTGGGCGAGGAGCGTAACCTAAGTCCGCCCCACCACACTCCCCGC
CTGTCTGCTCTCTGCTCCAGAGAGAGGATGCAGAGGGGTGCTGCTCCTAAACCCCCGCTCCAGATCTGCACTG
GGTGTGGCCCCGAGTGCCCCCACCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTCCTGC
ACTCCAGAATCCACAAAGCCGTGCCTTTCTCTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCCCTGGGC
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAAACCTGGCATG
GTGCTTTCAGGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATTCTACAGCATAACAGAGCAGGCCACGCT
CAGGCCCCGCATGCGGGCCACCAAGTTCTGGAAACCAGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC
CGGGGCACTTTCAGAGTTTGAAGGTAACCTGAGAGCAGATGGTCTCCATTTCAACTCCAGAAGTGGGGCTCTGGG
AGGGATGTTCTAGCCCTCCCTGGCATGTGAGAGCCAGGCTCTGCCTGGAGGATCCCTCCATCCGGCTCCTGTCTAT
CCCCACACTTTGGCCAAGCAAGAGGTGGTAGAACCCTTGGCTGCTCATTCTTCTTCTGGAGGACACACAGTCTCA
GTCCAGATGCCTTCTGTCTTTCTGGCCCTTTCTGGACCAGATCCTACTCTTCTTCTTAAATCTGAGATCTCCC
TCCAGGGAATCCGCCGTGAGAGGACAGAGCTGGCTGTCTTCCCCACCCCTAACCTGGCTTATTCCCAACTGCTC
TGCCCACTGTGAAACCCTAGGTTCTAGGTCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT
CCCTTTCCCATGATCCAGAACTGAGGTCACTGGGTTCTAGAACCCCCACATTTACCTCGAGGCTCTTCCATCCCC
AAACTGTGCCCTGCCTTCAGCTTTGGTGAAAGGGAGGGCCCCCTCATGTGTGCTGTGCTGTGTCTGCACCGCTTGG
TTTGAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA
TATTTAAG

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FIGURE 5561

MPLNRTLMSSSLPGLEDWEDEFDLENVLF EVAWEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTEQGVRT
QVELLEAPTPALKRTLDSMNSKGCKVYFGRWLI EGGPLVVLDDVGASAWALERWKGE LWDTCNIGVPWYDREAND
AVLFGFLT TWFLG EFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNLE
NFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAE AQHLLKRKPDIVTPNGLNVKKFSAMHEFQNLHAQS
KARIQEFVRGHFYGHLD FNLDKTL YFFIAGRYEFSNKGADV FLEALARLNYLLRVNGSEQTVVAFFIMPARTNNF
NVETLKGQAVRKQLWDTANTVKEKFGRKLYESLLVGS L PDMNKMLDKEDFTMMKRAIFATQRQSFPPVCTHNMLD
DSSDPILTTIRRI GLFNSSADRVKVI FHPEFLSSTSPLL PVDYEEFVRGCHLG VFPSYYEPWGYTPAECTVMGIP
SISTNL SGFGCFMEEHIADPSAYGIYILDRRFRSLDDSCS QLT SFLYSFCQQSRRQRI IQNRNTERLSDLLDWKY
LGRYYMSARHMALSKAFPEHFTYEPNEADAGPGVPLPTASLGATVALAVTTLQPAPE

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FIGURE 5562

GTCCCGCGGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGGACTCTCTTCCAGCCTCCGACC
GCCCTCCGATTTCCTCTCCGCTTGCAACCTCCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAG
CACCGTTTTTGTGGTTAGCTCCTTCTTGCCAACCAACCATGAGCTCCCAGATTGCTCAGAATTATTCCACCGACG
TGGAGGCAGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGCGCTTCTATT
TCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCT
ACGAGCGTCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAG
ATGAGTGGGGTAAAACCCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAGCTGAACCAGGCCCTTTTGG
ATCTTCATGCCCTGGGTTCTGCCCCGACGGACCCCCATCTCTGTGACTTCCTGGAGACTCACTTCCTAGATGAGG
AAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCGGAGGCTGGGCTGG
GCGAGTATCTTTCGAAAGGCTCACTCTCAAGCACGACTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCC
CTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTAACCTATCCTAACAAG
CCTTGGACCAAATGGAAATAAAGCTTTTTGATGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5563

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEKREGYERLLKMQNQRGG
RALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKMGDHLT
NLHRLGGPEAGLGEYLFERLTLKHD

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FIGURE 5564

GCTGCGGCCGCCCCGCGCGGACCCGGCGAGAGGCGGCGGCGGGAGCGGCGGTG**ATCG**ACGGGTCCGGGGAGCAGCC
CAGAGGCGGGGGGCCCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTTTTGCTTCAGGGTTTCATCCAGGA
TCGAGCAGGGCGAATGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCCCTCAGGATGCGTCCACCAAGAA
GCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACTGGACAGTAACATGGAGCTGCAGAGGATGATTGCCGCCGT
GGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTTTCTGACGGCAACTTCAACTGGGG
CCGGGTGTGCGCCCTTTTCTACTTTGCCAGCAAACCTGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAAGTAT
CAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGGTTG
GGTGAGACTCCTCAAGCCTCCTCACCCCCACCACCGCGCCCTCACCACCGCCCCCTGCCCCACCGTCCCTGCCCC
CGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTACAGTGGTGCCCTCTCCCCATCTTCAGATCATCAGA
TGTGGTCTATAATGCGTTTTCTTACGTGTC**TGAT**CAATCCCCGATTATCTACCTGCTGACCTCCAGTGACC
CCTGACCTCACTGTGACCTTGACTTGATTAGTGCCTTCTGCCCTCCCTGGAGCCTCCACTGCCTCTGGAATTGCT
CAAGTTCATTGATGACCCTCTGACCCTAGCTCTTTCCTTTTTTTTTTTTT

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FIGURE 5565

MDGSGEQPRGGGPTSSEQIMKTGALLLQGF IQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDELDNME
LQRMIAAVD TDSPREVF FRVAADMFS DGNFNWGRVVALFYFASKLVLKALCTKVPELIRTIMGWTLDFLRERLLG
WIQDQGGWVRL LKPPHPHHRALT TAPAPPSLPPATPLGPWAFWSRSQWCPLPIFRSSDVVYNAFSLRV

FIGURE 5566

[illegible]

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FIGURE 5567

MPPSGPRGTTTTLLPLLLLLLLLRAVLAVPLERGA
PNKEETPATESPDTGLYYHRYLQEVIDVLETDG
HFKREKLQAA
NAEDIKSGKLSRELDVSHHVRTKLDELKRQEV
SRLRMLLKAKMDAEQDPNVQVDHLNLLKQFEH
LDPQNHQHTFE
ARDLELLIQTATRDLAQYDAAHHEEFKRYEML
KEHERRRYLES LGEEQRKEAERKLEEQQRRH
REHPKVNVPGSQ
AQLKEVWEELDGLDPNRFNPKTFFILHDINSD
GVLDEQELEALFTKELEKVYDPKNEEDDMRE
MEEERLRMRHV
MKNVDTNQDRLVTLEEF LASTQRKEFGDTGEG
WETVEMHPAYTEELRRFEEELAAREAE LNAKA
QRLSQETEAL
GRSQGRLEAQKRELQQAVLHMEQRKQQQQQQQ
GHKAPAAHPEGQLKFHPDTDDVPVPAPAGDQ
KEVDTSEKKLLE
RLPEVEVPQHL

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FIGURE 5568

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCCCTGGTGTTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG
CTGTTTGAGGGCATGAAGGCGTTCAAAGGCCAAAGACCAGCAGGTGCGCCTCTTCCGCCCCCTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGG
CTCATCGAAGTGGACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG
AACGAGCCCTCGCTGGGTGTCTAGCCAGCCCAGGCGCGCGCTCCTGTTTCGTATTCTCTGCCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCCCTCTGGCTGTATGGGCCCCGACCACCAGCTCACCGAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGGTGCTGGAGCTGGTGACGCCCCCGCTGAATGGTGTTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGGTGAGTTCCGGGTGGTGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCTTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCCTTGCCAGGTCTGCCCAGTGCACCGAATC
CTGTACAAAGACAGGAACCTCCATATTCCCACCATGGAAAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGATGTTCCCGGTGTGAAGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA
TAAAAGGCCAGCGGGCGGCGTCTGGGTCTCTGGCGCCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAAGGGCCG
ACCCAGGCATCTTGGCCCCCAGCCCCTCGTCGCGGGTTTCAGGTCCGCCCATTACTCCTTGTCGTGCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTTTCTC
TGTCTTTGCTGCAATTTTGAAATAAAATGCCAAAGAACACAAAAA

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FIGURE 5569

MAAAALGQIWARKLLSVPWLLCGPRRYASSSFKAADLQLEMTQKPHKKPGPGPEPLVFGKTFTDHMLMVEWNDKGW
GQPRIQPFQNLTLHPASSSLHYSLQLFEGMKAFKQKDDQVRLFRPWLNMDRMLRSAMRLCLPSFDKLELLECIRR
LIEVDKDWVPDAAGTSLYVRPVLIGNEPSLGVSQPRRALLFVILCPVGAYFPGGSVTPVSLADPAFIRAWVGGV
GNYKLGGNYGPTVLVQQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVTPPLNGVILPGVVRQS
LLDMAQTWGEFRVVERTITMKQLLRALEEGRVREVFSGGTACQVCPVHRILYKDRNLHIPTMENGPELILRFQKE
LKEIQYGIRAHWMPV

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FIGURE 5570

TCTGCTCTGAGCCCCGCCCAGCCCAGAAACCCCACTAGCCTGGGGCCTGAGAACAGCCACGCCACTCCCTCCTG
AGAGCCCACCGCGCCACAGCTTGAGGAAGAGCCTGCGGGGAAGTGGCTGCAGGACGCTCTCTTCTTGAGTGCAG
GTGCTGGCTCTGCTGTGACCATGCCCGTGACCTTTGCCCTCCTGCTCCTCCTGGGCCAGGCCACTGCGGACCCAT
GCTACGATCCACAGGGCCGCCCCAATTCTGCCTCCCGCCAGTGACACAGCTGGCTGCCGTGGCGGCCCTCCTGCC
CTCAGGCCTGTGCCCTGTCCCCAGGAAACCACCTTGGCGCCAGGGAAACCTGCAATGGCAGCCTGACTTTGGCCC
TGGGTGGCCCCCTTCCTCCTGACATCTGTGAGCTTGGCGCTTCTGTACCCCAGGACCCCCAGCCCTCATCCTGTCTG
CTGCCTGGGCCTCAGGGGGTCCCTGGAGGCTGCTGTGGCACAGGCCCGCCTGGCCTGGGGCCTTAGGGGGCCCTG
AAAGGGTGACCTTCCACTCCACACCAGGTCTTAAGGCCACTGTGGCGGCCAGCCACCTCCGTGTGGAGTTTGGGG
GCCAGGCCGGGCTAGCGGCAGCTGGGCTGAGAGGCCGCTGCCAGTGTATGGCCACGCTGCCCCGCTGTGCCGCC
GTGCCCGGGCCCCCGCTGCCACTGCCGCCACCATAACCACTGGCCCGGGGTGCGAGAGCTGCCGCCCGTCCCATC
GAGACTGGCCCTGGCGGCCTGCCACGCCCCGGCACCCCCACCCTTGCTTACCCTGCTCCTGCAACCAGCACGCC
GACGCTGCCGGTTCAACTCTGAGCTGTTTCACTGTGCGGGCGGCCGAGTGGGGGTGTTTGTGAGCGGTGCCGCC
ACCACACAGCTGGGCGGCAGTGCCTACTTGCCAACCTGGGTCTTGAGGGACCCTAGCCAGCCTATCTTCAGCC
GCAGGGCCTGCAGAGCCTGCCAGTGCCACCCTATTGGGGCAACAGGAGGAACCTGCAACCAGACCAGTGGGCAGT
GCACCTGCAAGTTAGGGGTACAGGCCTGACCTGCAACCGCTGTGGCCCTGGCTACCAGCAGAGCCGCTCCCCCA
GGATGCCCTGCCAGCGAATTCCAGAGGCAACAACCACCCTTGCCACTACTCCTGGTGCTTATAGCTCTGACCCTC
AGTGTCAAAACCTACTGCAATATGTCGGACACCAGGGTACACATGAGCCTTCGGAGGTACTGCCAGCAGGACCATG
TTCTCCGCGCGCAGGTGCTAGCGTCCGAGGCGGGCGGGCCCGCATGGCAGCGGCTGGCCGTGCGCGTGCTGGCCG
TTTACAAGCAGCGGGCGCAGCCCGTGCGACGCGGCGACCAGGACGCCCTGGGTGCCCCGCGCCGACCTGACCTGCG
GCTGCCTGCGCCTGCAGCCAGGCACCGACTACCTGCTGCTGGGCAGCGCCGTGGGCGACCCCGACCCACGCGCC
TCATCCTCGACCGCCACGGCCTCGCGCTGCCATGGAGGCCGCGCTGGGCCCGGCCCTGAAGCGGCTGCAGCAGG
AGGAGCGCGCCGGAGGCTGCCGCGGCGTGCGGGACCCACACCCAGTCCCAGGCCGGAGCACTAGACGTGAGATG
GGGCTGCCTCGAGCACCAACAAAGTAATTTGGGAGCGACTAGGAGCTGAGCCTTCTACCTCGACGGTGCAGTGA
GAGAGCCAATCAGACGTGCGAGAGCCCCGACGACACTATGCTTGCGCCACGCCGAGCAGGCGTGCGGAACCTTTT
AGCAAAAGGCGGCAAGCGGGACTTCTGGTCCCAACATTTCTCCTTTGGCCTGTGGCTTATTCCCCGCCAGTGAT
CTGTTTCCCCCAATAAAGTCTCAAATCTTTGGG

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FIGURE 5571

CTTTCGGACCTGGCCGAGCAGGAGGCGCCATCATGGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGGCCGCCTCTGTCCCTTTCC
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAACAAGACGGCCGTGGTTGTGGGGACCATAACTGATGAT
GTGCGGGTTCAGGAGGTACCCAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGGCCCGCAGCCGCATCCTC
AGGGCAGGGGGCAAGATCCTCACTTTTCGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCCTGCTC
TCCGGTCCTCGCAAGGGCCGAGAGGTGTACCGGCATTTTCGGCAAGGCCCCAGGAACCCCGCACAGCCACACCAAA
CCCTACGTCCGCTCCAAGGGCCGGAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAAACTAA
CCCTGGATCCTACTCTCTTATTAAAAAGATTTTGTGCTGACAAAAAAA

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FIGURE 5572

MGVDIRHNKDRKVRRKEPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPPPLSLSRMIRKMKLPGR
ENKTAVVVGTTITDDVRVQEVPKLKVCALRVTSRARSRI LRAGGKILTFDQLALDSPKGCGTVLLSGPRKGREYR
HFGKAPGTPHSHTKPYVR SKGRKFERARGRRASRGYKN

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FIGURE 5573

CTGCAGGGCCAGGCCTGGCCACACTTGGGCTGCTTCTCCTATCCCTCGTACCAGCCAGCCCCAGGCCTTCTGGAA
CTCTCAGCTGCCTCATCCTGCCTGCTTTTCCCTTCAACACTGCTTGGAGCTGTGTTTTCCAGGGCCTGAGCAGGC
'ATCTCCTGGGGAGCATGCAGTTCACCGGCCTTTGCCAGCCCAGGCTGGGACCCTCCAGGTGGTGGGGCAGGTGCT
TCCATAGCCCCCTCCTGGCTCCTTGGCTTCCCACTCCCTCCTCTCCCCACAGACCCTACGTCCGCTCCAAGGGCCG
GAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAACCCTGGATCCTACTCTCTTATTA
AAAAGATTTTTGCTGAC

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FIGURE 5574

GGCACGAGGGTTCTGAAG**ATG**GCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCG
AGTCCGGCGACACAAGTTCCGAGGGCCCGGCCAGGTCTACCTGCCCGCGGGGGCCCGCTACGCGAAGGGG
AGGAGCTGGTCATGGACGAGGAGGCCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTG
ACATAGTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCCTCTTACACTTTACTTGTGTGCTGGGACCCAGG
CTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCACCCTCAG
AGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCA
TGGTGCCCCACTATGGTGGCATCAACCGAGTTTCGGGTGTCTATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGT
CAGAGAAGGGCCAGGTGGAGGTGTTTGCGCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAG
CCTTCCTCCGGGATGAGCAGGCCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCCC
TTGACTGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAGAACATCCACCTCTGGACACCTA
CGGACGGCGGCTCCTGGCACGTGGACAGCGGCCATTTCGTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGT
CACCGACTGAGAACACGGTGTTCCTCCTGCTCAGCTGACGCCTCCATCCGCATCTGGGACATCCGGGCAGCCC
CCAGCAAGGCCTGCATGCTCACACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGG
AGCCCTTCCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCC
CAGTGGCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTGAGTGGCACCCCCAGGACAGCGGGGTCTTTG
CAGCCTCGGGTGCAGACCACCAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCTGAGGCGGGCGACGTGG
AGGCCGACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTTCGTGCACCAGGGCGAGACCGAGCTGAAGGAGC
TGCACTGGCACCCGCGAGTGCCAGGGCTCCTGGTCAGCACGGCGCTGTGAGGCTTCACCATCTTCCGCACCATCA
GCGT**CTGA**GGCGTCCCACTGGCTCTGATCTTGCTTCCTGCTTGGAAGTGAAGTGAATTGGGCTCCCCTGGAAG
GGGTTTCATTTCAGGTCTGTTGACTGAGACTGGCCGGCCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTT
CTCTAGAAGGCCTGGCTCTGATCCAGTGACCCCTCTCACCAAAGAACTCGGTTTAAACCAGGGCTCTGTAAGACCA
CTCCCACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCTTTCCTGTGAGCTGTGACCCATTTGA
CCTGTGTCCCCAGAACCAGTTTTTTGTTTGTGTTTGTTGAGACGGAGTCTTGGTCTGTGCGCCAGGCTGGAGTGC
AGTAGCACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTAAAGTGATTCTCTCAGCTCAGTCTCCCAGGTA
GCTGGGATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTTAGTAGAGACGGGGTTTTACCATGTT
GGCCAGGCTGGTCTCAAATTCTTGATCTCAAGTGATCTGTCCGCCCCGGCCTCCAGAGTGCTGGGTTGGGATTA
CAGGCGTGAGCCACCGCGTCCGGCTCAGGACCCAGTTTTTGGCTGCTGGTTCCAGCAGGGGACTCGGGGGATATA
CAGTGGCTGCACCAAATTGGAGGTGTGGGTTCCTCCAACACAATTTGCTTCTGCCCCTGCTCTTCTGCCAGCTG
GGTTTGGCCAGGATTTCTCCGTGTGGGGGCTACATGCGACCTCTCCCCTCCTCCCTGACTTTAGAGGCTGGTGC
TGTGTGCGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTAACAAAAAAA
AAAAAAAAAAAA

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FIGURE 5575

MAARKGRRRTCETGEPMEAESGDTSSSEGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFDIVRDH
LGDNRTELPLTLYLCAGTQAESAQSNRLMMLRMHNLHGTPPPSEGSDEEEEEDEEDEEERKPQLELAMVPHYG
GINRVRVSWLGEEPVAGVWSEKQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEGFALDWSPR
VTGRLLTGDCQKNIHLWTPTDGGSWHVDQRPFVGHTRSVEDLQWSPTEENTVFASCSADASIRIWDIRAAPSKACM
LTTATAHDGDVNVISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVTSVEWHPQDSGVFAASGAD
HQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKELHWPQCPGLLVSTALSGFTIFRTISV

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FIGURE 5576

CTAAAGGTCCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTTCAGA
CCAGCAGCCTCGGGGGGCACCCCCCGCCAGCCTGCCTCCCCTCCCGCTCAGCCCTGCCAGGGTTCCCCAGCCATGA
ATCTCTTCCGATTCTTGGGAGACCTCTCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAAATCTGGAAGTCCC
GCTCGTGCGCCGGAATTTTCAGGGAAGAGCCAGGTCCCTGTTTGCTGTGGTGTTCACTGCCCCGATATCTGGACCTCT
TCACCAACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTCACCACGGTCTGGT
TGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTTCAGAGTGGAGTTCCCTGGTCGTTCCCA
CAGCCATTCTGGCGTTCCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGG
AGTCAGTGGCCATCTTGCCGCAGCTGTTTCATGGTGAGCAAGACCGGCGAGGCGGAGACCATCACCAGCCACTACT
TGTTTGCGCTAGGCGTTTACCGCACGCTCTATCTCTTCAACTGGATCTGGCGCTACCATTTCGAGGGCTTCTTCG
ACCTCATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCCCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAG
TCCTAAAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAG
GCAGAGGAAGGCGGCAGAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCCACCTCTTGTGCTC
CCCATCCCGCCTCCTGCCGGGTTTCAGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGT
TTGTAGTTTTTTGCCTTTTAGACAAGAAAAAAAATCTTTCCACTCTTTAGTTTTTTGATTCTGATGACTCGTTTT
TTCTTCTACTCTGTGGCCCCAAATTTTATAAAGTGA

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FIGURE 5577

MNLF RFLGDL SHLLAI ILLLLLKIWKSRSCAGISGKSQVLFAVVFTARYLDLFTNYISLYNTCMKV VYIACSF TTV
WLIYSKF KATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEILWTF SIYLESVAILPQLFMVSKTGEAETITSH
YLFALGVYRTLYLFNWIWRYHFEGFFDLIAIVAGLVQTVLYCDFFYLYITKVLKGKKLSLPA

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FIGURE 5578

AAGAAGTGGCGAAGTTACTTTTGAGGGTATTTGAGTAGCGGCGGTGTGTCAGGGGCTAAAGAGGAGGACGAAGAA
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGCCGTCCACGAGACCCCCGCGCGCA
GCCATGAGCCCCGCCCCCGCTGTTGCTTGGAGAGGGGCGGGACCTGGAGAGAGGGCTGCTCCGTGACCCCCACCAT
GTCTCTCCTACCACGAGTTCCCTGGATACCCCCCTGCCTGGAATGGCCCCCTCAGCCTGGCGCCCCCTTCTTC
TTCACCCACTGTAAAGGAGGAGGGTCCGGAGCCGTGGCCCGGGGGTCCGGACCCTGATGTCCAGGCACTGATGA
GGCCAGCTCAGCCTGCAGCACAGACTGGGTCAATCCAGATCCCGAAGAGGAACCAGAGCGCAAGCGAAAGAAGGG
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCTCCGGCTTCCACTACAACGT
GCTCAGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG
GGGTGGCGGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA
GGCAGGGATGAGGGAGCAGTGCCTCTTCTGAAGAACAGATCCGGAAGAAGAAGATTTCGAAACAGCAGCAGGA
GTCACAGTCACAGTCGAGTCACCTGTGGGGCCGAGGGCAGCAGCAGCTCAGCCTCTGGGCCTGGGGCTTCCCC
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAACTAAT
GATCCAGCAGTTGGTGGCGGCCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCCAAAGTCACGCCCTG
GCCCCCTGGGCGCAGACCCCCAGTCCCGAGATGCCCCGCCAGCAACGCTTTGCCCACTTACGGAGCTGGCCATCAT
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCCTGGTTTCTCAGCTGGGCGGGAGGACCAGATCGC
CCTCCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
CACCTTCTTGAAGGACTTCACCTACAGCAAGGACGACTTCCACCGTGCAGGCCTGCAGGTGGAGTTCATCAACCC
CATCTTCGAGTTCTCGCGGGCCATGCGGCGGCTGGGCCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA
CATCTTCTCGGCCGACCGGCCCAACGTGCAGGAGCCGGGCGCGTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
GCTGCTGTCTTACACGCGCATCAAGAGGCCGAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGAG
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCCCTTGC GGCTCCAGGACAAGAAGCTGCCGCCCTCT
GCTGTGCGGAGATCTGGGACGTCCACGAGTGAGGGGCTGGCCACCCAGCCCCACAGCCTTGCTGACCACCCCTCCA
GCAGATAGACGCCGGCACCCCTTCTCTTCTAGGGTGGAAAGGGGCCCTGGGCCGAGCCTGTAGACCTATCGGCT
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG
AAAGGGTTGCAGGTCCCGACCACTGACCCTTCCCGGCTGCCCTCCCTCCCCAGCTTACACCTCAAGCCCAGCACG
CAGTGACCTTGAACAGAGGGAGGGGAGGACCCATGGCTCTCCCCCTAGCCCGGGAGACCAGGGCCTTCTCTT
CCTCTGCTTTTATTTAATAAAAACTAAAAACAGAAA

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FIGURE 5579

MSSPTTSSLDTPLPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWVIPDPEEEPERKRKK
GPAPKMLGHELRCVCGDKASGFHYNVLSCEGCKGFFRRSVVRGGARRYACRGGGTCQMDAFMRRKCQQCRLRKCK
EAGMREQCVLSEEQIRKKKIRKQQQESQSQSQSPVGPQGSSSSASGPGASPGGSEAGSQSGEGEGVQLTAAQEL
MIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEIVDFAKQVPGFQLGREDQI
ALLKASTIEIMLLETARRYNHETECITFLKDFITYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAI
NIFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPP
LLSEIWDVHE

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FIGURE 5580

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAAACGCTGTTTGAAGCGGG**ATGG**ATGGCAAGCGGCGGCCAG
GCCCAGGGCCCGGGGTGCCCCAAAGCGGGCCCGTGGGGGCCCTCTGGGATGATGATGATGCACCTTGGCCATCCC
AATTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGAGC
TGCAGTCAGTCCTGGAGGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCA
CACCACCAGCGCTGGACCCCCAGACAGAGCCCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGCCCAG
CGCAGCCTGTGCTTGGGGGGCCCCCACCATCCCGCGGCTCCGTGCTGTGCTCCGCGCCTTCGGGGTCACCGATG
AGGGGTTCCTGTCTGCTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCAGCGCCCCCTGGTTTCGGGC
CCGAGCACATGGGTGA~~CT~~GCAACGGGAGCTGAACTTGGCCATCAGCCGGGACAGTCGCGGGGGGAGGGAGCTGA
CTGGGCCGGCCGTGCTGGCTGTGGAAGTGTGCTCCCGAGAGAGCATGTTTGGGTACACGGGCACGGCCCCCTCCC
CGTTCCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGGCCCCGGCCCGCCGTCTCCTGGAACAGGGCATCCGTG
TGGCAGGCCTGGGCACGCCCAGCTTCGCGCCCTACGAGGCCAACGTCGACTTTGAGATCCGGTTCATGGTGGACA
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG
CGCCCTTGCGCGTGTCTAGCTTCGATATCGAGTGCGCCGGCCGCAAAGGCATCTTCCTGAGCCTGAGCGGGACC
CTGTTCATCCAGATCTGCTCGCTGGGCCTGCGCTGGGGGGAGCCGGAGCCCTTCCTACGCTGGCGCTCACCTTGC
GGCCCTGTGCCCCCATCCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGCTGCAGGCCTGGTCCA
CCTTCATCCGTATCATGGACCCCGACGTGATCACCGGTTACAACATCCAGAACTTCGACCTTCCTGACCTCATCT
CTCGGGCCAGACCCTCAAGGTACAAACATTCCCTTTCTGGGCCGTGTGGCCGGCCTTTGCTCCAACATCCGGG
ACTCTTCATTCCAGTCCAAGCAGACGGGCCGGCGGGACACCAAGGTTGTGAGCATGGTGGGCCGCGTGCAGATGG
ACATGCTGCAGGTGCTGCTGCGGGAGTACAAGCTCCGCTCCACACGCTCAATGCCGTGAGCTTCCACTTCCTGG
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATCACCGACCTGCAGAAATGGGAACGACCAGACCCGCCGCCGCC
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGGCTGCTGGAGCGGCTCATGGTGTGGTGAACGCCG
TGGAGATGGCGAGGGTCACTGGCGTGCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAAGTCGTATCCC
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGCTGATGCCCGTGGTGAAGTCAGAGGGCGGCGAGGACTACACGG
GAGCCACTGTCTAGAGCCCTCAAAGGGTACTACGACGTCCCCATCGCCACCCTGGACTTCTCCTCGCTGTACC
CGTCCATCATGATGGCCCAACCTGTGTTACACCACGCTCCTTCGGCCCCGGGACTGCACAGAACTGGGCCTGA
CTGAGGATCAGTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTGCAGGAAGGGGCTGCTGCCCC
AGATCCTGGAGAACCTGCTCAGTGCCCGGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCTCCGGC
GCCAGGTCTGGATGGACGGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCGTATACGGCTTCACTGGCGCCCAGG
TGGGCAAGTTGCCGTGCTGAGATCTCACAGAGCGTCACGGGGTTTCGACGTGATGATGAGAAAACCAAGC
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAGTGCCAAGGTGGTGTATGGTGACACTGACT
CCGTCTATGTGCCGATTGCGCGTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCGCGGACTGGGTGT
CAGGTCACTTCCCGTCGCCCATCCGGCTGGAGTTTGAGAAGGTCTACTTCCCATACCTGCTTATCAGCAAGAAGC
GCTACGCGGGCCTGCTCTTCTCCTCCCGGCCCGACGCCACGACCGCATGGACTGCAAGGGCCTGGAGGCCGTGC
GCAGGGACAACCTGCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG
AGGGCGCGGTGGCTCACGCACAGGACGTATCTCGGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA
TCACCAAGGAGCTGACCCGCGCGGCCCTCCGACTATGCCGGCAAGCAGGCCACGTTGGAGCTGGCCGAGAGGATGA
GGAAGCGGGACCCCGGGAGTGCGCCCAGCCTGGGCGACCGCGTCCCTACGTGATCATCAGTGCCGCCAAGGGTG
TGGCCGCTACATGAAGTCGGAGGACCCGCTGTTCTGTGCTGGAGCACAGCCTGCCCATTGACACGCAGTACTACC
TGGAGCAGCAGCTGGCCAAGCCCCCTCCTGCGCATCTTCGAGCCCATCCTGGGCGAGGGCCGTGCCGAGGCTGTGC
TACTGCGGGGGGACCACACGCGCTGCAAGACGGTGTCTACGGGCAAGGTGGGCGGCCCTCCTGGCCTTCGCCAAAC
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGTCTAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTATCTGCACCAGCCGGGACTGCCCATCTTCTACATGCGCA
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCCTGCGGCGCTTCGGACCCCCCTGGACCTGAGGCCTGGT
GACCTTGAAGCATCCCATGGGGCGGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTGTCT

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FIGURE 5581

MDGKRRPGPGPGVPPKRARGGLWDDDDAPWPSQFEEDLALMEEMEAHRLQEQEEEEELQSVLEGVADGQVPPSAI
DPRWL RPTPPALDPQTEPLIFQQLEIDHYVGPAQPVPGGPPPSRGSVPVLRAFGVTDEGFSVCCHI HGFAPYFYT
PAPPFGPEHMGDLQRELNLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGSPFLRITVALPRLVAPARR
LLEQGIRVAGLGTPSFAPYEANVD FEIRFMVD TDIVGCNWLELPAGKYALRLKEKATQCQLEADV LWSDVVSHPP
EGPWQRIAPLRVLSFDIECAGRKGIFPEPERDPVIQICSLGLRWGEPEPFRLALTLRPCAPILGAKVQSYEKEE
DLLQAWSTFIRIMDPDVITGYNIQNFDPYLI SRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRRDTKVVS
MVGRVQMDMLQVLLREYKLRSH TLNAV SFHFLGEQKEDVQHSIITDLQNGNDQTRRLAVYCLKDAYLP LRLLER
LMVLVNAVEMARVTGVPLSYLLSRGQQVKVVSQLLRQAMHEGLLMPVVKSEGGEDYTGATVIEPLKGYDVP IAT
LDFSSLYPSIMMAHNLCYTLLRPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAK AELA
KETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCL EISQSVTGFRQMI EKTQLVESKYTVENGYSTSAK
VVGDTDSVMCRFGVSSVAEAMALGREAADWVSGHFP SPIRLEFEKVYFPYLLISK KRYAGLLFSSRPDAH RMD
CKGLEAVRRDNCPLVANLV TASLRRLIDRDPEGAVAHAQDVISDLLCNRIDISQLVITKELTRAASDYAGKQAH
VELAERMKRDPGSAPSLGDRVPYV IISAAGVAAYMKSEDPLFVLEHSLPIDTQYYLEQQ LAKPLLRI FEPILG
EGRAEAVLLRGDHTRCKTVLTGKVGGLLAFAKRRNCCIGCRTVL SHQGAVCEFCQPRESELYQKEVSHLN ALEER
FSRLWTQCQRCQGS LHEDVICTSRDCPIFYMRKKVRKDLEDQEQLLRRFGPPGPEAW

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FIGURE 5582

GCCTCCTTCCGTCTGTAACTCACCTAAAGACCCAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT
AAAGAGCACTCACCCCTCGCGCACCAGTCCCGGCCCGGCAGCCGCTGCCCCGGGCTCGACTGGGCGCTGCTACCG
CCATCAGCAAGAGCAGGAGCAGCCGGGTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCACGCCGGGAGGAACAGGCCGCATCCTGACGCCCCGTGCGCCTGCGC
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTCAGCAGGATGGGGGCCGCCCTTTG
GCCTGATCTCCAGGAGCCGCCCCCTCCAGGGACGTCATCACAAATCAGGAGCCCCGCTCTTGTGTGACGTCATAAA
GCCCCGCTCCGCATCATGACGTACAGTGCGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA
ACCAGGTGGGATGGCAGCCTCTCCACGGGCCGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCGAATTGCA
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCCGACCTC
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT
GTTCCCTTGAAGTTCGTCCAGCTCTTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG
CCGCACCTTCTACTTGCAGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTCGGCCAGTGGGTGCGGCTGCT
CTACCGCCTGCGCTTCCTCTCTGCTTCTGCTGTGCCCTTACGCAGGAGTTAAGAGCCCCAAGGCGTGGAAGCCAG
ACTTGACCCCAAGACCTCTGAACTCTGGGGACTCTGAGTCTTCCAGCATCCTTCAAGGTCACCGAATGACCAGAG
ATCAAAGTACCTTGCCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAAGAACCAA

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FIGURE 5583

MGPFLLWPDLEPPPPGTSSQIRSPLLCDVIKPAPHHDVTVRVVPPPRFLPLLLRPLPSDGD IAMRRDRGPKPALG
GAGEVEFGGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQFCPDIYPAPTS DLWPQVTRLGEVANEVTMG
VAASSPALELPDLLLLLAGPAKENHGLQLFGLFPLKFVQLFVHDKSRCQLEVKLNTSRTFY LQLRAPLKTRDREFG
QWVRLLYRLRFLSASAVPFTQE

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FIGURE 5584

GCCGTCCCTTCGCTGGTGGGAAGAAGCCGAGATGGCGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCGGGGCAGCGGCTGCCGGGCCGGGACTGGTGCGCGAGGGGCTGG
GGCGGAAGGTCGAGAGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTTGAGATCGATGACAG
TGCCAACTTCCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCTGTACACAGCGGCAGCT
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCG
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGGAGTC
GCACCTGTGCGGACCAGCTGACCCTGCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTCGGTGGTGACGCACCC
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGCTGCAGCCGCC
CACCACAGCCCCAGCCCTGAGACGGCGGCCTTCATTGAGCGCCTGGAGATGGAACAGGCCCAGAAGGCCAAGAAC
CCCCAGGAGCAGAAGTCCTTCTTCGCCAAATACTGGATGTACATCATTCCCGTCGTCTCTGTTCTCATGATGTCA
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGTGGGGTGGTGGTGGGGTAGTGGCCGGTGAGGGCCC
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCCTCCCTTTCTGCTGGAGTCCCTGTGTCTCAGCCATCC
CAAGAAGGGTTTGCTGGTCCCTCCTTTCCCCCGTCCCACGAGGCCACCTGGGCCAGCCCCTTGTCTCTGCCTT
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGTCTCCTGCGCCCGCCTCCCCCATGG
CCCCATGCAGCCCCAGGGGCTTCCCCCTGCCCATGGAGTAGAGCCGAGATCCTGGCCACTATGCCAGTTCTGA
CCTCGCATCCCCCTACCCCGAGCCCATGCAGTCTGGGAACATGCCGCCTTCTCTCCAGCCTCTGTGCCTTTGTTC
CAGGTGGTCTCACCTCCTGTCCCTGGCTGGGCTAGGTGGTCCGTGTCCAGGCTCCTGCAGCGCCCCCTCACTTT
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCCTTGAGGGTACCCTGGGTCCCCTCATCAGGGGCAGAGG
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCCGACGCCTAGTGCAGCCCCTGGGGTCGTGGTTTG
ACATTTGTCTGCCTGGTGCAAACAAGGAATCCTTGCCTTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA
AGGAAAAGGTTTAAAGAAAGAAAACAAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC
TCCACCACCCCCCGCCGCCAGCATCCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC
ACCCTCCCTGTAAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTTGAAAAGCTACAGCTTC
CAGCAGCCAAAAGCAACTGTTGTTTTGGCAAGACGGTCCCTGATGTACAAGCTTGATTGAAATTCAGTCTCACTT
GATACGTTATTTCAGAAACCCAAGGAATGGCTGTCCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTTGTGT
GGCAGTTTATTAAACTGTCCCCCAGATCGACACGC

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FIGURE 5585

MAAASAGATRLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSFEIDDSANFRKRGSL
WNQQDGTLSLSQRQLSEEERGRLRDVAALNGLYRVRIIPRRPGALDGLEAGGYVSSFVPACSLVESHLS
DQLTLHV
DVAGNVVGVSVVTHPGGCRGHEVEDVDLELFNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQK
SFFAK
YWMYIIPVVLFLMMSGAPDTGGQGWGWGWGWWG

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FIGURE 5586

ATGGGGGTGGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCCCACA
CCTGTCACCTCCACGGTTGCCTTGTCTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA
GTCTCTGAAGCTGCTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCACCCACAGCCCC
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCCCGC
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCCGTCAACACGCGG
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG
ATTCAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCCTGGTGGCTGTGGGGCAAGGGCCAGCGAAGGGG
TCCAGAAACGGGTTCTTGACCGCCCCCTGCCCCACCCAGAGACATGGATGGAGGGTGTGTTCTGTCAGTCCACG
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCCTGTGGCCACGCTGTTG
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAACACTGTGGGCTGGAGCCCCAGGTGCACGCTCCCC
GGGACCGGCAGCCCTGCTGAGTCACTTGACTTCACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT
CACCTCCAGGGCTGCCGGGGGAGTCAGCAGGAGCCTGGGGTGCCGCAGAGGCTCCGGGAGCTGCAGGCAGGAGCG
ATCAGTGATGACCGGGACCTCCTCCTCCTGTTACTATTATTGATGTTATTATTATTATTAATAGAAATAGCAACCGAG
TGCCTGCTTTATCAATCACCAGCATTTCCAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC
GCCAACGATAACGATAACAATGAGAATGACGACGTGCTGAGCACCCCTGAACACTGGGACCTCATCTCCTCTCCC
TCACCTCTGAAGTGCTTTTCATCATCCTCCTCGTGGTGATCCGGACGGACACGTTCAAGCACCTGCGGCACCTG
GAGATTCTGCAGCTGAGCAAGAACCTGGTGCACAAGATCGAGGTGGGCGCCTTCAACGGGCTGCCAGCCTCAAC
ACGCTGGAGCTTTTTTGACAACCGGCTGACCACGGTGCCACGCAGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG
CTCTGGCTGCGGAACAACCCCATCGAGAGCATCCCCTCCTACGCCTTCAACCGCGTGCCCTCGCTGCGGCGCCTG
GACCTGGGCGAGCTCAAGCGGCTGGAATACATCTCGGAGGCGGCCTTCGAGGGGCTGGTCAACCTGCGCTACCTC
AACCTGGGCATGTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCCTGGAGGAGCTGGAGCTGTG
GGCAACCGGCTGGACCTGATCCGCCCCGGGCTCCTTCCAGGGTCTCACCAGCCTGCGCAAGCTGTGGCTCATGCAC
GCCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTCGCTGGAGGAGCTCAACCTGTCCCACAAC
AACCTGATGTGCTGCCCCACGACCTCTTCACGCCCCTGACCGCCTCGAGCGCGTGACCTCAACCACAACCCC
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCAGCAACACGACGTGCTGC
GCCCCGTGTCATGCGCCCCGCGGCCTCAAGGGGCGCTACATTGGGGAGCTGGACCAGTCGCATTTACCTGCTAT
GCGCCCCGTATCGTGAGCCGCCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAATGCCGCACG
GGCACCTCCATGACCTCCGTCAACTGGCTGACGCCCCAACGGCACCCCTCATGACCCACGGCTCCTACCGCGTGCGC
ATCTCCGTCTGTCATGACGGCACGCTTAACCTTACCAACGTACCGTGCAGGACACGGGCCAGTACACTGGTGGT
GTTGGAGGGGGCAGTGGCGGCTACACCTACTTACCAACGTACCGTGCAGGACACGGGCCAGTACACTGGTGGT
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGCCCACGACAGACGGTGTCTGGGGTGGGGGCCGG
CCTGGGGACGCGGCCGGCCCTGCCTCGTCTTCTACCACGGCACCCGCCCCGCGCTCCTCGCGGCCACGGAGAAG
GCGTTCACGGTGCCCATCACGGATGTGACGGAGAAGCCCTCAAGGACCTGGACGACGTGATGAAGACCACAAA
ATCATCATCGGCTGCTTCGTGGCCATCACGTTTATGGCCGCGGTGATGCTCGTGGCCTTCTACAAGCTGCGCAAG
CAGCACCAGCTCCACAAGCACCACGGGCCCCACGCGCACCGTGGAGATCATCAACGTGGAGGACGAGCTGCCCCGC
GCCTCGGCCGTGTCGTGGCCGCCGCGGCCCGCGTGCCAGTGGGGGTGGTGTGGGCGGGGACAGCCACCTGGCC
CTGCCCCCCTGGAGCGAGACCACCTCAACCACCACCTACGTGGCTGCCGCCTTCAAGGCGCACTACAGCAGC
AACCCAGCGGCGGGGGCTGCGGGGGCAAAGGCCCGCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG
AGCGGCTCCAAGGAGAACGTGCAAGAGACGCAGATCTGA

MAAAGLEAGVGAVGSHRPGCVPRPQIQALRFGPALWLRGCGLDHRQGLKSPPASTRSMNIEDGACPLRPVPPAAA
RNQASRVICTRRDLAEVPASIPVNTRYLNLQENGIQGGRTWLLPSDHPESQIQGRKGTSGQSSPFLVAVGQGPAK
GSRNGFLHRPLPHPETWMEGVFVQSTRVDASGLSRAERRAASGCPPVATLLSRSSVQRHQGDLENTVGWSPRCTL
PGTGSPAESLDFTEPWSPVSEMTCAHLQGCRGSQQEPGVPQRLRELQAGAISDDRDLLLLLLLLLMLLLLLIEIAT
ECLLYQSPAFPREVISCVWAWYKFLNANDNDNNENDDLSTPEHWDLISSPSPSEVLFIILLVVIRTDTFKHLRH
LEILQLSKNLVRKIEVGAFNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRELWLRNNPIESIPSYAFNRVPSLRR
LDLGELKRLEYISEAAFEGLVNLRYLNLGMCNLKIDPNLTALVRLEELELSGNRLDLIRPGSGFQGLTSLRKLWLM
HAQVATIERNADFDDLKSLEELNLSHNNLMSLPHDLFTPLHRLERVLNHNPNWHCNCVDLWLSWWLKETVPSNTTC
CARCHAPAGLKGRIYIGELDQSHFTCYAPVIVEPPTDLNVTEGMAAELKCRGTGTSMTSVNWLTPNGTLMTHGSYRV
RISVLHDGTLNFTNVTVDQDTGQYTGCVGGGGGGYTYFTTTVTVETLETQPGEEALQPRGTEKEPPGPTTDGVWGGG
RPGDAAGPASSSTTAPAPRSSRPTKAFSTVITDVTENALKDLDDVMKTTKIIIGCFVAITFMAAVMLVAFYKLR
KQHQLHKHHGPTRTVEIINVEDELPAASAVSVAASGSGGGVGGDShLALPALERDHLNHHHYVAAAFKAHYS
SNPSSGGGCGGKPPGLNSIHEPLLFKSGSKENVQETQI

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FIGURE 5588

CACTCATTAAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTTCATCCCTCCAGACACTCTGCTGTTTCCTGCC
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCTGCAGGTGTA
CAGCCGGGGCCCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCCACCCGGCTGCTGATGGCCT
GGTGCCAGCTGGGAGTCCTCCCGGCACTTCGAGGCCACTGAGCCACCCTTCCAGCCCCAGCCCACCATGGACAGG
GGTATCCAGCTTCCTCCTCAACCTCGTCCTCTGCCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG
TCCTGTACCAGCACTAGCTGGTCAAGGGCATGACAGTGCTGGAGGCCGTCTTGAGATCCAGGCCATCACTGGCA
GCAGGCTGCTCTCCATGGTGCCAGGGCCCCGCCAGGCCACCAGGCTCATGCTGGGACCCAACCCAGTGACACAAGGA
CTTGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG
AGCCACCCCCGCTTCCTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT
GGCTCTCAAGGACAGACACCGCCTGGCCTGGTGCTCCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC
TGTTTTGAGCTGCATTTCAGGAAGTGCGGGACATGGTAGGGGAGGCCAAAAGCCTTGGGCACTACCCTCCCTGTGG
AGCTGTTTCGGTGTCCGTGAGCTAGCCACACCCCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC
CCCAACCTCCCCTGTGGGTGTCACTGGCCAGATGTGATGAGGGAAGCAGGCCTTGTGAGTGGACACTGACCATGA
GTCCCTGGGGGGAGTGATCCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGTA
CCATGGGTGCCACCCCTCCACCACATGGGGCCCCAAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCCTGA
CATAAAAGCATCTTGAAGCTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5589

MTVLEAVLEIQAITGSRLLSMVPGPARPPGSCWDPTQCTRTWLLSHTPRRRWISGLPRASCRLGEEPPPLPYCDQ
AYGEELSIRHRETWAWLSRTDTAWPGAPGVKQARILGELLV

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FIGURE 5590

AGCCCCAAGCTTACCACCTGCACCCGGAGAGCTGTGTGTCACCA**ATGT**GGGTCCCGGTGTCTTCCTCACCCCTGTC
CGTGACGTGGATTGGTGCTGCACCCCTCATCCTGTCTCGGATTGTGGGAGGCTGGGAGTGCGAGAAGCATTCCCA
ACCCTGGCAGGTGCTTGTGGCCTCTCGTGGCAGGGCAGTCTGCGGCGGTGTTCTGGTGACCCCCAGTGGGTCTT
CACAGCTGCCCCACTGCATCAGGAACAAAAGCGTGATCTTGCTGGGTGCGGCACAGCCTGTTTCATCCTGAAGACAC
AGGCCAGGTATTTTCAAGTCAGCCACAGCTTCCCACACCCGCTCTACGATATGAGCCTCCTGAAGAATCGATTCTT
CAGGCCAGGTGATGACTCCAGCCACGACCTCATGCTGCTCCGCCTGTCAGAGCCTGCCGAGCTCACGGATGCTGT
GAAGGTCATGGACCTGCCCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGGCAGCATTGA
ACCAGAGGAGTTCTTGACCCCAAAGAACTTCAGTGTGTGGACCTCCATGTTATTTCCAATGACGTGTGTGCGCA
AGTTCACCCCTCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAGCACCTGCTCGGG
TGATTCTGGGGGGCCCACTTGTCTGTAATGGTGTGCTTCAAGGTATCACGTCATGGGGCAGTGAACCATGTGCCCT
GCCCCGAAAGGCCTTCCCTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGTGGCCAACCC
CTGAGCACCCCTATCAACCCCTATTGTAGTAACTTGGAACCTTGGAATGACCAGGCCAAGACTCAAGCCTCC
CCAGTTCTACTGACCTTTGTCTTAGGTGTGAGGTCCAGGGTTGCTAGGAAAAGAAATCAGCAGACACAGGTGTA
GACCAGAGTGTCTTAAATGGTGTAAATTTTGTCTCTCTGTGCTCTGGGGAATACTGGCCATGCCTGGAGACAT
ATCACTCAATTTCTCTGAGGACACAGATAGGATGGGGTGTCTGTGTTATTTGTGGGGTACAGAGATGAAAGAGGG
GTGGGATCCACACTGAGAGAGTGGAGAGTGACATGTGCTGGACACTGTCCATGAAGCACTGAGCAGAAGCTGGAG
GCACAACGCACCAGACACTCACAGCAAGGATGGAGCTGAAAACATAACCCACTCTGTCCTGGAGGCACTGGGAAG
CCTAGAGAAGGCTGTGAGCCAAGGAGGGAGGGTCTTCCTTTGGCATGGGATGGGGATGAAGTAAGGAGAGGGACT
GGACCCCTGGAAGCTGATTCACTATGGGGGGAGGTGTATTGAAGTCCTCCAGACAACCCTCAGATTTGATGATT
TCCTAGTAGAACTCACAGAAATAAAGAGCTGTTATACTGTG

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FIGURE 5591

MWVPVVFELTSLVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCIRNKSVILL
GRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGT
TCYASGWGSIEPEEFLLTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

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FIGURE 5592

GGCGGACAAAACCCGATTGTTCCCTGGGCCCTTTCCCCATCGCGCCTGGGCCTGCTCCCCAGCCCCGGGGCAGGGGC
GGGGGCCAGTGTGGTGACACACGCTGTAGCTGTCTCCCGGCTGGCTGGCTCGCTCTCTCCTGGGGACACAGAGG
TCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTCCCTCCCCCGACTCAAGAATCCCCGGAGGCCCGGAG
GCCTGCAGCAGGAGCGGCCATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCA
GAATAAGTTGGTGATGGCGGACCCTGCGACAAGACATCTCACCCCTACCAAGCTGCCCTCTACACCTCGGGCCA
CTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGGTCCCTCACAGCTGCCCCTGCAAAAAACCGAATCTTCA
GGTCTTCCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCCAGGAGCAGAGTTCTGTTGTCCGGGCTGTGAT
CCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCACGCCCAGCCAAACTCTC
TGAACTCATCCAGCCCCCTTCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGGGCTGGGG
CAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGTCCCGTGAGGAGTGTGA
GCATGCCCTACCCTGGCCAGATCACCAGAACATGTTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCCCTGCCA
GGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTGTCATGGGGTAACATCCCCCTGTGG
ATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAAGTGGATCCAAAAAACCATTCAGGCCAA
GTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCCACTGGCTGGTTCCAGAACGTCTCTCACCTAGAC
CTTGCCCTCCCCTCCTCTCCTGCCCAGCTCTGACCCCTGATGCTTAATAAACGCAGCGACGTGAGGGTCCCTGATTCT
CCCTGGTTTTTACCCCAGCTCCATCCTTGATCACTGGGGAGGACGTGATGAGTGAGGACTTGGGTCCTCGGTCTT
ACCCCCACCACTAAGAGAATACAGGAAAATCCCTTCTAGGCATCTCCTCTCCCCAACCCCTTCCACACGTTTGATT
TCTTCCTGCAGAGGCCCAGCCACGTGTCTGGAATCCCAGCTCCGCTGCTTACTGTGGGTGTCCCCTTGGGATGTA
CCTTTCTTCACTGCAGATTTCTCACCTGTAAGATGAAGATAAGGATGATACAGTCTCCATAAGGCAGTGGCTGTT
GGAAAGATTTAAGGTTTCACACCTATGACATACATGGAATAGCACCTGGGCCACCATGCACTCAATAAAGAATGA
ATTTT

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FIGURE 5593

CACCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTCATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGTCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATTT
CTTGACTGGCCACAGGGCACATTCGCCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCCAGAGATGGCAATAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAA

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FIGURE 5594

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGIHVEVPPAEAERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWPQGTFA
SQVTLEGDKLKVEREIDGGLETLRLKLPAVVTADLRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 5595

GTCCCGCCACACCGCCCGTCCCGCTTAGCCACCTGGCCCCGCCCACTACCGCATCAGCCTTGCCCCACCCTTT
CAGGGTTCCCAAATCTGGCCAGTCTTTCTGCCCTTTCCTTGCGGTCTTCCCTTGTCATACCCGTTTCCTGGGG
ATCGCTACGGACCTTAAATACCAGCAACAGCCCCCTCGCCCCAAGACCATGTAGACAACCCCACTCAGGTCGTG
TTCTGCTTAAACCCCTTACTGACCTCTGCTTCGGCCCTGCGCCAAGTCGAGTCCTCACTCGGGAGGAGGAGGCA
CTGCAGACAGACAGTGGGGAGAAGGTGAAAGAGTTGGAGCCGACAGAGCTACGTGGTGCTGGGACTGAA
AGAGAGGGAGAGAGGGCAGTGGGTGACAAGCAGAGTAGAGGGAGAACCACAGCAGGGAGGAAGCCTAGGGAGTTG
GGGTGCTAGAGAGTGGGAACAAAGGAGGTGTAACAGATTTGACTTGTAAGAATTAATTATATTGACTGAGAGA
GAAGCCCAGAAGAGGAAGAAGAGGAAAGAAAAGGAGTCAGGGATGGCTCTTACACAGGGACCTTTGACATTCAGG
GATGTAGCCATAGAATTTCTCTCAGGAGGAGTGGAAATCCCTGGACCCTGTGCAGAAAGCTTTGTACTGGGATGTG
ATGTTGGAGAACTACAGGAACCTGGTCTTCTGGGTATCCTTCTAAATGTATGACCAAGGAATTACCACCAATA
GGGAACAGTAATACAGGAGAAAAATGCCAAACAGTGACGCTGGAAAGACATGAATGTTATGATGTTGAAAATTTT
TACTTAAGGGAAATCCAGAAAAATCTACAGGACCTTGAGTTTCAATGGAAAGATGGTGAAATAAATTATAAGAA
GTGCCAATGACCTATAAAAAACAATCTTAATGGTAAAAGAGGTCAACATAGTCAAGAGGATGTAGAAAACAAATGT
ATTGAAAATCAGCTTACATTAAGCTTTTCACTCAGTCTGACTGAACTGCAGAAATTTCAAACCTGAAGGGAAAATT
TATGAGTGTAACCAATCTGAGAAGACAGTTAATAACAGTTCCCTAGTTTACCACCTTCAAAGAATTCTTCTTAGT
GTCCAAACCAACATTTCTAAAAAATATGAGAATGAGTTTTTGCAGCTGTCATTACCCACCCAACCTTGAGAAAACA
CACATTAGGGAAAAACCTTATATGTGTAAAGGGTGTGGCAAAGCCTTTAGAGTGTCTTCAAGTCTTATTAACCAT
CAGATGGTACATACTACAGAGAAACCTTACAAATGCAATGAATGTGGCAAAGCCTTTTCATCGGGGCTCACTACTA
ACTATACATCAGATAGTCCATACAAGGGGGAAAGCCATATCAATGTGGTGTATGTGGCAAGATCTTCAGACAAAAT
TCAGATCTTGTAATCACCAGGAGAAGTCACACTGGAGAGAAACCGTACAAATGTAATGAATGTGGCAAGTCCTTT
AGTCAAAGTTATAACCTTGCAATACATCAGAGAAATTCACACTGGAGAGAAACCTTACAAATGTAATGAGTGTGGG
AAAACCTTCAAACAAGGCTCATGCCTCACTACACATCAGATAATCCATACAGGAGAGAAACCATATCAATGTGAT
ATATGTGGCAAGGTCTTCAGGCAGAATTCTAATCTTGTAATCACCAGAGAATCCACACTGGAGAGAAACCATAC
AAATGCAACATATGTGGAAAGTCCTTTAGTCAAAGTTCCAACCTGGCAACTCATCAGACAGTTTCATAGTGGAAC
AAACCTTACAAATGTGATGAGTGTGGCAAAACCTTTAAACGGAGCTCCAGCCTCACTACACATCAGATAATCCAT
ACAGGAGAGAAACCATATACATGTGATGTATGCGACAAGGTCTTCAGTCAACGTTTCAACACTTGCAAGGCACCAG
AGAAGTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAGACTTCACATCTTGTG
GGGCATCGGAGAATTCATACTGGAGAGAAACCTTACAAATGTGATAAATGTGGTAAAGCCTTTAAACAGGGCTCA
TTACTCACTCGACATAAGATAATTCATACCAGAGAGAAACGTTACCAATGCGGTGAATGTGGAAAGGTCTTTAGT
GAAAATTCATGCCTTGTAAGACATTTAAGAATTCATACTGGGGAGCAACCTTACAAATGTAATGTGTGTGGCAAG
GTCTTCAATTACAGTGGAACCTTTCAATTACATAAGAGAATACATACGGGAGAGAAACCTTTCCAATGTAATGAA
TGTGGCACAGTCTTCAGGAACCTTCACTCATGCCTAGCACGTCTCTAAGAATTCATACTGGGCAGAAACCTTACAAA
TGTAATGTGTGTGGCAAGGTCTTCAATGACAGTGGAACCTTTCAAATCATAAGAGAATTCATACTGGAGAGAAG
CCGTTTCAATGTAACGAATGCGGCAAGGTTTTTCACTTACTCATGCCTAGCACGTCTCGGAAAATTCATACC
GGAGAGAAACCTTACAAATGTAATGATTGTGGCAAAGCCTTACTCAGCGTTCAAGCCTCACTAAACATCTGATA
ATTCATACTGGAGAGAAACCTTACAAATGTAATGAGTTTGGAGGGGCATTTATCCAAAGTTCAAACCTTGCAAGA
TATCACAGAAATCCTACTGGGGAGAAACACACAAATGTAGCCATTGTGGTAGAACTTTTAGTCATATAACAGGC
CTGACGTACCATCAGAGAAGGCATACTGGAGAGATGCCATACAAATGTATTGAATGTGGCCAGGTCTTTAATTCC
ACTTCGAACCTTGCAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAATGTGGCAAGGTC
TTTTCATCAATCAACACTAGCACGTCTATCGGAGTATTCATACTGGAGAGAAACCTTACGTGTGTAATGAGTGT
GGCAAAGCCTTTAGAGTGCCTTCAATTCTGGTTAATCATCAGAAAATGCATACTGGGGACAAACCTTACAAATGT
AATGAATGTGGTAAAGCTTTTATTGAAAGGTCAAAGCTGGTGTACCATCAAAGAAATCACACTGGAGAGAAAGCCA
TACAAATGTATTGAATGTGGCAAGGCCTTTGGGCGGTTTTCTTGCCCTCAACAAACACCAAATGATTCTTCTGGA
GAAAAACCTTATAAATGTAATGAGTGTGGCAAATCTTTCATTAGTTCAGGCCTCACTAAACATCAGACAAAA
CATACTGCAGAGAGTCTTAAACAAAATTCATGTGGAAAAGCCTTTAGATGTTCTCCTAACTTCTGGTCTTTAC
CAAATTCATACTGGAGAGAAACCTTACAAATGTAATCAGTGTGGTAAAATTTAA

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FIGURE 5596

MPYKCIECGQVFNSTSNLARHRRHTGEKPYKCNECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILV
NHQKMHTGDKPYKCNECGKAFIERSKLVYHQRNHTGEKPYKCIECGKAFGRFSCLNKHQMIHSGEKPYKCNECGK
SFISRSGLTKHQTKHTAESLKTGFNVEKPLDVLLTSGFK

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FIGURE 5597

AGCACAGCGCTGGCCGCGAGTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGGCGGCCGACGGCGACGACTCGCTG
TACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTTACGCTTCGCCTCAACAGCATCAAGAAGCTG
TCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCCCTTACAGATACCATCTAT
GATGAAGATGAGGTCCTCCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCTGGTGGGAGGCCAGAGTAC
GTGCACTGCCTGCTGCCACCGCTGGAGTCGCTGGCCACAGTGGAGGAGACAGTGGTGGCGGACAAGGCAGTGGAG
TCCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTG
GCGGGCGGCGACTGGTTACCTCCCGCACCTCGGCCTGCGGCCTCTTCTCCGTCTGCTACCCCGAGTGTCCAGT
GCTGTGAAGGCGGAACCTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGGCCGCA
GCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCCATGTTCTCC
AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGTGCGGCTGGAGGCGTGCCTGAACATCGCCAGCTTCTG
CCCCAGGAGGATCTGGAGGCCCTGGTGATGCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGGCTCCGC
TACATGGTGGCTGACAAGTTTACAGAGCTCCAGAAAGCAGTGGGGCCTGAGATCACCAAGACAGACCTGGTCCCT
GCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGAGCCTCCACAAGGTCAAAGAGTTCTGT
GAAAACCTCTCAGCTGACTGTGCGGAGAATGTGATCATGTCCAGATCTTGCCCTGCATCAAGGAGCTGGTGTCC
GATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAAGACAAC
ACCATCGAGCACCTCTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCCTGAGGTACGGCTGAACATCATC
TCTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATTGTGGAG
CTGGCTGAGGACGCCAAGTGGCGGGTGGGCTGGCCATCATTGAGTACATGCCCCTCCTGGCTGGACAGCTGGGA
GTGGAGTTCTTTGATGAGAACTTAACTCCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAG
GCAGCCACCAGCAACCTGAAGAAGCTAGTGGAAGGTTTGGGAAGGAGTGGGCCCATGCCACAATCATCCCCAAG
GTCTTGGCCATGTCCGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAG
GTCTGTGGGCAGGACATCACCACCAAGCACATGCTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAAT
GTCCGCTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGCCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGACTGTT
CTGTCTCTCGCCTGATGCTGGAAGAGGAGCAACACTGGCCTCTGGTGTCCACCCTCCAACCCCCACAAGTCCCT
CTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCTGTGCATGGTCTGACCCAGGCCCCCTTCCCCAGCA
CGGTTCCCTCCTCTCCCCAGCCTGGGAAGATGTCTCACTGTCCACCTCCCAACGGGCTAGGGGAGCACGGGGTTGG
ACAGGACAGTGACCTTGGGAGGAAGGGGCTACTCCGCC

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FIGURE 5598

GCAAGACCTTCAGTCAAACGTCATACCTTGTGTACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG
AAGAATGTGACAAAGCTTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTT
ACAAAGTGAATGAATGCAGCAGGACCTTTAGTCGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAG
AGAAACCTTATAAGTGAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATCGTAGACTTC
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAATCGAACCTTGAAAGACATA
GGAGAATTCATACTGGAGAGAAACCTTACAAGTGAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTG
TATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAAT
CAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTTACAAGTGAATGAATGTGGCAAGACCTTTA
GTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAACCTTACCAGTGAATGAGTGTGGCA
AAGCCTTTTCGTGGGCAGTCAGCACTTATTTACCATCAAGCAATCCATGGTATAGGGAACTTTACAAATGTAATG
ATTGTACCAAGTCTTTAGTAATGCTACAACCATTGCAAATCATTGGAGAATCCATAATGAAGAGAGATCGTACA
AGTGAATAGATGTGGCAAATTTTTCAGACATCGTTCATACCTTGCAGTTCATTGGCGAACTCATAGTGGAGAGA
AACCTTACAAATGTGAAGAATGTGATGAAGCTTTTCAGTTTCAAATCAAACCTTCAAAGACATAGGAGAATTCATA
CTGGAGAGAAACCTTACAGGTGAATGAATGTGGCAAGACCTTTAGTCGGAAGTCATACCTTACATGCCATCGTA
GACTTCATACTGGAGAGAAACCTTACAAGTGAATGAGTGTGGCAAGACCTTCGGTCGAAATTCAGCCCTTATAA
TTCACAAGGCAATTCATACTGGAGAGAAACCTTACAAGTGAATGAGTGTGGCAAGGCCTTCAGTCAGAAGTCAT
CCCTTACATGCCATCTTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGTTTTTCAGTC
GCAAATCAAGCCTTGAAAAACACAGGAGAATTCATACTGGAGAGAAACCATACAAATGTAAGGTTTTGTGACAAAG
CTTTTGGGCGTGATTACACCTGGCACAACATACTAGAATTCACACTGGAGAGAAACCTTACAAGTGAATGAAT
GTGGCAAGAACTTCCGTCACAATTCAGCCCTTGTAATTCATAAGGCAATTCATAGTGGAGAGAAACCTTACAAGT
GTAATGAGTGTGGCAAGACCTTCCGTCACAATTCAGCCCTTGAAATTCATAAGGCAATTCATACTGGAGAAAAAC
CTTACAAGTGTAGTGAATGTGGCAAGGTTTTTAAATAGAAAAGCAAACCTTTTCACGTCATCATAGACTTCATACTG
GAGAGAAACCTTACAAGTGAATAAATGTGGTAAGGTTTTTAAATCAACAAGCACACCTTGCATGTCATCATAGAA
TTCATACTGGAGAGAAACCTTACAAGTGAATGAGTGTGGCAAAACCTTCCGTCACAATTCAGTCCTTGTAATTC
ATAAGACAATTCATACTGGAGAGAAACCTTACAAGTGAATGAATGTGGCAAGGTTTTTAAATCGAAAAGCAAAC
TTGCACGTCATCATAGAAATTCATACTGGAAAAGAAACATTAGAAATATGAAGAATGTGACAAAGTTTACAGTTGTA
AATCAAGTCTTGAAAGACAGGAGAATTCATACTGGAGAGAAAGCTTACAAATGTAAGAGTTTGTGACAAGAATCT
TGGGCGTGATTACACCTGGCCCAACAACTAGAAGTCACACTGGAGAGAAACCTTACAAGTGTACTGAGTGTGG
CAAAGCCTTTAGTGGGCAGTCAACACTTATTCACCATCAGGCAATCCATGGTATAGGGAACTTTACTAATGTAA
TGATTATCACAAGTCTTCAGTAACACTACAACCGTTTCAAATCATTGGAGAATCCATAATGAGAGATTTTGAAA
GTGTAATAAATGTGGCAAATTTTTCAGACATTGTTTCATACCTTGCAGTTCATCGGTGAACCTCATGCTGGAGAGAA
ACCTTACAAATGTCATGATTGTGGCAAGGTCTTCAGTCTAGCTTCATCTTATGCAAAACAGGAGACTTCATACAG
GAGACAACTTCACAAGTATGATGATTGCAGCAAAGCCTTTACTTCACGTTTCACACCTAATTAGACATCAGAGAA
TCCATACTGGACAGAAATCTTACAAATGTCATCAGTGTGGCAAGGTCTTCAGTCTGAGATCACCCCTTAAGGAAC
ATCAGAAAATTCATTTTTGAGATGATTGTTCCAAATGCAATGAGTATAGCAAACCATCAAGCATTAATTGGCATT
AGAGTCAATTCAGCATTGACTTGAGTTTGAATTGACTTAACATTGAGTTCAAGCATTAATTGACATTAAAGTGTT
TATGTTAAGAAGATTGGGCCAGGCGGGGTGGCTCACGCCGTGAATCCCAGCACTTTGGGAGGCCAAGACCAATAG
ATCACTTGAGGTCAGGAGTTTGAGACCAGACTGGCCAACAGACATGAGTCACTTTTCCACCCCTGTATTTTGTTT
CTTTAATAAAAACCTGTTACGGGTT

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FIGURE 5599

MSSLVYHRRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFSTSSLVYHRRRLHTGEKPYK
EECDEAFSFKSNLERHRIIHTGEKLYKCNECGKTFSRKSSLTRHCRRLHTGEKPYQCNECGKAFRGQSALIYHQAI
HGIGKLYKCNDCHQVFSNATTIANHWRIHNEERSYKCNRCGKFFRHRSYLAVHWRTHSGEKPYKCEECDEAFSFK
SNLQRHRRRIHTGEKPYRCNECGKTFSRKSYLTCHRRRLHTGEKPYKCNECGKTFGRNSALI IHKAIHTGEKPYCN
ECGKAFSQKSSLTCHRLRLHTGEKPYKCEECDKVF SRKSSLEKHRRIHTGEKPYCKVCDKAFGRD SHLAQHTRI
TGEKPYKCNECGKNFRHNSALVIHKAIHSGEKPYKCNECGKTFRHNSALEIHKAIHTGEKPYKCSECGKVFNRKA
NLSRHHRLHTGEKPYKCNKCGKVFNQAHLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKTIHTGEKPYKCNE
CGKVFNRKAKLARHHRIHTGKKH

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FIGURE 5600

AGAAACAGTGGTGCGCGGAGAGGAGAGGCCTCGGGC**ATG**TCTCTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA
CACAGCTGGATCTTTCCGGGGATTTCAGTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATTA
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGAGAGGCCGCGCCTG
AATACCGCGTCATCGTGATGCCAACCAACCTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCCTGGTCCCAATGCACTGGATTACATCCGCACGG
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGCAAGAACAATGAGAACCTGCAGCAGATCCTCACCAATGCCACCA
TCATGGTCGTCAGCGTCACCGCCTCCACCACCCAGGGGCAGCAGCTGTGCGAGGAGGAGCTGGAGCGGCTGGAGG
AGGCCTGCGACATGGCGCTGGAGCTGAACGCCTCCAAGCACCGCATCTACGAGTATGTGGAGTCCCGGATGTCCT
TCATCGCACCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCCTGA
CCAACCTCTCCAAGGTGCCCCGCTGCAACATCATGCTGCTCGGGGCCAGCGCAAGACGCTGTCGGGCTTCTCGT
CTACCTCAGTGCTGCCCCACACCGGCTACATCTACCACAGTGACATCGTGAGTCCCTGCCACCGGATCTGCGGC
GGAAAGCGGGCCGGCTGGTGGCCGCCAAGTGCACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG
GGAAGGTGGGCTACGAACTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCGCTGTGAAGC
AGGTGAAGCCGCTGCCTGCGCCCCTGGATGGACAGCGGAAGAAGCGAGGCGGCCGAGGTACCGCAAGATGAAGG
AGCGGCTGGGGCTGACGGAGATCCGGAAGCAGGCCAACCGTATGAGCTTCGGAGAGATCGAGGAGGACGCCTACC
AGGAGGACCTGGGATTACGCCTGGGCCACCTGGGCAAGTCGGGCAGTGGGCGTGTGCGGCAGACACAGGTAAACG
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCCTGCAGAAGCAGAGCGTCGTATATGGCGGGAAGT
CCACCATCCGCGACCGCTCCTCGGGCACGGCCTCCAGCGTGGCCTTACCCCCACTCCAGGGCCTGGAGATTGTGA
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAGAAGTATTTCTCCAGCATGGCTGAGTTCCTCAAGG
TCAAGGGCGAGAAGAGTGGCCTTATGTCCACC**TGA**ATGACTGCGTGTGTCCAAGGTGGCTTCCCACTGAAGGGAC
ACAGAGGTCCAGTCTTTCTGAAGGGCTAGGATCGGGTTCTGGCAGGGAGAACCTGCCCTGCCACTGGCCCCATTG
CTGGGACTGCCCAGGGAGGAGGCCTTGGAAGAGTCCGGCCTGGCTTCCCCCAGGACCGAGATCACCGCCCAGTAT
GGGCTAGAGCAGGTCTTCATCATGCCTTGCTTTTTTAACTGAGAAAGGAGATTTTTT'GAAAAGAGTACAATTAA
AAGGACATTGTCAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5601

MSLADELLADLEEAEEEEEGGSYGEEEEEPATIEDVQEETQLDLSGDSVKTI AKLWDSKMFAEIMMKIEEYISKQA
KASEVMGPVEAAPEYRVIVDANNLTVEIENELNI IHKFIRDKYSKRFP ELES LVPNALDYIRT VKELGNSLDKCK
NNENLQQILT NATIMVSVTASTTQGQQLSEEELE RLEEACDMALELNASKHRIY EYVESRMSFIAPNLSIIIGA
STAAKIMGVAGGLTNLSKVPACNIMLLGAQRKTL SGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAAKCT
LAARVDSFHESTEGKVG YELKDEIERKFDKWQEPPP VKQVKPLPAPLDGQRKKRGGRRYRKMKERLGLTEIRKQA
NRMSFGEIEEDAYQEDLG FSLGHLGKSGSGRVRQTQVNEATKARISKTLQRTLQKQSVVYGGKSTIRDRSSGTAS
SVAFTPLQGLEIVNPQAAEKKVAEANQKYFSSMAEFLKVKG EKSGLMST

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FIGURE 5602

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCCG
AAGGAACCCGAAGGGAGACCCCGCCTCATTCCCTCACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCT
GTTCCCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCGCCCCCTTCACGTA CTGGAG
CTCGGATCCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGGCTTCTT
CCCTGCCCCGCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCAGAAAGGA
GCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCG
GCCGCTCCTGCCCCGCGAGCAGCTCAGACCATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTC
CATCCCCATCGGCTTCTCTTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGG
GCTCACCTGTTCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCTCGGGACCTGGGCCCTCATTCA
GGCCAGCCCTGCTCCTGCCACGCCCTGGCTCTGGCCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAG
CCTCCTGGGCCTGCCACTCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCAGAGGAAGGAAATGGCCTCAGGCTTCAGCAAGGGGCCACCCT
GGGGCTGCTGCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG
CCCGTTCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCCGGGGCAGTGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCCTGGCCGGCCCCGCTCTTCGGCCTGCTGTTCTGCTCTCCTCTCACCTCTTCCCGCTGGA
GGCGTGCGCGAGGACGCTTCTACGCCCGCCCGCTGCCCGCCCGCCTCTTCTACATGATCCCCGCTCTTCTTCGC
CTTCCGATGCGCTTCTACGTGGCCTGGATTGCCGCCGAGTGCGGCTGCATTGCCGCCGGCTTTGGGGCCTACCC
CGTGCCGCCAAAGCCCGGGCCGGAGGCGGCCACCCTCCAATGCCACCCCCCAGCAGTCCGGAGAAGGCGGC
TTCCTTGAGATGACTATGAGACCATCCGCAACATCGACTGCTACAGCACAGATTTCTGCGTGCGGGTGCGCGA
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC
CTATGTCCTGCGGAGCGCCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCCTCCACCCGGGCTACTACCTGAG
CTTCTGACCATCCCCGCTGTGCCTGGCTGCCGAGGGCCGGCTGGAGTCAGCCCTGCGGGGGCGGCTGAGCCCAGG
GGGCCAGAAGGCCTGGGACTGGGTGCACTGGTTCTGAAGATGCGCGCCTATGACTACATGTGCATGGGCTTCGT
GCTGCTCTCCTTGCCGACACCCTTCGGTACTGGGCCTCCATCTACTTCTGTATCCACTTCTGCCCCCTGGCAGC
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGCAGCCCCAGCCGGCGGAAGGCAGCATCCCAGCCCACCAGCCTTGC
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTACGACGCTCCCTCTGCCAGCTGGTCCCGGAATTCTGTGAACCA
GGCTGCTGTCTCCTCCCCAGAAAGAGTCTTACCTTGGAGAGGGTCTTGAGAGAATTTCTCTTCCCCAGCTAA
ATACCTGCCTGCAACTGAAGCAGACCCGGGGGTGTCTTCCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCCCTGCTCCAGCTTCTGGGTATCCAGAGAGCACTGCACTT
CCCCAAAACGGAAGGGGCCCTGGGCAGTGGGTTTTGGGCAAATTCCTTTCTTTGCATCCACAATGTGGGGTCG
GAGCTTGGGGGCAGGTCTTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTGCTCCACTTTTAGCTCATCGCACCA
ATATTGCAGACTTGGAAGGAAGCATAAGCTTCCATTTCAAAAGGGGAACTGAGGTGCGGGTGCGCGGGCCTG
GGGACGGCCGTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT
GGCCTATGACAGGTACCGTGTGTAAATCTTTCCCAATAAAGTGTTCACAAAAG

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FIGURE 5603

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCAAAACTTATGT
GACCCCGCGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAAC TGCTGACGCTTGA
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTCTGCGCTCTCC
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA
CGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG
GATCAGCGCTTTA

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FIGURE 5604

MFVARSWVCRKTYVTPRRPFEEKSRLDQELKLIGEYGLRNKREVVRVKFTLAKIRKAARELLTLDEKDPRRLFEGN
ALLRRLVRIGVLDEGKMKLDYILGLKIEDFLERRLQTQVFKLGLAKSIHHARVLIRQRHIRVRKQVNVNIPSFIVR
LDSQKHIDFSLRSPYGGGRPGRVKRKNAKKGQGGAGAGDDEED

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FIGURE 5605

CCGAAGGGAGACCCCGCCTCATTCTCACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCTGTTCCCC
TTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCGCCCTTCACGTACTCGGAGCTCGGAT
CCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGCC
CGCCCGGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCAGAAAGGAGCAGGCG
GCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGCCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCT
CCTGCCCGGCGAGCAGCTCAGGTCTTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGGGCTCACCTGT
TCACCTGTGGCCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTAGGCCAGCCCT
G

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FIGURE 5606

LAPPCSEPEGPPLHVLGARIPVWTWTRIPLPTRALGFCSGASSLPARGPD RGFFPGLICAARRAPRRSRRRGAL
GGGGVAGAAAASGLGLLGRLLPGEQLRSWAEEMGSSRCGPGAHPVHLWPPHFAFSGHHPDLGPHSGPA

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FIGURE 5607

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAACTTATGTGACCCCG
CGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT
GAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAAGTCTGACGCTTGATGAGAAG
GACCCACGGCGTCTGTTCGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG
GTGAACATCCCGTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

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FIGURE 5608

GGCACGAGGCTCAAGATTCACAGCATCTCAGACGCAGCCTAGGTTCCCATGGACTTGTCATAAGACAAAAGAGGA
CAGCTGTGCTGAGGGGGCAGGGTCTGCAGCCTCCTGGCTGTGCCAGGACCACACCTACCAAGGCCGCACCAGGAT
GTCGGACACCGAGGAGCAGGAATATGAGGAGGAGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAGGAAGAAGA
GGAACGCCCCAAACCAAGCCGCCCCGTGGTGCCTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGA
CTTCGATGACATCCACCGCAAGCGCATGGAGAAAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTGA
GCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGAGCCGA
GCAACAGCGCTTCAGAACTGAGAAGGAACGCGAACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGA
GGAAGAGGCCAAGAAGCGGGCAGAGGATGATGCCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCCATTTTGG
CGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTC
CGAGCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCGGA
CTGGATCCACCAGCTGGAGTCTGAGAAGTTTCGACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGT
GCTGTACAACCGCATCAGCCACGCCCAGAAGTTCCGGAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAA
GTGAGGATGCCGCCCCGACAGTGGCACCTGGGAAGCCTGGGAGTGTGTTGTCCCATCGGTAGCTTGAAATAAACG
CTCCCCCTCAGACACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5609

MSDTEEQYEEEQPEEEAAEEEEEEEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKD LLELQTLIDVHF
EQRKKEEEELVALKERIERRRSERAEQQRFRTKEKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAHF
GGYLVKAEQKRGKRQTGREMKVRILSERKKPLDIDYMGEEQLREKAQELSDWQHLESEKFDLMAK LKQQKY EIN
VLYNRISHAQKFRKGAGKGRVGGRWK

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FIGURE 5610A

CGCCCAGCTAATTTTTGTATTTTTGGTAGAGACAGGGTTTCGCCATGTTGCCCAGGCTGGTCTTGAACCTTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGGCCCCCTCAGG
GCCTTGAGTGGCAGCTGGTGGGGCAGCTCTTGTCTTGGAGCCGTCAGGCACCGTGTGAAAGTTTGGAGGAGGGA
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAGGGATGAGTGTTAGCTGCTGTGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCCCTGGTGTGGGCC
CTTGTTTCTGCGTCACCTGTCTCTGCCCTTTCCCTTTCCTGGACAGGGGTCTCTGCAGTTCCAGAAACCCAG
TGCCCGGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCCCTGCCCCGGCCTCCGACCCGAGCCCCACCCGCTG
TGCTTGCCCTCCAGGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG
GGTGCCGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCCTGCAGAGCACCGGCAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGT**CATG**GGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAG
GATGACTTCGTGGACCTGCTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACC
TGTGTGGAGCGGCCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTG
AGCCGGGAGCAGATGATCCAAGTCCAGGACAGCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTGAGGGGGAGCAGAGCCAGTCTGTTCATCGTCAGTGGGATCCAGGTG
CTGCTGACCCTGCTGGAGCCCAGGAGGCCGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGCAGCTGGAGCTCCTGGCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGGCGCCTTGACGCCCCCTACGC
CCGCGGCTCAGCTGCTTCCACCAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGCCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCAACACCATGCTGGACCTCTTCTTCCATTATGTCTTCAAC
AACTTCTTGATGCCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCCATCCAAACCCCTGTTGTGAAACATCTGCTGCAGCAGTGCCGCTGGTGGAGCGGATCCTGACGTCC
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC
GGTGCCCTGGTGCAGAACACGGAGAAGGGGCCCAATGCAGAGCAGCTGCGGCAGCTGCTGAAGGAGCTGCCAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGCCCTGGCGGAGACCAACAAGAAGACATGGTGGACCTG
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAG
GCTGTGCTGCAGCAGGCCTTCATGGACTTCAGATGCAGCGCATGACCTCTGCCTTCATTGACCACTTCGGCTTC
AATGATGAGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC
CTCAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGCCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGCCGCTCTGGCCAGCCACCTGGTGTCCGGAGTGGAGGCAGCACAGACAGTGAG
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCTGGAGGGGGCCACC
CCTCTGTCCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCCCTACA
GATGCCCCGACCAGCCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCCGTGACGCCCTGCAGCTCAGGTCTCAG
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCCCTGGCCAG
GCCTTGGTTAGCATCGGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTCTACCTCTGTCCAGCCTCCGGGGCCACCAGCCCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCACGCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCCTGCATCCTCAGGCTCCCA**TAG**CTGCCTGGTGCAGCAGCGGCGGCCAAATCTTCCGTCTCCCG
TGGATCTCCCGGGGTGGGGGCAGGGCGGGTCCACGATGGCCCCCATTTGCCCTCATCACCTTGACACCCCCACAT
TCTCTCCTCTGGACCCCCAGGAGGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCATTTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCTCCTAGAATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAAGCAC
AGCCTTCCCTGTTCCGTCCAGCGGGAGCTGGTGTAGGGGTCCCAAGTTGCCACCCACGTGCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCCACACCCGGCCTTTTAGCTCAGGTCCACCATGGGGGACGGCCAGCGTGG
GTGGGGGTGCCAGAGGTCCCGAGTGGGGCCGTGCCTTTGCCAGACCCTGCACCTTCAACCAGGCCAGTCCGG

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FIGURE 5610B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCCTTTGTGCCGAGCTTCTATTTCATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

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FIGURE 5611

MGILINRKTDQLVSFLRKKDDFVDLLLQHIGTSAIMDLLLRLLTCVERPQLRQDVVNWLNEEKIVQRLIEQIHPS
KDENQHSHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEGEQSQSVIVSGIQVLLTLLE
PRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPLQMTWGMLAPPLG
NTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQN
PVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTTEKGNNAEQRLRQLLKELPSEQQEQW
EAFVSGPLAETNKKNMVDLVNTHHLHSSDDEDDRLKEFNFP EEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFG
EQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEDEEEEAQSGESDGEDGAWQGSQAR
GARLGQPPGVRSGGSTDSEDEEEDEEEDEEEDEEGIGCAARGGATPLSYSPGPQPPGPSWTATFDPVPTDAPTSP
RVSGEEELHTGPPAPQGPLSVPQGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIG
DLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQSAQALTFFFIPNGSAPEGPAS
SGSQ

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FIGURE 5612

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCCTT
CTTCACAAACGGCCCATGTCAGACGAAGGCTCAAGGGGGAGCCGCCTGCCCTGGCGCTGCCCCGGCCTCCCAG
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACCGCGGGCTCTGAAGAGCCAGACCCCTCCTCCAGAACCGATG
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTCCGGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGCTGTACAGCCCCATGCCCCCACTGCTGGGGAGGCCGAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCAGACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCCTGCGACACGGTGC GCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCTCCTCGCCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAAGCTCAAGGTCAAATCAGCATTCCTGCTGCAGAACCTGCTGGTGGGCCACCCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGC GGACAGAGCACAGCCCCCTCCACGAGCACGTG
CTTGGAGCCCTGTGCAGCCTGGTGACAGACTTTCGCGAGGGTGTGCGCGAGTGTCGGGAGCCGGAACCTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTCAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGCTACAGACCTGTTTCTCCAGCCCAGCGGACGACAGCATGGATCGGTGAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCAGGCCTCTTGCTCCTCCCCACCTACAAGGCCCTCTCCCAAGGGATCGCAGGGCCT
AGGTGCCTGGACCCAGGGTGTGCCAGCCCGTCTCTGTGCAGTCCCTGGAAGGGGCGCTGAGAAAAGGCACCAGCTC
CTTGGACCCACCTCCCATGCTCTCACTCTCATCCCCGTTCTCTTGTCACACAGCTCTTCCAATAAAGGTGTTT
CTCTTCCTCCTTCTC

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FIGURE 5613

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGTCTGCGCATCTGCAATGGATGGTTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCCGCAAT
TCCTTCCGCTACAACGGACTGATTACCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCGTG
GTGGTCATTAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTGACCCCCCTGCCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAAAA

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FIGURE 5614

MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSEFRYNGLIHRKTVGVEPAADGKGVVVVIKRRSGQRKPAT
SYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPMVKRKRTRPTKSS

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FIGURE 5615

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCCGGCCGGCCGCAGCC**ATGA**ACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGGTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGCTG**TAG**TGGGCTCTCTTCC
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGG
GGTCGGGGAGGGTACAGGGGGCACTGGGACCTGGATTGTGTTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 5616

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVFNPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLL GKDFPASPP
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPPSGRAEAGRALASGTEASSTDPGAPGGPGAEGPMAKKHAGERDKKLAAKKKTDKKRALRALRRL

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FIGURE 5617

AATTCTTTCAATTCAGAGTTGAGCAAACCTGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTCTTCTGGGCTCTTTCTTCTTGGCCTCCTGCCTCCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCCTG
TGTTTTTCTCATTTGTGTCTCTGCCTAGCTCCCTCTGCCCAGGTTTCTATGTGTCTCTTTCTGTGAGAACTGTCTT
CTATTTCTTCTCAGTCCCTTCTCTGCATTTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCCTCTCTCCGTATCCCTATCTCCCTTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTTGAAAAGGTAATGTCCCTCTTGTGTCTGAGCGAGCACCTGGCACACAGCAGGGACCC
AGGCAGTGGGGCTGTTAGGTTCTTATCTCTCTCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGTCTGGTCTTCT
GGCTTCCCCGGTTCTTCTGCGGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGCAGCCTTCGTCCGGGAGTCG
CCCCATCTCTCCACGCAATCGGCCCTGTGCCCTTGCTGCTGCAGCCGGGCACCATGTCGACCTCGTCCTTGAGG
CGCCAGATGAAGAACATCGTCCACAACCTACTCAGAGGCGGAGATCAAGGTTTCAGAGGCCACGAGCAATGACCCC
TGGGGCCCATCCAGCTCCCTCATGTGAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCATG
AGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGAG
TACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGAGCAGTGCAAGGAGAACATGTACGCCGTGCAGACGCTGAAG
GACTTCCAGTACGTGGACCGCGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGCC
CTGCTGCGCGACGAGGACCGGCTGCGGGAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGACC
GCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCGCAGAGCAGCGGG
GAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCAGGAGGAGCGGATCCGTCGC
GGGGATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCGTCCCTC
ATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCGACCACAGACCCCTGGGGGGGCCCCAGCACCCATG
GCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGCCCCCTGTCCCTCCAGCTGCTGATCCC
TGGGGAGGTCCAGCCCCACGCCGGCTCTGGGGAGCCCTGGAGGCCTGCTGCCCTGCAGGACCCCTCAGTTGAC
CCTTGGGGTGGGACCCCAGCCCCTGCAGCTGGGGAGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGGG
GTCCCGGTCACTGGGCCCTCAGCCTCCGATCCCTGGACACCGGCCCGGCCTTCTCAGATCCCTGGGGAGGGTCA
CCTGCCAAGCCCAGCACCAATGGCACAACAGCAGCCGGGGGATTTCGACACGGAGCCCGACGAGTTCTCTGACTTT
GACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCG
GCCCCAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACCT
GCAGCCACACCAACTCCACGCCCCCACCCGGAAGACGCCGGAGTCATTCTGGGGCCCAATGCAGCCCTCGTC
GACCTGGACTCGCTGGTGAGCCGGCCGGGCCCCACGCCGCTGGAGCCAAGGCCTCCAACCCCTTCTGCCAGGC
GGAGGCCCAGCCACTGGCCCTTCCGTACCAACCCCTTCCAGCCCGCGCTCCCGCGACGCTCACCTGAACCAG
CTCCGTCTCAGTCTGTGCTTCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGGC
CTGCCCCCATGATGCCCCGGGCCCCCGGCCCAACACTAATCCCTTCTCTATTAATCCAGGGCGGAAGGG
GGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTGTGAGTGCATGTGAAATGG

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FIGURE 5618

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVFSEIMSMIWKRLNDHGKNWRHVY
KAMTLMEYLIKTGSERVSQQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLVALLRDEDRLREERAHALKT
KEKLAQTATASSAAVSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQEERIRRGDDLRLQMAIEESKRETG
GKEESSLMDLADVFTAPAPAPTTPDPWGGPAPMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTASGDPWRPAA
PAGPSVDPWGGTPAPAAGEGPTPDPWGSSDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDTE
PDEFSDFDRLRTALPTSGSSAGELELLAGEVPARSPGAFDMSGVRGSLAEAVGSPPPAATPTPTPTTRKTPESFL
GPNAALVDLDSLVSRLPGPTPPGAKASNFFLPGGGPATGPSVTNPFQPAPPATLTNLQLRLSPVPPVPGAPPTYIS
PLGGGPGLPPMMPPGPPAPNTNPFLL

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FIGURE 5619

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCCTCAGC**ATG**TCGGACTTCGACGAGTTCGAGCGGCAGCTCAA
CGAGAATAAACAAGAGCGGGACAAGGAGAACCGGCATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCCAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCCGTGGTCGGGAGCCAGATGACCAGACAAGCCCCGGCGCCTCTACGTGGGCAACATCCCCCTTTGGCATCACTGA
GGAGGCCATGATGGATTTCTTCAACGCCCCAGATGCGCCTGGGGGGGCTGACCCAGGCCCCCTGGCAACCCAGTGT
GGCTGTGCAGATTAACCAGGACAAGAATTTTGCCTTTTTTGAGTTCCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCCTGG
CATGTCAGAGAACCCCTCCGTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCCGACTCTGCCACAAGCTGT
CATCGGGGGCTTACCCAACTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGCCCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCCCTGCAAGTGCCGGG
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCCTGTGCCTCATGAACATGGTGCTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCGGCCTGTGGACGGCGTCGAGGTGCCCGGCTGCGGAAAGATCTTTGTGGAGTTCAC
CTCTGTGTTTGA CTGCCAGAAAGCCATGCAGGGCCTGACGGGCGCAAGTTGCGCAACAGAGTGGTTGTACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGG**TAG**AGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCGCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCA
GACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGAGCGGGGGTTGGGGGGTTGGGGGGTT
AGGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCCCACACAGACAACACGCACG

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FIGURE 5620

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSRDRKRRSRSRDRNRDQRSASRDRRRRSKPLTRGAKEEHGG
LIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTDPGLAVTPTPVPVVGSMTRQARR
LYVGNIPFGITEEAMMDFFNAQMRLGGLTQAPGNPVLAVQINQDNFAFLEFRSVDETTQAMAFDGIIFQGQSLK
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDQVKELLTSFGPLKAFNLVKDSATGLSK
GYAFCEYVDINVTDQAIAGLNGMQLGDKKLLVQRASVGAKNATLVSPSTINQTPVTLQVPGLMSSQVQMGGHPT
EVLCLMNMVLPEELLDDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLT
GRKFANRVVVTKYCDPDSYHRDFW

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FIGURE 5621

GGGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCGCTAGTGGGGAGAGGTGACTA
GACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGGAATTGGGTTAGTGGGGCTC
TGGGGAGGTACCTAGAGAGGAAGTGAGGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGG
GACGGAGGGCCAGGAGGCCGATACGGGGGCCGGTGGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAA
CTGGGGCTGGGCAACAGGAAAAAAGAAGAAACCACAGATTAGAGAAATCTCGGCGGTGACAGAGGCCCGGGGTCTA
AGATGTAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTGAGAGGAGAAAAGGGAAGAAAAG
TCGGGGGACTACGTCCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGG
TTTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCACAGT
TTTTATTTTGCTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTTCATTTT
AGGAAACTTTTCCTAAAAGGAAGTGGCAATTTTAACTAATCTCCCTCCGCCGCTCCCAGCTGCCACTCCAGATG

CTGCTGCTGCCGCCGCGGCCACCCACCCTCGGTCTCTCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCT
CCCCCTTTCCCAAGGCGGAAGGCCCTCTCTCCACTCCTTCTCGGCGCGGGGCCCCGACCCCGCGGCTGGGC
CGCCACCTCCTCATCGACGCCAATGGGGTCCCTACACATACAGGTGCAGCTGGAGGAGGAGCCCCGGGGCCCCG
CCCCAGCGCGAGGCGCCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCCGTGTCTTT
GCCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGCACTCGGACCTCAAGCCCTTCACGTGCGGCGCCTGCGGC
AAGGCCCTCAAGCGCTCCAGCCACCTGTGCGGCGATCGCGCCACGCACCGCGCCCGCGCCGGGCGCCGCACACC
TGCCCGCTCTGCCCACGCCGCTTCCAGGACGCCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTTAAGCTCGAGAC
CCGGCCTGTGCTGCCCTGCCGCTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACACC
CCCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGCCCCACCTTCCAAAGGGAGGAGCATCATTCTTC
CTTACCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCGTTGCCCTCCCTGGGCCTGGGAACCAGTCGGAACGTG
GGTTCCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGGTTTTCTGCTCTCTG
GAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTTCATTTCTGTATC
TACCCCCCTTCCGCCACGCCCCGACCCTTTGCTCAATAAACATTCCGCACTCCAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5622

MLLLPPRPPHPRSSSPEAMDPPPPKAPFFPKAEGPSSTPSSAAGPRPPRLGRHLLIDANGVPYTYTVQLEEEPRG
PPQREAPPGEFGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFFKRSSHLSRHRATHRARAGPPH
TCPLCPRRFQDAAELAQHVRH

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FIGURE 5623

CCTTGTCGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCCATGGCCCCCAGCCACCTGTCAGTGCGGGAGATGAGGGAAGATGAGAAGCCCCCTGGTGCTGGAGATGCTGA
AGGCCGGCGTGAAGGACACGGAACCGCGTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCTCTGGCTG
TGGCCGCCGTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCCCTGGG
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCCCTGGCTCTGGCCCTGGCACAAATGCAGGGGACGGGGCCC
GGGTCAACCGCCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCCGGCTCGGGCCTGGGCTGGGGGCATGGGGGAGCCCCGGGCCCGGCTCGTGGTCCCCGTGGCTGTGGCCGCCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTCAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCTGGGCCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTCAGCAGTGTGAAGTCTGTTGTGTTTGAGCT
TCTCAGAGTGGAATGACTCCTTTTCTTCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGCGACTCCGCCTCCCTG
GGACCTGGATTGGGTGAGATGCCTGTCCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCTCCAGATCCGTCTGG
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

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FIGURE 5624

MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLASFALALLPVFLAVA
AVKLGLRARWGSLPPPGGLGGPWVAVRGSDVCGVLALAPGTNAGDGARVTRLSVSRWHRRRGVGRLLAF'AEAR
ARAWAGGMGEPRARLVVPVAVAAWGVGGMLEGCGYQAEGGWGCLGYTLVREFSKDL

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FIGURE 5625

CGGCGGCGGCGACAGGACCGAGGGGCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCATGGACCTATTGTTTCGGGCGC
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG
CGACAGAACTAGAGACCCAGGAGAAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT
GCTGTTTCGCATCATGGCAAAAAGACTTGGTGCGCACCCGGCGTTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACCTCGATGGCACAAGCCATGAAGGGTGTACC
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA
GAGGAGAGTGATGCTGTGGTGTCCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTCGAACCTC
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAAGCAGAGGCCGCAGCCTCAGCCCTAGCTGAT
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTTGAGTGCCCCTGCCACTCCGAGATAACCAG
TGGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTTGACACTAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 5626

MDLLFGRRKTPEELLRQNQRALNFRAMRELDREERQKLETQEKKIADIKKMAKQGQMDAVRIMAKDLVRTRRYVRK
FVLMRANIQAVSLKIQTLKSNNMAQAMKGVTKAMGTMNRQLKLPQIQKIMMEFERQAEIMDMKEEMMNDAIDDA
MGDEEDEEESDAVVSQVLDELGLSLTDELSNLPSTGGSLVAAGGKAEAAAASALADADADLEERLKNLRRD

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FIGURE 5627

GGCGCGGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGCGTGGTGCGGGTTTCGGCGGGCGGCTGAGGAAGAAGCGC
GGGCGGCGCCTTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCGCGCGCGGCGGGCAGCGG
CCCAGGAGGCGCGTGGCGGGCGCTCGGCCTCGCGGCGGCGGGCGGCGGCAGCGGCCCAGCAGTTGGCGGCGAGCGCG
TCTGCGCCTGCGCGGGCGGGCCCCGCGCCCCCTCCTCCCCCCTGGGCGCCCCCGGCGGCGTGTGAATGGCGGCCTC
CGCGGCGGCAGCCTCGGCAGCAGCGGCCTCGGCCGCTCTGGCAGCCCCGGGCCCGGGCGAGGGCTCCGCTGGCGG
CGAAAAAGCGCTCCACCGCCCCCTTCGGCCGCGAGCCTCGGCCTCTGCCTCAGCCGCGGCGTCTGTCGCCCGCGGGGG
CGGCGCCGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCCTGCGACCCGAGAGGGAGCCCCG
CCTGCTGCCCTGTTTTGCACTCGGCCTGTAGTGCTGCTTAGGGCCCCGCGGCCCCCGCCGCCAACAGCTCGGG
GGACGGCGGGGCGGCGGGCGACGGCACCGTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT
CGTGAGAATTATTTTCATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCCAGGATGCGAACCAGTGCTGCAC
TAGCTGTGAGGATAATGCCCCAGCCACCAGCTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA
GGCGCACCAGCGGGTGAAGTACACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACCTG
CCGAGACTGCCAGCTCAATGCCCACAAGGACCACCAGTACCAGTTCTTAGAGGATGCAGTGAGGAACCAGCGCAA
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCACCAAGGAGGTTTCGAG
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCCTGCAGATCATGAA
GGAGCTGAATAAGCGGGGCGTGTGCTGGTCAATGATGCCCAGAAGGTGACTGAGGGGCGAGCAGGAGCGCCTGGA
GCGGCAGCACTGGACCATGACCAAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTGCCTCTTGGGCTCTGGA
GAGTGACAACAACACAGCCCTTTTGCTTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTCAGTGGGACCTCAATGCCTGGACCAAGAGTGCCGAGGC
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCACTAACTCAACAGGCCCTGCACCCATGGCCCCCTCAAGAGCCCC
AGGGCCCCTGAGCAAGCAGGGCTCTGGCAGCAGCCAGCCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTGAGG
AGATGATCCCTACTCAAGTGCAGAGCCCCATGTGTCAGGTGTGAAACGGTCCCGCTCAGGTGAGGGCGAGGTGAG
CGGCCTTATGCGCAAGGTGCCACGAGTGAGCCTTGAACGCCTGGACCTGGACCTCAGAGCTGACAGCCAGCCACC
CGTCTTCAAGGTCTTCCAGGCAGTACCAGTGGAGCTACAACCTTATTGTTATTGAACGTGGCGCTGCCGCTGC
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGCCCCACCCCTGGCTGGCATGGCCATTGTCAA
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCCCTCTACTGCCACTGAGGGCCCTGAGACCAACCTGTGCTTAT
GGCTCTTGCGGAGGGTCTGCTGGTGGTGGGTTCCCGCCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA
GGTGGTGGCTCCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCGGGAACCCTGGATGACAGTGCCACCATTTGCCG
TGTCTGCCAGAAGCCAGGCGATCTGGTTATGTGCAACCAGTGTGAGTTTTGTTTCCACCTGGACTGTCACCTGCC
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTCACCAGCCAACCAGCGGAAATG
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCTGCCGCCCCCTGCATCAGCTGGCTACCGACTCCACCTT
CTCCCTGGACCAGCCCGGTGGCACCCCTGGATCTGACCCTGATCCGTGCCCGCCTCCAGGAGAAGTTGTCACCTCC
CTACAGCTCCCCACAGGAGTTTGCCAGGATGTGGGCCGATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCGATGAGCCTGCCTGGTGTGCTGGCCTGAGTTCCAGGAGCTGTCTGG
TGGCCCTGGTGTGAGGCCCTTGAGGCTGGAGCCCCCATGGCCAGCCCAGCCTGGCTCTGTTCTCTGTCTCTGTCACC
CCATCCCCACTCCCCTGGTGGCCTGACTCCCACTCCCTGGTGGCCCCATCCCCAGTTCTCAGGATATGGTTTTT
TACTTCTGTGGATTTAATAAAAACTTACCAGTTAAAAA

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FIGURE 5628

MAASAAAASAAAASAASGSPGPGEGSAGGEKRSTAPSAAASASASAAAASSPAGGGAEAELELLEHCGVCRERLRPE
REPRLLPCLHSACSACLGPAPAAAANS SGGGAAGDGTVDPCVCKQQCF SKDIVENYFMRDSGSKAATDAQDAN
QCCTSCEDNAPATSYCVECSEPLCETCVEAHQVRKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCD
TLTCRDCQLNAHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRVQVDVKMAIL
QIMKELNKRGRVLVND AQVTEGQQERLERQHWMTKI QKHQEHILRFASWALESDNNTALLLSKKLIYFQLHRA
LKMIVDPVEPHGEMKFQWDLNAWTKSAEAF GKIVAERP GTNSTGPAPMAPPRAPGPLSKQSGSGSSQPMEVQEGYG
FGSGDDPYSSAEPHVSGVKRSRSGEGEV SGLMRKVPRVSLERLDLDTADSQPPVFKVFP GSTTEDYNLIVIERG
AAAAATGQPGTAPAGTPGAPPLAGMAIVKEEETEA AIGAPPTATEGPETKPVLMAAEGPGAEGPRLASPSGSTS
SGLEVVAPEGTSAPGGGPGTLDDSATICRV CQKPGDLVMCNQCEFCFHLDC HLPALQDVPGE EWSCSLCHVLPDL
KEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSLDQPGGTLDLTLIRARLQEK
LSPPYSSPQEFAQDVGRMFKQFNKLTEDKADVQSI IGLQRFFETRMNEAFGDTKFS AVLVEPPFPMSLPAGAGLSSQ
ELSGGPGDGP

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FIGURE 5629

ATTTATTTATTGTTTCCTGGTCACTGTCTCTTTGAGGATTGGTATCTCTGCTCCAGAAAAG**ATG**GCAGCCTCTTTCTTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCAGGAAATTTAAAGAACATCTCAAGCAAATGACTTTGCAGCTTGAACTCAAGCAGATTCCCTGGACTGAGGTCAAAAAGCATCCCGGGAAGAACTTGCAAACCTCTTGATCAAGCACTATGAAGAACAACAAGCTTGGAACATAACCTTAAGAATCTTTCAAAAAGATGGATAGAAAAGGATCTCTGCATGAAGGTCATGAGGGAGAGAACAGGATACACAAAGACCTATCAAGCTCACGCAAAGCAGAAATTCAGCCGCTTATGGTCCAGCAAGTCTGTCACTGAGATTACCTATACTTTGAGGAGGAAGTCAAGCAAGAA GAATGTGACCATTGGACCGCCTTTTTGCTCCCAAGGAAGCTGGGAAACAGCCACGTACAGTGATCATTCAAGGACCACAAGGAATTGGAAAAACGACACTCCTGATGAAGCTGATGATGGCCTGGTTCGGACAACAAGATCTTTCGGGATAGGTTCCCTGTACACGTTCTATTTCTGCTGCAGAGAACTGAGGGAGTTGCCGCAACGAGTTTGGCTGACTTGATTTCAGAGAGTGCCCTGACCCCGCTGCTCCTATAACAGAGATCGTGTCTCAACCGAGAGACTCTTGTTCTGTCATCGACAGCTTCGAAGAGCTGCAGGGCGGCTTGAACGAACCCGATTTCGGATCTGTGTGGTGACTTGATGGAGAAACGGCCGGTGCAGGTGCTTCTGAGCAGTTTGCTGAGGAAGAAGATGCTCCCGAGGCCTCCCTGCTCATCGCTATCAAA CCCGTGTGCCCGAAGGAGCTCCGGGATCAGGTGACGATCTCAGAAATCTACCAGCCCCGGGGATTCAACGAGAGTGATAGGTTAGTGTATTTCTGCTGTTTCTTCAAAGACCCGAAAAGAGCCATGGAAGCCTTCAATCTTGTAAGAGAA AGTGAACAGCTGTTTTCCATATGCCAAATCCCGCTCCTCTGCTGGATCCTGTGTACCAGTCTGAAGCAAGAGATGCAGAAAGGAAAAGACCTGGCCCTGACCTGCCAGAGCACTACCTCTGTGTACTCCTCTTTTCGTCTTTAACCTGTTTCAACCTGAGGGTGCCGAGGGCCCGACTCCGCAAACCCAGCACCAGCTGAAGGCCCTGTGCTCCCTGGCTGCAGAGGGTATGTGGACAGACACATTTGAGTTTTGTGAAGACGACCTCCGGAGAAATGGGGTTGTTGACGCTGACATCCCTGCGCTGCTGGGCACCAAGATACTTCTGAAGTACGGGGAGCGTGAGAGCTCCTACGTGTTTCTCCACGTGTGTATCCAGGAGTTCTGTGCCGCTTGTTCTATTTGCTCAAGAGCCACCTTGATCATCCTCACCCAGCTGTGAGATGTGTA CAGGAATTGCTAGTTGCCAATTTTGA AAAAGCAAGGAGAGCACATTGGATTTTTTTGGGGTGTTTTCTAACTGGCCTTTTAAATAAAAAGGAACAAGAAAACTGGATGCGTTTTTTGGCTTCCAAGTGTCCCAAGAGATAAAGCAGCAAATTACCAAGTGCCCTGAAGAGCTTAGGGGAGCGTGGAATCCTCAGGGACAGGTGGATTCTTGGCGATATTTTAC TGCTCTTTGAAATGCAGGATCCTGCCTTTGTGAAGCAGGCAGTGAACCTCCTCCAAGAAGCTAACTTTTCATATTATTGACAACGTGGACTTGGTGGTTTTCTGCCTACTGCTTAAATACTGCTCCAGCTTGAGGAACTCTGTTTTTCC GTTCAAAAATGTCTTTAAGAAAGAGGATGAACACAGCTCTACGTCCGATTACAGCCTCATCTGTTGGCATCACATCTGCTCTGTGCTCACCACCAGCGGGCACCTCAGAGAGCTCCAGGTGCAGGACAGCACCCCTCAGCGAGTCGACCTTTGTGACCTGGTGTAAACCAGCTGAGGCATCCAGCTGTGCGCTTCAGAAGCTTGAATAAATAACGTTTCCTTTTCTGGCCAGAGTGTTCTGCTCTTTGAGGTGCTCTTTTATCAGCCAGACTTGAAATACCTGAGCTTCACCCCTCAGGAACTCTCTCGTGATGACATCAGGTCCCTCTGTGATGCCTTGAACTACCCAGCAGGCAACGTCAAAGAGCTAGCGCTGTAAATTGTACCTCTCACCCATTGATTGTGAAGTCCTTGCTGGCCTTCTAACCAACAACAAGAAGCTGACGTATCTGAATGTATCCTGCAACCAGTTAGACACAGGCGTGCCCTTTTGTGTGAAGCCCTGTGCAGCCCAGACACGGTCTGGTATACCTGATGTTGGCTTTCTGCCACCTCAGCGAGCAGTGCTGCGAATACATCTCTGAAATGCTTCTGCGTAACAAGAGCGTGCGCTATCTAGACCTCAGTGCCAATGTCTGAAGGACGAAGGACTGAAAACCTCTCTGCGAGGCC TTGAAACATCCGGACTGCTGCCTGGATTCACTGTGTTGGTAAAATGTTTTATCACTGCTGCTGGCTGTGAAGACCTCGCCTCTGCTCTCATCAGCAATCAAAACCTGAAGATTCTGCAAATTGGGTGCAATGAAATCGGAGATGTGGGTGTGCAGCTGTTGTGTCGGGCTCTGACGCATACGGATTGCCGCTTAGAGATTCTTGGGTTGGAAGAATGTGGGTTAACGAGCACCTGCTGTAAGGATCTCGCGTCTGTTCTCACCTGCAGTAAGACCCTGCAGCAGCTCAACCTGACCTTG AACACCTTGGAACACACAGGGTGTTGTACTCTGTGAGGCCCTGAGACACCCAGAGTGTGCCCTGCAGGTGCTCGGGCTGAGAAAACTGATTTTGATGAGGAAACCCAGGCACTTCTGACGGCTGAGGAAGAGAGAAATCCTAACCTGACCATCACAGACGACTGTGACACAATCACAAGGGTAGAGATCT**GTG**ATTGCGAGGAACCTGGGCTCTGACTCGAACA CCTGCAAAGGACAGGGACTGGGACCGTTACTTACATGACACTGCACCCAGGAGATACAAATCATTGATACTCTGA GTTGTGAGATTTCTGGCACCCATTCTAGATTTTGATATGATACACGTGGTTTTTATGTGCTCTGTGGCCTTGGA TGAGTCACTGAAAGGCCTTCATGGTCTCTCGGTCTCACAAGGACCTCTTAACCCCTCAATAAAGTGTTACATTTCTAAACATTGG

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FIGURE 5630

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWNITLRI
FQKMDRKDLCKVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIHLYFEEVKQEECDHLDRLFAPKEAGKQPR
VIIQGPQGIGKTTLLMKLMMAWSDNKIFRDRFLYTFYFCCRELRELPPPTSLADLISREWPDPAAPITEIVSQPER
LLFVIDSFEEELQGGLNEPDSDLGDLMEKRPVQVLLSSLLRKKMLPEASLLIAIKPVCPKELRDQVTISEIYQPR
GFNESDRLVYFCCFFKDPKRAMEAFNLVRESEQLFISICQIPLLCWILCTSLKQEMQKGDIALTCQSTTSVYSSF
VFNLFTPEGAEGPTPQTQHQLKALCSLAAEGMWTDTFEFCEDDLRRNGVVDADIPALLGTKILLKYGERESSYVF
LHVCIQEFCAALFYLLKSHLDHPPAVRCVQELLVANFEKARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQ
EIKQQIHQCLKSLGERGNPQGQVDSLAIIFYCLFEMQDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLR
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGLHRELQVQDSTLSESTFVTWCNQLRHPSCRLQKLGIN
NVSFSGQSVLLFEVLFYQPDLYLSFTLTKLSDIRSLCDALNYPAGNVKELALVNCHLSPIDCEVLGLLTNN
KKLTYLNVSCNQLDTGVPLLCEALCSPDTVLYLMLAFCHLSEQCCEYISEMLLRNKSVMRYDLDSANVLKDEGLK
TLCEALKHPDCCLDSLCLVKCFITAAGCEDLASALISNQNLKILQIGCNEIGDVGVLQVLLCRALHTDCLREILGL
EECGLTSTCCKDLASVLTCSKTLQQLNLTLNTLDHTGVVVLCEALRHPECALQVGLRKTDFDEETQALLTAE
RNPNLTIITDDCDTITRVEI

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FIGURE 5631

GTGGGGCGCGGGCAATGGAGCAGAGTATGGGAGAACGCGCTCGGAGTAAAGCACACGGCGCGGGCGAAGGCGTGGC
GGGAGTGTGCGGCGCCGGACCCGGGAAGCTGGCCTGGGCGCCGGGTCTCGAGTGCAGGCCCTTTGTTCTGAAGTGT
CCAGGCCGGCCTTGCGGGCGTCGGGACTGAGGAATGGAGCCCGTCGCGGGGCGGGGCGGGAAAGGAAGGTTCAAGT
CTCTCGGGTTGATGCGCAAGTTTCCGTCCCCATCGGCCGGACAGATTAGAATCCTTTTCAGGTGCTAGATGGCGGC
TGCAGAGGCTGTGCATCACATACACCTGCAGAACTTCTCACGCTCTCTGCTTGAGACCCTCAATGGGCAGAGGCT
TGGGGGACACTTCTGTGACGTGACTGTGCGCATTCGTGAAGCTTCGCTGCGTGCCACCGCTGCGTGCTGGCGGC
CGGCTCACCTTCTTCCAAGACAAGCTGCTGCTCGGCCACTCTGAGATCCGTGTGCCTCCGGTGGTGCCCGCGCA
GACAGTGCAGACAGCTGGTAGAGTTCTGTACAGCGGTTTCGCTCGTTGTGGCGCAGGGTGAAGCCCTGCAGGTGCT
CACGGCCGCGTCAGTGCTTCGCATACAGACAGTTATCGACGAATGCACGCAGATTATCGCCCGCGCTCGAGCCCC
GGGCACCTCTGCGCCACGCCCCCTGCCACCCCTGTGCCCCCGCCACTCGCACCTGCGCAGCTGCGTCACCGCCT
GCGCCACCTGCTGGCTGCACGTCCCCCGGGGACCCCGGTGCTGCACACAGCCGTAAGCAGCGCCAGCCCGCGCG
TTTGACAGCTGCCAGCGCCCCCAACACCTGCCAAGGCTGAGGGGCTGATGCTGACCCCTCACTGTCCGCGGCCCC
TGATGACCGAGGTGACGAGGATGACGAGGAAAGTGACGATGAGACCGATGGCGAGGATGGCGAAGGTGGCGGCC
AGGCGAGGGCCAGGCACCTCCTTCTTCCAGACTGTGCTGCTGGCTTCTCACTGCTGCTGCTGACAGCGCTG
CGAGGAGCCCCCTGCACCCACTGGCCTCGCTGACTACAGTGGTGCCGGGAGAGATTTTCTTCGGGGAGCTGGGTC
AGCTGAGGACGTATTTCCAGACAGCTATGTATCCACTTGGCACGACGAGGATGGCGCTGTCCCCGAAGGCTGTCC
CACTGAGACCCCTGTCCAGCCCGACTGCATACTGTCTGGATCCCGCCCGCCTGGTGTGAAGACCCAGGGCCGCC
CGTTGCACTCTTCCCCTTTCACTTGGGTGCCCTGGGCCACCCGCACCACCCCTTCAGCACCATCGGGGCCAGC
CCCTGCGCCCCCACCCGCTTCTACCCACACTCCAGCCCAGGCAGCCCCCAGTACTCAGCTGGGGGAGGTCCC
GGCTCCCTCTGCTGCTCCACACGCCCCCTCAGGCACCCCTGCTCGCACCCCAGGTGCTGAGCCACCTACGTA
TGAGTGCAGCCACTGTGCGAAGACGTTTCAGCTCCCGGAAAACTACACCAAGCACATGTTTCATCCACTCGGGGGA
GAAGCCGCACCAAGTGCGCCGTGTGCTGGCGATCCTTCTCTCTACGCGACTACCTGCTCAAACACATGGTTCACGCA
CACCGGCGTGCGCGCCTTCCAGTGCGCCGTCTGCGCCAAGCGCTTCACGCAGAAGAGCTCGCTCAACGTGCACAT
GCGCACTCACCGGCCCCGAGCGCGCGCCCTGCCCGCCTGCGGCAAGGTCTTCTCGCACCGCGCGCTGCTGGAGCG
CCACCTGGCGGGCGCACCTGCGCCCTGATGGCGCTGGGGCCTGGCCTCGCCCACGGTGGATCCGGGGCCTCCCGC
ACAGTCGGCCACGCCCCGCTGCGGGACCCGTGGTTCCCGCCACTAGACCACGCTCCCTCCTGAGCGCAGGTCCCTCT
CTCTCCCTTACCCCTTTCTCCATACCAGGGCCTAAGTCCGCCTTACTCCTCTCCTCCATGTACTTGAACCCCTCA
GGTGGTGCCGGGCTGGGGCTGGGGCTGGTTAGACCATTCTGAGAACTGGACTATTTCTGCGTAAACGGGCGC
TCAGGCGCTTGACCCGGCCCCAAGATTTGACTCCGGTTCTCACCCCGCCCTCTCCTGGGGTGGTGGTGGGGCTG
GGGGGCCGCTTGCTGCCCCAGGGTCAGGCTGGGCAAGGTCCCTAGCTCTCTACCCAAGCTGTTACTCCCTCATG
GGGCGCCTAAGGAGACTCAAGTGGACCCATCATATATGGGGGCTGGGCCTCGGGACTCTCGCTCTAATAAAGGAC
TGTAGGCCATGGGGCCTAAACCACGAAA

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FIGURE 5632

MAAAEAVHHIHLQNFSSRLLETNLNGQRLGGHFCDTVRIREASLRAHRCVLAAGSPFFQDKLLLGHSEIRVPPVV
PAQTVRQLVEFLYSGSLVVAQGEALQVLTAASVLRIQTVIDECTQIIARARAPGTSAPTPLPTVPPPLAPAQLR
HRLRHLLAARPPGHPGAAHSRKQRQPARLQLPAPPTPAKAEGPDADPSLSAAPDDRGEDEDEESDDDETGDGEDGEG
GGPGEGQAPPSFPDCAAGFLTAAADSACEEPPAPTGLADYSGAGRDFLRGAGSAEDVFPDSYVSTWHDEDGAVPE
GCPTETPVQPDCLSGSRPPGVKTPGPPVALFPFHLGAPGPPAPPPSAPSGPAPAPPPAFYPTLQPEAAPSTQLG
EVPAPSAAPTTPAPSGTPARTPGAEPPTYECSHCRKTFSSRKNYTKHMF IHSGEKPHQCAVCWRSFSLRDYLLKHM
VTHTGVRAFQCAVCAKRFTQKSSLNVHMRTHRPERAPCPACGKVF SHRALLERHLAAHPAP

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FIGURE 5633

GGCGGCGCGTGGTCTACGCCGAGTGACAGAGACGCTCAGGCTGTGTTCTCAGG**ATG**ACCGAGTGGGAGACAGCAG
CACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGAGCACCGATGATGTGCAGATCAATGACA
TTTCCCTGCAGGATTACATTGCAGTGAAGGAGAAAGTATGCCAAGTACCTGCCTCACAGTGCAGGGCGGTATGCCG
CCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGTGGAGCGCCTCACTAACTCCATGATGATGCACGGCCGCAACA
ACGGCAAGAAGCTCATGACTGTGCGCATCGTCAAGCATGCCTTCGAGATCATAACCTGCTCACAGGCGAGAACC
CTCTGCAGGTCCTGGTGAACGCCATCATCAACAGTGGTCCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGGA
CTGTGAGACGACAGGCTGTGGATGTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCG
CTCGTGAGGCTGCCTTCCGGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGG
GCTCCTCGAACTCCTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCGCT**TGAT**TTTCCC
AGCTGCTGCCCAATAAACCTGTCTGCCCTTTGGGGCAGTCCCAGCCAAA

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FIGURE 5634

MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKRFRKAQCPIVERLTNS
MMMHGRNNGKKLMTVRIVKHAFETIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSP LRRVNQA
IWLLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR

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FIGURE 5635

CAGAGGTTGTGGTGAGCCGAGATCACAGCACTGCACTCCAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAT
AAATAAATAAAAAATAAAAAATAAACATGATGATCACAGATGCAGTCACATTTTCTGAGTTCTTGTCTCTCTGCCA
GTGCCACCCAGATAGCCTCACAAAACCTTTGACCCAGCCACTGTTAGTGTGCGCCACCGCCCATAAAGGAGCTGAGC
CCAGCAGGGGCACTGCCTGGGGCCCTGTAGCCAAAAGGCTACAGCAGGAGCTGATGACCCCTCATGATGCCTGGTG
ACAAAAGAATTTCTGCCTACCCTGAAAGCCTTATCAAATGGACACCATCCATGAAGCAGCTGGCACAGTGTATGA
AGATCTGAGGTATAAGCTCTTGCTGGAGTTCTCAATGACTACCCACCTTTACGATGCACCCACAGTGAAGTTCC
TCACACCCTGCTACCACCCTAACGTGGACACCCAGGGTAACATATGCCTGGACATCCTGAAGGAGAAGTGGTCTG
CCCCGTATGATATCAGGACCATCCTGCTCTCTATCCAGTGCCTGCTAGGACAACCTCAACATTGATAGCCCTTTGA
ACACACATGCTACCAAGCTCTGGGAAAACCCCATAGCTTTAAGAAGTACCTGCAAGGGTCAGGCGCAGTGGCTCA
CACCTGTAATCCCAGCACCTTTGGGAGGCCGAGGTGGGTGGATGGATCACCTGACGTAGAGAGTCCAAGGCCTGAC
AAACATGGAGAAATGTCATCCCTATTTAAAAAATAAAAAAATTAGCCAAG

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FIGURE 5636

GACTCAGGTGAACTAACCTGCGAGAAGCTGGTTGTGCGCTGAGGCGACCAGCGCCGGAAGGCACGGTGGCGACTC
ACGCTGTTCTCGCCGCTCAGAGGCGGGTCTGAGGCTCGGTGGCGGCGCCAGGGTGGCCCGGGCCCTTTCTCTCGG
TCATTGTCTCCCTCCAGCTCTACTCACAGGCTCCGATGCGGGCGGCCGCCCTGAGGGACCCCGCTCAGGTTCTCT
GTGGCTGCAGACTTGCTTACAGACCATGAGGAGGGCTATGTGACCTTTGAGGATGTGGCTGTCTACTTCTCCAG
GAGGAATGGAGATTGCTTGATGACGCTCAGAGGCTCCTCTACCGCAATGTGATGCTGGAGAACTTTACACTTCTG
GCCTCTCTCGGACTTGCACTCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGGAGCCCTTCATGCCT
GCTTGGGAAGTTGTGACTTCAGCCATACCGAGAGGTTGTTGGCATGGAGCCGAGGCTGAGGAGGCTCCTGAGCAG
ATTGCTTCTGTAGGACTGCTCAGTTCAAACATTTCAGCAACACCAGAAGCAGCACTGTGGAGAGAAACCCCTTAAAA
AGACAACAGGGCAGGGTCCCAGTTTTTGAGGAGTTGCAAGTTTCACCTATCAGAGAAGTCCTTGCAAAGCAGGGAG
GTTGGGAAGGCCCTCCTGATCAGCTCAGGTGTTCTCAAGCACCAGGTGACTCACACAGGAGAGAAGTCACATAGG
AGCTCCAAAAGTAGGGAGGCCTTTTCATGCTGGAAAAAGGCATTACAAATGCAGTGAATGTGGGAAAGCCTTTGGT
CAGAAATATTTACTTGTTCAGCACCAGAGACTACATGCTGGGAAAAAGACGTATGAATGCAGTGAATGTGGGAAG
TTATTTAGAGATATGTCCAACCTTTTTATACACCAAATAGTTTCACACTGGAGAAAGGCCTTACGGGTGTAGTAAC
TGTGGAAAATCCTTTAGCCGTAATGCTCACCTCATTGAACACCAGAGAGTTTCACACTGGAGAAAAGCCTTTTACA
TGCAGTGAATGTGGAAAAGCTTTTCAGGCATAATTCCACACTTGTTTCAGCATCACAAAATCCACACTGGAGTAAGG
CCTTATGAGTGCAGTGAATGTGGAAAATTGTTTAGTTTCAACTCCAGCCTCATGAAACATCAGAGAGTTTCACACT
GGAGAAAGACCTTATAAGTGCAGTGAATGTGGAAAATTCTATAGCCACAAGTCCAACCTTATCAAACATTGGCGT
GTTTCATACTGGAGAAAAGGCCTTACAAGTGCAGCGACTGTGGGAAATTTTTTACCCAATGCTCAAGCCTCATGCAA
CATCAAAAAGTTTCACACTGGAGAAAAGCCTTTTAAGTGAATGAATGTGGGAGATTCTTTAGAGAGAATTCCACC
CTAGTTAGACATCAGAGGGTTCACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGTGGGAAATTTTTTAGCCAA
AGCTCAACCCCTCATGCAACATCGAAAAGTTTCACATTGGAGAAAAGCCTTTTAAGTGAATGAATGTGGGAGATTG
TTTAGAGAGAATTCCAGCCTTGTTAAACATCAGAGGGTTCACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGT
GGGAAGTTTTTTCGCCACAACCTCCAGTCTTTTTAAACATCGAAGGATTCACACTGGAGAAATGCAGTGATTGTGT
GAAATCCTTTAGCCAGCGTTTCAACCTCATTCAACACCAGAAAAGTTTCAGAGTGGAAAAATCTTGAAGGTAACAG
ATGGAAATCCGTTAGCCACACCTCCAGTCTCATTCAACACTGGACAGTTTACAATGTGGACAATGTAGTGAATAT
GGAAAAAGGTTTCAGCCAAAGGCCTAACCTATTCAACACCAGAAAAGTTTAGAATGGAGAAAGGCCTTAGGGTGA
CAGGTTATGTACTGTCTCTGAATCAATATGACCTCACTTAAAAACAGAACTCTGAGGATGGCCTTTATGAGGGAG
CTGGCAATTGAACATCATTCTAATATGCACACTGGAGGCAAGATGAGAATTCCTGACAGATTGTCCTTCCT
GAGAAGACAGCCCTCTGCCTTGGAGCTCCAGAGAGAGGGAGCCCTGTATTCTTGGCTGTACCCGTCGAATGGAGT
TTTGATCTCGCTGAGTTTGGAGTTGGGGGAGGAAAGGAGTGGTCTTGGTTCAAATGTGACTCACTTTTGCTGTTT
TTGTGAATGTTAGATCTTCTTTAATAAATATTTATTTCCCATACACCCTTATGACCATTAAAAAAAAAAAAAAAA
AA

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FIGURE 5637

MAAAALRDPAQVPVAADLLTDHEEGYVTFEDVAVYFSQEEWRLLDDAQRLLYRNVMLNFTLLASLGLASSKTHE
ITQLESWEEFFMPAWEVVTSAIPRGCWHGAEAEAEPEQIASVGLSSNIQQHQKQHCGEKPLKRQQGRVPVLRSC
KVHLSEKSLQSREVGKALLISSGVLKHQVTHTGEKSHRSSKSREAFHAGKRHYKCSECGKAFGQKYLLVQHQR LH
AGKKTYECSECGKLF RDMSNLFIHQIVHTGERPYGCSNCGKSFSRNAHLIEHQRVHTGEKPFTCSECGKA FRHNS
TLVQHHKIHTGVRPYECSECGKLF SFNSSLMKHQRVHTGERPYKCSECGKFYSHKSNLIKHW RVHTGERPYKCS D
CGKFFTQCSSLMQHQKVHTGEKPFKCNECGRFFRENSTLVRHQRVHTGAKPYECRECGKFFS QSSTLMQHRKVHI
GEKPFKCNECGRLFRENSSLVKHQRVHTGAKPYECRECGKFFRHNSSLFKHRR IHTGEMQ

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FIGURE 5638

GTGCGATCCCGGGCCCGAGGGCATCAGACGGCGGCTGATTAGCTCCGGTTTGCATCACCCGGACCGGGGGATTAG
CTCCGGTTTGCATCACCCGGACCGGGGGCCGGGCGCGCACGAGACTCGCAGCGGAAGTGGAGGCGGCTCCGCGCG
CGTCCGCTGCTAGGACCCGGGCAGGGCTGGAGCTGGGCTGGGATCCCGAGCTCGGCAGCAGCGCAGCGGGCCGGC
CCACCTGCTGGTGCCCTGGAGGCTCTGAGCCCCGGCGGCGCCCGGGCCACGCGGAACGACGGGGCGAGATGCGA
GCCACCCCTCTAGCTGCTCCTGCGGGTTCCCTGTCCAGGAAGAAGCGGTTGGAGTTGGATGACAACTTAGATACC
GAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAGCCCAGACTGCCCCCTGCCTGTTGCCCCCTGAGCCCA
CCTACTGCTCCAGATCGTGCAACTGCTGTGGCCACTGCCTCCCGTCTTGGGCCCTATGTCTCTCTGGAGCCCGAG
GAGGGCGGGCGGGCCTACCAGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCCGTCCAG
GAAGCCCCGGCGTGCTGGAGCCCTATGCGCGGCTGCCCCCGCACAAAGCATGTGGCTCGGCCCCACTGAGGTCTTG
GCTGGTACCCAGCTCCTCTACGCCTTTTTTCACTCGGACCCATGGGGACATGCACAGCCTGGTGCAGCCGCCAC
CGTATCCCTGAGCCTGAGGCTGCCGTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTCAACGACGCGT
CTGGTCCCTGCGTGATCTCAAGCTGTGTGCTTTGTCTTCGCTGACCGTGAGAGGAAGAAGCTGGTGTGAGAAC
CTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCCTGTGGGACAAGCACGCGTGCCAGCCTACGTGGGA
CCTGAGATACTCAGCTCACGGGCCTCATACTCGGGCAAGGCAGCCGATGTCTGGAGCCTGGGCGTGGCGCTCTTC
ACCATGCTGGCCGGCCACTACCCCTTCCAGGACTCGGAGCCTGTCTGCTCTTCGGCAAGATCCGCCGCGGGGCC
TACGCCCTTGCCCTGCAGGCCTCTCGGCCCCCTGCCCCGCTGTCTGGTTGCTGCCTCCTTCGTGCGGAGCCAGCTGAA
CGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATGCCCTTAGCCCCAACCCGATCC
CATCTCTGGGAGGCTGCCAGGTGGTCCCTGATGGTCTGGGGCTGGACGAAGCCAGGGAAGAGGAGGGAGACAGA
GAAGTGGTTCTGTATGGCTTAGGACCACCCTACTACACGCTCAGCTGCCAACAGTGGATTGAGTTTGGGGGTAGCT
CCAAGCCTTCTCCTGCCTCTGAACTGAGCCAAACCTTCAGTGCCTTCCAGAAGGGAGAAAGGCAGAAGCCTGTGT
GGAGTGTGCTGTGTACACATCTGCTTTGTTCCACACACATGCAGTTCCTGCTTGGGTGCTTATCAGGTGCCAAGC
CCTGTTCTCGGTGCTGGGAGTACAGCAGTGAGCAAAGGAGACAATATTCCTGCTCACAGAGATGACAACTGGC
ATCCTTGAGCTGACAACACTTTTCCATGACCATAGGTCACTGTCTACACTGGGTACACTTTGTACCAGTGTGCGC
CTCCACTGATGCTGGTGCTCAGGCACCTCTGTCCAAGGACAATCCCTTTACAAACAAACCAGCTGCCTTTGTAT
CTTGTAACCTTTTCAGAGAAAGGGAGGTATCCCTGTGCCAAAGGCTCCAGGCCTCTCCCCTGCAACTCAGGACCCA
AGCCCAGCTCACTCTGGGAACTGTGTTCCAGCATCTCTGTCTCTTGATTAAGAGATTCTCCTTCCAGGCCTAA
GCCTGGGATTTGGGCCAGAGATAAGAATCCAACTATGAGGCTAGTTCTTGTCTAACTCAAGACTGTTCTGGAAT
GAGGGTCCAGGCCTGTCAACCATGGGGCTTCTGACCTGAGCACCAAGGTTGAGGGACAGGATTAGGCAGGGTCTG
TCCTGTGGCCACCTGGAAAGTCCAGGTGGGACTCTTCTGGGGACACTTGGGGTCCACAATCCAGGTCCATACT
CTAGGTTTTGGATACCATGAGTATGTATGTTTACCTGTGCCTAATAAAGGAGAATTATGAAATAAAAAAAAAA
AAAAAA

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FIGURE 5639

MRATPLAAPAGSLSRKKRLELDDNLDTERPVQKRARSGPQPRLPCLPLSPPTAPDRATAVATASRLGPYVLE
PEEGGRAYQALHCPTGTEYTCKVYPVQEAPAVLEFYARLPPhKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRS
RHRIFEPEAAVLFRQMATALAHCHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSCVLTGPDDSLWDKHACPAY
VGPEILSSRASYSKAAADVWSLGVALFTMLAGHYPFQDSEPVLFFGKIRRGAYALPAGLSAPARCLVRCLLRREP
AERLTATGILLHPWLRQDPMPLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG

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FIGURE 5640

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCGCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTTCCGG
CCCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCTTGAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTTCCCCGCTTCTTCCACCTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCAGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTACCGGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCTCCAGGCGACCCGGAGGTAGCATTTT
CCAGGAGGCACGGTCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTACCATCTGGCTCAGAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCACCAGTCTTGACAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGGTGCAGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTGAGCCCGCAA
CACCTCCCTCAACCCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGGTCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGGCCGGGTGCACCTTCATCAACAAGCCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCCTACCAGGTCCCGCCTCATACCAGCCGACGAGGA
GGAGCGAGCGCGCTGGCGGGCGAGGAGGAGCGCTGCGTCAGTACCAGCAGCGGAAGCAGCAGCAGCAGGAGGG
GAACTACCTGCAGCACGTCCAGCTGGACCAGAGGAGCCTGGTGCTGAACACGGAGCCCGCCGAGTGCCCCGTGTG
CTACTCGGTGCTGGCGCCCCGGCGAGGCCGTGGTGCTGCGTGAGTGTCTGCACACCTTCTGCAGGGAGTGCCTGCA
GGGCACCATCCGCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCATTGACAACACCTACTCGTGCTCGGGCAA
GCTGCTGGAGAGGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCAT
TGCTGAAAACCGCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGCTTCTTTGAGGATGA
TGTCAATGAGTTCACCTGCCCTGTGTGTTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAA
CTGCAAGGAGTATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCT
GAAGGTGATGCTGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTG
CGACTGGATCCGCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGG
CCCAGGAGACACCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCCCTTGCCACCCAAGCTGTGAGAACTGCCA
CTGAGCTAAAGATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGC
TTCGTGGACGGCCTTGCTTGCTGTAGCGTTGTAGGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCC
CCAGTGCCTTTGTCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCCTGCGGCTCCCACCTCTGCCTGACCC
CAGCCTTAAACATAGCCCCTGGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCCACCAC
AACACTCATCTGTCAAACACCAAGCACTCTCAGCCTCCCCGCTTCAGCTGTCAGCTTTCTGGGGCTAACTTCTC
TGCCTTTGTGGTTGGAGGCCTGAGGCCTCTTGGAACCTCTTGCTAACCTGTTGAGAGCCAGGAAGGAGACTGCACA
GTTTTGAAAGCACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAA
ATGGTTTTCCGGGAA

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FIGURE 5641

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQREERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQRKQQQQEGNYLQHVQLDQRSVLNTEPAECPVCYSVLAPGEAVVLRECLHTFCRECLQ
GTIRNSQEAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFLDLGISIAENRSAFSYHCKTPDCKGWCFFEDD
VNEFTCPVCFHVNCLLCKAIHEQMNCKEYQEDLALRAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGC
DWIRCTVCHTEICWVTKGPRWGPGGPGDTSGGCRVNGIPCHPSCQNH

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FIGURE 5642

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTGCGCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCGCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGGGGCGCTCCCAGCAAGTG
GGGGTCTTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCGGGCGCCGCTCCTTTCCCCGCTTCTTCCACCTCGGC
TGGTCCCGTTTCTCCTGCGCCAGTGCGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTCACCGGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCTCCAGGCGACCCGGAGGTAGCATTTT
CCAGGAGGCACGGTCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCACCAGTCTTGACAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCCTGCACTCCCATGGGGTGGCGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTACGCCGCAA
CACCTCCCTCAACCCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCCAAAGCCCGGGGTCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTCCCCCGGTGCACCTTCATCAACAAGCCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCCTACCAGTCCCCGCCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCTGGCGGGCGAGGAGGAGGCGCTGCGTCAGTACCAGCAGGGAGTGCCTGCAGGGCACCATCC
GCAACAGCCAGGAGGCGGAGGTCTCCTGCCCCCTTCAT**TGACA**ACACCTACTCGTGCTCGGGCAAGCTGCTGGAGA
GGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTCTTAGACCTGGGCATCTCCATTGCTGAAAACC
GCAGTGCCTTCAGCTACCATTGCAAGACCCCAGATTGCAAGGGATGGTGCTTCTTTGAGGATGATGTCAATGAGT
TCACCTGCCCTGTGTGTTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAACTGCAAGGAGT
ATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCTGAAGGTGATGC
TGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTGCGACTGGATCC
GCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGGCCACGCTGGGGCCCTGGGGGCCAGGAGACA
CCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCCCTGCCACCCAAGCTGTGCAACTGCCACTGAGCTAAAG
ATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGCTTCGTGGACGG
CCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCCCCAGTGCCTTT
GTCCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCCTGCGGCTCCACCTCTGCCTGACCCAGCCTTAAAC
ATAGCCCCCTGGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCCTCCCACCACAACACTCATCT
GTCAAACACCAAGCACTCTCAGCCTCCCGCCTTCAGCTGTCAGCTTCTGGGGCTAAGTCTCTGCTTTGTGG
TTGGAGGCCTGAGGCCTCTTGGAAGTCTTGCTAACCTGTTGAGAGCCAGGAAGGAGACTGCACAGTTTTGAAAGC
ACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAATGGTTTTCCG
GGAA

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FIGURE 5643

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQREERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQGVPA GHHPQQP GGGGLLPLH

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FIGURE 5644

GACGATGGGGCTGCGTGCAGGAGGAACGCTGGGCAGGGCCGGCGCGGGTCGGGGGGCGCCCGAGGGGGCCCGGGCC
GAGCGGCGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCT
CATCCGGCCGCTGCCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGAGCCAGA
CAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGCCCAGGGAGGTGACTACTTCTACTCCTTTGGGGGGCTG
CCACCGCTACGCGGCCTACCAGCAACTGCAGCGAGAGACCATCCCCGCCAAGCTTGTCCAGTCCACTCTCTCAGA
CCTAAGGGTGTACCTGGGAGCATCCACACCAGACTTGCAGTAGCAGCCTCCTTGGCACCTGCTGCCACCTTCAAG
AGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGCAGGGGTGCATTCTCTTTGCAC
CTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCAGCTACAAGGCCTTGGACTCACTGTACAGTGTGGGAGC
CCCAGTTCCCACCTCTGTGACAATAGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGG
GCTTGAAGAGCCACGTGCTGCCGGCTCCAAATTCCCAAGGACAAGGATCCCTCTGCATTTTTGTCTATGTAACCT
CTTATATGGACTACATTAGCTGCAAGGAAAGGAAAACCTTGATTGCAGTGGTTTAAACAAACAGAAGATTGTTT
TTCCACATAGCATGGATTCTGGAGATGGGTGGCTAATGGTATTGGTTCAACAACCTCCACGAAGGTAGGGGTACG
TCTTGGATCCTTTTGCCTTAATCTCAGTGCTCGTTACTTCATGGTCCCAAGATGGCTGCTGTATCCCCAAGAATC
ATGTCTGCGTTCAAGGAAGGAGGGGTGGAGGAAGAGGAAGGGCCAAACTAGCTGGACCCGTCACCTTCTATCAGA
AAGTAAACCTCGTCAGAAGTCTGTTTCCTGCTCTCTCCCTCTGCATATCTTCACTTAGATGCCCTTGGCCCGAG
CCAGCTACCATTCACCTCTAGCTGCAAACAAAGCTAAGACAGCAGGGAACAGAATTGTATGGCTGAATAGACC
AATCGTGTTCATCTACTGAGACTGGCACACTGCCTCCTGCAATAAACTGGGATCCCATTACCAAGAGAGAAAT
GCAGAATTGTGTACCAGTTAGCTTTTGCTGTGTAAACAAACCATCCCCAACTTGGCAGCTAGAAACAAACCTGT
ATTTTCCCACAATCCTATGGGTGGCAATTTGGGCTGGGCTCAACAGGGCAGTTCTGCTGCTCACACCTGGGATC
CCTCATGGAGCTAAGGTCAGCTGTTACCTCAGCTGGGCCTGGATGGTCTAGGATAGCCTTACTCACTTGCCTGGC
AGGTGACAGGCTGTTGGCTGGAATTGCTTGGTTCTCTCCATGTGGCCTCTCCAGCAGGCTAGCTCAGGCTTATT
CACATGATGGCTTCAGGATTCCAAAGAGAGTGAGAGTAGAAGCTGAAAGACTTCTTGAGTTCTTGGCCTGGAAC
GGGACTAGGACAGTGTCACTTCTGCTAAGTTCTTTGGTCAGAGCAAATCACAAGGCTTTACCCAGATTCAAGGG
ATGAGAAACAGACTACATGTCTTGATGAGGGGAACCACAAAGAGCTTGTGGCCATTTTTACCTATCACAAATAA
TTTTGGATGGGTATTTATTTGGATAAAGGTATTTCCCTCTTCCCCCTTTCTCTGTCTCATGGGGCCTCACTCT
GCCAAGTTGGAAGGCACTAAGACATTGTCCTGGCCCTCAGGGTCTAGGGGAAGAGGTGTTGGGGCAGGAAGTGAG
TCTCTCCATGGGCTGGACCCACTGTAGTAGGAGTGCTCCTTGTCTGCACTGCTGGTATGGGGTTAGGCCAGGTA
GGACATTCCAGAGGGGCTTCTGAAAACCAAGAGTCCCTGGGGAAAGGGAACAGAGTAAGGCAGGCCTTGTCTCA
CTGCCCTCTAAGGGAACTTGGTCACTCGGCACTTTTAAGCCTCAGTTTCTCCAGTTCAATAATAAGGACAAGAGC
TTTTCCCATGCATTCTCTTTCCCCGGGAAAGTTGACTGAGGTGACCAGTAATAGAATTGAAAAGGGAGAGTGTCT
TCAGTGCAATGTGGCATCCTGGATTGGGTCTTGAACAAAAACAGGACATTAGTGGGAAAATTGGAATCTGAAA
AAAGTCTGAATTTTAGTTAATATACCAATTTAGTCTCTTGGTTTTGACAGATGTACCATGGTGTATGTAAGATGT
TGACCTTGGGGTAGGCTGGGTGAAGGTATACAGGAACCTTTGTACTATCTCTGCAACTTCTCTGTAAATCTAG
TATCATTCCAAAATAAAAGTTTATTTAATTT

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FIGURE 5645

MGLKSHVLPAPNSQGQSLCIFVYVTSYMDYIQLQGKENLDCSGLNKQKIVFPHSMDSGDGWLMLVLVQQLHEGRG
HVLDPFALISVLVTWSQDGCCIPKNHVCVQGRRGGGRGRAKLAGPVTFYQVKPRQKSVSCSLPLHIFT

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FIGURE 5646

GTCTGAGCGCGCTCGGCTTTTTTTTTTTTTTCTCTCTCCTTCCCTGCAGCAGTGGCCGGTGTCCAGCTGCCTACT
TTCTGCCCCGATCTCTGGCTCCTCATCTCTCCGGTCTCCGCAGACTAAAGCCCTCGGGATATGCAGCAGCCATGC
CTGTGCACACGCTGAGCCCCGAGCCCCGTCCGCCCCCGCCCTACCTTGCCGCCTGCGGACCAGGGTCCCTGGCT
ACCTGCTACGGGGGCCGGCAGATGGTGGAGCCCCGAAACCGAGCGCTGTGGAGCGCCTGGAGGCCGACAAGGCCA
AGTACGTCAAGAGCCTGCACGTGGCCAACACCCGCCAGGAGCCTGTGCAGCCCCCTGCTGTCCAAACAGCCGCTCT
TTAGCCCTGAGACTCGCCGCACAGTGCTCACGCCAGCCGCCGAGCCCTGCCTGGCCCCCTGCCGACGGCCCCAGC
TGGACCTGGACATCCTCAGCAGCCTCATCGACTTGTGTGACAGCCCCGTGTCCCTGCCGAGGCCAGCCGCACTC
CTGGACGGGCCGAGGGAGCCGGCCGTCTCCCCAGCCACCCCTCCGCGACCGCCGCCAGTACCTCTGCGGTCC
GCCGGGTGGACGTCCGCCCCCTGCCCGCCTCGCCTGCCCGGCCCTGCCCATCACCCGGCCCTGCCGCCGCCTCCA
GCCCAGCCCCGGCCGCCGGGTTTGCAACGCTCCAAGTCGGACTTGAGCGAGCGCTTTTCTAGGGCAGCCGCTGATC
TCGAGCGCTTTTTTAACCTCTGCGGCCTGGACCCGGAGGAGGCGAGAGGGTTGGGTGTGGCCACCTGGCACGGG
CCAGCTCGGATATCGTGTCCCTGGCAGGGCCAGTGCTGGGCCGGGCAGCTCTGAAGGGGGCTGCTCCCGCCGCA
GCTCGGTGACTGTTGAGGAGCGGGCCCCGGGAGCGCGTTCCCTATGGCGTGTCCGTGGTGGAGCGCAATGCCCGCG
TGATCAAGTGGTTGTATGGGCTAAGGCAGGCTCGGGAGAGCCCAGCAGCTGAAGGCTAGGCGCCACTGGGCCTGG
AATTCGCCACAGGACGGATCTTACAGAGGCAAGTGGTCCCTGGACCTCTCTTGCAATCCATTCTCTAGACGGCCGT
GTCAGAGGCTCCACCCTGTTGTGAACCTGGTATGGAGGCAAAGGCTTAGAGGCTGGACCAGCATTGTTGGGCAAG
GACTGACTCTCCAAGGGTTTTGTTCTTGGCTTTGGACACCTGAGAACCCCTCCTCCCCTCCCCAATAACAAGGT
TTTTGACATGAGTGACTCCTGCTTAGTTCTCTTGTGGGGCTGCATTTGCGGTGCTTTGCCCTCCCCACTGTGA
GTGAGGGGCCAAGGGATCTCTCAATCCTGTCTCCCCAGCGGCTCTGTTTCCTCCTTCCTTCCTTGGCCTCTGTC
CTTTGCTGACTTCCTCTTCCTTACCCAGCAGAACTCACCTGGGGTCGGGGCAGTGGGGAGGGGCCTATCCACTG
CTCTTCCTAGTCCTTGGCAGCTGGCCTAGGTGGGCAGACTATAGGAGGGACTGGTTAGGAGTCTGCATTGCTTTG
ACTTCCCTCTCCTTGGTTAATAAACACAAATGCTTGTTTCTC

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FIGURE 5647

GCAAGAACCAGCGCAAGAGGGAAGCAGAGTTATAGCTACCCCGGCCGCGGAGCCGGCTCACTGCACTACCCCGC
CCCCTTCTTTCTCCAGACGCCGAAGTCGCGGGCGCTCATGGCGGGCCTGGAGGTACTGTTTCGCATCGGCAGCGC
CGGCCATCACCTGCAGGCAGGACGCGCTCGTCTGCTTCTTGCAATTGGGAAGTGGTGACACACGGTTACTTCGGCT
TGGGTGTCGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGGAACAACAATAAAG
ACCTGTATGTCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTCCTTGTAAGGCCATCACCGTGGAGAGCA
GCATGATCCTCAATGTGCTGGAATATGGCTCACAGCAAGTGGCAGACTTGACCCTGAACTTGATGATTATATCG
ATGCAGAACACCTGGGTGACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAA
TCATCACACCTATCCATGAGCAGTGGGAAAAGGCTAATGTAAGCAGTCCCCACCGGGAGTTCCCCCTGCTACCG
CCAGAGAGGTGGACCCACTCCGGATTCTCCACACCACCCACACACCAGTCGGCAGCCTCCCTGGTGTGATCCCC
TGGGCCCGTTTGTGTGTCGGGGGAGAAGACTTAGACCCTTTTGGGCCTCGGAGAGGTGGCATGATTGTGGATCCCC
TGAGATCTGGCTTCCCAAGAGCACTTATTGACCCTTCTCAGGCCTCCCGAACCGACTTCTCCAGGCGCTGTGC
CCCCAGGAGCTCGCTTTGACCCTTTGGACCCATTGGGACCAGCCCACCGGACCTAACCCAGACCATCTCCCC
CGCCGGGCTACGATGACATGTACCTGTGAAGGCCTCAAGAATGTAACATCCCAGGCTTCCCTCCATTCTCTGGA
GCTGCCACCGCTGTCCCCATCAGCAACCATGTTCTTGCAAGGCTGGGGGCAAGGGATTCTGCTCATGTGTTTGCAG
ACCGGCTGGGATAGCCTCCCCACCCCTTATCAGAGCCAAGACACCTGCTGCAGCTCTCCACCTAGCTGCAGATAG
CTCCCAAAGAGAAATCAGTGTGTCTCTTTACCATCAGCTCCTCCCCTTTTACCACCAGCTCCTCTCCACTTCCC
AAGGGAGACTCCGGCAACCTTCAGCAACATATATCCTCGACCAGATGCAGTGTCTATAAGAACAGAACGCATTTTG
GATGTTATTATTAAGAACCAAATGTCAATACAGAATTCAATGTTGCCGTTTCCCCTTTCTTTTACATTAATG
CATAGCTGCTTCCATTTATGAGACTTTAGAGTTTGAGTTTCTGTAGGGCTGAATGACTCTTTTCTGCCCAGGG
CCCATTCTTGCTTCTCAGGCACCTTCCGTTTATTAATTGCCATTGCTCCTGACATCACTAAGATGGGTCCCCTTC
TGGCTGCATGAATGGAATGAGTGACTGGAATCCCATAGGCCACAAGAATGACTTTCACAAGGGCAGGAACATT
GTGGAAGACTGCATCATTCTGATGAGGCAAAATCCTCCAGCTATTCTGTCTGGGCCAGTTTGTAGGTCCATC
TGTGCATGGGCAGCAGTAGTCAAAAAGCCAAGGAAAAACAGAGCAGACCTGAAGGCTAATCTTATTTTGGCCAC
TAACTTAGTGAAATGACCCTAAGCAAGTTTCTTCTCTTAGGGCCTTGTGCCAAGCCTATGAAATTGGAGGTGG
CTTCTCTGCTCTAAAGCATTTTGTATGTCTCATTCTGTGTTTGGTAACCCCTATAAACTGGGGCAGAGGAAAAGAA
TGATGTTTCAAGGCCATACTTCCCTTGAACCTTGTGTGTTTCTTGCTAATCTGTGGTTTTGGACCCCATGGG
GCCCAGACAGAGCACAGGAGCATGGGCTGCCTCTGAGTGTGGTGTGTAACCTTCGGGAGGAGCAGGGAGCCCTGCA
CCTTGTGTCTGGCCACCTGACCTTTGGTGTCTCCGGATCCTTTTCAGCCCGAGGCTGACAGACGCGGGCAG
TGATGAGCCCTGTTCTGGAGTGGAAGAGCACGATAGAGCACCAGGCTAAGAGGCACGAGATCAAGGCGGTAGTC
ACTTCCGCTCTGCAGCTAGCATTTCAACCATATGTGGATCCTTTTCACTTCTCAGCTCCCTGGATTCTTCCCCTA
AATTAGGACCTATTATTTACCTGTAGGTAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTGCCAGGCTGTTTTCT
GTAGCCTCAGATTGCCTATCTGCTTAGCCTGAGAACAGGTAGATGAAAATAAACTGATGCCTAGGCCAGGGTC
AGTCTCAGATGGAAGCTGGGCCTGGGTGGGGAGGCTAGCATGCGTGGCTCCCTGGGTATTTCTGTCAGTCCCAT
GGCAAGCAGTGATTTAGTAAAACACCCAGAGTCAGGGAAGCCAACCACCTTGAAACCTTTAGAACATCTCTGCT
TTGGAGAAAGACCCAGAGATCAGGCAGAGGTGCAGATTCAATCATTACTCATAACCTTTGAGAGATGGCAAATGG
GAGGAGTGTTAGTCTTTGTTTTGGAATTGGACCATTCTTGCAACCAAAAGGACTTAGAGCAGTTTGCTCATAAAG
ACATCCTTTATTATAAAAGGAAGTATTTAAAGGATGATAGAGACCATCAGATAGAAGCAGGGAAGGTAGATAACT
TTTAGGACCTTGATGTGAGGAAAAGATAAAATTTAAACAATAAATTTGCCACTTAGATTTTCTAGCAGCAAAGTC
CGAAAAGATAGTTATATACAAAATTCTGTTTTCTGAAAACAAAATTGTGATTACCTTCAGAATTGGCCATTTT
TTTGTGAGTTTCTTGCATCAAGGACACTGAGAAACACAGTCATTGTCTTAGGTGTTCTATGGGAGGAAGTGAAT
AGAGCCTTTAGGAACTTCTGGTCAAGCTTATGGTGCTTATTTTGATCTGGGCCACTTCCCTCCTTCCAGTCATG
AGTAATCATCAAGGAGCAAGTTGGAGTGTTTCAGGTGTATATTTGTAGAACCCAAAAGATTGGAGCCTTAACAA
TAAACATCAGCACT

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FIGURE 5648

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCCCCGCGCTCAGCGTCCGCCGCCGCC**ATGGG**AGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCCTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCCCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTGAGAGAGCCAAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAACCTGGAA**TGAC**AGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGACATGTGCACATGAGTCCATATGGAGCTT
TTCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCACTCAGCTTTGCTTCCG
ACACCTCTGTTTCTCTTCCCCCTTTCTCCTCGTATGTGTGTTTACCTAAACTATATGCCATAAACCTCAAGTTAT
TCATTTTATTTTGTTCATTTTGGGGTGAAGATTCAGTTTCAGTCTTTTGGATATAGGTTTCCAATTAAGTACA
TGGTCAAGTATTAACAGCACAAGTGGTAGGTTAACATTAGAAATAGGAATTGGTGTGGGGGGGGGTTTGAAGA
ATATTTTATTTTAAATTTTGGATGAAATTTTATCTATTATATATTAAACATTCTTGCTGCTGCGCTGCAAAGC
CATAGCAGATTTGAGGCGCTGTTGAGGACTGAATTACTCTCCAAGTTGAGAGATGTCTTGGGTAAATTAAG
CCCTACCTAAAACCTGAGGTGGGGATGGGGAGAGCCTTTGCCTCCACCATTCCCACCCACCTCCCTTAAACCCT
CTGCCCTTGAAGTAGATCATGTTCACTGCAATGCTGGACACTACAGGTATCTGTCCCTGGGCCAGCAGGGACCT
CTGAAGCCTTCTTTGTGGCCTTTTTTTTTTTTTCATCCTGTGGTTTTTCTAATGGACTTTCAGGAATTTTGTATC
TCATAACTTTCCAAGCTCCACCCTTCTAAATCTTAAGAACTTTAATTGACAGTTTCAATTGAAGGTGCTGTTT
GTAGACTTAACACCCAGTGAAAGCCCAGCCATCATGACAAATCCTTGAATGTTCTCTTAAGAAAATGATGCTGGT
CATCGCAGCTTCAGCATCTCCTGTTTTTTGATGCTTGGCTCCCTCTGCTGATCTCAGTTTCTGGCTTTTCTCC
CTCAGCCCCCTTCTCACCCCTTTGCTGTCTGTGTAGTGATTGGTGAGAAATCGTTGCTGCACCCTTCCCCCAGC
ACCATTTATGAGTCTCAAGTTTTATTATTGCAATAAAAGTGCTTTATGCCGGCTTTTCTCAAAAAAAAAAAAAAA
AAA

6116/6881
FIGURE 5649

MGVQVETISPGDGRTFPKRGQTCVVHYTGML¹EDGKKFDSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

6117/6881
FIGURE 5650

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCGTCGCGCC
GCCCCGCCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCCTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTCAGAGAGCCAAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAACCTGGAATTGACAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAAGGGCCCTTCACTGCCTTTGCTCCTCCCATGTTATGCCC
AGCGTTTGATGGGTAGCAGAGAGAAACAAAAACACCACAAGGCTATTTTTCCCCCTGCATTCTTTCTGTATTGAG
TATCCTTTCAGTGTTATTAGTGTATGCTTTGAATGTAAAAATTGGTCACCCTAAGGAAAGGAATTGGCATGTGTA
TGTTCCCAGTTCAACTCATGGAGATGGCAGCTGTTTAAATGTTTTTCTATGTAGTTTATAAATTAAACTGAATT
GAGGACTATGGAAATGTAGGCCAAATTTGTAGTGCCAACATTTTAGTTCTTTGGAAATAA

6118/6881
FIGURE 5651

MGVQVETISPGDGRTFPKRGQTCVVHYTGMLEDGKKFDSSRDNRNKPFFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPIPPHATLVFDVELLKLE

6119/6881
FIGURE 5652

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCAGCCAAGATGTTTCATGTAGTATTGAAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCCGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTCATCGTGCAGCGGTAAACATAACC
GCCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTCTTCTCCTTAGTTGCATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5653

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLKGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGEKRQHSSQDVHVVLKLWKSGFSLDNGELRSYQDPSNAQFLESIRRGEVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSILIDSEPTTNIQI
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFILMTTFPNKELADESQTLEANLLNAVIVQRLT

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FIGURE 5654

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAACTCCAAACAAGCAGAAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGGCCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCCAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCT
CCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 5655

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREKRVLGILVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMPQAPAGLAGPVRGVGGPSQQVMTPQGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 5656

GGCACGAGGCTTCTGGCCTTCTCCTGTCAGCAGTTCCTCAGTCAACATGTACTTCAGATCTTCCTGGGCTTATGT
GCAGAAAATCACTTCCATCCAGGGAATTCTAGCCCAGGGCATTGGAAACAGCAGGGGCAGCAGTATTCCCATGTA
AGCTGTTGGTTTGAAGATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAAACCTTGGTCTGCAAGGACAGAGGAG
AGAGAAACCTCAAGGGCATTCCCCAGCCCCACTCCAAAGACAGTCAGCAAGTCCTAGAAAAAGGCAACATGGTGGTA
GAAACAGAGCCCAGCTCAGCCCCAAAGACCAAACCTGTGCAGCTAGACAAAGGCTTGAAGGAATTAGAAACCTTG
AGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGAATCAAACCTTTATTACAAACCCGAGG
ACCTCTTTAGGGAAGAAGCCCTACATTTGCAGTGATTGTGGGCGAAGCTTTAAAGATAGATCAACCTTCATCAGA
CACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGCAGTGAGTGCAGGCGAGGTTTTAGCCAGAAGTCCAAC
CTCAGCAGACACCAGAGAACACATTCAGAAGAGAAGCCTTATTTGTGCAGGGAGTGTGGGCAAAGCTTTAGAAGT
AAGTCCATCCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTATGTTTGCAGCGAGTGTGGGCGAGGC
TTTAGCGAGAAGTCATCCTTCATCAGACACCAGAGGACACACTCCGGTGAGAAACCTTATGTGTGCCTGGAGTGT
GGACGAAGCTTTTGTGATAAGTCAACCTCAGAAAACACCAGAGGATACACTCAGGGGAGAAGCCTTATGTTTGC
AGGGAGTGTGGGCGAGGCTTTAGCCAGAACTCAGATCTCATCAAACACCAGAGGACACACTTGGATGAGAAGCCT
TATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCTTCATCATAACGAGCGGACGCACTCTGGA
GAGAAGCCTTATGTGTGTGGTGAGTGTGGCCGAGGCTTTAGTCGGAATCACTCCTCCTTGTCCACCAGAGGACA
CACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAGCCAGAAGTCAAATCTCATCAGACAC
CAGAGGACGCACTCAAATGAGAAGCCTTATATTTGCAGGGAATGTGGGCGAGGCTTTTGTGACAAGTCAACCTC
ATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGCAGTGAGTGTGGCCGAGGCTTTAGCCGAAA
TCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTTTGTAGGGAGTGTGGGCGAGGCTTT
AGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACGGGAGAAACCTGTGTATGCAGGGGTTCATGAAC
AAGACCTGAGTGACAGTCAAGCCTCATGTTACCCAGAGAGACACATGGGGAGTAGACCCTGTGTACACAGATT
GTGAGTGAAGTTCCAGAGATGTGTGCAGCCCTTATCAGGCATGGGAGGGACACGTTTCAGGAGAGGAGCCTTATGAG
TATAGAGTACGGGCAACTGTAGCCATCAGTCGGCCTTGAGCATGCACAAAAGGACACACTTAGGAGAGAAGTTTA
TGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACATCCAATGACAGCCTCAGGGGAAAGC
ACCTTGTCTGGGGAGTGTGGGGAGCATCAGTAAAAGAATGGACACTCAGGCACAGAGTGGCCCTCAGGAAGGA
GGTCTTTGTTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCACAGGGAGAATCTGCATGTGGGGACAC
TGTGGAGCTCTGCCCAGATGACCTTTTTCAGGGGTAAACCCCCAGCTGCTTGAGAGAACAGTGTGTCTGCTGGCAG
AGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTCACTCTCAGCCACAGGGAGCTGCATGCACCACAGGGGCAA
TGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCCTTGACTCAACGGGGACAACCTCCAGAAGGTCATTCCAGATC
CAGAGATCCCCATCGAAGTGAAGGATCACTGGGTTGCAGACACATTGCAGGTCAGCTTCTTCTCTGCCAGTCC
TGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCAGATAATTGATTCTAAGACATGTTAG
GTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTCACCCCCAGTAAGCCCCAGAGTATATTGAATAGAAAT
TCTGCATGTGTGGGGAGAATGGACAAGGACTTAGGAAAAAGTCCTCATCAAAGAACAGCTTTTTTGGGACAAGCT
TTACATGGGTGGGGAGGGAAAAATGTGAAACACATTAGCAATAAGTTAAACCTCATCTTGTACTAAAGGAGGACAC
ACTCAGGGAGAAGACCTCTGTGGGCAGGGCTTGTGGGTGGAGCTTCATCCCGATGTCACTCCTCAACTGACTTAG
GAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACCTCTGAGGGATTTTCAGGAAATGTCTTGACTCCCCC
ATGTACTCTGTATGTGAGCGAAGATGGCAGTAACTGTTAAATAAGCATTCTTTTCTACTTCTTGGAATCAGATGA
AATAAAAAAGCAGGCTTTATTTAAGTAATCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5657

MVVETEPSSAQRPNPVQLDKGLKELETLRFGAINCREYEPDHNLESNFI TNPRTL LGKKPYICSDCGRSFKDRST
LIRHHRIHSMEKPYVCSECGRGFSQKSNLSRHQORTHSEEKPYLCRECGQSFRSKSILNRHQWTHSEEKPYVCSEC
GRGFSEKSSFIRHQORTHSGEKPYVCLECGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQNSDLIKHQORTHLD
EKPYVCRECGRGFCDKSTLIIHERTHSGEKPYVCGECGRGFSRKSLLL VHQORTHSGEKHYVCRECRRGFSQKSNL
IRHQORTH SNEKPYICRECGRGFCDKSTLIVHERTHSGEKPYVCSECGRGFSRKSLLL VHQORTHSGEKHYVCRECG
RGFSHKSNLIRHQORTH

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FIGURE 5658

GATGAGGGTCTGCGGGGCGCCAAAGGAGCCACGGATCTCACCCACCTGCGGCTGCAGCAGACTGATCTCCTCC
ACTTCCTTCAGCGCCAGCAGCGCGTAGCCGACCGCGTGTCTAAACAGCACGTGCAACAGCACCTGGAACGGGAGC
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCCGGAACCCGTTCCAGGGCAGGCGCAGGCGCAGGCGCAGG
CCCAGGCCCCAGGCCCAGGCCCTGTCTGCGGGCCGAACGCAGGCCGAAACCCCCACCGTTCGCGTCGCCCCGCGCCCC
GCAACCACTCCTCACCATGGCGCCAGCTCCCCGGGTTTCGGCTCGCAATGCGGCTAGCGCGCTCCGGCGCGCGGAAC
CAGGCTCCAGAGGCCACGCCCCCGCCCCCGACCAATCGGAGGCCGCGGACGACACCATCTCCGGCCTTTGGAG
GGGCCGCCCAGGGTGGTATCGCCCCGAGCGCGGGCTGGGTGGTGCCGAGCGCGGGCGAGCGGGCCTTTTCCGGCC
TCTGCAGCTGCGCGGGCGGGCGTGGTTGCCGGGGACGCGCGGGCCCCGGTTCGGGCACTGCAGGCGGCGAAACGAC
TTGGGAAGGCCCTTTTCGGGTAATAGTCCGGTTCCTGATGTTCTTGTCTATATGAGTTACGGGCAGCAGAGCTGGG
TGAAGTCGGGGCGGGAGGTCCGCGTGGGGCGCGGCTCCATCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG
CTTCGTCCGTGGCCTCGGGCCCCAGACCTGCGCCCCACGTCCCCGGGACCCAGGCGTTCCCGTCCCCCTACTCGG
GGACGAGCTCCCCGGCGCGGGGTGGGCGGTGCATCCTTTCTCCACCCGTAACGGGAGCGGTGCCTGGCGCGC
TCTGGCGCAGACCCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTTTGTTT
TTGGTTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACTGCGAAAGAAAGACGCTCCAGCGTCTTCCTAGGCC
AGTTTCTTGTGTGTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTGTTGCTCCTCCGCTTGGGCGGCC
CTGAATTCTGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCCTTGAGGGCGTCTTTTGGGCACT
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATATTAACGTTATAAATCCAAAACCTAGTTATACTT
AAGTAGCGTATCCCCTGGTATGTTTTAAAGAGTCATTGCAAGGGGATTTTTAAAAATAATGTATAGCTATAAACT
GCATTTATACATTTAATTGTTATTTTGTAAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCACTCAC
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT
TGAATTCTGTTACACATGTCTACTTACGAGTCAGAATCGTTATTCCATTTAATATTTTAAAAATGGAATTGCCAAG
TTAATCCATACATTAGCATGTTAAATTATTTTAACCGTCGTGAATACATCAAAATAGACGATTCCAAAATGTAAT
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCCTGGAGTTACAG
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTTAAAAAATAGG
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTCGAGACCAG
CCTGGCCAACATGGTGAAACCCCGTCTCTACCAAAAAATAAAAAAATTAGCTGGACGTGGTGGAGCATGTCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACTCTAGCCTGGGC
AACAGAGCAAGGCTCTGTC

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FIGURE 5659

MSYGQQSWVKSGREVRVGRGVHPRQRPLPSRLPASSVASGPRPCAPRPRDPGVVPYSGTSLPGAGWAVHPFLPP
VTGAVPGALWRRPCWECSSRSFLRTINLFLFFVFGFFFLNDCSRQ

6127/6881
FIGURE 5660

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTGGGCTACGCGCTGCTGGCGC
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGCAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCCACA
GCATCGTTCGCTCTGGTGGCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGGAAAAATGCCAACGCCGTGCTG
AAGGGGTTGTTTCATGAGGACCTCCGCTGCTCTTGGAGACCCACCTGCCGTCCAAAAAGAAGAAAGTACTCTTGG
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG
CTGAGATCCTGCGAGGAGTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTCAGCTTGTAAG
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAATGTGAACCGGGTGGACAATATGATCA
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTGAGGGAGTGGTACG
GGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTGGAA
ACCGAAGGGAACCTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTA
TTCTGGATGCCTCACGGTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCA
GTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC
CCAGCCTGTCAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAGAGCCCTGAAGACAAGGGGTA
ACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCCAAGAACAAAGGCCGCATCT
CCCGATACCTGGCAAACAAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCACGAGTGTTATTCG
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCCTTCTATGAGACTGGAGAGATAACCACGAAAGAATCTGG
ATGTCATGAAGGAAGCAATGGTTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACCTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC
CAGAGGAGTGTGAGGAGATGAGTGAAAAACCCAAAAAGAAGAAAAAGCAAAAGCCCCAGGAGGTTTCTCAGGAGA
ATGGAATGGAAGACCCATCTATCTCTTTCTCCAAACCCAAGAAAAAGAAATCTTTTTTCCAAGGAGGAGTTGATGA
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATTCCCAAGAGGAAGAAGTCTACACCCAAGGAGGAAACAG
TTAATGACCCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAAGAGGAAATTCTCCAAAGAGGAGCCGGTCA
GCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAAGAAAAAGTTCCATAAAGCATCCCAGGAAG
ATTAGAATGCAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCAAGGTGACATTTCCCACCTGTGCCG
TGTTCCCCAATAAAAACAAATTCACAAG

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FIGURE 5661

TGATACATCGTTGCTCATTTCGAGAACATAACAGTTGCACATTGCAAGAGTCAACTTGCTTCGGGTCTTTTCAT
GCTCATGGCGGTATTGAGCGGAGTCCGCTGGCTGACCCGAGCGCTGGTCTCCGCCGGGAACCTTGGGGCATGGAG
AGGTCTGAGTACCTCGGCCGCGGCGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTT
TCCCGTGACCATGCTTCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAAGGAGGTGTTCAAGGCTGC
CGCTGTCCCACTGGAGTTCAGGAGCACCACTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCA
GGTGCTGAGTTCCATGAAGGAGAACAAAGTGGCCATCATTGGAAGATTATACCCCGATGGAGTATAAGGGGGA
GCTAGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTTGCCAACGTAGTCCATGTGAAGTCACTTCC
TGGGTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTGAGAGCAGACAGAAGGGGAGTACAGCTCTCT
GGAACATGAGAGTGCAAGGGGTGTGATTGAGTGTTTGAAGATTGTCACACGAGCCAAGTCTCAGCGGATTGCAAA
GTTTCGCCCTTTGACTATGCCACCAAGAAGGGGCGGGGCAAGGTCACTGCTGTCCACAAGGCCAACATCATGAAACT
TGGGGATGGGTGTTTCCTGCAGTGCTGTGAGGAAGTTGCTGAACTGTACCCCAAAATCAAATTTGAGACAATGAT
CATAGACAACCTGCTGCATGCAGCTGGTGCAGAATCCTTACCAGTTTGATGTGCTTGTGATGCCCAATCTCTATGG
GAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTGTGGTCCCTGGTGAGAGCTATAGTGCAGA
ATACGCAGTCTTTGAGACGGGTGCCCGGCACCCATTTGCCCAGGCAGTGGGCAGGAATATAGCCAATCCCACGGC
CATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGTATCACTCCAGCATGATCGCAGATGCGGT
GAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCGGCTACAGCACCACAACCGACTTCATCAA
GTCTGTTCATCGGTACCTGCAGACTAAAGGGAGCTTAGAGCCCTTTATTTCTTCCAACCTTGCAAGGACCACACTC
CCCATACCCTTCAGTGCAGTGTAACAGGGAAGAGACCTTGTGCCTCTAAGCAGTGGACCATGGTCAACCCCTTGCT
GGGTAGAGCCTAGGTTGTCCTTGGGCCGGCTTCCTTAGGGGACAGACTGTTGGGTGGTGATGGGGATTGTTAGGA
TGGAGCCCAGGCCACATGGATGATGATGATTCTCCCCACAGGTTGGAACCTCTGACATGGGTGGCTATGCTACT
TGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGGCCCTGTCCATACCCATGTAAGGTGTT
CAATAAAGAACATGAACCAAAA

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FIGURE 5662

MAVLSGVRWLTRALVSAGNPGAWRGLSTSAAAAHAASRSAEDVRVEGSFPVTMLPGDGVGPELMHAVKEVFKAAA
VPVEFQEHLSEVQNMASEEKLEQVLSSMKENKVAIIGKIHTPMEYKGELASYDMRLRRKLDLFANVVHVKSLPG
YMTRHNNLDLVIIREQTEGEYSSLEHESARGVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLG
DGLFLQCCEEVAELYPKIKFETMIIDNCCMQLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAEY
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRTRDMGGYSTTTDFIKS
VIGHLQTKGS

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FIGURE 5663

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTCGGCCCGGCTCTGGGGGCGCCAGGAACTCG
GTGCTGGGCCTCGCGCAGCCCGGGACCACCAAGGTCCCAGGCTCGACCCCGGCCCTGCATAGCAGCCCGGCACAG
CCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTTCGAGTCATCAAGAAAGAAAAAGGTCATT
ATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCCACTGGT¹GACTGCCGGGCCCCCTTGTGACCCCCACT
CCAGCAGGGACCCCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCCTCCTTTGGGTCTGGAGTCCCTGCGAGTT
TCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCCTTTGGTCTTGGACCACACCGAGGACGGCTCAACATTTCAG
TCAGGCCTGGAGGACGGCGATCTATATGATGGAGCCTGGTGTGCTGAGGAGCAGGACGCCGATCCATGGTTTTCAG
GTGGACGCTGGGCACCCACCCGCTTCTCGGGTGTTATCACACAGGGCAGGAACTCTGTCTGGAGGTATGACTGG
GTCACATCATACAAGGTCCAGTTCAGCAATGACAGTCGGACCTGGTGGGAAGTAGGAACCACAGCAGTGGGATG
GACGCAGTATTTCTGCCAATTTCAGACCCAGAACTCCAGTGCTGAACCTCCTGCCGGAGCCCCAGGTGGCCCGC
TTCATTGCGCTGCTGCCCCAGACCTGGCTCCAGGGAGGCGCGCTTGCCTCCGGGCAGAGATCCTGGCCTGCCCA
GTCTCAGACCCCAATGACCTATTCTTTGAGGCCCTGCGTCGGGATCCTCTGACCCTCTAGACTTTTCAGCATCAC
AATTACAAGGCCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCAACATCACCCGCATCTACAGCATT
GGGAAGAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTCGGACAAGCCTGGGGAGCATGAGCTGGGGGAG
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGATGCAG
TTCCTGTGCCATGAGTTCTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCATTACCTGCTG
CCCTCCATGAACCCTGATGGCTATGAGATCGCCTACCACCGGGGTTTCAGAGCTGGTGGGCTGGGCCGAGGGCCGC
TGGAACAACCAGAGCATCGATCTTAACCATAATTTTGTGACCTCAACACACCACTGTGGGAAGCACAGGACGAT
GGGAAGGTGCCCCACATCGTCCCCAACCATCACCTGCCATTGCCCACTTACTACACCCTGCCCAATGCCACCGTG
GCTCCTGAAACGCGGGCAGTAATCAAGTGGATGAAGCGGATCCCCTTTGTGCTAAGTGCCAACCTCCACGGGGGT
GAGCTCGTGGTGTCTACCCATTTCGACATGACTCGCACCCCGTGGGCTGCCCGCGAGCTCACGCCCACACCAGAT
GATGCTGTGTTTTCGCTGGCTCAGCACTGTCTATGCTGGCAGTAATCTGGCCATGCAGGACACCAGCCGCCGACCC
TGCCACAGCCAGGACTTCTCCGTGCACGGCAACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATG
AATGACTTCAGCTACCTACACACCAACTGCTTTGAGGTCACTGTGGAGCTGTCTGTGACAAGTTCCCTCACGAG
AATGAATTGCCCCAGGAGTGGGAGAACAACAAAGACGCCCTCCTCACCTACCTGGAGCAGGTGCGCATGGGCATT
GCAGGAGTGGTGGGGACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCAT
GACGTGACCACGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCAGGGGACTACATGGTGAAGTGGCAGTGCC
GAGGGCTACCATTCAGTGACACGGAAGTGTGCGGTACCTTTGAAGAGGGCCCTTCCCCTGCAATTTCTGTGCTC
ACCAAGACTCCCAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGCAGGCGC
CTGGAGCGGCTAAGGGGACAGAAGGATTGA

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FIGURE 5664

MWGLLLALAAFAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTSEQHVRIIRVIKKKKVI
MKKRKKLTLTRPTPLVTAGPLVTPTPAGTLDPAEKQETGCPPLGLESRLVSDSRLEASSSQSFGLGPHRGRLNIQ
SGLEDGDLYDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDWVTSYKVQFSNDSRTWWGSRNHSSGM
DAVFPANSDPETPVLNLLPEPQVARFIRLLPQTWLQGGAPCLRAEILACPVSDPNDLFLLEAPASGSSDPLDFQHH
NYKAMRKLKQVQECPNITRIYSIGKSYQGLKLYVMEMSDKPGHEHELGEPEVRYVAGMHGNEALGRELLLLLMQ
FLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAHYHRGSELVGWAEGRWNNQSIDLNHNFADLNTPLWEAQDD
GKVPHIVPNHHLPLPTYTLPNATVAPETRAVIKWMKRIPFVLSANLHGELVVSYPFDMTRTPWAARELTPTPD
DAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE
NELPQEWENNKDALLTYLEQVRMGIAGVVRDKDTELGIADAVIAVDGINHDVTTAWGGDYWRLLTPGDYMTASA
EGYHSVTRNCRVTFEEGPFPCNFVLTKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

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FIGURE 5665

GCTGTGAGGCTCGGAGTCGCCGAGGAGCCAGTATCTGTGTGCGCCGCCGCCGCGGCGTCCCCGGTTTGGTGCTG
CGGCGCCACCTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTTGTGATCCCTGGCTCTTGTGA
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAAACAAGA
AATTGCCTGGTCAAATCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAAATGCGCAGCTA
CTCTCAAGTCATTAAAACTTGTAAGATACCGAGCATTTCGAGTCCTTCTGCCTTTGGTGCAGTCCGAAGTGTGT
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCTCCAGAACACATTAGCCTCTGCCATTCTGCCA
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCCTGACAACCAGCAGTGCCCAACCAGGTTTGG
AATTCAGCAAGACTTCTTCCTCTAAGGCCAGTACATTGCAGCTGGGCTCACCCAGGGCCACAGGAGTTGATGAAG
AGGACGTAGAAGTGTTTGATTCTTTGAAAACATGCGAGTTTTCTACAGCTAAGACCAGAATACCGTGTTTACA
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTCAGAAGGTGAATAATTTTGCACAAAGTCAGAGTTA
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTTGCCTGCAGAGCAGCATC
CTGTCTTGCTGGGCAGTACCAGCTTTGCTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTTGATACCC
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCAATTTAGGAATCCCTCACTCCCATTCAATGCTAGATGTGTATG
AGACCAAGTGTTGCCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTACT
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTCTAGTTATCTTAATTTGCACTGGAAGGATCTATCCTTGT
CTCAGCTAGTTCACCTAATTTATGTTATAGGTGAAAATCGTCAGGTATCCAGGACCTAATGCAAAAATTGGAAT
CATTGATCCTTAAATATATAGATTTGATCAATTTGGAGGAGGTTGGTACCATCTGTTTGGGGTTCTTTAAATCAA
GTACTAATCTCTCTGAATTTGTATGCGGAAAATTGGAGACTTGGCTTGTGCTAACATTACAGCATCTGAGTAGTC
GCTCCTTAGTGAATATTGTTAAAATGTTCCGTTTCACTCACGTGGATCACATCAATTTATGAAGCAGATTGGAG
AGATAGCTCCTCAGCGAATTCCTTCCCTGGGAGTTCAAGGTGTATGCACCTGACTCTTTACTGCTCGGCCTTAC
GCTTCCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCTCCTAGAGTGGCACACTGTGCAAGTAAAG
ATGTTGCCAAGATTCTGTGGTCATTTGGAACCTCTGAATTATAAGCCACCAATGCAGAAAGATTTTACTCCAGCC
TGATAAGTGAGATTACAGAAAGATGCCTGAATTCACCAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC
TGGCATTTTTTGGAGTACTTTCCAGTAGAGTTAATTGATTTGCTCTCAGTCCAGGGTTTGTGAGGTTAGCTCAGG
AGAGAATAAGTTTGACCTCCTTAAGGAACTATATACCCTCGATGGTACAGTTGGCATTGAGTGTCCAGATTACA
GAGGCAATCGTCTTAGTACTCACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA
ATTCAAAGCCTGAATTCCTAGAACTGTCTTTTTACTGGAGACCATGCTGGGGGGGCCCCAGTACGTCAAGCACC
ATATGATTTTGCCTCATACCCGATCTTCTGACTTAGAAGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA
ATAGAGAAGCCACGCCGGCTGAAAATGTAGCCAAATTAAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACTGAGTCAGAGCCTGGGCAGCAGC
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCCTTTGCAATGTAGCAGATAAATCAGGGGCCA
TGGAGATGGCTGGCCTGTGCCCCGCAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTCAAGTTACAAACA
GGAACCAGTATTGCTATGGCTCCAGGGATCTCCTTGGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACTCGCTTAGAAAAGTTGGCGT
TTCTTCATGAGAAAGTATTCACCTCTGCTCTCTGAAGGGCATTTAGGGGCATTTCTATGGCAAAGCTATAGGTGT
ATACTGTACCAGGTGTTGCAAAATGATTATAAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGTATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAATT
ACTGCAAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGTCCTACGGTC

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FIGURE 5666

MAATLKSLKLVRYRAFCSPSAFGAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNICSTFSSRRILTTSSAH
PGLEFSKTSSSKASTLQLGSPRATGVDEEDVEVFDSFENMRVFLQLRPEYRVHSYNASETSQLLSVSEGELILHK
VRVNQNNLQAQVIVDYLCKLSSLPAEQHPVLLGSTSFALLCQLSVKKIQLFDTQDLINVLKAFVILGIPHSHSML
DVEYETKCCHQVWEMNMDQLLLVLADLWRYLGRKVPRFLNIFSSYLNHLHWKDLSSLVHLIYVIGENRQVSQDLMQ
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSSRSLVNIVKMFRFTHVDHINFMK
QIGEIAIPQRIPSLGVQGVMLTLYCSALRFLNEGVMNAVAASLPPRVAHCRSKDVAKILWSFGTLNYKPPNAEEF
YSSLISEIHRKMPEFNQYPEHLPTCLLGLAFLEYFFVELIDFALSPGFVRLAQERTKFDLLKELYTLDGTVGIEC
PDYRGNRLSTHLQQEGSELLWYLAEKDMNSKPEFLETVFLETM LGGPQYVKHHMILPHTRSSDLEVQLDVNLKP
LPFNREATPAENVAKLRLEHVGVS LTDDLMNKLLKGKARGHFQKTESEPGQQPMELNKA AVPLGGFLCNVADK
SGAMEMAGLCPAACMQTPRMKLAVQFTNRNQYCYGSRDLLGLHNMKRRQLARLGYRVVELSYWEWLP LLKRTRLE
KLAFLHEKVFTSAL

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FIGURE 5667

CCTGGCCGGAAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTTCG
GTGGCTCAGCTGGGTAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTGTTGTAAACGGGGA
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAGATTCTAGGAGATAAGTTTCCATGCACTTTGGTGGCACAGAAAATTG
ACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCGCCAGGTACAGG
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGGCCCCCTACATAAAGTGGT
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTCGAGGACAAGTCAGCCTATGCGCTCT
GCACGTTTGCCTCAGCACCGGGGACCCAAGCCAGCCCGTGCGCCTGTTTCAGGGGCCGGACCTCGGGCCGGATCG
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
AGATGCCTAAGGCGGAGAAGAACGCTGTCTCCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA
GTTTGGCAGCTTGACTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCAAACCTC
CCGCATCGGGCAGGCACCCCTGAAGTACTTCCTTCAGGGTTTCCCCTTTGTGAGGGTGTGAGTAGCCTCACCG
GCCTGTCTGGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTGCCCTTAGGATT
CACTGCTCTCTCCTACAGCCGCCAGGCCTGGGGTCCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGGTTTTTAAATGCAGTAAATAACATTTCTGGATGAGA
CTTGTTTCCAAAATAAACAGCTATATCTGTTTTG

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FIGURE 5668

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCGCCGCTGCAGTGGTCGTCCCTGCCCTCCCCGGCCCCGGGGTGCACC
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC
GTGGCAGGGAGGGCGTCC**ATG**GCTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGGGTATCCGCTTTGCGGCA
GGCCACGATGCAGAAGGATCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCATGGTCACC
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT
CTGCCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC
GTGGTGCCCGTCCCTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCCCTCAAAGAGGAG
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTTCATGGACCGGCAC
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC
TGGCACGGCTTTGACT**TGA**GGCCCCGAGGCCCCGCCTGCCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCCCC
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCCACGC
CTCTCACCTCTGCCTTCATTTGTGCTGCCACCCTGCCCTCCCTCGTCCTCCTCTCCCACTTCCTCCTCTCTGTG
TGCCTCAGTCTCCTGCCGAAGAAATGGGTTGATCCCGAAAGGAGGCTGTCTGAGGAAGGGAGAGGGAGGGCCTG
GGGTGGGTCCCCCACTCCCCACCCCAAGCCACAGGGACTCCCACCAGGGTCTGGGAGAGGACGGAGCTGGCTCTG
TGGCGTCGTGGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCCCTCCCTAGTCCCCACTGCTGTCCA
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCACCCCTCAGGTCTGTGTTACTTGGTTTTTAAGCGACTGGT
TGGGATAGAACCCTAAAGAAATAAACTTCCAGTGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5669

MAAANKGNKPRVRGIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKILHRYEITFTLPPVHR
LSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEILLACEGGTGTCVRVTVQARVMDRHHGTPML
LDGVKCVGAEEYDSEHSDWHGFD

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FIGURE 5670

ACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGG
AACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGATTGGAGGTTTCCAAGAGGCCCCCACCCTGGAA
GTAACCAAGGGCGCTTCCTTGTGGGCAGCTGCAGGCCCCATGCCTCTCCTCCCTCTCTGGCAGGGCCCCATCCTG
GGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTCCTTTCCAGTTTGATTTCATAAATCT
GTCCACTCCCCCTTTTGTGGGGTGAACGTTTTAACAGCC

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FIGURE 5671

CGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG
ATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGCGCCATCCTGGCGTCG
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCTGCCGGTCAAGGGCATCATCTCAAGGAGAAGGCGCTG
CGCATAGCCGAGGAGCTGGGCATGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCAC
GGCGTGGTGTCTTGCAGCGGCGTGGCCCGCGCCCGCGCGCAAACGCTGCCCCCGCACCCCGGCGGCGCCTGCC
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG
TCGGTGGCCGAGGGCTACGCTCGCAGGACGTGTTACGCGCCACCGAGACCAGTCTATGGTACGACTTCCTGCC
GACCAGGCCGCGGGGCTGTGCGGAGGCGACGGACGGCCGCGTCAAGCCACCCAGCGCCTGAGCGTCTTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCGCTGGTGGCCGGCAAGTCGGCCAAGCCCCGCGCAGGCCAAGCC
GGCCTGCCCTGCGACTACACCGCCAACCTCCAAGGGTGGTGTACACACCCAGGCCCTGGCCAAGTACTTGAAGGCC
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGGTCTTGCTGTTGGCCGGCCGCTTGGCTGCCAGTCTTGCTGAC
ACCTCGGGCCTGCGGCATGTGCAGCTGGCCTTCTTCCCTCCCGGCACCGTGCATCCGCTGGAGAGGGGAGTGGTC
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGCTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA
GGCCTGCAGCTGGGTCTCACGGAGGCCCTGCACTTTGTGGCTGCCGCTGGCAGGCAGTGGAGCCTTCGGACATA
GCCGCTGCTTTCTGTAGGCTGGCTTTGGGGGTGGCCCTAATGCCACCATCACCACTTCCCTCAAGAGTGAGGGA
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG
GAGGAGGAGGAGGAAGGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGGTGTGTTGAT
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGGAGGGCTTGAGGCTGAGGACTGGGCCCAGGGAGTA
GTGGAGGCCGGTGGCAGCTTCGGGGCTTATGGTGGCCAGGAGGAAGCCAGTGCCCTACTCTGCATTTCTGGAA
GGTGGGGAGGACTCTGATTAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT
GATGATGAGGAGGATGGTGATGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG
AGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGGAACACGATCTGGTTCAT
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTTCGAGGTCTTGACATCAAAGCTGAGTCACTGGACCTAGC
TGTGCCCCCAACCTAGATTGGCAGCACCAACCCAGGGCAGAGGACTCTCTGGGCACCCGCTGTGCATGGAGCCAG
AGTGCAAGAGCCCCAGATCCTTTAGTAATGCTTCCCCTGGTCTGCAACAGGCCCGGTACCTCGGCCGGGCCGG
GGCTGAGGTACGCTCACTGCCTGCTTATTGCCTCTTTCTCAGAATCCTCTTTCTCCCATTTGGCCCTGGGCT
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGTACACACCGTGCCCTCAGTGGACTAACACAGCAG
CAGCCAGGGATGGGGCCTGGAGGTTCCCGGCCGGAGAGTGCCTCTCCCCTCTGCCATCCACGTCAGGTCTTTGGT
GGGGGGACCCCAAAGCCATTCTGGGAAGGGCTCCAGAAGAAGTCCAGCCTAGGCCCCCTGCAAGGCTGGCAGCC
CCCCCCCCACCCCCAGGCCGCCTTGAGAAGCACAGTTTAACCTCACTGCGGGCTCCTGAGCCTGCTTCTGCCTG
CTTTCCACCTCCCCAGTCCCTTTCTCTGGCCCTGTCCATGTGACTTTGGCCCTTGGTTTTCTTTCCAGATTGGAG
GTTTTCAAAGAGGCCCCCACCGTGAAGTAACCAAGGGCGCTTCCTTGTGGCAGCTGCAGGCCCCATGCCTCTC
CTCCCTCTCTGGCAGGGCCCCATCCTGGGCAGAGGGCCCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC
CTTTCCAGTTTGATTCAATAAATCTGTCCACTCCCCTTTGTGGGGTGAACGTTTTAACAGCC

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FIGURE 5672

MDDFTASNGWLD RFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTTGWRAREEQPPSVAEGYA
SQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYT
ANSKGGVTTQALAKYLKALDTRMAAESRRVLLL AGR LAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQQVKGHY
RQAMLLKAMAALEGQDP SGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTS LKSEGE EEEEEEE
EEEEEEEGEGEEEEEEEGEEEEEGGEGEELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAEDWAQGVVEAGGSF
GAYGAQEEAQCP TLHFLEGGEDSDSDSEEDDEEEDDEDEDDEDDDEEDGDEVVPVPSFGEAMAYFAMVKRYLTSP
IDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

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FIGURE 5673

ATGGGCCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGAC
CTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGC
GCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGAC
AAGCTCGAGGGCTTGCTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCCTC
AAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGC
GTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGAC
CGCGTGCAGAGCCACATCCTCCACTTGGAACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGCAGGCG
GGAGTTCGAGGTCTTGGACATCAAAGCTGA

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FIGURE 5674

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGGCTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCTCCTCCTCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCCGCGATG
GAGGTGCCCCAGCCGGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG
GGCCACCTCCCGGGCCTCCTGCTGGGATCTCATGGCCTCCTGGGGTCCCCGGTGCGGGCGGCCGCTTCTCGCCG
GTCACCACCCCTACCCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGCAGCCGCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCTGTGCTCTGAATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTGCA
AACGAGCAGTTTGGCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCCAGGCGCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGTGGGAGCTCTCCGGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCCTCCTCTCCCATCTTGGCTGCAGGATGGATTTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGCAGGGAAGCCTTTGCCAGAGACCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCTTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTGCG
TTCTCTCTGACCCCTGCAGAGGGGGATACTGAGGAAGATGATGGATTTGTGGACATCCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCAGGCATGGAGAGTCTCATTAGTGCCCCACTGGTCAAGACCTTGGAAAAGGAAGAG
GAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGAGAATAAGCGGAGGCGGAGCGTGACC
CCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCGTCTCCGCTCAAAATCACTGTGTCACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCCTACAGACAGTA
GACGGAAGCACCAAGACCTCAAGTACATCTACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGCCCCCTGGAACGCGACGCGGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCGCATGTGCCGTTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACCTTCTGTGAACCCAGGACTACCGGCCCATGAACCACGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCCGCCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAGGGGCTGCGCCAGTCTGCTACCTCCCTTGCCCTTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCTGCGCG
GCTGAGGGCTGCTGGAGGCCTCAGGTGCTGTCCATGGGAAAGATGGTGTGGGTGCTCTGCCCTGTCTGCCCCAGC
CCAGATTCCCTGTGTATCCCATCATTTTCCATATCCTGGTGCCCCCACCCCTGGAAGAGCCCAGTCTGTTGA
GTTAGTTAAGTTGGGTAAATACCAGCTTAAAGGCAGTATTTTGTGTCTCCAGGAGCTTCTGTTTCCCTGTTAG
GGTTAACCTTCATCTTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTGTGAGCTGAGGCTGGGGGAGAGCCGTG
GTCCCTGAGGATGGGTGAGAGCTAAACTCCTTCCCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGGC
CAGGGCTGCCCCAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCTTTCCCTGT
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCCTATTTTCACTGTTACCTGTGTGCTTGGT
CTGTTTGACTTTACGCCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCTGTCAAATATCAGTTACCCAC
TCGGTCCCAGTTTTGTTGCCCCAGAAAGGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGA
ATCATGAGCCTGCTGGAAGCCAGCCCCCTACTGCTGTGAACCTGGGGCTGACTGCTCAGAACTTGCTGCTGTC
TTGTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCCTTGCAT
ACCCAAACCAGGTGGGAGCGTTTTGTTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCCTATTTGTGTGGA
CAAAAAATTTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTCACAGAAGCAGCTAAACCAAGGACTGAGC
ACCTCTGGATTCTGAATCTCAAGATGGGGGCGAGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCCT
TGTTTCAATAAAGCACTGAGCAAGTTGAG

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FIGURE 5675

GGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGGACGGTCTTCCAGCCTCCGACCGCCCTCC
AATTTCCCTCTCCACTTGCAACCTCCGGGACCATCTTCTCGGCTATCTCCTGCTTCTGGGACCTGCCAGCACCGTT
TTTGTCGTTAGCTCCTTCTTGGCGACCAACCATGAGCTCCCAGATTCGTCAAAATTATTCCACCGACGTGGAGGC
AGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGACCG
CGATGATGCGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGACCGAGGAGAAGCGCGAGGGCTACGAGCG
TCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTG
GGGTAAAACCCCAGATGCCATGAAAGCTGCCATGGCCCTGGAGAACCCCATCTCTGTGACTTCCTGGAGACTCA
CTTCCTAGATGAGGAAGTGAAGCTCATCAAGAAGATGGGTGACCACCTGACGAACCTCCACAGGCTGGGAGGCCC
AGAGGCTGGGCTGGGCGAGTATCTCTTCGAAAGGCTCACTCTCAAGCACGTCTAAGAGCCTTATGAGCCCAGCGA
CTTCTGAAGGGCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTA
ACTACCCTAA

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FIGURE 5676A

GGGGAGGAAGAAAGGCGAAGGCAAGGCGAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAAATGGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCCAAAAATGAACTTCTCTTGATCTGAAGACCTACAACCTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCGGGAGGAAGAAGACGAGTTCATTGTGGAGGGGCTCCTGAACATCTCCTG
GGCCTGCGCCGGCCCATTCGCTGCAGATGCAGGATGACAACGAACGCATTTCGACCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTCAGATCTC
AGAGGTGGATGCCCCGCCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGGTGCGTCGCCGTGGCAATGTGAGGACGCCTAGTGA
CCAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTCCACACC
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCTTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCCGCTGATTGCCCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAAGTGTTCCTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCAGTATATAAAGTTCGAGATGCCGGTACTTAAAAG
CTTCATTGAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTGCTCCGGCT
AATGATTGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCAGGAACCGCCATTGCCATAAGACCCCCAGGAAGCTAGGCACCTTTCTTTCCATGGAAACATTTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAAGGACTTTTGATTTTAGTTATAAGGAGGACCCAAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCCTACCTGATACTTTACATGTAATTAATTTCCA
GGCAACCAGCACAAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGTCTGTCTGTGTTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTGTTTTATATGTTGGTAGAAATTTCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGGCAAGTCTGATGGAAA
GAAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCACGTATTTTTTACACTGGAAACGTTGATTGTTTTAA
ATGACAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCCT
TGAGTGGAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGCGTACACAGTGTGACAGCTAGTGTGGCCAG
GGCCTGGTGGCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTTCATGTCATCAAAGGTCTTCTGCACTTGAAGCTGGGGCGATGTTTGCAGTCAAGAC
CATCTTTTCAAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGAATGAAGCCT
CATCTTGCTACTGAGTGTGGGGTTACAGGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTGCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCCATCTCTTCTCCACCTTCTCTCCACAGAATGTTTGCAGAGCTG
GGCAGTTGAGGAAAGGACAGCCCCTGGTTGGTGCTCCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGCACCCCTCCTGCCCCCGATTTCATACCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAAGATGGCATGCGGCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCTCCATAGGGACAG
CAGCACCAGCCCCTGTGGGGCATGGAGTGGAAGCCCAGAAGGGCTTCTGCAAGCTGCACAGAAGTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCCCTTTGTTACAGCTGGGAAAGAAGAGTCTGTGAATGCAACACCTCC
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAAGTCTCTTCTGGTAATTTTTTATTTTGAATGTTTCAGGGCCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAAGTACTAACCCTAGCTCTT
ACTGGACAGCGATTTCTGGCTTATAAGAGTCTCTTTGATTTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG
GGAGGTCAGGAGGTGGAAGTGAGAGGAGATCCCATCTCACACAACACACTCCACGTAATGCAGACCACACTTTT
CCATTTTGTCTTGCCTCTTGAGAGGTCATTTCTCACGTCTAAGAACCTGATCAGAAATTTTGAAGGGTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 5676B

TGCAGTTTTGAACTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTGTGAAAAGCAGTTTAGCTGCATCTGTCTCCCCAC
CACCCCCACCCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAATTAAGCACAAGGTCACATTCTCTGTGATCAGATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCCTCGGGTCAAGATTTTGTATCTGAGACATGCTGATGCTTCAAGGAGAAATATTTTACAAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCCTAGAAACCTCTAGGTAAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACATCGCCGAGAGAGGTTTCTTCTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTGGTTCTG
TTTCCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAATCCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCCCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAGATGCACAAGCTGTGGTG
GGAAACCCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTTCCCAATTGTTTTAGCCTTGTGAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACTTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTTGTAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 5677

MDYSHQTSLVPCGQDKYISKNELLLHLKTYNLYYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTD SRGLKPLQEDTPQLMRTRSDVGVR
RRGNVRTPSDQRRIRRRHRSINGHFYNHKT SVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMFVLKSFIQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 5678

GTCTCAGCCGGTCGTCGCGACGTTTCGCCCCGCTCGCTCTGAGGCTCCTGAAGCCGAAACCAGCTAGACTTTTCCTCC
TTCCCGCCTGCCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTTCGAGGCGCGCCTGGTCCAGGGCTCCATCC
TCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAACC
TGCAGAGCATGGACTCGTCCCACGTCTCTTTGGTGCAGCTCACCCCTGCGGTCTGAGGGCTTCGACACCTACCGCT
GCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGGCAATGAAGATA
TCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAGTTT
CAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGAATTCCAGAACAGGAGTACAGCTGTGTAG
TAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCTT
GTGCAAAAGACGGAGTGAAATTTTCTGCAAGTGGAGAACTTGGAAATGGAAACATTAAATTGTCACAGACAAGTA
ATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTTGCCTGAGGTACC
TGAACCTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTTG
TAGAGTATAAAATTGCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATCTT
AGGCATTCTTAAAATTCAAGAAAATAAACTAAGCTCTTTGAGAAGTCTTCTAAGATGCCAGCATATACTGAAG
TCTTTTCTGTCACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTTCTGTAAATAACCTATTTTTTTCT
CTATTCTCTGCAATTTGTTTAAAGAATAAAGTCCAAAGTCAGATCTGGTCTAGTTAACCTAGAAGTATTTTTTGTC
TCTTAGAAATACTTGTGATTTTTTATAATACAAAAGGGTCTTGACTCTAAATGCAGTTTTTAAGAATTGTTTTTGAA
TTTAAATAAAGTTACTTGAATTC

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FIGURE 5679

CCAGGAGGCACGCTGGTTTTCCGGGGCCGCTCCATCGCGCCTTCCTCCTGCGCCTCGCTTCTCCGGTCCAGCCGC
CATCTTCCTTTCCGCACAGGGGCCGCGAGCGGGGCC**ATG**CAGCCAACGCTGCTTCTCAGCCTCCTGGGAGCCGT
GGGGCTGGCGGCTGTCAATTCCATGCCAGTGGATAACAGGAACCACAATGAAGGAATGGTGACTCGCTGCATCAT
TGAGGTCCTCTCAAATGCCTTGTCGAAGTCCAGCGCTCCACCCATCACCCCTGAGTGCCGCCAAGTCCTGAAGAC
GAGTAGAAAAGACGTCAAAGACAAAGAGACAACTGAAAATGAAAACACAAAGTTTGAAAGTAAGATTGTTAAGAGA
CCGAGCTGATGCCTCGGAAGCCCACGAGTCTCCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCA
AGGCCCCAACAAAGGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCA
GTGGAGCCTCTATCCCTCCGACAGCCAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGA
GGATGAGGAGGAGGAGGAGGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAACACCT
TGAAAGAGCCAGGAGAGACACAAAACGCTTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAAAGAGGAGTT
AGTGGCCAGATCGGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGAAGAGTAGCCAGGA
GAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCCCAGGAGTCTAAAGGCCAACCCCGAAGCCAGGAAGAATC
TGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGGCCCAGACACCACCAGGGAGGAG
CAGGCCCCGACAGGTCCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAAAGGGACACCCCCAGGAGGAATCTGAGGA
GTCAAACGTCAGCATGGCCAGTTTAGGGGAAAAGAGGGACCACCATTCAACCCACTACAGGGCTTCAGAGGAAGA
ACCTGAATATGGAGAAGAAATAAAGGGTTATCCAGGCGTCCAGGCCCCTGAGGACCTGGAGTGGGAGCGCTATAG
GGGCAGAGGAAGTGAAGAATACAGGGCTCCAAGACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAA
CTACCCAGCTTAGAGCTTGATAAGATGGCACATGGATATGGTGAAGAAAGTGAGGAAGAGAGGGGCCCTTGAGCC
GGGAAAGGGACGCCATCACAGAGGCAGGGGAGGGGAGCCACGTGCCTATTTTCATGTCTGACACCAGAGAAGAGAA
AAGGTTCTTGGGTGAAGGACACCACCGTGTCCAAGAAAACCAGATGGACAAGGCAAGGAGGCATCCACAAGGTGC
GTGGAAGAGCTGGACAGAAATTATCTCAACTACGGTGAGGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGA
CCTGCAGGACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAATATAGCTCCCATCACACAGCTGA
AAAGAGGAAGAGATTAGGGGAAGTGTTCACCCATACTACGACCTCTCCAGTGGAAGAGCAGCCATTTTGAAAG
AAGAGACAACATGAATGACAATTTTCTCGAGGGTGAGGAGGAAAATGAGCTGACCTTGAACGAGAAGAATTTCTT
CCCAGAATACAACATATGACTGGTGGGAGAAAAAGCCCTTCTCTGAGGATGTGAACTGGGGGTATGAGAAGAGAAA
CCTCGCCAGGGTCCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCAACTGGACCAGCTCCTTCTACTA
CAGGAAGAAGTCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTGAGCACCCACCAGGAGGCAGAAAA
TGAAAAGGACAGGGCTGACCAGACAGTCCTGACAGAGGACGAGAAAAAAGAACTCGAAAACCTGGCTGCAATGGA
TTTGGAACACAGAAAGATAGCTGAGAAATTCAGCCAAAAGGGGCT**TGA**CTGTCATTGGAGCGGTGGGCACTGTTAAG
AAGCAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCATTTATATACCCAAGGGCAGAAAGTAG
AACTTACTATTTCATTAAATGTTTGACACAATTGGAATTGTCTTTAATTTCTGTCAGAATGCTATTGAAAATGTGA
ATTGCATGACTTGTAGCATATTCTTTTCTGCAAAATAGACATATTAACATGCTTATGACAATGACTGTGCTACTG
TCTTTGGAAAAATGTTTGTCTCAGTTGGAATAATAAAGATTACCTGAGACC

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FIGURE 5680

MQPTLLLSLLGAVGLAAVNSMPVDNRNHNEGMVTRCIIIEVLSNALSKSSAPPITPECRQVLKTSRKDVKDKETTE
NENTKFEVRLLRDPADASEAHHESSSRGEAGAPGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSDSQVSE
EVKTRHSEKSQREDEEEEEEGENYQKGERGEDSSEEKHLLEPGETQNAFLNERKQASAIKKEELVARSETHAAGHS
QEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEESSEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP
SEEKGHPQEESEESNVSMASLGEKRDHSTHYRASEEEPEYGEIIGYPGVQAPEDLEWERYRGRGSEERYRAPRP
QSEESWDEEDKRNYPSELDKMAHGYGEESEEEERGLEPGKGRHHRGRGGEPRAYFMSDTREEKRFLGEGHHRVQE
NQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWQQQDLDQDTKENREEARFQDKQYSSHTAEKRKRLGELFNPY
YDPLQWKSSHFERDNMNDNFLEGEENELTLNEKNFFPEYNYDWWEKKPFSEVDNWGYEKRNLARVPKLDLKRQ
YDRVAQLDQLLHYRKKSAEFPDFYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELENLAAMDLELQKIAEKFSQ
RG

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FIGURE 5681

ATGCTAGCCTTGCGCGTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGGCGCCGCTTGGGCTCCGGGAACGCGGCCG
AGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCCGTGCCCTGCTGCTTGGGCTGCCTGGCCGAACGCTGGAGG
CTGCGTCCGGCCGCTCTTGGCTTGCGGCTGCCC GGATCGGCCAGCGGAACCACTGTTCTGGGCGCGGGGAAGGCG
GCTCCCAGGCCAGCGGCCGGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGTGGGGCCCCGGCGAGCACCCCC
AGCCTGTATGAAAACCCATGGACAATCCCGAATATGTTGTCAATGACGAGAATTGGCTTGGCCCCAGTTCTGGGC
TATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTTGCTTTAGCTGGACTAACAGATTTGTTGGAT
GGATTTATTGCTCGAAACTGGGCCAATCAAAGATCAGCTTTGGGAAGTGCTCTTGATCCACTTGCTGATAAAATA
CTTATCAGTATCTTATATGTTAGCTTGACCTATGCAGATCTTATTCCAGTTCCACTTACTTACATGATCATTTCG
AGAGATGTAATGTTGATTGCTGCTGTTTTTTATGTCAGATACCGAACTCTTCCAACACCACGAACACTTGCCAAG
TATTTCAATCCTTGCTATGCCACTGCTAGGTTAAAACCAACATTCATCAGCAAGGTGAATACAGCAGTCCAGTTA
ATCTTGGTGGCAGCTTCTTTGGCAGCTCCAGTTTTCAACTATGCTGACAGCATTTATCTTCAGATACTATGGTGT
TTTACAGCTTTCACCACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAA
GACTTGA

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FIGURE 5682

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKA
APRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLIIIEEDFNIALGVFALAGLTDLLD
GFIARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVFYVRYRTLPTPRTLAK
YFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQVIK
D

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FIGURE 5683

GCCTGGCTCCGTTTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCGTGCGCCTTCTACC
TCGCTGTTTCGGTTTTCTGGCTCCTCGGCCCTTTCTCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCT
GGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAATCATACAATTTATATCAACA
ATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGG
TGGACATTGTGGCTTTAAAGACCATGAAGATGAGGGGGCAGGCCTTTGTCATATTTAAGGAAGTGGGCTCATCCA
CAAATGCCTTGAGACAGCTACAAGGATTTCCATTTTATGGTAAACCAATGCGAATACAGTATGCAAAAACAGATT
CGGATATAATATCAAAAATGCGTGGAACCTTTGCTGACAAAAGAAAAGAAAAAGAAAAAGCCAAAAGT
TGGAACAGACTGCAACAACCACAAACAAAAGCCTGGCCAGGGAAGTCCAAATTCAGCTAATACCCAAGGAAATT
CAACACCAAAATCCTCAGGTCCTGATTACCTCCAACTATATTTTATTCCTTAATAACTTACCAGAAGAGACTA
ATGAGATGATGTTATCCATGCTGTTTAATCAGTTCCCTGGCTTCAAGGAAGTACGTCTGGTACCAGGGAGGCATG
ACATTGCTTTTGTGAAATTTGAAAATGATGGGCAGGCTGGAGCTGCCAGGGATGCTTTACAGGGATTTAAGATCA
CACCGTCCCATGCTATGAAGATCACCTATGCCAAGAAATAACATTGGGATAGTCGTCCTTTAAAGACTTGGTGT
TATTTACAGTGTGTTTTGATAACATTTGGCTGGGTCATTTTAATAGTTAGAGATGAGGAGGAGTAAAGTGAA
ATTTTTGTGAAGGACTTAAATTATCCAGTGTTCCTTAGCCTTGGTGAAGTATGAAATACGAAGGCCTTAATTTT
GTACAATAAACTTTTATTTGTATTCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5684

MDIRPNHTIYINNMNDKIKKEELKRSLYALFSQFGHVVDIVALKTMKMRGQAFVIFKELGSSTNALRQLQGFPFY
GKPMRIQYAKTDSDIISKMRGTFADKEKKKEKKKAKTVEQTATTTNKKPGQGTPNSANTQGNSTPNPQVPDYPPN
YILFLNNLPEETNEMMLSMLFNQFPGFKEVRLVPGRHDI AFVEFENDGQAGAARDALQGFKITPSHAMKIT YAKK

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FIGURE 5685

GAGAGGCGCCCAGGCGGCGGGCGGGCGGGCGGGCCCAGCTTCTTCTTTCTCGCACAGCCAGGCGGGCCCCTGCTCGAGT
CCCGCGTCGCC**ATG**GCCGCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAT
TTACAGTGCACACAAAGACCACACTGCCACGTTTCAGAGCCCAGAGTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAGC
CCGACTTTGATGGTCCTCGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAATTTG
CCAAGATGAAACAAGAAGCTGGAAGCTGAGTATCTCGCTGTGTTTAAGAAGACTGTGTCTCCCATGAAGTCTTTC
TTCAGCGGCTTTCTTCTCACCCCTGTTCCTCAGTAAAGATCGCAACTTTCATGTTTTCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAAGTGTTGGAAGTGTGATGAAG
TCCTTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAAGTCTCTTATTAAGTATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAATGTTGCCGATGACTATATCCACA
CCGCAGCCTGCTTACATAGCCTGGCTTTAGAAGAGCCACAGTCATCAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAACTAAGGAAAGTAGAGGGTCGAGTTTCATCAGATGAAGATTTGAAGCTAACAGAGCTCCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAAGT
CAAACAAAGCTCTGGATAAGGCCCGGTTAAAGAGCAAAGACGTCAAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACTTTCCGAATCTGCAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCAT
TTAGAAAGAATCTAATTGAAATGTCTGAACTGGAAATAAAACATGCCAGGAACAATGTCTCCCTTTTGCAGAGCT
GTATTGACTTGTTCAAGAATAACT**TGAT**ATGCCTTCACTCAGAAGAAAAGAAATGAATGTGAAAGAAAGCCAAGCA
TCACCTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTAAAAATATTATTGCTTGCTACTTGGACATAACTAAT
TTTTCTTGTGCATTTAATACTCTGGGCAGAATCCAAATACTGGGTTCTCCCGTAGTTTCGTCTTTAGTTACTAA
GAAAGGGTGTAGGACACATTAGCCTTCTGGAAACAAGTAGAAGCCATCACCTGGCCCATGTCCCTACAAACCCAT
GATTGTCAGGGAGGTGCCAGTTACAGCAGGTGATTGAGTACTTGGAGTTCGGTAAACAGACCTTCCATTCTCACT
GAAGGTGGGGTTTTGTGTTTTTGTGTTTTGCCCTGTTACTCCACTGGTAGTCATCTGGTGTGTTGTACTATAACAACAG
CAAGAAAATCTCATTTATCTTTATATACTCTTTGCACCTCCTTTTTTTTAGTCGAGATATAAATATTTGAGGGGAG
AGAAATATCTACAGGTATATATGGAACAAATAATGTGGTCTGCTTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATGGCCGCTGGGGGTGAGGGCGGTGTGTTGTATGTCTTTGGGTGTTTGTTTTTTT
ATAAAGCATATAATAAAATAATCGTGCTACT

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FIGURE 5686

MAAVPELLQQQEEDRSKLRSVSVDLNVDPQLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQLGEGEGSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRL
SSHPVLSKDRNFHFVLEYDQDLSVRRKNTKEMFGGFFKSUVKSADDEVLF TGVKEVD DFFEQEKNF LINYYNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYMYL
NIEAAKDLLYRRTKALIDYENS NKALDKARL KSKDVKLAEAHQQECCQKFEQLSESAKEELINFKRKRVA AFRKN
LIEMSELEIKHARNNVSL LQSCIDLFKNN

FIGURE 5687

GAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCCTCCTCGTGGAGCGGAGCAAGGGTAG
GCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTGGGAGGCTGCTCTGGGGGAGCACGT
GGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGGAGGCCTCCTGCCGCCGTGCGGGCAG
GGAGGCCCGGCGGAGGCGGGGCCGTGGCCGCCCCCGAGAGGCGCCAGGCGGCGGCGGCGGCCAGCTTCTTC
TTTCTTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTTCGCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAG
CAGGAGGAGGACCGCAGCAAGGTGAGGTCTCTCCAGCCTCAGACTCCTGGGCGGGCGGCCCTGCGAGCTCCGGGG
TCGCTGCATTCTTTCCCTTGCGCGTCCATAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGCGGGAAGCACCCGTG
AGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCGGGGAATCCCTGTGGATGTCCCGGATTCTA
TTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGACTTGAGAGATGATC
TCTGGAGACCCCGGAATGTTCTTTTTAAACCTTTCTCGGCTTCGTGGTGACCAGTAGGTGAACGTGAAATTGAC
TTAACATGCGACAGACCAGTTTGGTTTGTGCCCCAAAATACCTCCTTCCCCCACCTTTTACTGAGAAGACT
TTTTTGGGGGGGGGGCCCAAACAACCTTGGGAAATTGCATCAAGCGTCCGAACATGCTGCTTACAACCTTTAGAAAC
GAAAATGCGTTGTTGTGGGAGTTGTGTAATTTTAGTAGGTGCTCAAATACTTGCTGAACTTGGTGTCTATTTT
TAAGTCTTGCCATTGATGTAACTGTCCCTAGGTCACGTGTATCTTGAGGTCTAAAAGATTATTTATGCAATAA
ATTGAAATTC CATAGCCAATTAAGATTC

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FIGURE 5688

CTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCT
CCTCGTGGAGCGGAGCAAGGGTAGGCCCCACGTGGCGTCTTTGCCCCGGCTCCAAGATGGACGGCAGCGGGGACTG
GGAGGCTGCTCTGGGGGAGCACGTGGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGG
AGGCCTCCTGCCGCCGTGCGGCAGGGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCCGAGAGGCGCCAGGCGG
CGGCGGCGGCGGCCAGCTTCTTCTTTCTCGCACAGCCAGGCGGCCCTGCTCGAGTCCCGCGTCGCCATGGCC
GCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGC
GGGAAGCACCCGTGAGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGA
TGTCCCGGATTCTATTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGAC
TT

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FIGURE 5689A

GAGGGGTCGAGCCTGGGCAGTACAGGCGGCGGTGCGCACTCTGCGGCGGCCTCTGCGCCTCGGGCGGGCGGGGAGA
GAGAGGCCGCGGCCCGCCAGCGTGGGGATGTCTAGGAGCTCGAAGGTGGTGCTGGGCCTCTCGGTGCTGCTGACGG
CGGCCACAGTGGCCGGCGTACATGTGAAGCAGCAGTGGGACCAGCAGAGGCTTCGTGACGGAGTTATCAGAGACA
TTGAGAGGCCAAATTCGGAAGAAAGAAAACATTTCGTCTTTTGGGAGAACAGATTATTTTGAAGTACTGAGCAACTTGAAG
CAGAAAGAGAGAAGATGTTATTGGCAAAAGGATCTCAAAAATCATGACTTGAATGTGAAATATCTGTTGGACAGA
CAACACGAGTTTGTGTGTGTGTGTTGATGGAGAGTAGCTTAGTAGTATCTTCATCTTTTTTTTTTGGTCACTGTCC
TTTTAACTTGATCAAATAAAGGACAGTGGGTCAATAAGTTACTGCTTTCAGGGTCCCTTATATCTGAATAAAG
GAGTGTGGGCAGACACTTTTTTGAAGAGTCTGTCTGGGTGATCCTGGTAGAAGCCCCATTAGGGTCACTGTCCAG
TGCTTAGGGTTGTTACTGAGAAGCACTGCCGAGCTTGTGAGAAGGAAGGGATGGATAGTAGCATCCACCTGAGTA
GTCTGATCAGTCGGCATGATGACGAAGCCACGAGAACATCGACCTCAGAAGGACTGGAGGAAGGTGAAGTGGAGG
GAGAGACGCTCCTGATCGTCGAATCCGAGGATCAGGCATCAGTGGACTTATCGCACGACCAGAGTGGGGATTCCC
TCAACAGTGATGAAGGAGACGTGTCTTGGATGGAGGAGCAGCTGTCTTACTTCTGTGACAAGTGCCAAAAATGGA
TACCAGCCAGTCAGCTGAGGGAACAGCTCAGTTACCTTAAGGGTGATAATTTTTTTAGGTTTACTTGTTCGGATT
GCTCAGCAGATGGCAAGGAGCAGTATGAAAGGCTGAAGCTGACATGGCAGCAAGTCGTATGTTGGCAATGTACA
ACTTGTCTCTGGAAGGAAGTGGACGTCAAGGTTATTTAGGTTGAAAAGAAGATATCTGTGCTTTTATTGAGAAAC
ATTGGACTTTTTTACTAGGGAATAGGAAAAGACGTCTACCTGGTGGAGCACCGTGGCAGGTTGCCTCAGCGTGG
GAAGTCCCATGTACTTCCGTTTCAAGTGTCTCAGGAATTTGGAGAGCCAGGATGGTGGAACTTGTTCATAACAAGC
CCCCAACGATGAAACCTGAAGGAGAGAAGTTGTCTGCCTCTACTTTGAAAATAAAAGCAGCCTCAAAACCAACTT
TAGATCCCATCATTACTGTTGAGGGACTTAGAAAACGAGCAAGTCGGAATCCTGTGGAATCTGCCATGGAATTAA
AAGAGAAAAGGTCTCGAACTCAGGAAGCAAAAGACATTAGAAGAGCCCAGAAGGAGGCCGCTGGCTTTCTTGACA
GGAGCACATCTTCTACCCCTGTAAAATTCTATAAGCCGAGGCCGCGAGGCCAGATGTGATTCTGAAAAAGGCGAAG
TGATTGACTTTTCTCCTTGAGCTCCTCTGACCGCACCCCGCTGACAAGCCCATCTCCTTCTCCTTCTCTGGATT
TCTCTGCCCCCTGGTACACCTGCCTCTCATTCTGCCACACCTAGCTTGCTTTCAGAAGCAGATCTGATTCCAGATG
TGATGCCCCCACAAGCCTTGTTTCATGATGACGATGAGATGGAAGGCGATGGAGTCATAGACCAGGGATGGAGT
ACGTCCCAACCCCTGCTGGGTGAGTCTTCTGGGCCAGTGGTTGGGGTCAGAAAGAAGGTGAGAGGCCCTGAAC
AGATAAAGCAGGAGGTAGAGAGTGAGGAGGAAAAACCCGACAGGATGGATATTGACAGTGAAGACACAGATTCAA
ACACATCTTTGCAAAACAAGGGCTAGAGAAAAGAGGAAGCCTCAGCTGGAGAAGGACACAAAGCCGAAAGAGCCCA
GGTATACTCCCGTGAGCATCTACGAGGAAAAGCTGCTGCTCAAGAGGCTGGAAGCTTGTCGGTGCTGTTGCCA
TGACTCCGGAAGCTCGGAGACTGAAACGCAAACCTGATTGTGACACAAGCGAAAAGGGATAGGGGATTACCACTTT
TTGACTTGGATCAAGTTGTTAATGCTGCTCTTTTGTAGTTGACGGGATTATGGAGCCAAAGAAGGAGGAATTT
CCAGACTTCCAGCTGGACAAGCCACGTACAGAACCACCTGTGAGGACTTCAGAATCCTTGACCGATACCAGACTT
CCTTGCCGTCCAGGAAGGGATTTCGACACCAGACCACCAAGTTTTGTATCGCTTGGTAGGATCAGAAGATATGG
CTGTGGACCAGAGTATTGTGACCCCTTATACCTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAAACAA
AGCCACCCAACTGCAGCTCCTGTACAGATTCTGTTCCACCTGCACAGGAGCGACCCCTCACTGGACGCCGGAGC
CCGACGCACCTCTCGATTACTGTTATGTGCGGCCAAATCACATCCCAACGATCAACTCCATGTGTCAGGAGTTTT
TTTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTACCCAGACTTCAGTGTGTTGTTCTTTATAAAAAAGTCA
TCATTGCCCTTTGGCTTCATGGTTCCCTGATGTGAAATACAATGAAGCTTACATTTCACTTCTGTTCTCGTCCACCCTG
AATGGAGAAGAGCAGGGATTGCAACTTTCATGATCTATCATCTGATTTCAGACCTGCATGGGCAAGGACGTAACCC
TTCACGTCTCAGCAAGCAACCCTGCTATGCTACTGTACCAGAAGTTTGGATTCAAGACTGAAGAATATGTATTAG
ATTTCTATGATAAATATTACCCATTGGAGAGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGAT
GCGAATACAGCTCACAGAGAAACGCATGTGCTATTGGAGAACAGGTCTTTGTGGAGATCTAAAGGCAGTGATTGA
TTTCACAGGGAGCTCTAATCTCTGTGATTACATGGTCTTCAAACCTCCCAACCAAAAGTGAGAAAAGCGGCATGCA
GTGAAATGAGCAGTGAGCAGCCCTTTAGCAAAAATCGCCCTCCAGTCCTTCTGAGAGATGCCCTCAGCCAGCATCC
CAGACTCCACAGTTATTTATGAATGATGTCGTGATTCTCCCTCCACCTGACAGTTTGTAAAGAGTGAAAGAGCATC
TAACCTGATGCTCTTGGAGAGAGATAACCTGTCTGTCTATAACTTAAAGGATGAGAAAATGTGGTGTAGCTATTAA
AGATTTCATGCAGTCCCAAAAGGCACTGTCTGGGATGATGAGAGATTATAAGGTGATTTCAATAAAGGAATCCAA
CCCTGTGCCCCGCCATTGATGTGTTGTTCATTGAATCCAGGAGGATTTCTAGGGCACTGAAGTTTGTGTTTCTT
TTGCTGACTTTGGTTACAGTCAGAAAAAATAAACTAGATGTTTGTGTCTACATGTTCTACCTGTTGTACCTATTA

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FIGURE 5689B

GCATCTTCCTGCAGGGACTTGGGCCCATGGCCTGGGAGGTTGGTTTGGGATTGGGGTTGTTGGGCAGCCTGCCAT
TCACCTGGCCTATCCTGGCCCTTCTCATGCCCAAGACAGTTGTTTCACAGGAGTGGAAGTGTGGGTGATGCAAGT
AGAACCCTCTAGATGTACCCTGTGTGGTCTGCAGGACTGGACTGTTTGCTGTGTTTGTGGATGTTGGCGATAGAC
TGTCAATTAGGTTGTTTGTGATCCAACAAGAACATTTCCAAAAGTATCTAGGTGTTCTCAAATAAAAAGCTTTCT
TTGCACAACCC

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FIGURE 5690

MDSSIHLSLISRHDEATRTSTSEGLEEGEVEGETLLLIVESDQASVDLSHDQSGDSLNSDEGDVSWMEEQLSY
FCDKCQKWIPASQLREQLSYLKGDNFFRFTCSDCSADGKEQYERLKL TWQQVVMLAMYNLSLEGSGRQGYFRWKE
DICAFIEKHWTFL LGNRKKTSTWWSTVAGCLSVGSPMYFRSGAQEFGE PGWWKLVHNKPPTMKPEGEKLSASTLK
IKAASKPTLDPIITVEGLRKRASRN PVESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFI SRGRRP
DVILEKGEVIDFSSLSSSDRTPITSPSPSPSLDFSAPGTPASHSATPSLLSEADLIPDVMPPQALFHDDDEMEGD
GVIDPGMEYVPPPAGSVASGPVVGVRKKVRGPEQIKQEVESEEEKPDRMDIDSED TDSNTSLQTRAREKRKPQLE
KDTKPKEPRYTPVSIYEEKLLLKRLEACPGAVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLLV DGI
YGAKEGGISRLPAGQATYRTTCQDFRILDRYQTSLPSRKGRHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP
YIRRDYETKPKLQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFWPGIDLSECLQYPDFS
VVVLYKKVIIAFGFMVPDVKYNEAYISFLFVHPEWRRAGIATFMIYHLIQTCMGKDVTLHVSASNPAMLLYQKFG
FKTEEYVLDFYDKYYPLESTECKHAFFLRRLRR

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FIGURE 5691

ATGATGAACACAAACGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGGACTTTTAGAAAACATGGAGTTGTT
CCTTTGGTCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAA
GGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAGTGTTACCCAGCATGCTGTTGGCATTGTT
AGCATTAAATGTGCATACTGAGCACATGAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAGGAAAATG
ATCAGAAAAAAAAAAGAAGCCAAAGAGAAAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTG
GAACTTATTCCGTATGAATTCATGGCATTAA

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FIGURE 5692

MMNTNGKRRGTRYMFSTRFRKHGVVPLVTYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYSVTQHAVGIV
SINVHTEHMKHKSRSRDSFLKCMRKMIRKKKEAKEKEAHFVRTNGKEPELLELIPYEFMA

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FIGURE 5693

TGGGCGCGCCTTCCGGGTGTACCTCCAGAGGGCGCCGGCTGCGGAGCCTCCCTCAGAGTCGCGAGGCCGGACGC
ATCGCGGCGCCGCCCACTCGCCCCAGCCGCCGCC**ATGA**AGGCCGTGGTGCAGCGCGTCACCCGGGCCAGCGTCA
CAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCATATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGC
AGAAGGAACTGGAACACATGGTCCGAAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGT
CGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTCTAGCCAGTTTACCCTCCAGTGTGTCTTGAAGGGAA
ACAAGCCTGATTTCCACCTAGCAATGCCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCTGGAGCAGCTGC
GTAAAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGGGGCCTACATGCAGGTGCACATTCAGAATGATG
GGCCTGTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGACGGATTCTCGCT
CTGTCTCCCAGGCTGGAGTGCAGTGGCGCGATCTCCGTTTCATTGCAAGCTCCACCTCCCGGGTTCATGCCATTCT
TCTGCCTAAGCCTCCCAAGTAGCTGGGACTATAGGCACGTGCCACCATGCCCGGCTAATTTTTTTGTATTTTTTT**T**
AGTAGAGACGGGGTTTTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGCCCTGGTGTATCCACCCGCCCTCGGCCT
CCCAAAGTGCTGGGATTACAGGTGTGAACCTACCGCGCCCAGCCAAAGTTCACTAGGTTTTTTAAATGTCTTTTTT
CTGCTCCGGGATAATGCAGGATTCCACACGGCATTAGTTGTCAATTTCTGCTTAGTCTTCTCCAATCTGTGACAG
TTCCTCAGCCTTTTCTTGTCTTTTGTGACATTGATACTTTTTCAAGAGTACTAGTCTACTGTTTTGTAGAATGTTT
CTCACTTTGGGTTTTCTATGATTATATTGAGGTAATACATGTTGACAGGAATAGGAAATAGCACAGAAGTGATCT
TGTGCCCTTCATAGTGCATCCTACCAGGAGGTATGTGGTATTGATTTGTCTTGTACCTGTGATACCAGCCTTAT
TACTTGGTTTCAGGTGAAGTCTACCAGATACCTCCATGTTAGATGAAGTGCTAACCTCTTTCCCTTGTCTGTCTC
CTGGCTCATTCACAGCAGACAGCTCTCTCTCAGCTTTGCAGGGAAAGAAGCCAGCAGATGGCATTGACTCTGCTT
CTCTATCCCCCTTCTGCCACCGTGGTAGCAGAGCTACCCCTTTCCTGGGCTGAGTCCAGCCTCTCCCTGGGGCCAG
GACCAGCTACATAATTTGAGAGGCCAGTGTAATAATGAAAATGTGGGGCCCTTGTTCAAAAAATATTACAAATT
TCAAGGTGGTGACATAGAGCATAAAACGAAAGGTGGGGCCCTCTGAAGGTGGGGCCTGTGTGACTGCTCGGCTG
TGGGTCTAGACTGACCTGGGCTTTGGAGCCCTTCCCTTCCACCTCCTCAGCAGCTTCTGGAAGCCTCTGTCTC
TTGTTGGTTCTGTCTGCCTCTCACAGTCATCCATCTTATCCCATTTGGGTTTTAAATATGCCCAAATGTCTCCAAT
TGAGAAATGCTTCCATTTTCTCCCTTCTGCTCTGCCACAGTGTCTTGGGTCTGTAAAGGTCTCACCGAGGGCC
CCAGTGACCTCACATTGCTTTATTTTCATGCCATTTTTTCAGAACACTTTTCTTGCCACTGCTGCCCCTTTTGCC
CCTGGAATGGCTGGAGCCTTGTTTTCCAGGACGTCATTCTCTCTGGGTTTTTGTCTTGCCTCTGGCTACTCCCT
CTGGTTTTTATTTGATCATTATTCCATAGTTTTTAGTTATTATTCTGCTTTAACTCTATTTGGAGAAAAATTTAG
TCTTTTTTTCATTCTAAATATTTTTCCGGAATGGTAGAATAGTACATTTTGCCTTTAGAATCTTCACCTTTCTT
TCAACCAGTACCTCTTCTTGTTTAGGTCAAAGGGTACAAAGATGCAGTTATTTTGGGTGAGTAAGTCTCAAGAT
CTAATGTACACCATAAGGAGTGCAGTATCATATTGTGCACTGGGAGTAGATTTAGGAATTCTCAGCACACACAGA
ATAAAGGACGGTAACCTGTGTGAGATGCTGGACATGTAATTTACTTGACTGTAGTAATCACTTCACTATGTGTATG
TAGATCAGAGCATCATGTGTACACCTTATACAATAAATCCCTCTCCCCAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5694

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVMDKQYEIL
CVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAP
GTATSDPKQTDSRSVSQAGVQWRDLRSLQAPPPGFMPFFCLSLPSSWDYRHVPPCPANFFVFF

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FIGURE 5695

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCTGAATCCGGGTTCATCCGACACC
AGCTGCCTCCACCATGCTGCCGAAGTTCGACCCGAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT
TGCCAAGGCAATGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTAACCATTTCAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCTTCTGCCTCTGCCATGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCAATCCTT
AGCCAGAGAACTCTCTGGAACCACTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTGATGGCCG
CCACCCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTAGAATGCCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAGGATCATTGACAA

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FIGURE 5696

ATGAAAGTCGAGCTGTGCAGTTTCAGCGGATACAAGATCTACTCCGGACACAGGAGGCGCTACGCCAGGACCGAA
GGGAAGGTTTTCCGGTTTCTTAATTCAAAATGCGAAGGGATCAGAAACCTGAAGTTAGAAAAGGCTCAAAGAGAAC
AAGCTATCAGGGCTGCTAAGGAAGCAAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAG
GCACCTACAAAGGCAGCACCTAAGCAAAAAGACTGTGAAGGTTGTGAAAGTTTCAGCTCCCCAAGTTGGTGGAAAA
CGC**TAA**

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FIGURE 5697

MKVELCSFSGYKIYSGHRRRYARTEGKVFRFLNSKCEGIRNLKLERLKENKLSGLLRKQKKAKQASKKTAMAAK
APTKAAPKQKTVKVVKSAPQVGGR

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FIGURE 5698

AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCACCAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTCAAGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA
ATGCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCCAGCCTAACCATGA
CCCAAATACTCATCATTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAAACAAGCCCAAACCATGTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAAGGGAAAGCATGATGAACTTGCCGATAGTCTTCCTTGTC
AGAAGGAGAGTTTATCTTCCTTCGGCTTAATGTTCTTCGTGAGTATTTGGAAAGAGAACTCACAATGGCCAGCCT
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTTCATGTGCTTCTTTGTGGGAAATGACTTCCT
CCCTCATTTGCCATCGTTAGAGATTAGGGAAAATGCAATTGACCGTTTTGGTTAACATATACAAAAATGTGGTACA
CAAACTGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTTAAAAAGAGAAAAGGATGATGAGGACAGTTTTAGAAGACGACAGAAAGAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCACTCCTAGTGGAATATTAACCTCCTCATGCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTCACATCTGATGGCTCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTCAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCGCTCGGAAAGTTGTGCAGTCGTACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCCTGGAAGTGGTATTATCCATTTTATTATGCACCATTTCG
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAGAAGGTACGAAACCGTTTAAACCACCTAGAACA
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCCTGA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGTGGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGAGGTTGATGTCTTATTTGTGGGGAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGAGGTACCCCTGAACTATGTATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAAATAGTATGTTCTCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGTGTAAGATTACATTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAACCTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCCAGATTCCAAAACCTATGTCAAATATGAGGCCCCAGGATTCTTGCCGAGGTCC
TCCTCCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAACCCAGAATGCAGCCTTCCAGCCAAACCAGTACCAGATGCTAGCTGGGCCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAAGCTTTCCCAAATCCTTTTATCATTCTACAGTTTTATGCTATTTGTGGAAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGTATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTT
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTTATTGCACAAGAATTAGGTTTGAAGTCTTGA
GCTGGAACCTCAGCAAACCTAGAGTATATATTGTTTCAATTTCTTTGGAAACATTTTATTAATGTACTTGTCTTA
CAGAAATTTCTGAACCTTTAGTAAAAAAAATAAAGTTAACTTTTAAACTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5699

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDFEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSSRRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRNLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFVGNDFLPHLPSLEIRENAIDRLVNIYKNVHKTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKF
DVDAADEKFRRKVVQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKPFKPLEQLMG
VFPAASGNFLPPSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLTPETTR
RNSLGGDVLVFGKHHPLHDFILELYQTGSTPEVEVPPELCHGIQGFSLDEEAILPDQIVCSPVPMRLDITQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKP SDWEKSSNGRQWKPOLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPPVTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDGRGVGAEP LLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDDRGRQGYPREGRKYPLPPPSGRYNWN

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FIGURE 5700

CCCGCCCACTTCCAACCTACCGCCTCCGGCCTGCCCAGGGAGAGAGAGGGAGTGGAGCCCAGGGAGAGGGAGCGCG
AGAGAGGGAGGGAGGAGGGGACGGTGCTTTGGCTGACTTTTTTTTTAAAAGAGGGTGGGGGTGGGGGGTGATTGCT
GGTCGTTTGTGTGGCTGTTAAATTTTAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGG
AAGGGCACGAGCCGTCGACTGGAGCAGCTACTATGCAGAGCCCCAGGGCTACTCCTCCGTGAGCAACATGAACG
CCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTGCGCGGCCGCCATGGGCAGCGGCTCGGGCAACA
TGAGCGCGGGCTCCATGAACATGTCGTGCTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGGATGTCCCCCG
GCGCGGGCGCCATGGCGGGCATGGCGGGCTCGGCCGGGGCGGCCGGCGTGGCGGGCATGGGGCCGCACTTGAGTC
CCAGCCTGAGCCCGCTCGGGGGGCGAGCGGGCCGGGGCCATGGGCGGCTGGCCCCCTACGCCAACATGAACGCCA
TGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGCGACCCCAAGACCTACAGGCGCAGCTACACGCACG
CAAAGCCGCCCTACTCGTACATCTCGCTCATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGA
GCGAGATCTACCAGTGGATCATGGACCTCTTCCCTTCTACCGGCAGAACCCAGCAGCGCTGGCAGAACTCCATCC
GCCACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCCGCTCGCCCGACAAGCCCGCAAGGGCTCCTTCT
GGACCTGCAACCTGACTCGGGCAACATGTTGAGAACGGCTGCTACCTGCGCGCCAGAAAGCGCTTCAAGTGCG
AGAAGCAGCTGGCGCTGAAGGAGGCCGCGAGGCGCCGCGGCAGCGGCAAGAAGGCGGCCGCGGAGCCAGGCCT
CACAGGCTCAACTCGGGGAGGCCGCGGGCCGGCCTCCGAGACTCCGGCGGGCACCAGTGCCTCACTCGAGCG
CCTCCCCGTGCCAGGAGCACAAGCGAGGGGGCCTGGGAGAGCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCC
CAGAGCCGGCGCCCTCTCCCGGCAGCAGCAGCAGGCGCGGCCACCTGCTGGGCCCCCCCCACCACCCGGGCC
TGCCGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACCACCCGTTCTCCATCAACAACCTCATGT
CCTCGGAGCAGCAGCACCACCACAGCCACCACCACCAACCCACAAAATGGACCTCAAGGCCTACGAACAGG
TGATGCACTACCCCGCTACGGTTCCCCCATGCCTGGCAGCTTGGCCATGGGCCCCGGTCACGAACAAAACGGGCC
TGGACGCCTCGCCCCTGGCCGCAGATACCTCCTACTACCAGGGGGTGTACTCCCGGCCATTATGAACCTCCTCTT
AAGAAGACGACGGCTTCAGGCCCGGCTAACTCTGGCACCCCGGATCGAGGACAAGTGAGAGAGCAAGTGGGGGTC
GAGACTTTGGGGAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACCCCCAA
GACAGCAGTCTTCTTCAACCGCTGCAGCCGTTCCGTCCCAACAGAGGGCCACACAGATACCCACGTTCTATAT
AAGGAGGAAAAACGGGAAAGAATATAAAGTTAAAAAAAAGCCTCCGTTTCCACTACTGTGTAGACTCCTGCTTCT
TCAAGCACCTGCAGATTCTGATTTTTTTGTTGTTGTTGTTCTCCTCCATTGCTGTTGTTGTCAGGGAAGTCTTACT
TAAAAAATAAATAAATTTTGTGAGTGACTCGGTGTAAACCATGTAGTTTTTAACAGAACCAGAGGGTTGTACTA
TTGTTTAAAAACAGGAAAAAATAATGTAAGGGTCTGTTGTAAATGACCAAG

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FIGURE 5701

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGTTCCG
AGCCCCACTTCCGGGCGGTGAGAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCCGCCATGAG
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCATTTCCGCGTACGGGGGAGGGCGGG
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTCTGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAG
GCGGACGGGCTGCGACAGCGCCGGCCCCCTGCGGCCGAGGTGCTCACAGACGATGATGGCCAGGCCCCGGAGGCT
AAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTCTCTCACC GTTCCC
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCGCTCTTG
CTTGGTGTCTGTCATCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAAAATCAACTTGTGGACCGGAG
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTGCTAAAACCTTGAAAATGGTGAA
ATAGAGACCATTGCCCCGTTTGGTTGCGGGCCCTTGCAAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG
GGTATCCGTGACAGGGCCCAATGGGACTCTCTTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG
AAACGTGAAGTGAAACTGCTGCTGTCTCCGAGACACCCATTGAGGGGAAGAACATGTCTTTGTGAATGATCTT
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT
CTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTATGATACTGTGACCAGGGAAGTAAAGTTTTATTG
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGCAGAAGACTTTGTCTGGTGGGCAGAAAACAACCATG
GCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTTGTGGAGAACATGCCTGGA
TTTTCCAGACAACATCCGGCCCAGCAGCTCTGGGGGGTACTGGGTGGGCATGTGACCATCCGCCCTAACCCCTGGG
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCCTGGATTAAAAGGATGATTTTTTAAGCTCTTTAGTCAAGAGACG
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCTTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAAGCCTGCAT
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC
AGGTCCCCCTTCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCCCTCCAGATAGCTGCCCCCTGCCACGCAGGCC
AGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCCACAT
GCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCCCTCGAGGATGCCCCGGCCCCACCTGGGCTT
GTCTTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA
ACAAAACAAAACTTTCTAAGTACAGTCATTCTCTAGGATTTGGGAAGCTCCTTGCACTTGGAACAGGGCTCAGGT
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCTGCGGCCCTCAAAGTTCTTCTTTAC
TATATATAACGTGCGGTCATACCTTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTG
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAACGTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC
TCCATAGTGTGATGAAAAGCTTGTTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTCTGTGAATAT
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAACGTCT
TGTCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTCATCTTTGCTCAT
GTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAAATAA
CGATAAATCG

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FIGURE 5702

MSEADGLRQRRPLRPQVVTDDDGQAPEAKDGSSFSGRVFRVTFMLAVSLTVPLL GAMMLESPI DPQPLSFKEP
PLLLGVLHPNTKLRQAERLFENQLVGPESIAHIGDVMFTGTADGRVVKLENGEIETIARFGSGPCKTRDDEPVCG
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD
YLLLVMEGTDDGRLL EYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN
MPGFPDNIRPSSSGGYWGMSTIRPNPGFSMLDFLSERPWIKRMIFKLFSQETVMKFVPRYSLVLELSDSGAFRR
SLHDPDGLVATYISEVHEHDGHLYLG SFRSPFLCRLSLQAV

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FIGURE 5703

GTGGGGTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGGAGCCCCAAAAGACCGGCTGCCGC
CTGCTCCCCGAAAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGCGGTGCATGGAATGGGCTATGTGAATG

AAAAAAGGTATCCGTTATGAACTTCCAGAAAAACGAGCTACATTTTTTCAGCAGCCGCAGCACGGTCCTTGCCAA
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG
GGCGTGTTTCACTATGTTGCCTACATCAAGTGGCACCAGGGCCACCGCCACCCAGGCCTTCTTCAGCATCACCAGG
GCAGCCCCGGGGGCCCCGGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTACCCGGCCCCCAGAGAA
ACTCCACGTTAACCACGAAACCTTCAAAGCAGTGAAGCCAGGTCTTTCTGCCTATGCTGATGATGTTGAAAAG
AGCGCTCAGGGAATCCGGGAACCTACTGGATGTTGCTAAACAGGACATTCCGTTTCGACTTCTGGAAGGCCACCCCT
CTGGTCTCAAGGCCACAGCTGGCTTACGCCTGTTACCTGGAGAAAAGGCCAGAAAGTTACTGCAGAAAGGTGAAA
GAAGTATTTAAAGCATCGCCTTTCTTGTAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT
TCGGCGTGGATCACCATCAACTTCTGACAGGCAGCTTGAAAACCTCAGGAGGGAGCAGCGTGGGCATGCTGGAC
TTGGGCGGAGGATCCACTCAGATCGCCTTCTGCCACGCGTGGAGGGCACCCCTGCAGGCCTCCCCACCCGGCTAC
CTGACGGCACTGCGGATGTTTAAACAGGACCTACAAGCTCTATTCTACAGCTACCTCGGGCTCGGGCTGATGTCG
GCACGCCTGGCGATCCTGGGCGGCGTGGAGGGGCAGCCTGCTAAGGATGGAAAGGAGTTGGTCAGCCCTTGCTTG
TCTCCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTCACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT
GTGGACTTCTATGCTTTCTCCTACTATTACGACCTTGCAGCTGGTGTGGGCCTCATAGATGCGGAGAAGGGAGGC
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTGCGACCCTGGAGACACAGCCGCAGAGCAGC
CCCTTCTCATGCATGGACCTCACCTACGTACGCCTGCTACTCCAGGAGTTTCGGCTTTCCCAGGAGCAAAGTGCTG
AAGCTCACTCGGAAAATTGACAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTTCATTACATCGACTCCCTG
AACAGACAGAAGAGTCCAGCCTCATAGTGGCCGAGCCATCCCTGTCCCCGTACAGAGTGTCTGTGTGTCTGCATA
AACCTCTCTGTCTGGACGTGACTTTCATCCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTTCTGCACACTGG
CTCTGGGACTTGACAGAAGGCCTGGTGTGCTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT
GGACCTGGGCCCCTGCTCAATGCCACCTGTCTGCCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACCACAGGCAC
ACACTGAGGGGGCAGTGTGGCTCCCTGCCTGTCCCATCCCCATGCCCGTCCGCGGGGCTGTGGCTGTGCTGTG
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTCAGTTTCTCCAGGGCAGAGCTCCCCCTTCTGCAAG
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCCGGGACAGT
AGGTCTGGGCGGCACCACTGGGAACCTCTGGACTTGAGTGTGTTTGCTCTTCTTGGGTATGAATGTGTGAGTTCA
CCCAGAGGCCTGCTCTCCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCTTCATAGACGGC
AGGTGCCCACCTTTTCAAGGAGTCTCCCAGCATGGGCGGATGCCGGGCATGAGCTGCTGTAAACTATTTGTGGCTG
TGCTGCTTGAGTGACGTCTCTGTCTGTGGGTGCCAAGTGCTTGTGTAGAACTGTGTTCTGAGCCCCCTTTTCT
GGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCCTAGCCAGGGCCATGTCTTAGGTGC
AGCTGTGCCACGGGTCAGCTGAGCCACAGTCCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCCACCT
CGGGCTGACCCACCTCCTCCATGGACAGTGTGAGCCCCGGGCGGTGCATCCTGCTCAGTGTGGCGTCAGTGTGCG
GGGCTGAGCCCCCTGAGCTGCTTCAGTGAATGTACAGTGCCCGGCACGAGCTGAACCTCATGTGTTCCACTCCCA
ATAAAAGGTTGACAGGGGCTTCTCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5704

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYIKWHRATATQAFFSIT
RAAPGARWGQQAHSPLGTAADGHEVFYIGIMFDAGSTGTRVHVFQFTRPPRETPTLTHETFKAVKPGLSAYADDVE
KSAQGIRELLDVAKQDIPDFWKATPLVLKATAGLRLLPGEKAQKLLQKVKEVFKASPFLVGDDCVSIMNGTDEG
VSAWITINFLTGSLKTPGGSSVGMLDLGGGSTQIAFLPRVEGTLQASPPGYLTALRMFNRTYKLYSYSYLGLGLM
SARLAILGGVEGQPAKD GKELVSPCLSPSFKGEWEHAEVTYRVSGQKAAASLHELCAARVSEVLQNRVHRTEEVK
HVDFYAFSYYYDLAAGVGLIDA EKGGSLVVGD FEIAAKYVCRTLETQPQSSPFSCMDLTYSLLLQEFGFPRSKV
LKLTRKIDNVETSWALGAIFHYIDSLNRQKSPAS

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FIGURE 5705A

GAGCAGCTGCACCATCCCGGCGTTTCGCGTGTGCCGCCGCTTTCCTCCTCCATCTCTTTTCCCTCCGCCTCCGCCGG
CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGCGCGGCCTGGCGGGGCTAGGCGA
CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACCTTGCACTTCACGCTGGTCAAGGACCGCAATGTGGCCACGCC
CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGC GCGACCACCTCGTGGGCCGCTGGATCCGCACGCAGCAGCA
CTACTACGAGCGCGACCCCAAGCGCATTATTATTATCTTTCCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC
GATGGTGAACCTGGGCCTTCAGAATGCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAACCTCGA
GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCCTGGGGAGGCTGGCAGCGTGTTTCTTGACTCAATGGC
TACCTTGGGCCTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTTAACCAGAAGATTGTCAATGG
CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCCTGAGTATATGCT
TCCCGTGCACCTTCTACGGACGCGTGGAGCACACCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGCTGGC
CATGCCCTACGACACCCCAAGTGGCCGGCTACAAGAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC
TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTGGACCGGAACTTGGCTGA
GAACATCTCCAGGGTCTGTATCCAAATGATAACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT
CGTGGTGGCCGCCACGCTCCAGGACATCATCCGCCGCTTCAAGTCGTCCAAGTTGCGCTGCCGGGACCCTGTGAG
AACCTGTTTCGAGACGTTCCAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCCGCCCTCTCCATCCCTGA
GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCCTGGGAAATCACGAAGAAGACCTGTGC
ATACACCAACCACACTGTGCTGCCTGAGGCCTTGGAGCGCTGGCCCGTGTCCATGTTTGAGAAGCTGCTGCCGCG
GCACCTGGAGATAATCTATGCCATCAACCAGCGGCACCTGGACCACGTGGCCGCGCTGTTTCCCGCGCATGTGGA
CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGGACTGCAAGCGGATCAACATGGCCACCTGTGTGTGATTGG
GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAACAGTCGGTCTTTAAGGATTTTTATGA
ACTGGAGCCAGAGAAGTTCAGAATAAGACCAATGGCATCACCCCCCGCGGTGGCTGCTGCTGTGCAACCCGGG
GCTGGCCGATACCATCGTGGAGAAAATTGGGGAGGAGTTCTGACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC
GCTGGTCAGTGACGAGGTGTTTCATCAGGGACGTGGCCAAGGTCAAACAGGAGAACAAGCTCAAGTTCTCGGCCCT
CCTGGAGAAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGGATCCACGAGTA
CAAGCGGCAGCTGCTCAACTGCCTGCACGTGCTACCCCTGTACAATCGAATCAAGAGAGACCCGGCCAAGGCTTT
TG TGCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGTTACCACATGGCCAAGCTGATCATCAAGTTGGT
CACCTCCATCGGCGACGTGCTCAATCATGACCCAGTTGTGGGTGACAGGTTGAAAGTGATCTTCTTGAGAACTA
CCGTGTGTCTTGGCTGAGAAAGTGATCCCGGCCGCTGATCTGTGCGCAGCAGATCTCCACTGCAGGCACCGAGGC
CTCAGGCACAGGCAACATGAAGTTTCATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA
GATGGCCGAGGAGGCCGGGGCCGAGAACCTCTTCATCTTCGGCCTGCGGCTGGAGGATGTGAGGCCTTGGACCG
GAAAGGGTACAATGCCAGGGAGTACTACGACCACCTGCCCCGAGCTGAAGCAGGCGCTGGACCAGATCAGCAGTGG
CTTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT
GTTTGCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGGAACCCCAAGGAGTGGAC
CAAGAAGGTATCAGGAACATCGCCTGCTCGGGCAAGTTCTCCAGTGACCGGACCATCACGGAGTATGCACGGGA
GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTACAGCACTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC
CTGCTGGGCTCCCCAGAACTTGCACACATCTTGCTATGTATTAGCCGATGTCTTTAGTGTTGAGCCTCTGGAT
TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTTACTGCAGCATCTGGGCTGCCAGCCACAG
GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCCTGCCAGCCCTGCCTCCTGGCCATGCCGGGAGGGGTTCGGAT
CCTCTAGGCATCGCCTTCACAGCCCCCTGCCCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTCATGG
ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGGTGCTTGAACCCGGGATGACTGAGGG
GGACACTGGAGTGGGTGCTTGTGTCTGCTGTCTCAGAGGCCTTGGTCAGGATGAAGTTGGCTGACACAGCTTAGC
TTGGTTTTGCTTATTCAAAAGAGAAAATAACTACACATGGAAATGAACTAGCTGAAGCCTTTTCTTGTTTTAGC
AACTGAAAATTGTACTTGGTCACTTTTGTGCTTGAGGAGGCCCCATTTCTGCCTGGCAGGGGGCAGGTCTGTGCC
CTCCCGCTGACTCCTGCTGTGTCTGAGGTGCATTTCTGTTGTACACACAAGGGCCAGGCTCCATTCTCCCTCC
CTTTCCACCAGTGCCACAGCCTCGTCTGGA AAAAGGACCAGGGGTCCCGAGGAACCCATTTGTGCTCTGCTTGG
ACAGCAGGCCTGGCACTGGGAGGTGGGGGTGAGCCCTCACAGCCTTGCCCTCCCCAAGGCTGGCAACCTGCCT
CCCATTGCCCAAGAGAGAGGGGAGGGAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTT
GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTTCTCCCTGGCCTCCAGTGCCACCAGGAGGATCTGCGCACG

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FIGURE 5705B

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGCCACCACCTGACCAC
CACTGTGCCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

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FIGURE 5706

AGGCTACGGTTCGCGCCAGCGGCCGGCGCT**ATC**GGGCTGAGCCGCGTGCGGGCGGTTTTCTTTGACTTGGACAAC
ACTCTCATCGACACGGCCGGGGCGAGCAGGAGAGGCATGTTGGAGGTGATAAACTCTTACAATCAAAATACCAT
TATAAAGAAGAGGCTGAAATCATCTGTGATAAAGTTCAAGTTAACTCAGCAAGGAATGTTTTTCATCCTTACAAT
ACATGCATTACTGATTTAAGGACTTCACATTGGGAAGAAGCAATCCAGGAAACAAAAGGTGGTGCAGCCAATAGA
AAATTGGCTGAAGAATGTTATTTTCTTTGGAAATCTACACGTTTACAGCATATGACACTAGCAGAAGACGTCAAA
GCCATGCTTACTGAACTTCGAAAGGAGGTCCGCCTACTTCTATTAACGAATGGGGACAGACAGACCCAGAGGGAG
AAGATTGAGGCTTGTGCCTGTCAGTCCTATTTTGACGCTGTTGTTGTAGGTGGAGAGCAGAGAGAGGAGAAACCA
GCACCGTCCATATTTTATTACTGCTGCAATCTTCTCGGAGTACAACCTGGGGACTGTGTGATGGTCGGTGACACA
TTAGAAACCGACATCCAAGGAGGCCTCAATGCAGGATTGAAAGCAACAGTCTGGATCAATAAAAAATGGAATAGTG
CCACTGAAGTCCTCCCCAGTTCGCGATTACATGGTTTCTTCTGTGCTAGAGTTACCTGCTCTCTTACAAAGTATA
GACTGCAAAGTCAGTATGTCCACT**TAA**AGCACATAAAAGGGCATGATTATGAATGTTAGAATCAATTTGCTGAGT
ATGAAATAAGAAAAGTTAGGGCACTCCACTTATGATAATCCAGCTCTAAGAATAATTTTACTTATGATTTAATGG
CCAATATTTTGAAGGTCTTCCCAACCTATTGCTTCTAAGTTGTAACAACCAACCATTGAGTGGTACTTATATCT
GAAAATTCAGATTGCATGAATTCAGGTCAGTAGTATAGCCCAGAAAATTTAAGGAAATATATTATTTGTTAGTCT
GTATCTGGAGCTTTTTTAAAATTATGTTATTAATCTTTTAGTATCTTGGCTGCATAATGCCAAGCAGGATTGCTTT
ACACATGGATGCACAAATGTAAGGTTTATCTTCTGGCTTAAAAATAGATATTTTTTAAAAAATAGATTTTCTAAAA
CACAGATTTTATGAAAGCAAGTGAATCTGGTTAATATGAAATAAGTACTAAGTCACATGCAAATCAAGGTATTATA
TAGTGAAATTATTTTGCATATTTTGAAAACATAAACCATAGTTTTTGCCTACTTTGGATGTATACTTTCTTTTAT
GAACCTGATTTTTCTGTATGACATTTTTTTTTTTTTTTCAGAGGGCAGGGAGCAATTTTTCTATGGCATGTGACAGA
TTCTCCAGTTAGAAAAAGCTGTTAAATCAACACATGGTGCTCCTTTACCGTGACATTTTCTCACCTGTGCACA
GTGAGCCGGTAGCTTCCTTTTAGTCTTCACCTCTCAAGGAAATGTTTTTACTGTCTTTTCCCAGACACACAGTGG
GGTTGAGGGAGCTAGGCTGTTTTGCTAGAGATAATTGCAAGGCACGTGGCACTAAAAGTCATTTTTCTTCTGTGG
ATCCATAAGAGGAACATTTCTCAGTGTAGCCTAACAATGCAGCCCCCAATCTGTTCTTTTTTTTTTTTGAATG
GGATCTCTGTCGCCCAGGTTGGAGTGCCATGGCACCATCTCGGCTCACTGCAACCTCTGCCTCCTGAGCTCAAGT
GATCCTCCACCTCAGCCTCCCAAGGGTGTGTGTGACTACAAGTACACACTACCACGCCAGCTAATGTGTGTTT
TTGTAGAGATGGGATTTTGCCATGTTGCCCAGGCTGGTCTCGAATTCCTGGATTCAAGTGATCCTCCACCTCAG
CCTCCTAAAGTCCTAGGATTATAGGCATGAGCCACTGTGCCTGGCCCCCTCATCTGATAGAAAATTAGATTTTGC
TATGAGCCATTTCTGAGGGCCAATTTAATACTCGTGTGACTCTTCTTAGAGTTACCATCTGCCTTAAATTTCT
CTGTTTTTACATTCTTGAAATATATCATTGTTTTGCAAATTTCTATATCTAATTCAGGGTTTACCAGGAGCTT
AATAATTAATGGCTACATAGCAAGGCATCGTCTTGGAACCGGAGAATTTTCTCTAGACTATTAGGCTAGACAGTC
TCATGATTATACTAACCACCTGGAGTAAAGTGGTTGAAAAAAGAAAGTATAAAGGGGCTTATTAAAGTGGT
TAATAAATATGA

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FIGURE 5707

MGLSRVRAVFFDLNLTIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSH
WEEAIQETKGGAANRKLAEECYFLWKSTRLOHMTLAEDVKAMLTRELKVRLLLLLTNGDRQTQREKIEACACQSY
FDAVVVGGEQREEKPAPSIFYCCNLLGVQPGDCVMVGDITLETDIQGGLNAGLKATVWINKNGIVPLKSSPVPHY
MVSSVLELPALLQSIDCKVSMST

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FIGURE 5708

CTTCCTGTTGCCTTAGGGGAACGTGGCTTTCCCTGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACC
GGAGCTGGAGTCGGATCCCGAACGCACCCCTCGCC**ATCG**ACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGA
GGCAGGCGGCCCCACCAACAGCACTACGCGGCCCGCCTTCCACGCCCCGAGGGCATCGCGCTGGCCTACGGCAGCCT
CCTGCTCATGGCGCTGCTGCCCATCTTCTTCGGCGCCCTGCGCTCCGTACGCTGCGCCCCGCGGCAAGAATGCTTC
AGACATGCCTGAAACAATCACCAGCCGGGATGCCGCCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCT
CTACCTCTTTTTCAAATATTCTCCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAAT
CCTGGCCCTGTCCACACCATCAGCCCCCTTCATGAATAAGTTTTTTCCAGCCAGCTTTCCAAATCGACAGTACCA
GCTGCTCTTCACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTTGACACCAAGGACCTGGT
GTGCCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACAACCTTTTTTG
CCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTGAGCACTGGCTGCATCCTGCTGGGCGG
ACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCAAGTCCTTCGAGGCACC
AATAAAATTGGTGTTCCTCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAACCTTTGCCATGCTGGGACTTGG
AGATGTCGTCATTCCAGGGATCTTCATTGCCTTGCTGCTGCGCTTTGACATCAGCTTGAAGAAGAATACCCACAC
CTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCCTTACCATCTTCATCATGCACATCTTCAAGCA
TGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCCTGCATCGGTTTTCTGTCTCTGGTGGCGCTGGCCAAGGGAGA
AGTGACAGAGATGTTTACGTACGAGTCCTCGGCGGAAATCCTGCCTCATACCCCGAGGCTCACCCACTTCCCCAC
AGTCTCGGGCTCCCCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCCGCA
GAATCCCAGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGGCAGTGACAGAATCCAAAAGAGGGAACAGA
GGCATCAGCATCGAAGGGGCTGGAGAAGAAAAGAGAAATGATGCAGCTGGTGCCCGAGCCTCTCAGGGCCAGACCA
GACAGATGGGGGCTGGGCCCCACACAGGCGTGACCCGGTAGAGGGCACAGGAGGCCAAGGGCAGCTCCAGGACAGG
GCAGGGGGCAGCAGGATACCTCCAGCCAGGCCTCTGTGGCCTCTGTTTTCTTCTCCCTTTCTTGGCCCTCCTCTG
CTCCTCCCCACACCCTGCAGGCAAAAAGAAAACCCCCAGCTTCCCCCCTCCCCGGGAGCCAGGTGGGAAAAGTGGGT
GTGATTTTTTAGATTTTGTATTGTGGACTGATTTTGCCTCACATTAAAAACTCATCCCATGGCCAGGGCGGGCCAC
TGTGCTCCTGGAA

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FIGURE 5709

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLL MALLPIFFGALRSVRCARGKNASDMPETITSRDA
ARFP I IASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQLLFTQGSGENK
EEI INYEFDTKDLVCLGLSSIVGVYLLRKHWHIANNLFGLAFSLNGVELLHLNNVSTGCILLGGLFIYDVFWVFG
TNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMLGGLGDVVIPGIFIALLLRFDISLKKNTHTYFYTSFAAYIF
GLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMFSYEESNPKDPAAVTESKEGTEASASKGLEKK
EK

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FIGURE 5710

GTTCCATTTTCCGTATCTGCTTCGGGCTTCCACCTCATTTTTTTTCGCTTTGCCCATTTCTGTTTCAGCCAGTCGCC
AAGAATCATGAAAGTCGCCAGTGGCAGCACCGCCACCGCCGCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAA
GACAGCGAGCGGTGCGGGCGAGGTGGTGGCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGGGGG
CGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGCTGCTCTACGACATGAACGGCTGTTA
CTCACGCCTCAAGGAGCTGGTGGCCACCCTGCCCCAGAACCGCAAGGTGAGCAAGGTGGAGATTCTCCAGCACGT
CATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGAACCCCCGGGGGCCGAGGGCT
GCCGGTCCGGGCTCCGCTCAGCACCCCTCAACGGCGAGATCAGCGCCCTGACGGCCGAGGTGAGATCCAGATCCGA
CCACTAGATCATCCTTATACCGACGGGGAAACGGAGGCCAGAGAGGGCGTGGGCGCTTGACCACTTCCGTCCCA
TCCTTGCGGGTACCTGGCTATGCGGGGGTGCCTAAGGAGCCTGGAAAAAGCGCTCCCCCGTCGTGCTTCCTGGGG
AAGGGGGCGTTCGCTGCGCTCGGAGCGGCGTCCCTTCCAACCGCGCGGTCTCATTTCTTCTCGTTTTACAGGCG
GCATGCGTTCCTGCGGACGATCGCATCTTGTGTGCTGAAGCGCCTCCCCAGGGACCGGCGGACCCAGCCATC
CAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCAACGCGCCTCGCCGGATCTGAGGGAGAACAAGACC
GATCGGCGGCCACTGCGCCCTTAACTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGGAGAGGGCGCTC
CTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTATTTTTTGAAAAG
CAGACATTTTAAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATATTACAA
TGATCACCGACTGAAAATATTGTTTTACAATAGTTCTGTGGGGCTGTTTTTTTGTTATTAAACAAATAATTTAGA
TGGTG

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FIGURE 5711

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMNGCYSR
LKELVPTLPQNRKVKVEILQHVIDYIRDLQLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEACVPADD
RILCR

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FIGURE 5712

GAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTG CAGTTCAGCACCAACCCTA
GTCCCTTCCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTT
TATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGT
TCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCA
GGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGCCTGGCTCCTGAGGGGCATCTGCCCTCCCCCA
ACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTG
TGTTTACTCAGTG

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FIGURE 5713

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAATGCTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCCG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGCAGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAACTGGGGTCGATTGTGGCCTTTTTCTCCTTCGGCGGGGCACTGTGCGTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGGAACCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAATGACAGACACTGACCATCCACTCTACCCTCCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCCTTACCCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAATTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCCTCTCCCCACACTAACCTGGGTTCCCTTTCCCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGACTAGGGATTGAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCTCACTCCCAGTCCAAATGTCTCCAGAACCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGAGTTTACGACACCACCTAGTCCC
TTCCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAAG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCTGCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGATGATATACTATTTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCAGTGCGCGTGCACGTGGAGAGCTGGTGGCCGAGATTGGACGGCCTGATGCTCC
CTCCCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTTCACTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5714

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLFSRK

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FIGURE 5715

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGGAGTTTGGAAACGGCTGAAGTTCACCTTCCAGCCCCCTAGCGC
CGTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTGCGGTGCTCGGTGCGCCGCTAGGCGGGCAGGGTGCGAGC
AGGGGCTTCGGGGCCACGCTTCTCTTGGCGACAGGATTTTGTCTGAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTTCTTGATACATATTTGCCAGACTTCAAGATTTTCAGAAAAGGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACA**ATG**TCACAAGTTAAAAGCTCTT
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTCATCCTTGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTTGGAGAATAAGTTACTGGGGAAGAATGGAAGTGGAGGGCTTTTTTCAGGGCA
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTCACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG
CCATATCAAGAAAACTCCAGCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCTGTAATCATCGATGAAATTCTACCCTCTA
AGAAAATGAAAGTTTCTAACAACAAAAAGAAGCCAGAGGAAGAAGGCAGTGCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCCTTGATGCCACCTGCAAAGCAGAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATG
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTACCAAAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAAAACAATCCTAAGAACCAGGAGGAATATAAGGAAGTGAACCT
TTACATCTGAACTACGAAAGCATCCTTCATCTCCTGCCCCGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTGAGGAGCAAGAAGGATGATATTAACCTGTTACCTTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAACCAACACCGTGCACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATGCAACAATACAAATTCAAAGCACGTGAACCTG
ATCCAGAATACTTGAAGGTGGGCCATCTTGCCCAAGAAACCACCTGTGAAACCACCCACCGAGCCTATTGGCT
TTGATTTGGAAATTGAGAAAAGAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTTT
ATTCCAGACCTTGCCCTACTAAGATTTTGGAAAGATGTTGTGGGTGTTCTTGAAAAGAAGGTACTTCCAATCACCG
TCCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGCCACCAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCTTTTAAAGCCCCAAATCCCAGAGGCAAGAAGT
TGGAATATGCCCTTTCTCGTTTGATTCTCGAGACAAGAACGTCAGTTACAGAAGGAGAAGAAAATAAAGAAG
TGCAGAAAGGGGAGGTGCCAAGTTCAAGGCACTTCCCTTGCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACCAGCTGGAAGAAGAACTGAGACAGCAGAAAGAAGCAGCTTGTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGGTTCTCTAGTTT
AACCTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAACTGGTGCATAAGGCAAATCCAATACGCAAGTACCAGGCTGCTGGAGATAAAGTCAAGTGACCAGCCTC
TGACTGTGCTGTATCTCCCAAATTTCTCCACTCGATTCCACTGCT**TAA**ACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTTCATTGGGCATGGAGAGAACCCATTTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATACTTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCTCTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAAATTTAGTCTCTGTGTGACACAGTGTAATCT
CTATTGCTATTGCCCCCTTACGACTCTCACCTCTCCCCACTTTTTTTAAAAATTTTAAACCAGAAAAATAAGATAG
TTAAATCCTAAGATAGAGATTAAGTCATGGTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACCTCACCACCTGCACCACTGAGGAA
GAAGACTGCGTGGATTTCATGGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGGTGTGATAACAACAGGGAACCGTGCAGTGTGCATTTTAAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5716

MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPPRRSLRLSAQKDLEQKEKHHVVKMAKRCATPVI
IDEILPSKKMKVSNKKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPKNQEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTIKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQYKFKARELDPRILEGGPILPKKPPVKPPTPIGFDLEIEKRIQERESKKKT
EDEHFEFHSRPCPTKILEDVVGVPKVKVLPITVPKSPAFALKNRIMPTKEDEEEDEPVVIKAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKNVTQIEPFCLETDRR
GALKAQTWKHQLEEEELRQQKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEEQKKEELARLRRELHVHKNPIRKYQGLEIKSSDQPLTVPVSPKFFSTRFHC

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FIGURE 5717

GGCAGGCTATTCCGGACGCCAGCCCTGGAAGCTGAGCCTGACCCAGCAGGTCCCAGCAGCCTGGCAGCCCGGCCA
GCATGCAGCAGCAGCCTCTGCCCAGGCGCTGGCGCCCCACAACCTGAGCCAACCAAGCCTCCCTACAGCTACATCG
CCCTTATTGCTATGGCCATCCAGAGCTCACCGGGGCAGCGGGCCACCCTCAGTGGCATCTACCGCTACATCATGG
GCCGATTTCGCCTTCTACCGCCACAACCGGCCCCGGCTGGCAGAACAGCATCCGCCACAACCTGTCACTCAACGAGT
GCTTTGTCAAGGTGCCCCGCGATGACCGCAAGCCAGGCAAGGGCAGCTACTGGACGCTGGACCCTGACTGCCACG
ACATGTTTGAGCACGGCAGCTTCCTACGCCGCCGCCGCCGCTTCACCCGGCAGACAGGTGCTGAGGGCAGCCGGG
GCCCCGCCAAGGCACGCCGTGGACCCCTCAGGGCGACCAGCCAGGAGTCCCCAACGCCACGACCGGCA
GGCAGTGCTCATTCCCACCAGAGCTGCCAGATCCCAAGGGCCTAAGCTTTGGGGGTCTGGTGGGGGCCATGCCAG
CCAGTATGTGCCAGCAACCACTGATGGCAGGCCTCGGCCACCCATGGAGCCCAAAGAGATTTCCACGCCCAAGC
CTGCATGCCCAGGGGAGCTCCCCGTGGCCACCTCATCTTCCTCATGCCAGCGTTTGGCTTTTCTGCCGGCTTCT
CAGAGGCTGAGAGTTTTTAATAAGGCCCCCTACGCCCGTCTTGTCCCCGGAATCAGGCATCGGGAGCAGCTACCAGT
GTCGGCTGCAGGCACTGAATTTTTGCATGGGGGCTGACCCAGGCCTTGAGCACCTCTTGGCCTCAGCAGCCCCCT
CCCCTGCAACCACCCACCCCTCCAGGCTCACTCCGGGCCCCACTGCCCCCTGCCAACTGACCACAAGGAACCCCTGGG
TTGCAGGTGGCTTCCCTGTCCAGGGAGGCTCCGGCTACCCATTGGGGCTGACCCCTGCCTATAACCGACGCCAG
GAATGTTCTTCTTTGAGTAAAGGCAGCCTCACCTCGGGCAGTCCCTGCAGGTCCCTCACCCCTCCGGGCTGAGCCT
GGCTCTAGGACCTGAAGAACTCTCGAAGGACCCAGCCCTGGTGAGCCAAGGACAACCACACAGAAAGCCAGGATT
GAAGCGGTGCTCAGCCAGGCCCCCTGGGGCCTCCGGACAAACTTGGGGGTGAGGGGAAGCAGGGCCTCTTGGGATT
TACTCTGTGGCTCTCAGGGCCAATAAAGCCATGTGATGATG

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FIGURE 5718

MQQQPLPGPGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRPGWQNSIRHNLSLNEC
FVKVPRDDRKP GKGSYWTLPDCHDMFEHGSFLRRRRRFTROTGAEGTRGPAKARRGPLRATSQDPGVNATTGR
QCSFPPELPDPKGLSFGGLVGAMPASMCPATTDGRPREPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFS
EAESFNKAPT PVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLP LPTDHKEPWV
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

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FIGURE 5719

GGCACGAGGATCCCGGGGTCGCGCGAGAGCCGCAAGCGGAGTTGGTGGGCGCT**ATG**CTATCACCCGAGGCAGAGC
GAGTGCTGCGGTACCTTGTAGAAGTGGAGGAGCTCGCCGAGGAGGTGCTGGCGGACAAGCGGCAGATTGTGGACC
TGGACACTAAAAGGAATCAGAATCGAGAGGGCCTGAGGGCCCTGCAGAAGGATCTCAGCCTCTCTGAAGATGTGA
TGGTTTGTCTTCGGGAACATGTTTATCAAGATGCCTCACCCCTGAGACAAAGGAAATGATTGAAAAAGATCAAGATC
ATCTGGATAAAGAAATAGAAAAACTGCGGAAGCAACTTAAAGTGAAGGTCAACCGCCTTTTTTGAGGCCCAAGGCA
AACCGGAGCTGAAGGGTTTTAACTTGAACCCCTCAACCAGGATGAGCTTAAAGCTCTCAAGGTCATCTTGAAAG
GATGAGACTCAAGAACCAAGATGGGGGACCAGCAACCCCCCAGGGTCATGGAGGACCCAGGACCTCCAACCTTG
ACACCTGTAAGGACAGGATCTGCCCTGTAAGGGGCCAGCCGTGAGGAATCTGGCCATGAAAACCTCTTTGTAGTG
CTTGGCTACTCTGTGATGGCAGGAGGGAACCTTCAGCCTGTCTGGCTGCTGGACCTGGACACCAGGGCTCGGTGG
ACACAAGATCTATTGACGGGCCTTGGTAGCCACCAGTGGGTGTGTGGGGCAGTGGCTGTGGGGGTGTAAGAATGA
CTGCAACAGGCACTTCCCAACAATGGCCTGCTGTTACATGGACCCTGAGCAAGGAAGGAGGGAGGGAGGGGCAG
AGTGGAGTGTCAATCCAGCATTCTCTCAGAAGGGAGAGAGGTTTTAGGCTGGTGCCATGCGATTGGAATAAAG
CAGGAGGCTCATGGGTGGTTGCTGAATGAAGAACAGAATCTTGGTGCTTTGTGGCTCACCACAGCCATCTGTGGG
GCAGGCACACACACCTCCCGCCAGCTCCAATTTGCACTTTTTCCCTGCTTGATTCCAAGAGTAGGTGCTGCCTA
GCAGCCCTTCGTGGCCACTCTTTACTCAGGAGGGCCTTGCAGAGTCCTGCACCAGGCCTGGGTGAGTGGATGCGC
CTCTTACCATATGACACGTGTCAAGATGCCCTTCCGCCCCCTCTGAAAGTGGGGCCCGCCAGCACTGCTCGTTA
CTGTCTGCCTTCAGTGGTCTGAGGTCCAGTATGAACTGCCGTGAAGTCAAACTCTTATGTGTTTATTAAAGGC
TCAATAAATGTTAGCTGAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5720

MLSPEAERVLRYLVEVEELAAEEVLADKRQIVDLDTKRNQONREGLRALQKDLSLSEDMVCFGNMFIKMPHPETKE
MIEKDQDHLDEIEKLRKQLKVKNRLFEAQGKPELKGFNLPINQDELKALKVILKG

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FIGURE 5721A

CCAAGATGGCGACGGCGATGGTGAGTGAAGGAGACTCCGGGAGCGGGAGCTGGAGCGGGGCCCTCCGGGGTATCC
CAGGATCTTCCAGCACCCCATGCCTGGCCCTGAGCCACCTCCGGGACCCCTGACTCAGGCCTGAGGGCTACCTCT
GACTGGGCTTGTCTTCCCCGAAATCCACCTCCCTGGCCCTGCCCTGCACTCAGGCTTGTGAAGGCCCGAGTTT
TGGGGGAGGCGCCGTTTCGGAGGAAGACCTCGGCTGCTGCCTTCGCCGTTTCCCATTCTACTTTTGGTCTCCGCC
CACTGATTGGTTGCCGTGGTCTTTACTGCTTTTCTCCCTGATGTGTGAAACAAGCGCCTTCTATGTGCCTGGGGT
CGCGCCTATCAACTTCCACCAGAACGATCCCGTAGAAATCAAGGCTGTGAAGCTCACCAGCTCTCGAACCAGCT
ACCTTATGAATACTATTCACTGCCCTTCTGCCAGCCAGCAAGATAACCTACAAGGCAGAGAATCTGGGAGAGGT
GCTGAGAGGGGACCGGATTGTCAACACCCCTTTCCAGGTTCTCATGAACAGCGAGAAGAAGTGTGAAGTTCTGTG
CAGCCAGTCCAACAAGCCAGTGACCCTGACAGTGGAGCAGAGCCGACTCGTGGCCGAGCGGATCACAGAAGACTA
CTACGTCCACCTCATTGCTGACAACCTGCCTGTGGCCACCCGGCTGGAGCTCTACTCCAACCGAGACAGCGATGA
CAAGAAGAAGGAAAAAGATGTGCAGTTTGAACACGGCTACCGGCTCGGCTTCACAGATGTCAACAAGATCTACCT
GCACAACCACCTCTCATTATCCTTTACTATCATCGGGAGGACATGGAAGAGGACCAGGAGCACACGTACCGTGT
CGTCCGCTTCGAGGTGATTCCCCAGAGCATCAGGCTGGAGGACCTCAAAGCAGATGAGAAGAGTTCGTGCACTCT
GCCTGAGGGTACCAACTCCTCGCCCCAAGAAATTGACCCACCAAGGAGAATCAGCTGTACTTCACCTACTCTGT
CCACTGGGAGGAAAGTGATATCAAATGGGCCTCTCGTGGGACACTTACCTGACCATGAGTGACGTCCAGATCCA
CTGGTTTTCTATCATTAACCTCCGTTGTTGTGGTCTTCTTCTGTGAGGTATCCTGAGCATGATTATCATTCCGAC
CCTCCGGAAGGACATTGCCAACTACAACAAGGAGGATGACATTGAAGACACCATGGAGGAGTCTGGGTGGAAGTT
GGTGACGGCGACGTCTTCAGGCCCCCCCAGTACCCCATGATCCTCAGCTCCCTGCTGGGCTCAGGCATTACAGCT
GTTCTGTATGATCCTCATCGTCATCTTTGTAGCCATGCTTGGGATGCTGTGCCCCTCCAGCCGGGGAGCTCTCAT
GACCACAGCCTGCTTCTCTTTCATGTTTCATGGGGGTGTTTGGCGGATTTTCTGCTGGCCGTCTGTACCGCACTTT
AAAAGGCCATCGGTGGAAGAAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTTTTGGCATCTGCTT
CGTATTGAATTGCTTCATTTGGGGAAAGCACTCATCAGGAGCGGTGCCCTTTCCACCATGGTGGCTCTGCTGTG
CATGTGGTTTCGGGATCTCCCTGCCCTCGTCTACTTGGGCTACTACTTCGGCTTCCGAAAGCAGCCATATGACAA
CCCTGTGCGCACCAACCAGATTCCCCGGCAGATCCCCGAGCAGCGGTGGTACATGAACCGATTTGTGGGCATCCT
CATGGCTGGGATCTTGCCCTTCGGCGCCATGTTTCATCGAGCTCTTCTTCATCTTCAGTGCTATCTGGGAGAATCA
GTTCTATTACCTCTTTGGCTTCTCTGTTCTTGTTCATCATCCTGGTGGTATCCTGTTTCACAAATCAGCATCGT
CATGGTGTACTTCCAGCTGIGTGAGAGGATTACCGCTGGTGGTGGAGAAATTTCTAGTCTCCGGGGGCTCTGC
ATTCTACGTCCTGGTTTTATGCCATCTTTTATTTTCGTTAACAAGCTGGACATCGTGGAGTTCATCCCTCTCTCCT
CTACTTTGGCTACACGGCCCTCATGGTCTTGTCTTCTGGCTGCTAACGGGTACCATCGGCTTCTATGCAGCCTA
CATGTTTGTTCGCAAGATCTATGCTGCTGTGAAGATAGACTGATTGGAGTGGACCACGGCCAAGCCTGCTCCGTC
CTCGACAGGAAGCCACCCTGCGTGGGGGACTGCAGGCACGCAAAATAAAATAACTCCTGCTCGTTTGGAATGTA
ACTCCTGGCACAGTGTTCTGGATCCTGGGGCTGCGTGGGGGGCGGGAGGGCCTGTAGATAATCTTGCGTTTTTC
GTCATCTTATTCAGTTCTGTGGGGGATGAGTTTTTTTGTGGGTTGCTTTTTCTTCAGTGCTAAGAAAGTTCCCT
CCAACAGGAACTCTCTGACCTGTTTATTCAGGTGATTTCTGGTTTGGATTTTTTTTCTCTTCTTGTTTTAAACA
AATGGATCCAGGATGGATAAATCCACCGAGATAAGGGTTTTGGTCACTGTCTCCACCTCAGTTCCCTCAGGGCTGT
TGGCCACCCTATGACTAACTGGAAGAGGACACGCCAGAGCTTCAGTGAGGTTTCCGAGCCTCTCCCTGCCATCC
TCACCACTGAGGCCACGACAAAGCACAGCTCCAGCTCGGACAGCACCTCAGTGCCAGCCAGCCTCTGCCAGACC
TCTCTTTCCCTCTTCTCCCCAGCCTCCTCCAGGGCTGCCCAAGGCAGGGTTTCCAGCCAGGCCTCGGGGTCATCT
TTTACACAGGAGCAAACCAAGTCTTAGTTGCTACAAGAAAATCCCCGGAAGTACTGGGGGCCAGGTTCCCCAG
ACAGCAGGAATTGCCCCGTTCAGAGCAGCCGGAGTTTGTGGACCACAAGGAAGAAGAGAAGAGACTTGCAGTG
AACTGTTTTTGTGCCAAGAAACCCTGGACCTGGGGCCAAGTATTTCCCAAGCCAAGCATCCACTTGTCTGTGTCT
GGGAAGGGATGGCCAAGGCCGCTAGGGTCCTTACCCCTCAGGATCACTCCCAGCCCTTTCTCAGGAGGTACCG
CTCTCCAAGGTGTGCTAGCAGTGGGCCCTGCCCAACTTCAGGCAGAACAGGGAGGCCAGAGATTACAGATCCCC
TCCTGTAAAGTGGCCAGGCATTCTCTCCCTGCCCTCTCTGGCCTCTGGGGTCATACTCACTTCTTTAGCCAGCCCC
ATCCCCCTCCACCCACACCTGAGTTCTTGCCTCCTCCTTTTGGGGACACCCAAAACACTGCTTGTGAGAAGGAAG
ATGGAAGGTAAGTTCTGTGCTTCTTTCCCAATCCCCAGGAATGGACAAGAAGCCAACCTTAGAAAGAAGGGTCTC
ACGTGGCTGGCCTGGCTCCTCCGTAGACCCCTGTTCTTTCAACCTCTGCCACCCGCTGCATGTCTATCACAACA
TTTGCTCTTAAGTTACAAGAGACCACATCCACCCAGGGATTAGGGTTCAAGTAGCAGCTGCTAACCTTGCACCA

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FIGURE 5721B

GCCCTTGTGGGACTCCCAACACAAGACAAAGCTCAGGATGCTGGTGATGCTAGGAAGATGTCCCTCCCCTCACTG
CCCCACATTCTCCAGTGGCTCTACCAGCCTCACCCATCAAACCAGTGAATTTCTCAATCTTGCCTCACAGTGAC
TGCAGCGCCAAGCGGCATCCACCAAGCATCAAGTTGGAGAAAAGGGAACCCAAGCAGTAGAGAGCGATATTGGAG
TCTTTTGTTCAATCAAATCTTGGATTTTTTTTTTTTCCCTAAGAGATTCTCTTTTtagggggaatgggaaacggac
ACCTCATAAAGGGTTCAAAGATCATCAATTTTTCTGACTTTTTAAATCATTATCATTATTATTTTAAATTA
AATGCCTGTATGCCTTTTTTTGGTCGGATTGTAAATAAATATACCATTTGCCT

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FIGURE 5722

MCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYYSLPFCQPSKITTYKAENLGEVLRGDRIVNTPFQV
LMNSEKKCEVLCSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGY
RLGFTDVNKIYLNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDP
TKENQLYFTYSVHWEEEDIKWASRWDTYLTMSDVQIHWFISIINSVVVFFLSGILSMIIIRTLRKDIANYNKEDD
IEDTMEESGWKL VHGDVFRPPQYPMILSSLLGSGIQLFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVF
GGFSAGRLYRTLKGHRWKKGAFCTATLYPGVVFGICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLG
YYFGFRKQPYDNPVRTNQIPRQIPEQRWYMNRFGILMAGILPFGAMFIELFFIFS AIWENQFYFLFGFLFLVFI
ILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIIFYFNKLDIVEFIPSLLYFGYTALMVLSFW
LLTGTIGFYAAYMFVRKIYA AVKID

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FIGURE 5723A

ATGGCCCGACCGCCGCGCCACTACCGGGGCTGAGGGGGCTGGCGGAGCCCGAGCGCGGCCCCGGCCCCGAGCGTGG
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG
AGCGGATGGGGAGGCTTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACCACATTTTTTACCAGCGT
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCCCAGGCCTCGGGGCCGGA
GGCGGAGAGTCAAGTGAAGTGCCAATGTGAAATTTGGGAACACCTTTTCTCAAATGGGGAGAAGCTGAGGCCTCA
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTTGCTTCCAAATA
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCCTAACAAAGAGGCCCTCCACTGCTCTGAGTGCGG
TAAGAATTACAATACGAAGCTGGGCTACCGGCGCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG
CAAGGTGTGCTGCAGACCTTTGAGAGTACCCAGGCCCTGCTAGAGCACCTGAAGGCCCACTCAGCCGGGTAGC
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGGCGGTTCTATACTCGTAAGGATGTACGGCG
GCACCTAGTGGTGCACACAGGCCGTAAGGACTTCTGTGCCAGTACTGTGCCAGCGGTTTGCCGTAAGGACCA
CCTGACGCGTCATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCCGTGACATGTTAGG
CCTACTCAGCTGCAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGCATGGCCTCTCGGGACGT
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCCATGGGCATGTATGGTGCCACATCCCTACCATGCCCAGCAC
GGGCGTGCCACACTCCCTGGTGCACAACACGCTGCCCATGGGTATGAGCTACCCTCTGGAATCCTCACCTATCTC
TTCCCCAGCTCAGCTCCCTCCAAATACCAGCTTGGATCTACCTCATACTTGCCCGACAAATTGCCCAAAGTGA
GGTGGATAGTTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCCGCTCACCTCA
GCCGGCGGCAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAGAGCCCCGCCAACCTCTCTGAGGCCCTCTG
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTTCTTCCACTCAACCTGCCCCGTGTAACCCACCTGGGGC
CACAGGAGCCCTGGTCATGGGCTACTCCCAGGCTGAGGCACAGCCCTGCTTACCCTTTGCAAGCTCAGCCTCA
AGATTCCCCAGGAGCTGGGGGACCACTGAACCTTTGGGCTCTGCACTCCTTGCCCTCTGTCTTCAGTCTGGCCT
GAGTAGCACCACTGCTCGTTTCCATCAAGCATTCCAGTAGCCCCCACAGAGGCCCTCAGCTCAGTTTTTGCG
TCTGTTATGGAGCCTTAGTACCCACCCGCTGTGTCCCCATGAAGGCAGCTGAGCTTTCAGAGCTGGGTTCAA
AAAAAAAAATTCCAGTGTCTGTATACAGGAGCACTTGGTTTGGGGGTTCAGGCTCTAGGATCGATTCCAGAAGGA
GCCTTGAGCCCCAACCCCGTGAAAAGATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGACC
TGAATCGGGAGCCACACTTGGCCCTCTTCCTCTCCAAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC
CTCTTGAGACACAGAGGGTTTACCTTGGATGACCTCTAGAGAAATTGCCAAGAAGCCACCTTCTGGTCCCCA
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCACTTGGCTCCATTGCCTGCTTCCAA
CCAATGGGCAGGAGAGAAGGCCTTTATTTCTCGCCACCCATTCTCCTGTACCAGCACTCCGTTTTTCAGTCAG
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTCACCTCCCTTGCCAAGCTGTTAGCC
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC
TGAACCATTTGGTACCTGGTGTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTTGCTGACTTCTCTTCAT
TTGAGGTACATTTTTTCCCCCGTGGGGAAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT
GCATTTGTTCCTGCCTGCCTCGGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTTCTCACAGGTCT
GCAATTCGTTTTTTCTCCAAGTACATTATGACCCCCCTCATCCTTCTCTTGAAGTGGAGAGGGGAAGAAATGAAAG
GCATGCCACAGTCCGTCACCTCCCCATCCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG
AAGCAGAGTCTGGGTTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCCTCATTGGTCTTCTCTCCACCTGTCCC
TTTTCCGGGAAGTTGTGGAATTGTTGGAAGAAGAGTTTGCAGAAGGTTAGGAATGGGTAGATAGCTAAGTCCATA
TCTATGGGTACATTGTTGTGTGCCAAACCAAAATTTTCCCTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC
AGTGGACTCGGCCACTGTGCATAGGCTTCTCTGCTCTCCATCAAATCACTTCCACTTTCCTGTGCCCCACCCCC
GCCTCCAGTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTCTTTTCTTCTGACTCGTGGGG
CTCCCTGCTGCAGAGAGCACAGCCCTTGCCCTGGAGCCCAGGAACCCCATCCTTGCTTCATCTCAGTTCTTCATGG
GCTTCACTCTTCCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCCTTGAGACGCTTCCACTC
TGATTAGAAACACACTTCTACCTCTTTACTGTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC
TCAGTAGGTGCCTCATGCTGACTTCTCCAGTAGGGTTTTCAGGACAACTACCAAGGAATTGCCTCAGCCTCCTAC
CAGTCTCCCTCACCCACCTTCTGTCTAGGTTCACTTGGTTTGTATCAGGAAGTGGAGAGGTCCAGGACTCAGC
TTTCTGCTTCAGCCTAAGCCAGTACTCCTTGTTTGGGTAAAGCCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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FIGURE 5723B

GAAGCAATTTGGAGTAAGTGTGTTTTGATTTAGGCAGGGTAGCTTGGGATACCTTTTTAAAAACACCAGATATTA
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA
TTAAGGTTTTATTTTAAAAAGTGTCTACCTTGGTACGCAGCCACCTCCTGCATGCTGTGCATGTTATTGGGACTTG
TATTATAGGTGATGGTATGTGAGAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCAT
CACTAGACTCAGCAACCCTTCTCACCTTAAGTCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT
CTGGCTGCAGAATACAAAGTCCCGGGCTGTTAGAGGAGTCCTTTCTCTCTGCCTGCCCTTTCTGTCCCTCCCT
CGAATTCTCTCTCCCCGTAAGTGATGCTGGAAGTCAAGGACTGGCAAAGCAACTGTTTAAACCCTTTGTAAC
CGGGGCCTTGCCCCCACCTCCTGTCTTTTCTCCTTGCCCTTCCCCACTCCTGTGTCTCCCATCTATCCTGTCTTT
CCTTTCTCCTCTCAGTGTCTCAGCACCCACAAGGAATTTTCTATCACTGTGAACTTTGCTGGTACAGAGGAA
TAATATCTGCCCTTCACCTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTTCTTAAACCTCCCTTCCTAAAATCT
GGGGGGTCCGGGGGAAAGAAAAAAAAGCCTTAGTGGCCTGGTTGTTCAAAGGATAAGAATAGCTTTATCCTGCA
CTCAGTACCCGAACCTCACTTCAGTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCCAGGACAGGAGC
CATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAAGTGATGTCCCTTTCCCTGCCACCTCCAGCCTCT
GCCAGCAATGAGCTGTCCCCCTCCCACCCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCCTGGGGGTAAGGGG
ATGACATGCCCAGGTGTGAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAAGGAGCGCCAATG
AGGTTCCCTGCAACCCCCGCCCTCCAGCCCACCGCCCAACCTTTTACAAATGGCATTCTTCTTAATTGAAAATCCG
GGAAGCAGGTGTGATTACTTTTTTTGCTCGTAGATATTGTCCTAAGTTGGAATTCTCCCACTGCCCTAAAACCTTC
CCTAGTAGTCTTTTAAACTCCCCCTCCCTTTTTTGGTAGCTGTTTTCTCCGTCTCTCTCCACCTGCCCTCTTAT
CTAGGAGCTGTTTGTAAGCACGATTTTTTTTAAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTTAAACAGG
ATATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCCACCC
TGGCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTAT
GGCGAGGGAAAAGGGTGTTACCATGATAACCTAGTGCCCTCCATAGAGGGGTTTGGAAAAATTCAGTCCGATTT
CTTTGTGTGTCAGCTGACTTCCTTAGCTGATTGTTCCCACTTGACCTCTCCACCTTTGGCACTAGAACTCCTGA
GACACCACCTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACCTCCAGATTA
TTTAAAGAGAAAAGTACAAGACAGAAATCTTCTAGCACTTTGTAAACACAGTGAATAACCTCTTGAGTATTTTT
GGCTTTATATAAAACAAGGTTTTTAAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTTA
AAGTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAGGTTTTTATAATGAAGTTGTTTATTAAAAAC
TTCTGAATGATG

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FIGURE 5724

MTTFFTSVPPWIQDAKQEEEVGWKLVPRPRGREAESQVKCQCEISGTPFSNGEKLRP HSLPQPEQRPYSCPQLHC
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLGYRRHLAMHA
ASSGDL SCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKDVRRHLVVHTGRKDFLCQYCA
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVSVKEELSPVLCMASRDVMGTKAFFGMLPMGMYGA
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA
EPQPASFPQAAAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGLVMGYSQAEAQPLL
TTLQAQFQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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FIGURE 5725A

CTTCCCTCCCCGACTGTGCGCCGCGGCTGGCTCGGGTTCCCGGGCCGAC**ATG**GGCGCCGCGCGGTGGGCACGGCC
GCTGAGCGTGTCTTTCTGCTGCTGCTTCTGCCGCTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGCGCGGTTA
CCTGCTCTACTGCCCCCTGCATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTTGGGCTCTCTGGCATTGTGAAA
GCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAGCCTCCTTTACCAACCTCCA
TGAGAACTGGCACCCACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAG
CCCAGATAAGAAGACGTGCCCCATGAAGGAAGGAAACCCCTTTGGCCCATCTGAGGATCAGTTTCATGTGAGTTT
CAACAAGTCGGAGCTTTTTACAGGCATTTCTTCAGTGCTTCCTACAGAGAACAATGGAGCCAGAGATTTTCTCC
AAAGGAACATCCGGTGCTTGCCCTGCCAGGAGCCCCAGCCAGTTCCCGTCCTAGAGGAACACAGGCCACTACA
GAAGTACATGGTATGGTCAGACGAAATGGTGAAGACGGGAGAGGCCAGATTTCATGCCCACCTTGTCCGGCCCTA
TGTGGGCATTTCATCTGCGCATTGGCTCTGACTGGAAGAACGCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTC
GCACTTCATGGCCTCTCCGAGTGTGTGGGCTACAGCCGACGACAGCGGCCCCCTCAGCATGACTATGTGCCT
GCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGGTGCTGGATGCCAGTCGGTCTACGTTGC
TACTGATTCCGAGAGTTATGTGCCTGAGCTCCAACAGCTCTTCAAAGGGAAGGTGAAGGTGGTGAGCCTGAAGCC
TGAGGTGGCCAGGTCGACCTGTACATCCTCGGCCAAGCCGACCACTTTATTGGCAACTGTGTCTCCTCCTTCAC
TGCTTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCGCTCTTCTTTCTTCGGCATGGACAGGCCCCCTAAGCT
GCGGGACGAGTTCT**TG**ATTCTGGCCGGAGCACAGACCCTCTGATCCTGGAGGGACCAGAGTCTGAGCTGGTCCTT
CCAGCCAGGCCCTGGCAGCCAGAGGTGCTCCGGGATTGCAAACCTCCTCTTCTCACCTGCCAAAGATGGAGAAGAGT
GCCAGGGACCCCTCAAGGAGGGAGACGCTCCATATCCAGGGCATAGGACTTGACAGGTTCTTAGGAGCAGGAGCA
TCTCCCATCGCACGTGCTTTCTGCTCTTCTGGGAATTTCTCACACTGGCAAAGCAGTCCAGCCTCCGTCTTCTGG
TCCACTCTGCTCTGAGCAGCCTGGGATGCTGAACTCTTCAGAGAGATTTTTTTATAGAGAGATTTCTATAATTTT
GATACAAGGTTCATGACTATCCTAGAACTCTCTGTGGTTTTTTGAAAATCATTGAATTCTATTAATGTAGGTACCTA
AAGTGACCTTAAGTGAATGTGGATGAGGCTGGGGCTGGTGTGGGTCTTTTGGCTGCTTTTCAAGGTGTCCCCAA
TGTGGCCCTCAAGAGCCATCCCCACTGCCTGGCCAGAGCCATTGTTGTCCCTACTTCCCTAGGCCATTTCTGGGG
CTTGGGGGATGAATGCTGTCTGTGCTGTAAACACTATGCAAATGGAAGTTATCGGTTGTGGTGCTGTGCAGCGC
TCTGTGGGCGACTAAGTGCCACTCACGCAGCATGTTCTGGCAAGGAGCACATACCATCAAGCCACACTATCATG
GTATTGTTCTCACAGTCTTTTGGTGGTTGATGGCCACTGCAAACCTGGCACCATCAGATCTCTTCTGATCTCTTG
CCCCAGTGGGGCCTGGTTGGTAGAATGTTGGCATTGCGTTGATATCCAAGCCTGTTCTCCAGCCGTCCTCCTG
CAGCTGGAGCCTTCAGGCCGATTCTCACGAGGGAACGTTTGCCAAGGCTCTGACCTCACAGAAGATGCCAGGG
CCCAGAAGCCATCAGAATTATCAGTGGAGAAGCACCTTTTGACTCTTCCCTTCCAATGTAATCTCTGCCAACACC
ATGAGGCTTAAGGTGCTCTAAGTCATGAGTGTTTTGGTCTCAAATGCTGCAGTTTTAATAATCTGTGACTCCTGA
GAGCCCATGGTTTTTTGACCTTGTGGTTCTAAAATTCCTTGTCTGACCCCTGTAGATCTTTTCCCTTGCCATGTCA
CCTCCCTTGGCCTTTGATCCTGGAAAGGTGGCAGAGCCTCCACTGAGCCAGGCCAGAGCTCCTTGCAGTGCCTT
CTTCTTGTTTACCTGTGGGAGGAAACACTTTTTTTGTGTCAGGGGCAGCCTGGTTCAGAGCTCAGAGGTCACACTG
TATCAAAGATCTCAAACAGCAAAGTCAGCATTGCTGTATAGAGCTGCCACCCAACTCTAAGCAGGAGAACTGT
ACAGAAAGGGCTTTGCTATTTTTCCCTTTTGGGAAAACAATGAAGTGTTTTAAGTCCTGGGTGGACTGAGAGATG
GTTTGCTGTCCAGACTTGCTCTCAAGCCTCATCCAGAGAAGGAGCTGCAGATGAGGGAGCCCGTACACTCCCTG
CCACCCTAGGTTGTAAGCCTGTAGCTGGCTGGCTGATTTCAATTTTGAATTCATTTGCCATCCACAGCCTTACA
CTAGGCACACACTTTAGAGTCTGGGGCTCCAGTGGGGCCCGCCTAATTTTTTTTCCCCCAAGACAGGGCCTTGC
TCTGTCTCCAGGCTGGAGTGCAGTGGCATGATCATGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGCGATCC
TTCTGCCTCAGCCTCTCTGGTAGCTGAGACTGCATGCCAGCTCCAAATCACCTTGATTTCATATCAGCAGTAATA
ATCACTTGTGTTCTGAAAGAAAGGGCACCAGAAAGTTCTAGCAAAATTCAGTTGTGTTCTGTGAGCTAGCACTTTT
TCCTCTGACCCAATTTTCTTACCTATAAAATGGTGATAAAAACCGACAGGTTGTTCAAAGGCCAGATCAGCTAA
AGCATGTATATAAGAGCACGTTGTAAACTTGAAAGAGACAAAGGCACAAATGTGGCTGTTGATTAATTTGACTGC
TTCTCGTTGCTCGTCACCTCCATGCCAGGCAGTGTGCTTGCTAATTGCTTTATGGGGGCATTCTCTTATTTATTC
CCCAGCCCTGGGAAATAGGAGCTGTCATTATCCTTCTCTTTCTGCACAAGGAAAAATTAATGCCCTGAGAATTGT
CATAATTTTCCCAAGGCTGCCAGCTGGTGGTGTTAAGCCAGAATTTGACCTCCAGAGCCAGTTTCCATTAGCT
GCCATGCTCTGCTGCCTCTAATTCACAGAATGCACTTTCTACCCTGTGTGCCATGGAGACCTCCTATGGAAAAAT

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FIGURE 5725B

GATCAGCCACCTTACCTTCTACTGGGTACCTGCTGTGAGTCTGCCTATGCCAGAAGGATTAAGGAGGGGAGGTTA
CCCAAGAAACAAAGCCTACATGCCGCTTACAGCCCCCGTTGGATGGTTGCTCAGTACAACAGTCTTGCAATTCAGC
AGGTGTTTGTTCATCACCTACTATGTGTCAGGCTCTATGCTAGGTACTGGGGATACAGGAGAGAATCAAGCGTAA
AGTCTTTGTTCTCAAGGAATTTGCATTCTAGAAAAGTAGAAGATGTAATAAATGTACTGTGGGACATGTTAATAAG
TGCTATAAAGAAATATAAAGGGTTTGGGAGCAAAAAGAGGGAGTGGATCTATTTTAGATGAGCCCAGGTAAGACC
TCTCTGAAGAGCTGTCATGAAGGAGGGAGGGAGCACATTCTGGCAGAGAAAACAGCACGTGCAAAGGCCCCGAG
ACTGGAGTGTGTTCTGAAGAGCAGCCAGGAGGCCAGCATGGCTGGAGAGGCAGGCATAGGCAGGGAACCGAGCA
GCAGGTCAGAGCAGGCGAGCTGACATTCTGCAGCCTGGACGGCCATGGCAGGAAGCTTTTAGTTGGAGAGATACA
GGAAGCCTCCTAGGGTTCTGAGCAGAAGAGGGGGCATGAGCTGATTACATTCTGAAGGACCTCTCTAGCTGGCCA
GTGCTGAGGAGGTTGGAGAGAGAAAGGGTGAAAGCAGAGAGACCAGTGCAGGGCTGTAAACAGGGTTGCAGGCGA
GAGACTGGGGTGCTGGGCTCCCCTAGACTAGGACTCCAGTGCCCTCCTCTCCAAGAGACAAAGGCCATTGCATT
GAAGGAGGTGGGAAATGATTAGATTCTGAACATATGTAATTATTTTTTCAGTCTTTTTCAAAGATACAAATATTTA
CATAGTTTTAATCATGTAATATATACAATTTAATGTCCTAGTGTTTTACTTAATAGTGTATCATGTTTTCCCTGT
TGGTATGTAGCCTGGATAAATGCTCTTAATTATAAAAAATTCTGTCGAGGAGTGTTCCATAGTTTATTGTTTTCC
TATTATGAGAATTTAGGCCAAGTGTGGTGGCTCATGCCTGTAATCCAGCACTTTGCGAGGCCGAGGTGGGCAGA
TCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAATTATCTCTACTAAAAATACAAAAAATAA
TAATAATAGCCAGGCGTGGTGGCACATGCCTGTATTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATGGCTTGA
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGTGCCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCA
TCTCAAAAAAAGGAGACTTCATGTGCCCCCAATTTTCACTATTGTTATTTGAAAAAATATTTTTATTGTAAAG
AGTTTTTCTTTATTTAAATGTTCAATTAATAAAGTTGTTGGACGGAAGCAAAAAAAGTTGTTTAAGATAA
ATTCCAGAAAGTGAATTTGTTAGATCAAACACTTAAACCTTTTGTATGGAAGAATTCAAATATAAATAAAAAA
TTGTGAGTAATAAAATGAACTCACAGTTTCAACAATGACCCAC

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FIGURE 5726

MGAAAWARPLSVSFLLLLLPLPGMPAGSWDPAGYLLYCPCMGRFGNQADHFLGSLAFAKLLNRTLAVPPWIEYQH
HKPPFTNLHVSQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAAQRSPDKKTCPMKEGNPFGP
FWDQFHVSFNKSELFSGISFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMVKTGEAQ
IHAHLVRPYVGIHLRIGSDWKNACAMLDGTAGSHFMA SPQCVGYSRSTAAPLTMTMCLPDLKEIQRAVKLWVRS
LDAQSVYVATDSESYVPELQQLFKGKVKVVS LKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSF
FGMDRPPKLRDEF

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FIGURE 5727A

ACCCACTCCCGCTGCCCCGTCCGGCCCCGCGCCGCTTCCTCGCAGCAGCTGCTCCCGGCTCCGCGGCCGCGAGCCCCG
CGTGGACGCTCCGAGCGCCCCCGACGGACGGGACCGGCTCCCTGGCGGTTCGGGCGAGCGGGCGGCAACGCTGCC
CGGCCGGCAGCGCTGGGGTTAAGTGGCCCAAGTAAACCTAGCTCGGCGATCGGCGCCGGAGATTTCGCGAGCCCAG
CGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCCGACCCGCGGCTCCGCGGCCAGCCGCGCCCCAG
CCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAA
GACTCGATCCTCGTCAACGGGGCCTGCAGCGACCAGTCTCTCCGACTCGCCCCAATCCTGGAGGCTATCCGCACC
CCGGAGATCAGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAG
GACTTGACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTTCCGGGAA
ACCAGGACTCGTTAGAAAGCCCAGCTGTCCGAACTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCACAGG
CCTTCCCCACGTTCCACCCGAGGCGGGCAGGGCCGCAACCATGTGGACGAGTCCCCCGTGGAGTTCCCGGCTACC
AGGTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCCTCCAGCTCTTACCTTACCATC
GACCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCCCTACGCCCGCCTAGCCCAG
GACAGCCAGCAGGGGGGCATGGAGTCCCCGAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTTACAGATATCAG
GATGGGAAGGAGTTTGGAAATAGGGGACCTCGTGTGGGGAAAGATCAAGGGCTTCTCCTGGTGGCCCCGCCATGGTG
GTGTCTTGGAAAGGCCACCTCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAG
TTCTCCGAGGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTTACGCCAGCACTTTAATTTGGCCACCTTCAAT
AAGCTCGTCTCCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGCAGCTGGCAAGACCTTCCCC
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCCCACGGGGGCTTCAAGCCCACT
GGGATCGAGGGCCTCAAACCCAACAACACGCAACCAGTGGTTAATAAGTCGAAGGTGCGTCTGTCAGGCAGTAGG
AAATTAGAATCAAGGAAATACGAGAACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGC
CCCGCACCCAAGCGCCTCAAGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAA
CAAAATGGCTTCAGATGTTGCCAACAACAAGAGCAGCCTGGAAGATGGCTGTTTGTCTTGTGGCAGGAAAAACCCC
GTGTCTTTCCACCCTCTCTTTGAGGGGGGGCTCTGTCTAGACATGCCGGGATCGCTTCCTTGAGCTGTTTTACATG
TATGATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTGCAGCAACACG
AGCTGCTGCCGGTGTCTTCTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGGCCGAGGCCAAGCTT
CAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCTATGGCGTCTGCGGCGCCGGAAGGACTGGAAC
GTGCGCTGCAGGCCTTCTTACCAGTGACACGGGGCTTGAATATGAAGCCCCAAGCTGTACCCTGCCATTCCC
GCAGCCCGAAGGCGGGCCATTTCGAGTCTGTCAATTGTTTGATGGCATCGCGACAGGCTACCTAGTCTCTCAAAGAG
TTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCAC
GAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCACAAAGAAAAATATTGAAGAATGGGGCCCCATTTGAC
TTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACA
GGCCGGCTCTTCTTGAATTTTACCACCTGCTGAATTACTCACGCCCCAAGGAGGGTGATGACCGGCCGTTCTTC
TGGATGTTTGAATGTTGTAGCCATGAAGGTTGGCGACAAGAGGGACATCTCACGGTTCTTGAGTGTAATCCA
GTGATGATTGATGCCATCAAAGTTTCTGCTGCTCACAGGGCCCCGATACTTCTGGGGCAACCTACCCGGGATGAAC
AGGCCCCGTGATAGCATCAAAGAATGATAAACTCGAGCTGCAGGACTGCTTGGAATACAATAGGATAGCCAAGTTA
AAGAAAGTACAGACAATAACCACCAAGTCGAACTCGATCAAACAGGGGAAAAACCAACTTTTCCCTGTTGTCATG
AATGGCAAAGAAGATGTTTTGTGGTGAAGTGAAGTCTGAAAGGATCTTTGGCTTTCTGTGCACTACACAGACGTG
TCCAACATGGGCGGTGGTGCCCGCCAGAAGCTGCTGGGAAGGTCTGGAGCGTGCTGTATCCGACACCTCTTC
GCCCCCTCTGAAGGACTACTTTGTCATGTGAATAGTTCCAGCCAGGCCCAAGCCCACTGGGGTGTGTGGCAGAGCC
AGGACCCAGGAGGTGTGATTCTGAAGGCATCCCCAGGCCCTGCTCTTCTCAGCTGTGTGGGTGATACCGTGTGTA
CCTCAGTTCCCTCTTGCTCAGTGGGGGCGAGGCCACCTGACTCTTGAGGGGTAGCCTGAGGTGCCGCTCCTTG
TGCACAAATCAGACCTGGCTGCTTGGAGCAGCCTAACACGGTGTCTATTTTTTCTTCTCCTAAAACCTTAAAACCT
TGAAGTAGGTAGCAACGTGGCTTTTTTTTTTCCCTTCCTGGGTCTACCACTCAGAGAAACAATGGCTAAGATAC
CAAAACCACAGTGCCGACAGCTCTCCAATACTCAGGTTAATGCTGAAAAATCATCCAAGACAGTTATTGCAAGAG
TTTAATTTTTGAAAACCTGGCTACTGCTCTGTGTTTACAGACGTGTGCAGTTGTAGGCATGTAGCTACAGGACATT
TTTAAGGGCCCAGGATCGTTTTTTCCAGGGCAAGCAGAAGAGAAAATGTTGTATATGTCTTTTACCCGGCACAT
TCCCCTTGCTTAAATACAAGGGCTGGAGTCTGCACGGGACCTATTAGAGTATTTTCCACAATGATGATGATTCA
GCAGGGATGACGTCATCATCACATTGAGGGCTATTTTTTCCCCCACAACCCAAGGGCAGGGGCCACTCTTAGCT

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FIGURE 5727B

AAATCCCTCCCCGTGACTGCAATAGAACCCTCTGGGGAGCTCAGGAAGGGGTGTGCTGAGTTCTATAATATAAGC
TGCCATATATTTTGTAGACAAGTATGGCTCCTCCATATCTCCCTCTTCCCTAGGAGAGGAGTGTGAAGCAAGGAG
CTTAGATAAGACACCCCTCAAACCCATTCCCTCTCCAGGAGACCTACCCTCCACAGGCACAGGTCCCCAGATGA
GAAGTCTGCTACCCTCATTTCTCATCTTTTTACTAACTCAGAGGCAGTGACAGCAGTCAGGGACAGACATACAT
TTCTCATACCTTCCCCACATCTGAGAGATGACAGGGAAAAC TGCAAAGCTCGGTGCTCCCTTTGGAGATTTTTTA
ATCCTTTTTTATTCCATAAGAAGTCGTTTTTAGGGAGAACGGGAATTCAGACAAGCTGCATTTTCAGAAATGCTGT
CATAATGGTTTTTAACACCTTTTACTCTTCTTACTGGTGCTATTTTGTAGAATAAGGAACAACGTTGACAAGTTT
TGTGGGGCTTTTTATACACTTTTTAAAATCTCAAAC TTCTATTTTTATGTTTAACGTTTTCATTAAAAATTTTTT
TGTAAC TGGAGCCACGACGTAACAAATATGGGGAAAAAACTGTGCCTTGTTTCAACAGTTTTTGCTAATTTTTAG
GCTGAAAGATGACGGATGCCTAGAGTTTACCTTATGTTTAATTAAAATCAGTATTTGTCT

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FIGURE 5728

ACGAGACGAAGACGGAACCGGAGCCGGTTGCGGGCAGTGGACGCGGTTCTGCCGAGAGCCGAAGATGGCAGTGAA
CGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTCTGCA
GTTGAATCTGACAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTGAGTTTATGGACATGCTGTTCCCTGG
CTCCATTGCCTTGAAGAAAGTGAAATTCCAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAAATACTACA
AGCAGGTTTTAAGAGAATGGGTGTTGACAAAATAATTCCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAA
TTTTGAATTCGTTGAGTGGTTCAAGAAGTTTTTCGATGCAAACTATGATGGAAAAGACTATGACCTGTGGCTGC
CAGACAAGGTCAAGAACTGCAGTGGCTCCTTCCCTTGTGCTCCAGCTCTGAATAAACCGAAGAAACCTCTCAC
TTCTAGCAGTGCAGCTCCCCAGAGGCCCATCTCAACACAGAGAACCGCTGCGGCTCCTAAGGCTGGCCCTGGTGT
GGTGCAGAAAGAACCTGGTGTGGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAA
ACTTACTGTTGAAGACTTGGAGAAAGAGAGGGATTCTACTTCGGAAAGCTACGGAACATTGAATTGATTGGCCA
GGAGAACGAGGGGGGAAAACGACCCTGTATTGCAGAGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTTGT
GATACCTGATGAAGGGGGCCACAGGAGGAGCAAGAAGAGTATTAACAGCCTGGACCAGCAGAGCAACATCGGAA
TTCTTCACTCCAAATCATGTGCTTAACTGTAAAATACTCCCTTTTGTATCCTTAGAGGACTCACTGGTTTCTTT
TCATAAGCAAAAAGTACCTCTTCTTAAAGTGCACCTTTCAGACGTTTCACTCCTTTTCCAATAAGTTTGAGTTAG
GAGCTTTTACCTTGTAGCAGAGCAGTATTAACACCTAGTTGGTTACCTGGAAAACAGAGAGGCTGACCGTGGGG
CTCACCATGCGGATGCGGGTCACACTGAATGCTGGAGAGATGTTATGTAATATGCTGAGGTGGCGACCTCAGTGG
AGAAATGTAAAGACTGAATTGAATTTTAAAGCTAATGTGAAATCAGAGAATGTTGTAATAAGTAAATGCCTTAAGA
GTATTTAAATATGCTTCCACATTTCAAAATATAAAATGTAAATGACAAGAGATTTTGCCTTTGACATTGTGTC
TGGGAAGGAAGGGCCAGACCTTGAACCTTTGGAACCTGCTGTCAACAGGTCTTACAGGGCTGCTTGAACCTCA
TAGGCCTAGGCTTTGGTCTAAAAGGAACATTTAAAAAGTTGCCCTGTAAAGTTATTTGGTGTGCTATTGACCAATTG
CATCCCAGCTAAAAAGCAAGAGGCATCGTTGCCTGGATAATAGAGGATGTGTTTCAGCCCTGAGATGTTACAGTT
GAAGAGCTTGGTTTTCATTTGAGCATTTCTCTATTTTTCCAGTTATCCCCGAAATTTCTATGTATTATTTTTTG
GGGAAGTGAGGTGTGCCAGTTTTTTAATCTAACAACACTACTTTTGGGGACTTGCCACATCTCTGGGATTTGAAT
GGGGATTGTATCCATTTTACTGTCTTTTAGGTTTACATTTACCACGTTTCTCTCTGCTCCCCCTGCCACT
GGGGACTCCTCTTTGGCTCCTTGAAGTTTGCTGCTTAGAGTTGGAAGTGCAGCAGGCAGGTGATCATGCTGCAAG
TTCTTTCTGGACCTCTGGCAAAGGGAGTGGTCAGTGAAGGCCATCGTTACCTTGGGATCTGCCAGGCTGGGGTGT
TTTCGGTATCTGCTGTTACAGCTCTCCACTGTAATCCGAATACTTTGCCAGTGCACATACTCTTTGGAGATAA
AATTCATTAGTGTGTTACTAAATGTTAATTTCTTTTGGGAAAATACAGTACCGTGTCTGAATTAATTATTAAT
ATTTAAAATACTTCATTCCTTAACTCTCCCTCATTGCTTTGCCACAGCCTATTACAGTTCCTTTGTTTGGCAGG
ATTCTGCAAAATGTGTCTCACCCTACTGAGATTGTTTCAAGCCCTGATGTATTTGTATTGATTGTTTCTGGTG
GTAGCTTGTCTGAAATGTGTGTAGAAAGCAAGTATTTTATGATAAAAATGTTGTGTAGTGCATGCTCTGTGTGG
AATTCAGAGGAAAACCCAGATTAGTGATTAAACAATGCCAAAAATGCAAGTAAGTCCATTGTTCAAAATGACA
GTGGTGCTATTTCTCTTTTGTGGCCTTTTAGACTTTTGTGGCCCTAAAATTCCATTTTATTGGGAACCCATTTTC
CACCTGGTCTTTCTTGACAGGGTTTTTTTTCTACTTTAAACAGTTTCTAAATAAAATTCTGTATTTCAAGAG

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FIGURE 5729

AGAGAGGAGCGGGCCGAGGACTCCAGCGTGCCCGAGGTCTGGCATCCTGCACTTGCTGCCCTCTGACACCTGGGAA
GATGGCCGGCCCGTGGACCTTCACCCTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCC
CACTGCAGTTCTCATCCTCGGCCCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAACGCCAC
CAGCATCCTGCAGCAGCTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGAGGCATCCCTGTGCTGGGCAG
CCTGGTGAACACCGTCTCTGAAGCACGTCACTGGCTGAAGGTCAACAGCTAACATCCTCCAGCTGCAGGTGAA
GCCCTCGGCCAATGACCAGGAGCTGCTAGTCAAGATCCCCCTGGACATGGTGGCTGGATTCAACACGCCCCCTGGT
CAAGACCATCGTGGAGTTCCACATGACGACTGAGGCCAAAGCCACCATCCGCATGGACACCAGTGCAAGTGGCCC
CACCCGCCTGGTCTCAGTGACTGTGCCACCAGCCATGGGAGCCTGCGCATCCAACCTGCTGCATAAGCTCTCCTT
CCTGGTGAACGCCCTTAGCTAAGCAGGTCAATGAACCTCCTAGTGCCATCCCTGCCCAATCTAGTGAAAAACCAGCT
GTGTCCCGTGATCGAGGCTTCCTTCAATGGCATGTATGCAGACCTCCTGCAGCTGGTGAAGGTGCCCATTTCCCT
CAGCATTGACCGTCTGGAGTTTGACCTTCTGTATCCTGCCATCAAGGGTGACACCATTGAGCTCTACCTGGGGGC
CAAGTTGTTGGACTCACAGGGAAAGGTGACCAAGTGGTTCAATAACTCTGCAGCTTCCCTGACAATGCCACCCT
GGACAACATCCCGTTAGCCTCATCGTGAGTCAGGACGTGGTGAAAGCTGCAGTGGCTGCTGTGCTCTCTCCAGA
AGAATTGATGGTCTGTTGGACTCTGTGCTTCCCTGAGAGTGCCCATCGGCTGAAGTCAAGCATCGGGCTGATCAA
TGAAAAGGCTGCAGATAAGCTGGGATCTACCCAGATCGTGAAGATCCTAACTCAGGACACTCCCGAGTTTTTTAT
AGACCAAGGCCATGCCAAGGTGGCCCAACTGATCGTGCTGGAAGTGTTCCTCCAGTGAAGCCCTCCGCCCTTT
GTTACCCCTGGGCATCGAAGCCAGCTCGGAAGCTCAGTTTTACACCAAAGGTGACCAACTTATACTCAACTTGAA
TAACATCAGCTCTGATCGGATCCAGCTGATGAACTCTGGGATTGGCTGGTTCCAACCTGATGTTCTGAAAAACAT
CATCACTGAGATCATCCACTCCATCCTGCTGCCGAACCAGAATGGCAAATTAAGATCTGGGGTCCCAGTGTCATT
GGTGAAGGCCTTGGGATTGAGGCAGCTGAGTCCTCACTGAGCAAGGATGCCCTTGTGCTTACTCCAGCCTCCTT
GTGGAAACCCACCTCTCCTGTCTCCAGTGAAAGACTTGGATGGCAGCCATCAGGGAAAGGCTGGGTCCCAGCTGGG
AGTATGGGTGTGAGCTCTATAGACCATCCCTCTCTGCAATCAATAAACACTTGCCTGTGAAAAAAAAAAAAAAAAA
AAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5730

MAGPWTFLLCGLLAATLIQATLSPTAVLILGPKVIKEKLTQELKDHNATSILQQLPLLSAMREKPAGGIPVLGS
LVNTVLKHVIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGFNTPLVKTIVEFHMTTEAQATIRMDTSASGP
TRLVLSDCATSHGSLRIQLLHKLSFLVNALAKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISL
SIDRLEFDLLYPAIKGDITQLYLGAKLLDSQGVTKWFNNSAASLTMPITLDNIPFSLIVSQDVVKAAVAVALSPE
EFMVLLDSVLPESAHLKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQLIVLEVFPSSSEALRPL
FTLGIEASSEAQFYTKGDQLILNLNNISSDRIQLMNSGIGWFQPDVLKNIITEIHSILLPNQNGKLRSGVPVSL
VKALGFEEAAESSLSKDALVLTPASLWKPTSPVSQ

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FIGURE 5731

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCCGTGGACGAGGACCGCCTGTCCCCGTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT
TGGAGGGACCAGGGTTTCCAGAGATGCTCACCTTGTCTCTGCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCCTCC
CAGCCTGTTTGAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCTAGGAGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACACG
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACTTTCGGCCCTTTTGCTCTGGGGGTCCCACAAGGCCCAGGGCAGTGCCTGCTCCCAGAATCTGGTGCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCAACTCCCTCTACCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC
TGCCCCATACTGAAGGAAGTGAAGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGGACCTTCAGTGTGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCAGC
CCAGACCCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCCTGCCTCCCCACTGCTCTGCCCCACCCTCCAATCTGCA
CTTTGATTGCTTCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTGCGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCCATTTCTCCACTTC
CCTTCTCCCTGTCCGTGCCGATTTGATTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCTCGCTGTTTTGGT
CCTAACTCAAAAGCAGATCCAGTAAAGGTTTTTGTGT

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FIGURE 5732

MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIIISAAQDASAPPAPTGPAAPAAGPCDPEDLLLFATPQAPRPT
PSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEKSRYETSLNLTTKRFLLELLSHSADGV
VDLNWAAEVLKVQKRRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMN
ICTTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMIKAPPETQLQAVDSSENFQISLKSKQGPIDVFLCPE
ETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSPPSSLTTDPSQSLLSLEQEPLLSRMGSLRAPVDEDRLS
PLVAADSLLEHVREDFSGLLPEEFISLSPPEALDYHFGLEEGEGIRDLFDCDFGDLTPLDF

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FIGURE 5733

CGCGCGAGCGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGCGACGGCGACGA
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGCAGCCGCCCTTTTCCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCCAGCCGCGCGGCTTCCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGCTGACCCTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCTTTGTTTCAGTACTCCAATGAGCGCCATGCCCCGGGCAGCTGTGCTGGGAGAGAA
TGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCCGTCTGTGCGCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCACCACCAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCCGGCGGGCGGGCGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACACAACCTTCTGAGGCAGGCCTGCCCCAGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA
TGATGGGGCCTTGAGTAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCCTGGATGCCACCCCCCAGCGGGTACCAGAGGAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTTCTATAGGTTTGGCGGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCCAA
AAAAAAAAAAAAAA

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FIGURE 5734

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAACTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAAGATGCTTCTGATGATCTAGATGACTTGAACTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCAGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTCAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAG
TAGGAACCAAGAAAACCTTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCC
TTGCATTTTTTGTGGCTGAATTGGGTACAAGTGGTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTACACATGCCGATCAC
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCGAAACTTGTCATTCTAGATGTTCTGTTG
CCAGTATCAAAACCGGCTTCCAGGCTGTACAGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAATAATTTGCTA
ATCACTGATTTTTGCAAAGCTTGTTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTGAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 5735

MSGDEMIFDPTMSKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIMLGNNKKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTGPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQKQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCSVASIKTGFQAVTGKRAQLRAKAN

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FIGURE 5736

CTGAGGCCCAGCCCCCTTCGCCCCTTCCATCACGAGTGCCGCCAGC**ATGT**CTGACAAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTGAGACCCTCGTCAACCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCTGTACTTCAAGGACGGGGCCCCCTCAACATGATTCTGGACGACGGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGAAGGTAGCGGTGGTAGCAGGCTATGGTGATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT
TCGGAGCCCGCGTCATCATCACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTCAGGAGGGCAACATCTTTGTCAACCACACAGGCTGTATTGACATCATCCTTGGCC
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACATTGGACACTTTGACGTGGAGATCGATGTCAAGT
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC
GCATCATCCTGCTGGCCGAGGGTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTCGTGATGAGTA
ACTCCTTCACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTTCATT
TCCTGCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA
CTGAGAAGCAAGCCCAGTACCTGGGCATGTCCTGTGATGGCCCCCTTCAAGCCGGATCACTACCGCTACT**AG**AGC
CAGGTCTGCGTTTCAACCCTCCAGCTGCTGTCCTTGCCAGGCCCCACCTCTCCTCCCTAAGAGCTAATGGCACCA
ACTTTGTGACTGGTTTGTGTCAGTGTCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC
CACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGTCCTTCCTTAGCCTGGAAGCCAGTAGT
GGAGTCACAAAGCCCATGTGTTTTGCCATCTAGGCCTTACCTGGTCTGTGGACTTATACCTGTGTGCTTGGTTT
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGGCTATATTGAAGGGCAAAGAGGAAGTGTGTTTG
AATTTTCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCC
CTGTTTTACAGGGGTTAGAATAGACTGTAAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTGAG
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTTCGTGAAATCTGCCACCACCTTTATAACCAGATGGTTCCTTTCA
CAACCCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTTAAAGAAAGCAGGAAGGTGGGTAAATAAAAAATCT
TGGTGCCCTGG

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FIGURE 5737

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYSASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI
RGISETTTTGVHNLYKMMANGILKVPAINVND SVTKSKFDNLYGCRESLIDGIKRATDVMIAGKVAVVAGYGDVG
KGCAQALRGFGARVIITEIDPINALQAAMEGYEVTMTDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG
HFDVEIDVKWLNENAVEKVNIKPQVDYRLKNGRRIILAEGRLVNLGCAMGHP SFVMSNSFTNQVMAQIELWTH
PDKYPVGVHFLPKKLDEAVAEHLGKLVNKLTKLTEKQAQYLGMSCDGPFKPDHYRY

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FIGURE 5738

GGGAGAACCGTTTCGCGGAGGAAAGGCGAACTAGTGTTGGG**ATG**GCCACCAACTGGGGGAGCCTCTTGCCAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCCGTGACCGGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACCTTCCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTGCAGCCAGAACGCTGCCTTCCTGGA
GCAAACTCTTTCCAGCACCATCAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCCTAAA
AGAGGGCATTGCCAGACTGTGTTCTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCTGGCCTCCCGGACCCCAGCTGT
GCACCGACATGTTCTCAGTGTCCTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTCACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCAGTGGTCCAGTGCATTTAGAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCCTGGACAACCCATACCCCTGT**GTGA**AGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCAATTCCTCTCCTAGCCCTCCTGAGGGGTATCCTCTAAAGACCTCCAAAGTTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCCAGCTTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCTGCCCACTCC
TGTCAGCCCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAAACTGCATTGCTGT

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FIGURE 5739

MATNWGSLLQDKQQLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYAPFTLFP
SLVPSALLEQAYAVQMDFNLL
VDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRS
DYMFOR
SADGSPALKQIEINTISA
SFGGLASRTPAVHRHVL
SVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN
ELLARNIHVIRRTFEDISEKGS
LDQDRRLFVDGQEIAVVYFRDGYMFRQYSLQNW
EARLLLLERSHAAKCPDIATQ
LAGTKKVQQELSRPGMLEMLLP
GQPEAVARLRATFAGLYSLDVGEEGDQAIAEALAAPSRFVLKPQREGGGNNLY
GEEMVQALKQLKDSEERASYILMEKIEPEPFENC
LLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLR
TKAIEHADGGVAAGVAVLDNPYPV

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FIGURE 5740

GGAAGAACCCGCAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCT**ATG**CCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCAGCGGCTCCGCGCCAGATCCC GCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA
CAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTCTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGAAACAAACATTTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCCTGAGAATGGCTGAGGAGGCGGCCGAAAACCTCTCCAGCCTTTCAGACCCCCACTGGCATGCCATA
TGGAACAGTGAACCTTACTTCATGGCGTGAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTTGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCTTGGAGGCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCTCAACTACTACACTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCACCCCTCCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGCGGATTTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGCATGGAGTCGTTCTTCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACACGGTGATCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGGTACATCTT
CAACACAGAAGCTCACCCCATCGACCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGTGCAGGTGCAAATTTAGAAAAACACTGTTAGTTCGGG
GCCATGGGAACTCCAGCAAGGCCAGGAACACTCTTCTACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGTCAGCCCTTACCTCCAAGTTGGCATTACTGGGACAGGT
TTTCTAGACTCCTCA**TAA**CCACTGGATAATTTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

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FIGURE 5741

MPFRLLIPLGLLCALLPQHHGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDELREPLTCDGHDTWGSFS
LTLIDALDTLLILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLSSKKAGVEVEAGWPCSGPL
LRMAEEAARKLLPAFQTPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDEVFEDVARVALMRL
WESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLVV
QMYKGTVSMPVFSLEAYWPGLQSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNIPOGYTVEKREGYPLRPELIE
SAMYLYRATGDPTLLELGRDAVESIEKISKVECGFATIKDLRDHKLDNRMESFFLAETVKYLYLLFDPTNFIHNN
GSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRCSRKFQKNTVSSGPW
EPPARPGTLFSPENHDQARERKPAKQKVPLLSCPSQPFTSKLALLGQVFLDSS

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FIGURE 5742

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTC**ATGGC**
GGTCCGAGCTTCGTTCGAGAACAACTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATAACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCT**TGA**GTACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCATTAAAGTGCAGTTCCTCCGGA

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FIGURE 5743

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGLLVPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTENDYVALVHPDLDRATEEILADVLKVEVFRQTVADQVLVGS
YCVFSNQGGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

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FIGURE 5744A

CGTTCGGGCAGCGGCCTCTTGTTACCCGGGGCCCGCTTGCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC
AGTCGGCGCCGAAGGAGAGCTTCCCGACCCCTCGTGTCCAGTAGCCGCAATCCCAGGCTGGGAGGGTGAGGCGCCG
CGCTCTGCCGCCCCCCCCCGCCCTCGCTCCCTGTGTCTTGGCGGATTTGCACGTAATCTATCCGAAAGCCCAGTCC
CACCCGCCACCCGACTCTGGAGCTCCCATTCTTCAGGACCCCTGCTGAAGTATCGCTTCTCAGCCGCCTTCTCCAG
GCGCAGCTGCATTCTCGTTTCTCGGTTTTTGCACCTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGCTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTTGGAAAGATCTGTGCCTCCAACCAGCAGAGAGGGATTG
AGCTTCATTGAACTCAACAGAGCCAACATTTTCATAGCACCATTGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG
TTAGAGACCCCTGCTGGGCGTGAACACCCCTCTGGCTACCTAGGGACCTGTGGGCCTACCACCTGGTGCCCTCATGG
AGACAAGAAGCCCTGGGTGTAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC
TACAGCAGCAGATGGCAGAGAATCAGGCAGCCTCCTGGCGGAAGCTGAAGAATCCCAGGAGGCCCAGCAGAGAC
AAGCAACCCTTGTGAGGAAGCTGCAGGCCAAGGTGCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC
TAGAAGCCACTGGAGGACCAATCCCCAGAGGTGGGAAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGAAAAAACTGACAGTGGACTGGAGCCGGGCCCGGGATGAGC
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTCGCC
TTCTCAGTCTATGGCGGGAGGTTGTGACATTCCGACGCCACTTCTTGGAAATGAAGTCAGTACTGACAGAGATC
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTAGGGTCTCTGTTGACCTGTTGTCTGCGCTTGACTGTGGGAG
CACAGTCTCGGGAACCCAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG
AGAAGGCTGAACTTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT
ATGAAAAGATGATAAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA
TGGTGGAGAAGGGGACAATATAGCCCAAGGCTCTGGTCATGAGAACTCTTTGGAATTGGACTCTAGTATCTTCT
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCGTTCAGTGCTGACTCGGAGACGCCAGGCTG
TGCAGGACCTAAGGCAGCAGCTTGCAGGCTGTCAAGAGGCTGTGAACTTGTGCAACAGCAGCATGATCAGTGGG
AGGAAGAGGGGCAAGCCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCGGC
AGCAGCTGGAGGTGCTAGAGCAGGAGGCATGGCGCCTGCGAAGGGTAAATGTGGAGCTTCACTGCAGGGGGACT
CTGCCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAATGATCACTCTTCGGGAAGCCCTGGAGTCAA
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAAGTGACCGCAGCGCTGGCTAGGGCAGAGCAGTCAA
TTGCAGAGCTGTGAGTTCTGAAAACACCCCTGAAGACAGAAGTAGCTGATCTTCGGGCTGCAGCTGTCAAGCTCA
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGCTGAACCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC
AGTCTGTGTGCAGCAGAAATGGAGGCCGCAGAGCAGGCGAGAAATGCTTTGCAGGTCGACCTGGCGGAGGCAGAGA
AGAGGAGGGAAGCCCTGTGGGAAAAGAACTCACCTGGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG
AGCTGCAGGCAGATCTCAGGGACATCCAAGAAGAGAAGGAAGAAATTCAAAAGAACTAAGTGAGTCACGTCACC
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAGCGACAGGAAGAAGTGCTTGCCAGGG
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC
GGCAGGACCTCGCTGAACAACCTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC
AACAACAAAATTCTGTGATAGAGGTCACCAAGGGGCAGCTGGAGGTCCAGATTCAAACCTGTCACTCAAGCCAAGG
AAGTAATCCAAGGGGAAGTGAGGTGCCTGAAGCTGGAACCTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG
ATGCTGCAGCCAGACAGCTGGCCCCAGGCTGAGCAAGAAGGGAAGACTGCCTTGAGCAGCAGAAGGCAGCCCATG
AGAAAGAGGTGAACCAGCTCCGGGAGAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC
TGGAGAGCTTAGAAAGGGAAAAAATGGAGCTGGAAATGAGGCTAAAGGAGCAGCAGACAGAAATGGAGGCCATCC
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAAACAGAGAAGGAGA
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACAACTGGAACGACTGA
GGCAGGACATGAAAGTCCAGAAATTAAAGGAGCAGGAGACCACTGGGATACTACAGACCCAGCTCCAGGAGGCTC

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FIGURE 5744B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCCAGGATGACTCCCA
GGCTGGTGGAGCAGGAGGTTTACAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTCAGAAGGAGCTGGAGA
GAGAGAAAAGCCAGCCTGACTCTGTCACTGATGGAAAAGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA
TTCGACAACAAGAGCTGAGTGGCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAAGAGCTCAGTGCTC
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGCAGAGCAGCAGCCCCGGAACCAGGCC
AGGCCAGGCCAGCTGGCCAGCCTCTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGCCCCCTGCTGACTGCTCTCTCCGCTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGAGAAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAACATACATGAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCCAGGTGGAACACCTGCAAGCAGCTGTCGTAGAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAACTGAAGGTGGCCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAAGTGGAGAAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTCAGGAGCTAGAGAAGTGTAGGTCTGTTTTAGAGCATCTGCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAAATGATTGAGTCCCAGAGAGGACAGGTTTACAGACCTGAAAAAGCAGT
TGGTTACTCTGGAATGCCTGGCCCTGGAAGTGGAGGAAAACCATCACAAAGATGGAGTGCCAGCAAAAAGTATCA
AGGAGCTGGAGGGCCAGAGGGAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGGAGCTGCAGGCACAAAGCAGCCAGATCCATGACCTGGAGAGCCACAGCACCCTTCTGGCAAGAGAGCTGCAGG
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTAGGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCCTTGAGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTCAGCAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCCTGTCCAGCGAG
AGCAGGAAATAGTGGTCTTGCAGCAGCAACTGCAGGAAGCCAGGGAAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCCAGAGGGACCAGGAAGTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCCAGGGACAGGAGGAGAGGGTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCCATA
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAA
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGCAGTGCTCAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCAGTCTCT
CCCGGCATCAGGAGGAGGCTGCCCGGGCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGGCAAGGCTCATGCTGCCC
TGCAGGGGAAAAGAGCAGCATCTCCTCGAGCAGGCAGAAATTGAGCCGCAGTCTGGAGGCCAGCACTGCAACCTGC
AAGCCTCCCTGGATGCCTGCCAGGCACACAGTCCGCAGCTGGAGGAGGCTCTGAGGATACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGCAGCAGCTGCAGCAGGCACCTTGCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCCAGAGGGTCCAAGAGAATATGATCCAAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCCTTCATCAGAGTGTAAGGGAGCTACAGCTGA
CTCTAGCCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCCAATGGAGGAACAATCTCTAAACTTGATTCTTTAGAGCCCAGGCTGCAGCGGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

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FIGURE 5744C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTGAGCAGTCTGCAGGAGGTAGCCATGTTCTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAACTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGCCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTCACCCACACAGCAGGATGGGAGAGGACAGAAGAACTCAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCTCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCCAGGCCC
CTGAGGCCACTGTCCTGGAGGCAGAGACCCGCAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCTTGCTACACCCCAGCCCCAGCACTACCCAAGCCGCCTCCAGGTAGCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTGTCATGGGTGTCATGGCCCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CACCCAGGAGCCCCAGGTCGGCGGGTGTTCACAGGAAGAGGAAGTAAATCTGCAACCCTGGGGAGGACCCCAACT
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCACCCAGAGGGGTGCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCCTAGCACTTCACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5745

CTGGCGTCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTCAGTGGCCTTCTCATGCTGCTACTG
TTCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTTTGACCCTGACTCCCTGGACCCTGATCGC
TGTGAGAGCTGCTATGGTGCTGAGGCAGAAGATATCAAGTGCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAAGCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGGAAACTTCCACTTT
GCCCCCTGGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGCAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCCTGCGCCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGCCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTGCCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTC
ACCCACTTCCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGGAAGACAACGTAGTACCCTCGGTGCTTCCTCTG
TCTCCTCTTTCTCCCTGGCCTGTGGTTGTCCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTGAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5746

MEALGKLIKQFDAYPKTLED FRVKTCGGATVTIVSGLLMLLLFLSELQYYLTTEVHPELYVDKSRGDKLKINIDVL
FPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKDGIPVSSEAERHELKKEVTVFDPDSLDPDRCESCYGAEA
EDIKCCNTCEDVREAYRRRGWAFKNPDTIEQCRREGFSQKMQEQKNEGCQVYGFLEVNVKVNAGNFHFAPGKSFQQS
HVHVHDLQSFGLDNINMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVVP TVYMKVDGEVLRNQF
SVTRHEKVANGLLGQGLPGVFVLYELSPMMVKLTEKHRSFTHFLTGVCAIIGGMFTVAGLIDSLIYHSARAIQK
KIDLGKTT

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FIGURE 5747

ACCAGGCAAATATTCCATTACAGCATTACAAAGATGGATGTTCTTCAGTTCCTAGAAAGGAATCCCAGTGGATGAAA
ATGCTGTACATGTTCTTGTTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTTCAGTTTAAAAATGAAGATG
ATGCACATGGGCCCACTGCGTGACCTTGGTTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGC
TCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAA
CGGGTGCGGAACTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAG
CTACGCTTTGGAATCTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGCTGAG
TGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGG
CGGGGGACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAAC
CTAGATAAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCGCCAGGGTGATGGGAAAATGGCAC
CTGGTGACAGATCTGAGGTCATCAAGAACAACCTGAACCTACATGGAAGCGTTTCTCAGTCCCCGTTTCAGCAT
TTCTGTGGTGGAACCCAGCACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTACATGATCTC
ATCGGTACCTTCCACACCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAG
CAGCAGAAAAAGAAAAGCTACAAGAACTCTGGAACATATCCGTGTCAAGATTTGTCGGGTAGAAACAGAGTACTCC
TTTCTGGACTATGTGATGGGAGGCTGTGAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGAC
CCCTCCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTG
GGCAGCGTGGTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTTGGGGCCAGGTTCCCCCTGAC
TGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCCAAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTG
GATGCCTACCGCCAAGCCCTGCCCAAGTTTCGCCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG
GCCAGGTTTGCAGCCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGT
GCTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCGTGCCCTCGAACCTGCCCATGTGAGTGATCATTGTG
GGTGTGGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACAGTTCTGGG
CAGGCTGCTGCCC GCGACATTGTGCAGTTTGTACCCTACCGCCGTTCCAGAATGCCCTCGGGAGGCATTGGCA
CAGACCGTGCTCGCAGAAGTGCCACACAACCTGGTCTCATACTTCAGGGCCCAGGTTGGGCCCCGCTCAAGCCA
CTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCAGGCCCTAGGTTCCCTTGAGGCTGTGGCAAGTCTCAA
TCCTGTGTCCAGAGGTCCCTXTGGGCCACAACCCAACCCCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTT
TTGATACTTTTATACTTGTCTTTTGCTGCTCTTGATCCACCTTTGCTCCTGACAACCTCATTCAATAA
AGACCAGTGAAGACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5748

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGSWAE LGRTERVRNCSSPEFSKTLQLEYRFETVQKLR
FGIYDIDNKTPELRDDDFLGGAEC SLGQIVSSQVLTLP LMLKPGKPAGRG TITVSAQELKDN RVVTMEVEARNLD
KKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRF SVPVQHFCG GNPSTPIQVQCSDYDS DGSHDLIG
TFHTSLAQLQAVPAEFECIHPEKQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINFTVGVDF TGSNGDPS
SPDSLHYLSPTGVNEYLMALWSVGSVVQDYDSDKLFP AFGFGAQVPPDWQVSHEFALNFNPSNPYCAGIQGIVDA
YRQALPQVRLYGPTNFAPIINHVARFAAQAAHQGTASQYFMLLLLT DGAVTDVEATREAVVRASNLPM SVIIVGV
GGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPYRRFQ NAPREALAQTVLAEVPTQLVSYFRAQGWAP LKPLP
PSAKDPAQAPQA

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FIGURE 5749

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG
CCCTTGGGCCCCACTTCCCAGCCTACCGCTTCCGTCCCCGCCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTTGGCACATTCAT
GGCCATTGGGATGGGCATCCGATGCTAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAAGAAAGTCTTTGAGT

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FIGURE 5750

GGACGCAGAGAAGCCAGAGACTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT
CTCGGCCGGTCCCGAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACC GGAAACGTCTCCCTGCTC
ACCCACCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTT**ATG**

GCGGCTACGGAGCCGATCTTGGCGGGCCACTGGGAGTCCCGCGGCGGTGCCACCGGAGAACTGGAAGGAGCCGGT
TCGAGCTCAGCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCCTCACCGCCTGCCCCTGAGCCTTCC
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCTCCGCGGCCCTGGAGCTGCCTCTC
GGGCCCCGCACCCGTGAGCGTAGCGCCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCCGCCGGCTCTAGA
CTCGGTCCCGAGACGTTCGCCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCTGACATCCGCACCAAGGAGCAGATCGTGGAGATGCTG
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCAGGCGGCTCGGGCCCGGCGGATCCGCCGCCGCACGGATGTGCGC
ATCACTGGCT**TGA**CGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC
GGGGGCCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTGGCAGCGCCAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 5751

MAATEPILAAATGSPAAVPPEKLEGAGSSSAPERNCVGSSLPEASPPAPEPSSPNAAVPEAIPTRAAAASAALELP
LGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFQFRYQDAAGPREAFRLRELSRQWLRPDIRTKEQIVEM
LVQEQLLAILPEAARARRIRRTDVRITG

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FIGURE 5752

CTTTTTCTTTCTGATTCTTGTGTATGTGTGGCTGGGCCGCCCTCTTCTCGGCTCAGAGTCACGGAGTGCCT
TGAAGTAGGCCCACCTCGCCGGGGCGGCTGGTTCTCTGTTTGTGGGACGCTGGTGTCTCTGGAGGCCCTTCCTGA
GAAGCCGTCGCCAGAGTTACGTCGCGGTTTTCTTAACTTTAGAGCCTGGGGGCCGAGACCTGATTGCACTCGA
CCTGGCTCTGCCCTACTCTCTGCGTGACTTCCACTGTTTCATCAAAGAAAAAGGGTTCTTTTGGTCACCCACCACT
GGCCCCATGGGCTGCCGTGCAGATGGATCCTGAGCTAGCCAAGCGCCTCTTCTTTGAAGGGGCCACTGTGGTCATC
CTGAACATGCCCAAGGGAACAGAGTTTGGGATTGACTATAACTCCTGGGAGGTGGGGCCCAAGTTCGGGGCGTG
AAGATGATCCCTCCAGGCATCCACTTCCTCCACTACAGCTCTGTGGACAAGGCTAATCCGAAGGAAGTAGGCCCT
CGTATGGGTTTTCTTCCTTAGCCTGCACCAGCGGGGGCTGACAGTGCTGCGCTGGAGCACACTCAGGGAAGAGGTA
GACCTGTCCCCAGCCCCAGAGTCTGAGGTGGAGGCCATGAGGGCCAACCTCCAGGAGCTGGACCAGTTCCTGGGG
CCTTACCCATATGCCACCCTGAAGAAGTGGATCTCACTACCAACTTCATCAGCGAAGCCACAGTGGAGAAGCTA
CAGCCCGAGAATCGACAGATCTGTGCCTTTTCCGATGTGCTACCTGTGCTCTCCATGAAGCACACCAAGGACCGC
GTGGGGCAGAATCTACCCCGCTGTGGCATTGAGTGCAAAAGCTACCAAGAGGGCCTGGCCCGCTACCAGAGATG
AAGCCAGAGCCGGGACAGAGATCCGCTTCTCAGAGCTGCCACGCAGATGTTCCAGAGGGTGCCACGCCAGCT
GAGATAACCAAGCACAGCATGGACCTGAGCTATGCCCTGGAGACTGTGCTCAACAAGCAGTTCCCCAGCAGCCCC
CAGGATGTGCTTGGTGAAGTCCAGTTTGCTTTTGTGTGCTTCTGCTGGGGAATGTGTACGAGGCATTGAGCAT
TGGAAGCGGCTCCTGAACCTCCTGTGCCGGTCAGAAGCAGCCATGATGAAGCACCACACCTCTACATCAACCTC
ATCTCCATCCTGTACCACCAGCTTGGTGAGATCCCCGCTGACTTCTTCGTAGACATTGTCTCCCAAGACAATTTC
CTCACCAGCACCTTACAGGTTTTCTTTTCTCTGCCTGCAGCATTGCCGTGGATGCCACCCTGAGAAAAGAAAGCT
GAAAAGTTCCAAGCTCACCTGACCAAGAAGTTCCGGTGGGACTTTGCTGCGGAACCTGAGGACTGTGCCCGGTG
GTGGTGGAGCTCCCTGAGGGCATCGAGATGGGCTAACTCGGGGAGCGCTCTCAGCTGCGAGGGGGCCCCCTTCCCAC
AGGGCTGCAGTCTGGCCTCTCCATTTACTTCTTCCCATCCTGGGACCTGCCAGGGCAGCAATCTCTCCAGGTCC
TGAAAAGATGGAGCCAGAATTCCCTTTTTTCACTGATAAATATATTTCTTCATTGCCAAAGAGGCTGTACCCATCC
TGAAGGCACATTTGTGGGTTCCCCATCAGCCAGGCCTTGGTGCTAACCTGGCTGAATTTACACAGGCTCTTACA
CACACACGCTCCTAGGAGACATCTGCCTACACGGCAACCATATTTCTCTGAATGAGAAGGAATTGAACCAAAAG
TCCAAGAAAAGAACTGATTGCTTGTTCCATAGGAGCTTAGGAAACAAGAAACCCTGGATTGCCAGGGGGTCTGAG
AAGTTGGTTGGTGACTTTTTTTTTCGGTTAAATGAAGGGTGATGGGGAGATCAGCCCGAATTGCCGCCTGCCTCTT
GCTAAATAGGAGCAGAGGACTTGGCCTGCAGCTCCTTGGGAGCCCTTGATTGGGAAGAGAGTTTCAAGGGAGGCA
GCTGGATTCAATCTAGCAGGTGGTCAGCTTCAGCTTCTCCATCGAAATCCCATTCTCCTGTCCAGAGGCCAGT
GGGTCACTCTCCAAGGTGGGTGTGGACCCTGGCCTCAGAGGCCCTTGCTGGTGTGTACCTCCCACCTGTTCAT
TCCGAGGCCTCACCCAGAAGTGGGACCCTCCCCCTTCTCACCAGAGCCACCGTGAAGTGTCTGATGACCTGGAG
AGTCAACAACAACCAGAAAGGTTTTCTGCCCAGAGCAGGCTTCTTAAGGCCTTTACGAAGTTTTGTGCCTTCCAAG
TGCTGAAGAAGACCTGGTCAGCCTAAATCTTCCCAGTCCCGCTGTGGAGCTGTGAGTACACAGGCCCTGCCACCCTGA
CATCAAACCTGTTGTACTATGATCACAGTCCCTGTGCCATCCTTTTCCAAGACTGGGGCTCACACCATGTTTTTGA
ATGAGAATCCCTGCTGGTTGAGACTTTTGTCTTCACTTGTTCCTTGGAGATGTTTTTCCAAGAGCATAATGTAC
ATTAAAGTCTTCGAGTTGAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5753

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPKFRGVKMIPPGIHFLHYSSVDKANPKEVGPRM
GFFLSLHQRLTVLRWSTLREEVDLSPAPESEVEAMRANLQELDQFLGPYPYATLKKWISLTNFI SEATVEKLQP
ENRQICAFSDVLPVLSMKHTKDRVGQNLPRCGIECKSYQEGLARLPENKPRAGTEIRFSELP TQMFEGATPAEI
TKHSMDLSYALETVLNKQFPSSPDVLGELQFAFVCFLGNVYEAFEHWKRLNLLCRSEAMMKHHTLYINLIS
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSI AVDATLRKKA EK FQAHLTKKFRWDFAAEPEDCAPVVV
ELPEGIEMG

6230/6881
FIGURE 5754

GGAAGCCCCACCCACCAGAAGCCAAG**ATGT**CCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGC
GGGCCACATCCAATGTCTTCGCAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTG
ACCAGAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGGAAGAACCCACAG
ACGAATACCTGGAGGGCATGATGAGCGAGGCCCCGGGGCCCATCAACTTCACCATGTTCCCTCACCATGTTTGGGG
AGAAGCTGAACGGCACGGACCCCGAGGATGTGATTGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTT
TCATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGA
TGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCG
CCAAGGATAAAGACGAC**TAG**GCCACCCAGCCCCCTGACACCCAGCCCCCGCCAGTCACCCCTCCCCGCACACA
CCCGTCCATACCAGCTCCCTGCCCATGACCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTTCCCA
GTGGAAGAAACAGGCCAGGAGAAGTGCGTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCCTGGGC
TATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGGGCAGGACCTAGAGGCACCAA
GGGAAGGCCCCATTCCGGGGCTGTTCCCCGAGGAGGAAGGGAAGGGGCTCTGTGTGCCCCCAGGAGGAAGAGGC
CCTGAGTCTTGGGATCAGACACCCCTTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGGTCCCCTCTCAGT
CCCCCTCCCTACACCCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGTGCTCA
GGAGTCGCGGGCAGCGTGGACATCTGTCCCAGAGGGGGCAGAATCTCCAATAGAGGACTGAGCACT

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FIGURE 5755

MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLEGMMS
EAPGPINFMTMFLTMFGEKLNKGTDPEDVIRNAFACFDEEASGFIHEDHLRELLTTMGDRFTDEEVDEMYREAPIDK
KGNFNYVEFTRILKHGAKDKDD

6232/6881
FIGURE 5756

GCGGGGGGTGGGCGCAGCTCGTCGCGCTCCGCACAAAGTTTGTTCCTCCCGGCGGGTGGGGGAGGGCGCA
GAGGGCGCGGGGGGAGGAGAGGGGATCTGACGTCAGGCCGCGAGGTGCTTTCCAGCCGCGAGCTGTCAGGCCGAG
TGTCAGGCCGCGGAGGTTTACCCAAGGTCCAGCCTAGCCCCTAGGCACCATGTGCGACAGTGATCTAGGTGAGGA
CGAAGGCTCCTCTCCCTGGCGGGCAAAAGGAAGCGCAGGGGGAACCTGCCCAAGGAGTCGGTGAAGATCCTCCG
GGACTGGCTGTACTTGCACCGCTACAACGCTACCCCTCAGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAA
CCTGTCAGTGCTGCAATATGTAAGTGGTTTCATCAATGCCCGCGGGGTAAGGCCTCAGATGTGGCCCTCCCCCGTGGCAG
TGGCAAAGACCCTAATCAGTTTACCATTTCGCCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCCGTGGCAG
CAGCCCCTCAGTGCTGGCTGTGTCTGTCCAGCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCT
TCACTCAGGCCAGGGGAAAAGCCAGCAGCCCCTTTCCACGTGGGGAGCTGGAGTCTCCCAAGCCCCTGGTGAC
CCCTGGTAGCACACTTACTCTGTGACAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACAGCCACC
ACCCACACCCCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGC
TGCTGAGATGGAGCTTCAGAAGCAGCAGGACCCATCACTCCCATTACTGCACACTCCCATCCCTTTAGTCTCTGA
AAATCCCCAGTAGGCATCTGCCAAGAAGGGTGCTGAAGGCTCCAGCCAGCTGTCTGGGTTTCCGTTTGGTTCC
CTTTCATACAGAGGGTTTCTATGGATCACTGCCAAACATTGGGATCATCTCCTCTGTCCAGAGGTCTTCAACAG
GAAGATGCCAGCTGGCACCCTGCACTGTGATGGGGGCCCTCTCCTCTGCTGACTCTGCCGTTTCTCCAGGCCCTC
CGCTCAGTGATGAGACCAAGAGATCGGAGACAAGCATGGTGCTGCTGCTTCTGCTGCTTCTCCAGAAAATCCCTG
GGACACCTTTGTTCCAGCCTGGTTTCTGGGCTGGGCTCAGGAAAGCTGCCAAATTCAGTCTATGTTGGGTCCA
AGCTGCCCCGTGTGCTGTTTCTGTCAAGCCAGGTGTGGACATTCCAAGTTCATATGCGTGAACAAAAGAAAAGAGG
AACCAGTGATGTAAACAGAACCAGACTCCAGTTGAATGTTTAGATTTTGTCTAAACTGTTTTCTTTTCCCTTTT
TTGCTGTGGTTTGCATTACGGCAGTAGTTAGCCCAGGTGTGGGGAACGAGAGTGCATGATAGCGTTCTG
GTGAGCTGGGAAGGACCCACCCTGCCACTGAGGATTGTTTTGGAAGAAAGGAATATTTTTATCTTGGGGACCAG
CTAAGTCTCTGCAGTAGTGTGAAATTCCAAATGGTTGTTTTATCATTGGTTTGGTTTACCAAAAAAAGGCAGGG
AAAAAAGAAAAAACAACCGTATGAGCGCATTGGCTTGTCTGCCGAGGCACAGAAGGGTAGAAAAGCCACAGCAG
GGGGCAGTCCAGCAGACTCTGACTCAACTTTCTAGGCACCTAGCAGAGAAAGATAAGATCAAAAAGTGTTTGGTT
TTTCTTTTAATTTTTATTGTAGTTTTTTTTGGGTGGGTGGGGGAAGTAAACTAGACTGAAGCGATGGATTTTTTTT
TTCTTTTTTTCTTTAGTGTTTTTTCCCTTTGTTCTTGAACACTTTTGCCCTGCAGCCTCAGTTTTGAATTCTTTT
AGCAACTTGGATTAGAGGGGCCATATGTGAGAAGCTCCCAGCACCTCCTACTTGGGAGAAAAGTGAGCCATCTG
CTGGTCAGGAAGTCTCCAGAGAGGCAGCTTTTCCACAAATGGTGGCAGGAACTTTGGGGAAAGCAGGAATGGT
GTCCACTGCTGCGGAGGAACCTGCCTTCAGAGAAGGTGGGGCTGGAAGGGTTAGAAGCCTCCTAGCTGGGATTG
TCTTTGTTTACCTTTCTTTAAATTAGAATTACAGAAGCCCCTGCCAGTGAACAGATAACGATTGGTCTTATGC
TCCCTCCCTTTCCCCCATTTTTTCTTTTGTGTTTTGTTTTTGTGTTTTGTTTTGTTTTTGTGTTTTTGTGAGACA
GAGTCATGCTCTGTACCCGGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGTAACCTCCGCCCTCCGGGTTT
AAGCAATTATTTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCACCCGCCACCATGTCTGGCTTTTAGTAGAG
ACGGGGTTTACCATCTTGGCCAGGCTGGTCTTGGAACCTCTGACCTCGTGAGCCACCACGCCAGCCTCTTTTG
CTGTTTCATTGCTGACAGTGTTCAACAATATGCCCCATCTTTATATATCCTAAGAAACACTAATCCTAGGTTATT
GCTAGCCAAAATATTTTTGTCTGAGTAGTGTCACTGGGCCAAAAGATAGATCAGGACGACAGCCTTTAGTTTTT
CTGAAATCACCAGGTCAGGCACAAGGAGAAAAGGTTCTGGATACTGACTAAGTTGGGTGGGTGGATCTAGCCAG
GAGAAAGACAGTAACATGTGTTCTGTACTTTCTGGGAAGATCCCTGAAGCCATCACAGAGGCTCCCCAACTTCTG
AGTCGCCCATCTGTTGCTGTGGGAGTGTGAACGGATCGCTGAAGGAGAGGGAGCTTTGCTCTCTCTAGGTGGGCA
AGTTTCTGGGCTCTCTGTGTGCTCCTCTGGCTTCTTCCCTCCCGTGCCCTCTCCCCGTGTGCCCCAGGGGGA
TCAGGGATCCTCACCCTCCTGAGGCCAGTGGGGAAGAATGAACATGGCTTCATCCAGGTTAACTGATGCTGCCA
TTTGGCCAGCCTCTTCCATCCCAGCCCTGTGAGTGAGCCAGGCTGGTGCAACTGCTGCAGGATGCCTGTAGTA
GGGAAGTCTGGAAGTGATTGGGCTGAGGTGGGATTTTCCCTCCCCACAGTGCACTGAGCAATGGAGGGTGGTGA
GGGAGCCATGCTGCTGAATTCTGGTTGGCATTTCCTCCATTATGTAAAATGGGGTGTGGGTAGGGCAGACTCTGC
TTGGGTTTGGTTGTAAGATAAACCTGGAGGAGAAGCACAGTTGTCCATTGAATTATTTGAGCAAAAAGTACTGT
AAATAACTTTTTTGTCTTTTGTCAAATAAAATTTTTTTTTTGTTTTTTTAAGCAG

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FIGURE 5757

AGAGTTTCGGAGGCGGTGACCGTGACGTAGAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGCGGG
TGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTGTTTCAGAGTTTACCACCTA
GGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACT**CATG**ATCATCAAT
TGGAATCAAGTCTCAGTCCTGTGGAAGTGTTTGCTAAAAACAATCTGCCAGTTATCAAGACAGGAGGCAATCCTGG
CGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATTACCCAGGGGCATCACAGAGCTCAGC
CGGTCTATCAGTGTCGATTTAGCAGAAAGCAAACGGCTTGGCTGTCTCCTGCTTTCCAGTTTCCAGTTCTCTATT
CAGAAACTTGAACCTTTCCCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTTCTCTT
TCTGAAGAATTGAAACATTTTGCAGACGGACTGGAAGCTGATGGAAGTCTACAAAAATGTTTTGAAGATTCAAAT
GGAAAAGCATCAGATTTTTCTTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAA
CGTCAGACTTGGGATCAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAG
GCCAAAATTACTGAGGTCAAAGTGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAA
CCTGACTACCAGAAAAATTACAGAACCAGAGCAAAGTCTTTGACTGTATGGAGTTGG**TGA**TGGATGAACTGCAAG
GATCAGTGAAACAGCTGCAGGCCTTTATGGATGAAAGTACCCAGTGCTTCCAGAAGGTGTCAGTACAGCTCGGAA
AGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAAGTGTGAAGCTTCAGCTACAGAACCCACCTGCCA
TACATGGATCTGGATCTGGATCTTGTCAGTGACTTTATGAGAGTTTCTGCCACAAGGTGCCCAAGAGGAGAGGAA
TGGGAAGAGTGCCCCAGCACGTGGTGACTGCGTGATTTCTGCTCGTTGCCTTTGAAGATAACTGGCAGGACTGAC
TGTAGAACACTTTGACTTTTTTCAAAAAGTGATGGAATTTGTACATCCAAATGAATATTGTATAGACAATTTTCC
CAGGAATGTGCAAAATGCTTGAAAGTTCAAACCTCTTTTTTTGAAATGATCTTCAGATCCAGTGGCCCATTCTTTT
ATCTTTATCCTGTGAAGGTGTTTTTCAGGTTTTGAAACAATCCAAAAATCATTTAGGACCAAGTCTAAGGAAACA
TTTTAGTGGCCAAGTTGGATTCCGATTGTAAAGGAATGATACTAATTTTCTAGCATGGCTCTGAAGGTGATTTTA
GGTAGAAGAGTTTTGAGGCTGGGCGCAATGGCTCACGCCTGTAATCCTAGCATTTTGGGTGACTGAGGCGGGTGG
ATTGCTTGAGCCCAGAAGTTGAAGACCAGCCTGAGAAATAAGGTGAAACCTGTCTACAAAAAATACAAAAAGTT
AGCTGGGTGTGGTGGCGTGTGCCTGTAGTGCTAGCTACTCAGAAGGCTGAGGTGGGAGGATTGTTTGAGCCCAGG
AGGTTGAGGCTGCAGTGAGTTCTAATTGCGCCACTGCACTCCAGCCTGAGCGACAGAGTGAGACACTGTCTTAAA
AAAAATTAAAAATTGT

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FIGURE 5758

MIINWNQVSVLWKLLKQSASYQDRRQSWRRASMKETNRRKSLHPIHQGITELSRSSISVDLAESKRLGCLLLSSF
QFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFADGLETDTLQKCFEDSNGKASDFSLEASVAEMKEYITK
FSLERQTWDQLLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTKPDYQKNYRTRAKSLTVWSW

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FIGURE 5759

AGCGTTGCGAGACGGTTCGGTTCCAAGTGGGCCTGGGCGCGGGGAGAGGCGGGTCTGTCTCGGGAACTGCAAGG
CCCTGTGAGCGGGAGGACTGGGATCCCGGCCGCGGCTGCTGGAAGCGTCGAAGCTCAGCGGGGCCGCGGACACTG
ACCTGTGCTTAGAACTCATCTGGCCCCGAGAGCCTGCCGCGAGTCCCTGGCGTCCCCCTGTGGCGGGCTCTTGGA
GCCACTTTCCCGAGCGGAAGTCAGCCCCGCGGCTCGGACTCCGGCGGGACCTGCTCGGAGGAATGGCGCCGCCGGG
TTCAAGCACTGTCTTCTGTTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGACGCCCCACTCACTACCTCAC
CAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTTCAAAATTTGGAATCTGCCTTCTACTCCAT
CGTGGGACTCAGCAGCCTTGGTGCTCAGGTGCCAGATGCAAAGAAAGCATGTACCTACATCAGATCTAACCTTGA
TCCCAGCAATGTGGATTCCCTCTTCTACGCTGCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTTC
AAATGAGACCAAAGATCTGCTTCTGGCAGCTGTCAGTGAGGACTCATCTGTTACCCAGATCTACCATGCAGTTGC
AGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGA
GGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCCACCTGTCCCAGCAGGCTGACCTGAGGAGCAT
CGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGCGTGTATCTCCAGTTTGAAGAAGGACT
GGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGCTCATGGATCATGTGGGGAAGTGAAGCATCCATTAAGGA
GGATCAGGTCATCCAGCTGATGAACGCGATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGT
GGCCTCTGCAGCTGCTGTGCTCTCGCATAATCGCTACCACGTGCCAGTTGTGGTTGTGCTGAGGGCTCTGCTTC
CGACACTCATGAACAGGCTATCTTGCGGTTGCAAGTCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCACTGT
TAAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTCACCCCTGTAGGGGA
TGTTTTTGAAGTAAATTTTTCATGAACGTCAAATTTTCCAGTGTTATTATGACTTCCTTGTGCGAAGTTGAAGGTGA
CAACCGGTATATTGCAAATACCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAAATGTTGATCT
TTCCACCGTGGATAAGGATCAGAGCATTGCAACCAAACTACCCGGGTGACATACCCAGCCAAAGCCAAAGGGCAC
ATTTCATCGCAGACAGCCACCAGAACTTCGCCTTGTCTTCCAGCTGGTAGATGTGAACACTGGTGCTGAAGTAC
TCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAA
CAAGAACGTGTACAAGTTTGAAGTGGATACCTCTGAAAAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACAC
TCTCTACTTAATCATTGGAGATGCCACTTTGAAGAACCCAACTCTCTGGAATGTGGCTGATGTGGTCATCAAGTT
CCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCCAGAACCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTT
CCGCGAGCCTGAGAAGAGGCCCCCACCCTGGTGTCCAATACATTCACTGCCCTGATCCTCTCGCCGTTGCTTCT
GCTCTTCGCTCTGTGGATCCGGATTGGTGCCAATGTCTCCAACCTTCACTTTTGTCTCCTAGCACGATTATATTTCA
CCTGGGACATGCAGCTATGCTGGGACTCATGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTA
CCTGGCCATCCTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCCAGCAGGCAGTCAAGAGAACAGC
ACATTAGTTCCAGAAGAAAGATGGAAATTCTGAAAACCTGAATGTCAAGAAAAGGAGTCAAGAACAAATTCACAGTA
TGAGAAGAAAAATGGAAAAAAAACCTTTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGT
TTTTAGTTTCCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTCTCTTCTCTGACACTGTGTAAGAAGC
TGTGAATATTCCCTAACTTACCCAGATGTTGCTTTTGAAGGTTGAAATGTGTAATTGTTTTGGAATAAAGAGGGT
AACAAATAGG

FIGURE 5760

GGACACGAGGGCGAGCTGAGGTGGAGGAGGCTGCGGCAGACGGCGACAGTGGCGGGCGGGCCATGGCAGGGGCTTG
CAGGATCCCTGCTGCCTTGGTGATCCCGGGCTGACAGCCAGAGAGCACAGCGGCTCAGCTCCTGGAGAGTGAGGG
TTGAAGAAAGCGGAGGGCAGCCGCTGCGCCCGCTGGCTCCCATTAGGTTCGGTTCCTGTCAGCGGTGCCCGGCAGC
CTTGGTGAAGGCCCTGCCCCGCAGAGATCATGTATTGCCCTCCAGTGGCTGCTGCCCGTCTCTCATCCCCAAGC
CCCTCAACCCCGCCCTGTGGTTTCAGCCACTCCATGTTTCATGGGCTTCTACCTGCTCAGCTTCTCTCTGGAACGGA
AGCCTTGACAATTTGTGCCTTGGTTTTCTTGGCAGCCCTGTTTCCTTATCTGCTATAGCTGCTGGGGAAACTGTT
TCTGTACTACTGCTCCGATTCCCCGCTTCCAGAATCGGCGCATGATCCCGGCGTGTGTGGGACCCTAACGGCCTG
CCCTGTTAGCTTTTCCAAGGAAGCAGAAGACGGGAGGGGAGGCATTGACATAGGTCTATAAGCATTGGAGTTTCAA
ATCCCGCAGCCTCGCGGGTGTACATTTCTGACGGCGCCTTTTTGGCCTGTGATGTTTTATCCTTACAATGTGAA
TAATGGCACTGACCGGTGCTTTTTATTGTAAAGTCTTATAGTCGTGGGTGGTCTTGTGGTTGTGTGTTCTGTCC
CCATCTAGGTCTTGGCTGGCCGCATGACCACCCCTCTCGCCTCATTACTGTGAGGAGTCTGGGTCCATCCTGGTC
AGCTGCCCCAATGTGACCTGGGGCAGATAAAATGCCAGTCTCATTGTCACCTCTGTGACCCCTCCTTGTCAAGGT
CTCCTTCTTTCCAGAATGTTACTGACTCCTCAGTCCCTCTTCTGGTTTCCCTTTATTTCTTCTACCCTTTTC
CTTTTTTGGGGAGTACCTGTCCAAGACAGGGCTCATTTTTGCACTTATCTCGAATTTGAAGAGATTGCTGACGCC
CGAGAGCCTCGCTTTTTTCATCCTTCTTTCTTGTTCAGCAGGCTAGACAGAAACATGTCTTGACTGTTAGTTGTC
CACAAATCTTCAGTATTTTTCTCCACTTCATTTTTAAGAAAGGAAGCAACAGATAGATGTTGCTCTTTCACCTGGG
TGCTCTGGGCTCAAGCTTTTCCCGCCAGCCTCACTTCCCTTGGCCTTCTCTGCCCTTCTCAACTGTCCCAAGGA
GGGGGCCTCATTGTGTCTCCCGTGCATGCTCTGCAGCATTGAAGTATGGTGTGTTACAGT¹AGTTCTAGCAGTCCC
CAGCTGAGTGAGTGGGAGAGTACCTGTGTGTTTCGTAACGGCCTTGATCCCCTTGATAGATGTTTGGATATTTTT
TGGTGTGCCCTGTGTGTGTGTGTGTGTACAAATACATGTGTATATTCCTTTTTAAAGAAGCTTTATCGAACGTGGT
CTGATTTTGGGTTTGTAGCAATAGCTAGCTATATGTTAGGTGCCGCTACAGTTTTTTATTTAGCATGGGGATTGC
AGAGTGACCAGCACACTGGACTCCGAGGTGGTTTCAGACAAGACAGAGGGGAGCAGTGGCCATCATCCTCCCGCCA
GGAGCTTCTTTCGTTTCTGCGCATATAGACTGTACGTTATGAAGAATACCCAGGAAGACTTTGTGACTGTCACTTG
CTGCTTTTTCTGCGCTTCAGTAACAAGTGTGGCAAACGAGACTTCTCCTGGCCCTGCCCTGCTGGAGATCAGC
ATGCCTGTCCTTTCAGTCTGATCCATCCATCTCTCTTGCCTGAGGGGAAAGAGAGATGGGCCAGGCAGAGAAC
AGAAGTGGAGGCAGTCCATCTAGGGAATGGGACTGTGAGGCCATACTTGTGAAACGCTCTGGACTGCTATTCTAGA
GCTTTTTATTTGGTGTGTTTCGTTGCACAGCTGTTTGAATGTTTAATAAAGCTTTATAAACTTTAAAAAAAAAAAA
AAAAAA

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FIGURE 5761

MYCLQWLLPVLLIPKPLNPALWF⁶²³⁷SHSMFMGFYLLSFLLERKPCTICALVFLAALFLICYSCWGNCFLYHCSDSPL
PESAHDPGVVGT⁶⁸⁸¹

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FIGURE 5762

TAGGTGGCGGGCGGGTACTTAAGGCGCGGCCACCGCGGCTGCGGCAGTGCGCCCAACAGCGGACTCCGAGACCAG
CGGATCTCGGCAAACCCCTCTTTCTCGACCACCCACCTACCATTTCTTGGAACCATGGCGGCAGTGGCGGCGGCCTC
GGCTGAAGTCTCATCATCGGCTGGTACATCTTCCGCGTGCTGCTGCAGGTGTTCTTGGAATGCTGCATTTACTG
GGTAGGATTCGCTTTTTCGAAATCCTCCAGGGACACAGCCCATTGCGAGAAGTGAGGTGTTTCAAGTACTCCCTGCA
GAAGCTGGCATAACAGGTGTCGCGGACCGGGCGGCAGGTGTTGGGGGAGCGCAGGCAGCGAGCCCCAACTGAGG
CCCCAGCTCCCAGCCCTGGGCGGCCGTATCATCAGGTGCTCCTGTGCATCTCGGCCAGCACGGGAGCCAGTGCCG
CGCAGGAATGTGGGGTCCCCTGTGTTCCCTCGCCAGAGGAGCACTTGCGCAAGGTCAAGTGAGGGGCCAGTAGACCC
CCGGAGAAGCAGTACCGACAATGACGAAGATAACAGATCCCTTCCCAACCCCTTTGCACCGGTCCCCTAAGGGG
CAGGGTTCGAGAGAGGAGGGGGGATAGGGGGAGCAGACCCCTGAGATCTGGGCATAGGCACCGCATTCTGATCTGG
ACAAAGTCGGGACAGCACCATCCAGCCCCGAAGCCAGGGGCCATGCCAGCAGGCCCCACCATGGAAATCAAAACA
CCGCACCAGCCAGCAGAATGGACATTCTGACATCGCCAGCCGACGCCCTGAATCTTGGTGCAGCACCAACCGCGT
GCCTGTGTGGCGGGACTGGAGGGCACAGTTGAGGAAGGAGGGTGGTTAAGAAATACAGTGGGGCCCTCTCGCTGT
CCCTTGCCAGGGCACTTGCAATCCAGCCTCGCTGCATTTGCTCTCTCGATTCCCCTTTTCTCCTCACTGCCTCC
CAAGCCCACCCTACTCCAAAATAATGTGTCACTTGATTTGGAATATTCAAGCAGTAAAAGTAAATGAATCCCAC
CTTTACTAAAACACTTTTCTCTGAACCCCCCTTGCCCCCTCACTGATCTTGCTTTTCCCTGGTCTCATGCAGTTGTG
GTCAATATTGTGGTAATCGCTAATTGTACTGATTGTTTAAAGTGTGCATTAGTTGTGTCTCCCCAGCTAGATTGTA
AGCTCCTGGAGGACAGGGACCACCTCTACAAAAAATAAAAAAAGTACCTCCCCTGTCTCGCACAGTGTCAGGA
CCCTGCGGTGCAGTAGAGGCGCACC

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FIGURE 5763

GGGGAXGGGGGGCAGTGTGGCTGGAGCCGCGGCTGACGGGCCCCGCGGTCTGGGCGTGAGTGCAGGGAAGTGGAGT
ATTTGCTGGGCCGGGTACCA**ATCG**ACGTGGGCGAACTTCTGAGCTACCAGCCCAATAGGGGCGACAAAACGTCCCCG
GGATGATGAAGAGGAGGAGCAGAAGATGCGTCCGGAACAACTGGTACTCGAGAACGCGGCCCTATCGGGAAGA
AGAAATGACTGTGGTGGAGGAAGCGGATGATGACAAAAAAGGCTGCTGCAGATTATTGACAGAGATGGGGAAGA
GGAAGAGGAAGAGGAGGAGCCATTGGATGAAAGCTCAGTGAAGAAAATGATCCTCACATTTGAAAAGAGATCATA
TAAAAACCAAGAATTGCGGATTAAAGTTTCCAGACAATCCAGAGAAGTTTCATGGAATCCGAGCTGGACCTAAATGA
CATCATTCAGGAGATGCACGTGGTGGCCACCATGCCAGACCTGTACCACCTTCTGGTGGAGCTGAATGCTGTACA
GTCGCTTCTCGGCTTGCTCGGACACGATAATACAGATGTGTCCATAGCTGTGGTCGATTTGCTTCAGGAATTAAC
AGATATAGACACCCTCCATGAGAGTGAAGAGGGAGCAGAAGTGCTCATCGATGCTCTGGTGGATGGGCAGGTGGT
AGCACTGCTGGTACAGAATCTGGAGCGCTGGATGAGTCTGTGAAAGAGGAGGCAGATGGCGTCCACAACACTCT
GGCTATTGTGGAACATGGCTGAGTTCCGGCTGAGATGTGTACAGAGGGTGCCAGCAGGGTCTTCTACAGTG
GCTGTTGAAGAGGCTGAAGGCAAAGATGCCTTTTGATGCCAACAACTGTATTGCAGTGAAGTGTGGCCATATT
GCTCCAGGACAATGATGAAAACAGGGAATTGCTTGGGGAGCTGGATGGAATCGATGTGCTTCTTCAGCAGTTATC
CGTGTTTAAAGACACAATCCAGCACGGCTGAGGAGCAGGAGATGATGGAGAATCTGTTTGATTCCCTCTGCTC
CTGTCTAATGCTTAGTTCCAATCGTGAGCGCTTCTGAAGGGCGAGGGTCTTCAGCTGATGAATCTCATGCTCAG
GGAAAAGAAGATCTCCCGAGCAGTGCCCTGAAAGTGCTGGACCATGCCATGATTGGCCCCGAAGGCACAGACAA
CTGCCATAAGTTTGTGACATTCTTGGCTTACGAACCATCTTTCCCCTCTTTATGAAATCTCCCAGGAAGATCAA
GAAAGTGGGAACCACTGAGAAGGAACATGAAGAGCATGTCTGTTTCATCCTGGCTTCCCTCCTGCGGAACCTGAG
AGGGCAGCAGCGGACCCGGCTTCTGAATAAATTCAGTGAAGATGACAGTGAGAAGGTTGACAGACTAATGGAGTT
GCATTTTAAATATCTGGGTGCAATGCAGGTGGCGGACAAGAAGATTGAAGGGGAAAAACACGACATGGTCCGGCG
AGGAGAGATCATCGACAATGACACCGAGGAGGAGTTCTACCTCCGGCGCCTGGATGCGGGGCTCTTTGTTCTCCA
GCACATCTGCTACATCATGGCCGAGATCTGCAATGCCAATGTCCCCAGATTGCGCCAGAGGGTTACCCAGATCCT
AAACATGCGAGGAAGCTCCATCAAAATTGTCAGGCATATCATCAAGGAGTATGCAGAGAACATCGGGGACGGCCG
GAGCCCGGAGTTCCGGGAGAACGAGCAAAAGCGCATCCTGGGCTTGCTGGAGAACTTCT**TAG**AGGCACCTTGGCCC
TGCGCATCATGGACTCTCTCAGCTTCCCTCCCAGGATCAGTTTCTACACAACCTCTGTGTGGCTTTTGACAAATT
AAAGCTAGTTTTTGGTAAAAA

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FIGURE 5764

MDVGELLSYQPNRGTKRPRDDEEEEQKMRRKQTGTREERGRYREEEMTVVEEADDDKKRLQLIIDRDGEEEEEEEE
PLDESSVKKMILTFEKRSYKNQELRIKFPDNPEKFMESLNDIIQEMHVATMPDLYHLLVELNAVQSLLGLL
GHDNTDVSIAVVDLLQELTDIDTLHESEEGAELIDALVDGQVALLVQNLERLDESVKEEADGVHNTLAIVENM
AEFRPEMCTEGAQQGLLQWLLKRLKAKMPFDANKLYCSEVLAILLQDNDENRELLGELDGIDVLLQQLSVFKRHN
PSTAEEQEMMENLFDSLCSCMLSSNRERFLKGEGLQIMNLMLEKKISRSSALKVLDHAMIGPEGTDNCHKFVD
ILGLRTIFPLFMKSPRKIKKVGTTTEKEHEEHVCSILASLLRNLRGQQRTLLNKFTENDSEKVDRLMELHFKYLG
AMQVADKKIEGEKHDMVRRGEIIDNDTEEFYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSS
IKIVRHIKEYAENIGDRSPEFRENEQKRILGLLENF

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FIGURE 5765

CCTCCCTCGGGCTCCGGTCCCCTGGGTGAGCCCCAGCGCTGGCGGCGTGGGCCCGGGACTGGGCAATGGGTGGCC
TCCCAGGTCGCCGCTTCCCGCGGGGCCCCGCCCCGGCCCCGCCCCAAAGCGGGCTATAAGTTAGCGCCGCTCTC
CGCTCGGCAGTGCCAGCCGCCAGTGGTGCACCTTGAGGGTCTCGCCGCCAGTGGAAGGAGCCACCGCCCCCGC
CCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACCACACG
GCCGACCTGTGCCGGGAGAAGCTGGTGGTGCGACGGGGCCAGCCCTTCTGGCTGACCCTGCACCTTTGAGGGCCGC
AACTACGAGGCCAGTGTAGACAGTCTCACCTTCAGTGTCTGTGACCGGCCAGCCCCCTAGCCAGGAGGCCGGGACC
AAGGCCCGTTTTTCCACTAAGAGATGCTGTGGAGGAGGTGACTGGACAGCCACCGTGGTGGACCAGCAAGACTGC
ACCTCTCGCTGCAGCTCACCACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCCTCCACT
GGCTACCAGGGATCCAGCTTTGTGCTGGGCCACTTCATTTTGCTCTTCAACGCCTGGTGGCCAGCGGATGCTGTG
TACCTGGACTCGGAAGAGGAGCGGCAGGAGTATGTCCTCACCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAG
TTCATCAAGAACATACCTTGAATTTTGGGCAGTTTGAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGAT
GTCAACCCCAAGTTTCTGAAGAACGCGGCCGTGACTGCTCCCGCCGCAGCAGCCCCGTCTACGTGGGCCGGGTG
GTGAGTGGCATGGTCAACTGCAACGATGACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACACTACGGGGACGGC
GTCAGCCCCATGTCCTGGATCGGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCACGGCTGCCAGCGCGTCAAG
TATGGCCAGTGTGGGTCTTCGCGCCGTGGCCTGCACAGTGTGAGGTGCTGGGCATCCCTACCCGCGTCGTG
ACCAACTACAACCTCGGCCCATGACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATC
CAGGGTGACAAGAGCGAGATGATCTGGAACCTCCACTGCTGGGTGGAGTCTGGATGACCAGGCCGGACCTGCAG
CCGGGGTACGAGGGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGGCCCA
GTTCCAGTTCTGTGCCATCAAGGAGGGCGACCTGAGCACCAAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAAT
GCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGG
CTGAAGATCAGCACTAAGAGCGTGGGCCGAGACGAGCGGGAGGATATACCCACACCTACAAATACCCAGAGGGG
TCCTCAGAGGAGAGGGAGGCCTTCACAAGGGCGAACACCTGAACAACTGGCCGAGAAGGAGGAGACAGGGATG
GCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCAACAAC
ACCGCTGAGGAGTACGTCTGCCGCTCCTGCTCTGTGCCGACCGTCAGCTACAATGGGATCTTTGGGGCCCGAG
TGTGGCACCAAGTACCTGCTCAACCTCAACCTGGAGCCTTTCTCTGAGAAGAGCGTTTCTCTTTGCATCCTCTAT
GAGAAATACCGTGACTGCCTTACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGGAGCCAGTTATCAAC
AGCTACCTGCTGGCTGAGAGGGACCTCTACCTGGAGAATCCAGAAATCAAGATCCGGATCCTTTGGGGAGCCCAAG
CAGAAACGCAAGCTGGTGGCTGAGGTGTCCCTGCAGAACCCGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACT
GTGGAGGGGGCCGGCCTGACTGAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGGAGGCAGGGGAGGAAGTT
AAGGTGAGAATGGACCTGCTGCCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTTCGAGAGCGACAAGCTG
AAGGCTGTGAAGGGCTTCCGGAATGTCATCATTGGCCCCGCTAAGGGACCCCTGCTCCCAGCCTGCTGAGAGCC
CCCACCTTGATCCCAATCCTTATCCCAAGCTAGTGAGCAAAATATGCCCTTCTTGGGCCCCAGACCCAGGGCA
GGGTGGGCAGCCTATGGGGGCTCTCGGAAATGGAATGTGCCCTGGCCATCTCAGCCTCCTGAGCCTGTGGGTG
CCCACTCACCCCTTTGCTGTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGC
TGGGGTGAGAGAGGAAAGACCTACATTCCCTCTCCTGCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCAT
ATTGTTTGATCTACTTCATAGCTCCTTGGAGCAGGCAAAAAGGGACAGCATGCCCTTGGCTGGATCAGGGAAT
CCAGCTCCCTAGACTGCATCCCGTACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAG
CTGGGTGGGGACAGTGATAGGCCCAAGGTCCCTCCACATCCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAA
CCTCACCATTTGTGAAGCACCTACTATGTGCTGGGTGCCTCCACACTTGCTGGGGCTCACGGGGCCTCCAACCCA
TTTAATCACCATGGGAACTGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGC
CCCCTCCACACCAGTGGCCTCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCCT
CTGACTCTGAGTCCACTGCTCCATTTATAACCCAGCCTGACCTGAGACTGTGCGAGAGGCTGTCTGGGGCCTTT
ATCAAAAAAAGACTCAGCCAAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGT
TCAGGTCCACAGTCTGGCCAGGCACTGCCTTCTCCTCTCTGGGCCTTTGTTTCCTTGTGGTCAGAGGAGTGATT
GAACCAGCTCATCTCCAAGGATCCTCTCCACTCCATGTTTGCAAT

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FIGURE 5766A

CGCTCCTCCGAGATGACGCCGGGGTCGGTGCCCCGGGCCTGCCCTATCCCCTGGCTCCAGGGCTAGGCGGGACCG
AGGGCTGCCCCAGACAGACGGACCCGCGGACCCACAGACCCCGCGCCCAGGAGAGGAGCCGCGCCGCCCGCCGCT
GGCAGCCCGTCAACCATGGTACCCTCCATCCCCTCGACACAGCCATCCAGCATGCCCTGGCGGGCCTCTATCCTCCT
TTCGAGGCCACAGCACCCACCGTCCCTGGGTGAGGTGTTCCGTCTCCTGGACTCTGGCTTCCAGGGGGATGGGCTG
AGCTTCCTTCTGGATTTCTGATCCCCTGCCAAGCGCCTGTGTGAGCAAGTGCAGAAAGCAGCCTGTGCTCCCTAC
TCACACTGCCCTCTTCTTACAGAGGGCTGGCCACTCTGTCTGAGGGATGAAGTTGTGGTCCACTTGGCACCCCTC
AACCTCTCTTATTGCGCCAGGGTGACTTCTACCTCCAAGTGAGCCCCAGGAGGAGCAGTCTGTCTGCATC**ATG**

ATCAAATGCCTCTCCCTGGACCTCTGCACAGTGGACAAGAAGCCTGTTCCAGAGCCAGCCTACCCTATACTTTTT
ACCCAAGAATGGCTGGAGGCCATCAACAGTGACTTTGAGGGAAATCCCCTACACAAGTCTTGGTAGCATCAGAA
AATGGGATTGCCCTGTGCCTTGGACCAAGATAAACCAGCCCAGAGTTTGTGGATGACAGACCCCAAGTAGTGAAT
GCCCTCTGCCAAGCCTGGGGGGCCCTTCCATTAGAGGCACTGGATTTGAGCAGCCCTCAAGAGTTGCACCAGGCC
AGCTCCCCAGACAACCAGGTGCTTCTGCCCAGAGTTTGGCCAAGGGTAAGGGCAGGACATATGGGAGCAAGTAT
CCAGGACTCATCAAGGTGGAGCAAGCCCGGTGTGGGGAGGTGGCTTTCAGGATGGACGAGGTGGTCAGCCAGGAC
TTCGAGGGAGACTATGTGGCTCTCCTAGGCTTTTCCCAAGAGAGCAGAGGAGAGTCTCCCAGTAGGGAGGCAGGC
ACATCCAGTGGGTGTACTTCTGGGGCACTAGAGGAGATAGCTGGAACCTAAGGAACTCCCTTATTTCAAAAGATA
CTGCCTCTCTCAGAGGCCAATGAAGGACCTTCTTGGGAAATCGGGCTTGACAAAGCCAGAAAGCTCTGAGGAG
AGGCCCTATAATTTGGGCTTCAGGAGAAAGGTCAATCTTAAAGCACCCACCCACAAGTCTGAGAAAGGCCCCCAA
GGCTCCTACATGAATGTCTTGGAGACGCACTGGACTGTGCCTCTGGTCTCAGGGCAGGTGTCTCACAAGAGCCA
GCTGCCTCCAAGATGCAGGGACCTCTAGGAAACCCAGAGAATATGGTGCAGCTCAGGCCTGGACCAAGACAAGCC
TCCTCTCCCCGCTGTCCCCAGCTTCTCCTGCAGCTGCAGCCTCTGAAACAAAGATAGAGGTGAAGACCAAGAG
AGAAATGGGAGACTTCCCAAGCCCATGCCCTGCCCTAGCAGAAACACCTCCTCCCCTGAGCCCCCCTCCTGGG
CTCAAATTCTCATTTCTTGGAGGGCAGAGGCAACCCCTCTGTGACCCCGAGAAAGCCTCACTCCAGCACAATGGG
CCCTGGAAAGTCTGTGTTCCCTCTACTCTCCTAAACCCCAACCGAGCCAAATCTTTGGGGAAAGCTGGAACAAGT
CAGACCAAAAACATCTGGCCAGCCACTGCCCCCAGCCCACTGACTGAGGAAAAGGCTGCCTTGCCAGAAGCTTCT
GCAGGCTCCCCAGAAAGAGGCCCCACCCTGGAGGAGGAGCCCCCAGGGCCTGAGCCAGGATTGGGGCTCTAGGT
GTCAAGGTTTTTCGCTCCAGGATAGCATGCCTGCCAGGTGGCCGGGACAGGGCCGGGCGGCCCTGCTTCTGGTG
TCAACTACAGAGGGGGCCTGGGAGGCACCATGGTGCACAGTTTCAGAGGTCACCAAGCTACTGTCTACCTGTGT
ACCATCCCCAGGCCTGAAGATAAAGCCAAGGGGCTGGCGGTCTGATTGACGCCAGGAGACAGCCCCACAGCCC
GGTCTGGTTCAGCGCCCTGCAGGCCACCCAGGCTCAGGTCCCAGCCTCTATCCGGGCTATTCTCTTCTGGGGGAG
AAGGAGGCGGCTCTCCAGCTGCAGACATTACCTGACGTCCAGGTGGAGGTGCTGACCTCATTGAAGGCCCTCAGC
CACCATGTGGACCCAGCCAGCTGCCCGCAGTCTTGAAGGCCCTTCCCTACTGCCACACCGAGTGGGTTCAT
TTCTTCCAGAAGCTGGACCTTTCTTGGTGCACCTCCACAGGCCTCTTCCCTGCTACAAGCTTCCATCGAGGAA
TTCGAGAAGGCCGACCCCTGGGGGATGCAGGAGGCTACCAGGTGCCTGAGCAAGTCCAAGGAGCTGATGGAG
GCTGTGCTGAGGGACCCCGCCTACTGGGCCTCCAGCGGGAAGGTGGAGCCACCTGGCCAGGCTGCAGCATGAT
GCCAGCAGGCTGGACTTCAGCCCTGATGTCAGGAGCCATCTGGCTGCAGCCACTGCCTTGTACAGCCTTGTGGAC
GAGCAGCTTCATGTTCTGGTCAACCGCTTCCAACAGCCTCCTGGGGAAGCTGGAGCTCCGTGTCCGCCTGGGCCGC
CTGGAAGCTGCCATTACCCAGGTTCAGCGACTGGATGGAGCAGGAAGGAAGGCGGTGCCTGCAATCACTGACCCCC
AAGGATGGAAGTTTGGAGACAGTGGAGAAAGCCACGCAGAAATTTGAGAACTTCTTCTCCAGGCTGCAGCCAG
TACCGCCGAGGCCTGGAGCTGTCCAAGCAGGCCGCTCAGCTGGGAGCTACAGCCAGAGGGGCTGGGGAGGCAGAA
CGTGCAGAGTTCCCAGAGCTGGCAGCCTTTGCCTCTACCCAGCGGGCCTTCCAGGCTGAGCTGACCCACTTTTAC
ATGGCGGCCGAGCGGCAACGCACGGACCTCGAGACGCTGCTCCACCTGCACCGCTTCTGCAAGAGGATGACCTGG
TTCCACATGGACTGTGAGGACCTGATGGCCAGCTCAGGCTGGACAAGACCTCAAGGCTCAGTCTTGGGGACAG
CGCCGCCTCCACCGCTACCTGCAGCGACTGGCATCTGAGTTCCCTGCTGAGAAGCTCGCAGCCGTGGGGCTGCAG
GTGGCCTCCCTGAGCCGGGCAGGCCTGGGCCAGGAGCTATGGGAGGAGGCCCGGATCAGGCATGAGGAGATCCGG
ATGCTCCTGGAGAAGGCACTGACCCACAGCTCTTGCCAGAGGCTCCAGCTGCTCACTCAGCGCGCCCAAGCA
AGAGGGGTGGCAGCCAAGGGCCAGGGTGTGAGTGTAGAGGTCACTTCCAAGGGGAGGTGGGATCAGCCTCCACTA
GACTCACTGGGCATGGACCATTTGCCAAAGTCTATTGGCCTCCTGGGCCCCCAGAGGGGAACAGAACAGAACT
TTCCAGGCAGGCTCTCCACCCAGGAAGCTGGCCAGGCTGCAGAGGCTGAAGACGGCAAAGGCTCCCAAGCTG

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FIGURE 5766B

CCTGACCCTGCCCCGCGAGCATTGTGCTTGCCACCACCTTCTTCCGGCAGCAGCCCCCAGGCAGAGCCAGGTCCCT
CGCCTCACTGGGGGCAGCTTCTCCTCAGAGGGGACAGACTCACAGACATCCCTTGAGGACTCACCCCAGACAAGT
CCCCTTGCCCTCCCTCTAGCTGAGAGGCCCCCTTCAGTCGCACCAGCCTCCAGGAGCACTGGGCCAGGGCCCAGCTG
GAGGGGTAGCTGGGAGCTCTGGTCAGTCCCACTGAGACGTCACCATGGAGCACTGGTTTTACATTCTGCCTCTGC
TGGGAGGATGAGAACTGTGACCTGCCCCCTGGCTCCAGAAAACCTCTGGAAGACCCGATCTTCACCCATGCAGAA
TAGCAAGAGTGGGCGTCAGAACCAGGGCACAATAAATGGTGTGATTGGCTCCATCCCTCCAGGCTCTCATTGTGG
AAAGACCTGTGCGGCACAGACCCCTCCAGAGGTCTCGCTCGCAGGCAGGCAGACACCCACCTGCAGCTCAGGAACA
TACACAGCTCTCCCTCGGGTACGAGGGCCAGTGTGCCCCCTTAGGCAGAATCCTCGGGGAGATTGGGAGTGCTT
CCTTGTCTTGGATTCCAGGAAAATGGACCCTGAGATGAGGATTTAAGGATCAGTGTGTTTGGTGCTGATCCAGGA
ACCTCTGCTGGGGGAGTAGGAGGCGAATCTGCAAAGGGAATAAAGAGTATGTTGTCAAGCAAATTTTCTTTTTTT
TAATTTTTTAAACTTCATTGTATTTTATGTTTAGAGATGGGGCTCACTACATTGCCAGGCTGGTCTCAAACCTC
CTGGGCTCAAGTGATCCTCTTGCTTGGCCTGCCAAAGTGCTGGGATTGCCTTTTCCGCCACCCCCCCCCGACCC
CACCAGAGACAGGGTCTCACTCTGGTGTCCAGGCTGGAGTGCAGTGGTGCAATCATAGCCTTAAATTCCTGGGT
CAACCAATCCTCCACCTCAGCCTCCTAAGTAGCTGGGACTACAGTTATGCACCACCATGCTCAGCTTATTATTT
ATTTATTTTTTGTAGACATGGGGTCTTGCTATGTTGCCAGGCAGGCTGATCTCAAGCTCAAGTGATCCTCTGGA
CTCAGCCTCCCAAAGTGCTGGGATTATACGTATGAGCCACTGTGCCCCACCCTCATACAAATTTCCATGTTGGCA
ACTGTAGCTGGATCTTTCTGGAGATCTCTGAAAGACAGCATGGAATCCTTGAACACCCCTGAGGCGTGAGGCAT
CCAGAGCATTATCTGCCAACCTCAGGAGCTGGCACTCGTAGACAGCACGCACAGCCAGCTCCATTGGTCTTGG
CAAAGAGAATTGCCCTCTGGAGCCAGAGGCCGGTTCCTGTGCTTAGAAAGGAAGGACATGTCTTCTGTGCTCCCT
GTCTCACAAGGCCTCTTCAGCAGGCATGGGACCTTCATTCTCAAGTTCAAGGAACCCTGTGGAACCTTGTCTTG
TCCTCCAGAGAGAATCCTCTCCGCCTTAGAGGTCCCTCCTCTCTCACCTCCCCACCAAGCCTCCCTGAACTCA
ATGTCTTCTGTCCCCCTTCCCTGCCCAACTTCCACTTCTCTATGCCAGCCTCTGTGGCCCAGTACCATTGGGGTT
CTGTGGGCAGCTGGGTCTGGTGGTTGGGGACCGTGGAAGGGGCTATCTGTGCGATCTTAGATGGAGCATCCA
GAAGCCCCACCTTCATACTGGCCAGAGTGGCCCCCTGCCAGCGCCTCTCTGGAGTGTCAATTAAGCTGAAAGTGTT
TGCTTACCTCTGCAGTAGGATGCATTACTGAAAGTGGCCTCTTGGTCACCTAGCTCTGAATTTTCTGGCTCCAG
AAAGAGGCTGTGGGGCACAGGTCCCCCACAATGAGGCTGTGAAGGGGAGAGAGGCAGGCCTGGGCCAGGCACAGG
AGGACAAC TAGGGCTTCTCAGGAGCTGTCTCAGCCAAGAGTCACACACTTGATACCTAAAATGGCTTCAGGAATC
TTCCAAGACTGAAGACTTCCCCAGGTGTGGTCTAGGGCCTGCCTGCCTCAGAGCCATGAGCAGAGCCGGTCAAAA
GGCTTCCTAGGGAATCCTACCCAGACATTAAAATAGACTCTTGGTGTGGCAGGTGGCTGGAATCTGCGTTTGT
AGCCAAGTGCTCTTCTGTGTGACTCAGCAAAGTGGGGGTGCATTTGGGGAACACCCGGGGCTGGGGCCTGAGTC
CTCCACCCAAAGCCAGGTTTGATTCTTGCAATCCCCCTCCCTGCCTTCCATCCAGACAGGCCCAAAGATGCAAGAG
GCGTTGATCAGCCCATCTCCATCCATGCCTGTTGCCTCAGAGAGGGCCGACGGCTTTTAAAATGCTGTTGCCATA
GCAACAGCATCCAGCCAGTGGGTACCACAGGCAGGGAGCCACAGAACTGGGGTGCTGGGATGGAACTGACTTG
TGAGAGACCACAGCTACTGCTAGAAGGAAGGGGGGCAAAGCGGGCACAGGTAATCTAAGAATACTTGGGCGGGAG
GAGTCCCCAAGGTTACCTTGTGCATCCCTCTGTCCCCAGAAAGAACTGTACCCCAACAATCTCTCCCTCACTGC
ATCCCTTGGGAAGAAGGGAATGCAGAAATGAAATGTCATAATGAGTAACAATGTATAAAAATATCGAATAATAA
CAGCT

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FIGURE 5767

MIKCLSLDLCTVDKKPVPEPAYPILFTQEWLEAINSDFEGNPLHNCLVASENGIAPVPWTKITSPEFVDDRPQVV
NALCQAWGPLPLEALDLSSPQELHQASSPDNQVLPQSLAKGKGRTYGSKYPGLIKVEQARCGEVAFRMDEVVSQ
DFEGDYVALLGFSQESRGESPSREAGTSSGCTSGALEEIIAGTKETPLFQKILPLSEANEGPSLGNRACTKPESSE
ERPYNLGFRRKVNLIKAPTHNSERPPQGSYMNVEDALDCASGLRAGVSQEPAASKMQGPLGNPENMVQLRPGPRQ
ASSPRLSPASPAAAAASETKEIVKTKERNRGLPKPMPCPSRNTSSPEPPTPGLKFSFLRGQRQPSVTPEKASLQHN
GPWKVLCSLYSPKPNRAKSLGKAGTTQTKTSGPATAPSPLTEEKAALPEASAGSPERGPTLEEEPPGPEPRIGAL
GVKVFRSRIACLPGGRDRAGRPLLLVSTTEGAWEAPWCTVSEVTKLLSYLCTIPRPEDKAKGLAVLIDARRQPPQ
PGLVSALQATQAQVPASIRAILFLGEKEAALQLQTLDPVQVEVLTSLKALSHHVDP SQLPAVLEGPFPYCHTEWV
HFFQKLDPFLLADLHQASSLLQASIEEFKADPPGGMQEATRCLSKSKELMEAVLRDPGLLGLQREGGATLARLQH
DASRLDFSPDVRSHLAAATALYSLVDEQLHVLVTASNLLGKLELRVRLGRLEAAIHQVSDWMEQEGRRCLQSLT
PKDGSLETVEKAHAEFENFFLQAAAQYRRGLELSKQAAQLGATARGAGEAERAEPPELAFAFASTQRAFAQELTHF
YMAAERQRTDLETLLHLHRFCKRMTWFHMDQCQLMAQLRLDKTSRVSPGDQRRHLHRYLQRLASEFFPAEKLAAVGL
QVASLSRAGLGQELWEEARIRHEEIRMLLEKALTHSSCPEAPAAHSARPERRGVAAKGQGVSVSEVTSKGRWDQPP
LDSLGMDDLKPSYWPPGPPRGEQNRTFQAGSPPQFAGQAAEAEDGKGSHKLDPDPAREHLLATTTFFRQQPPRQSQV
PRLTGGSFSSEGTDSQTSLEDSPTSLASL

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FIGURE 5768

AGGCCTTGAGGTTTTGGCAGCTCTGGAGGATGAGAGAGAACATGGCCAGGGGCCCTTGCAACGCGCCGAGATGGG
CGTCCCTGATGGTGCTGGTCGCCATAGGCACCGCCGTGACAGCGGCCGTCAACCCTGGCGTCGTGGTCAGGATCT
CCCAGAAGGGCCTGGACTACGCCAGCCAGCAGGGGGACGGCCGCTCTGCAGAAGGAGCTGAAGAGGATCAAGATT
CTGACTACTCAGACAGCTTTAAGATCAAGCATCTTGGAAGGGGCATTATAGCTTCTACAGCATGGACATCCGTG
AATTCCAGCTTCCCAGTTCCCAGATAAGCATGGTGCCCAATGTGGGCCTTAAGTTCTCCATCAGCAACGCCAATA
TCAAGATCAGCGGGAAATGGAAGGCACAAAAGAGATTCTTAAAAATGAGCGGCAATTTTGACCTGAGCATAGAAG
GCATGTCCATTTGGCTGATCTGAAGCTGGGCAGTAACCCACGTCAGGCAAGCCCACCATCACCTGCTCCAGCT
GCAGCAGCCACATCAACAGTGTCCACGTGCACATCTCAAAGAGCAAAGTGGGGTGGCTGATCCAACCTTCCACA
AAAAAATTGAGTCTGCGCTTCGAAACAAGATGAACAGCCAGGTCTGCGAGAAAGTGACCAATTCTGTATCCTCCG
AGCTGCAACCTTATTTCCAGACTCTGCCAGTAATGACCAAAATAGATTCTGTGGCTGGAATCAACTATGGTCTGG
TGGCACCTCCAGCAACCACGGCTGAGACCCTGGATGTACAGATGAAGGGGGAGTTTTACAGTGAGAACCACCACA
ATCCACCTCCCTTTGCTCCACCAGTGATGGAGTTTCCCGCTGCCCATGACCGCATGGTATACCTGGGCCTCTCAG
ACTACTTCTTCAACACAGCCGGGCTTGTATACCAAGAGGCTGGGGTCTTGAAGATGACCCCTAGAGATGACATGA
TTCCAAAGGAGTCCAAATTTGCACTGACAACCAAGTTCTTTGGAACCTTCTACCTGAGGTGGCCAAGAAGTTTC
CCAACATGAAGATACAGATCCATGTCTCAGCCTCCACCCCGCCACACCTGTCTGTGCAGCCCACCGGCCTTACCT
TCTACCCTGCCGTGGATGTCCAGGCCTTTGCCGTCTCCCCAACTCCTCCCTGGCTTCCCTCTTCTGATTGGCA
GCACACAACCTGGTTCCATGGAGGTCAGCGCCGAGTCCAACAGGCTTGTGGAGAGCTCAAGCTGGATAGGCTGCT
CCTGGAACCTGAAGCACTCAAATATTGGCCCCCTTCCCGGTTGAATTGCTGCAGGATATCATGAACTACATTGTACC
CATTCTTGTGCTGCCCAGGGTTAACGAGAACTACAGAAAGGCTTCCCTCTCCCGACGCCGGCCAGAGTCCAGCT
CTACAACGTAGTGCTTCAGCCTCACCAGAACTTCTTGCTGTTTCGGTGCAGACGTTGTCTATAAATGAAGGCACCA
GGGGTGCCGGGGGCTGTAGCCACACCTGTTCTTGATGGGCTGTGGGGCACCGGCTGCCTTTCCCCAGGGAATCC
TCTCCAGATCTTAACCAAGAGCCCCTTGCAAACCTTCTTCGACTCAGATTCAAGAAATGATCTAAACACGAGGAAAC
ATTATTCATTGGAAAAGTGCATGGTGTGTATTTTAGGGATTATGAGCTTCTTTCAAGGGCTAAGGCTGCAGAGAT
ATTTCTCCAGGAATCGTGTTTCAATTGTAACCAAGAAATTTCCATTTGTGCTTCATGAAAAAACTTCTGGTT
TTTTTCATGTG

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FIGURE 5769

GCGCTCCAAG**ATG**GCGGCGAACGTGTTCCCGTTCCGCGACGCCCGTGCCGCACCGGACCCAGTGCTGGAGGCCGG
CCCGGTGGCACACGGGCCACTGCCGGTACCGCTGGTGCTGGACAACGGGTCGTTCCAAGTCCGCGCTGGCTGGGC
GTGTCCCGGGCAGGACCCAGGTCCCAGACCGCGCCTGCAGTTCGCGCGGGTGTCGCCCCGCGGTCTGGCGGGGC
ACGGGGCGCGTCGGGCCCCGAGGTGGGGGAACGCTCTGGGCAGCCTGGAGCCACTGCGCTGGATGCTGCGCTCGCC
CTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTTCCAGCACCTGGGTGT
CTCCTCACAGGGCTGTGTTGATCATCCCATAGTTTTGACAGAAGCTGTGTGCAACCCACTGTATTACGGCAAAT
GATGTCTGAGCTTCTTTTTGAGTGCTACGGGATTCCTAAGGTTGCCTATGGAATAGACAGCCTCTTCAGCTTCTA
CCACAATAAGCCAAAGAACTCGATGTGCAGTGGGCTAATCATTTTCATCTGGATAACAGTGACGCATGTTTTACC
CATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGCATCAATCTTGAGGAAGCCAAGCAGCTGGTTACCT
CCAGCGTCTCCTCCAGCTGAAGTACCCTGGGCACCTGGCAGCCATCACCTCAGCCGCATGGAGGAGATTCTGCA
TGAGCACAGCTACATCGCTGAGGATTATGTGGAAGAATTACACAAATGGCGGTGTCCTGATTATTATGAGAATAA
TGTCACAAAGATGCAGCTCCCATTTTCCAGCAAGCTCCTGGGCAGCACTCTGACCTCTGAGGAGAAACAAGAAAG
GCGGCAGCAGCAATTGCGGCGGCTGCAGGAGCTCAATGCCCGGCGGGAGGAGAAGCTGCAGCTGGATCAGGA
GCGTCTGGACCGACTGCTATATGTGCAGGAACCTCTAGAGGATGGCCAGATGGATCAGTTTCACAAAGCTCTGAT
AGAGCTGAATATGGACTCCCCAGAAGAGCTGCAGTCTTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAA
GCAGAAAATCCTCCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA
GCAGCTGGAGCCGTCTTTGGAAGATGTGGAAGCATGAATGATTTTGATCCCTTGTTTTCAGAGGAAACACCTGG
AGTGGAGAAGCCGGTCACCACTGTTTCAGCCCGTGTTAACTTGGCAGCATATCATCAGCTATTTGTTGGGACAGA
AAGAATTCGAGCTCCAGAGATTATTTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGGGATTGCAGAGACTCT
TCAGTACATTCTGGACAGGTACCCAGAGGACATTCAGGAAATGCTGGTTTCAGAACGTTTTCTCACTGGCGGCAA
CACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAACCTGTTGGAGATGAGACCCCTCCGGTCTTCTTTTCA
GGTTCAACTTGCCCTCGAACCCCTGTGCTGGATGCCTGGTACGGTGCTCGTGACTGGGCCCTTGAACCACCTAGATGA
TAATGAAGTTTGGATCACCAGGAAAGAGTATGAAGAAAAGGGAGGAGAGTACCTCAAGGAGCACTGTGCTTCCAA
CATCTATGTCCCCATCCGCCTGCCGAAGCAGGCCTCCCGCTCCTCAGATGCCCAGGCATCCAGCAAGGGCTCCGC
TGCTGGTGGAGGTGGTGCTGGTGAGCAGGCAT**TAG**CAGAGGCCCTCCAGAGAGACTGCCCTGCACGCCATGCCTTG
GGCCACGTTGGCAGTGTTGACAGGACTGTGATTGTGCTAGATGTACCTGCCAAGTCTGCTGGTCACATTTGGCAG
CAAAATGGATTTCTCCTGGGGAGAACAAAGTTAAGGGACACTGAGACCTGCCCTTCAGAATTCGGTTCACCTGGG
GGCTTCTGTGGTAGAGACTAACTGGCCTTCTGATGTCTTTGTTCAACTGTGGCCAGCTGTGGCATCAGCTTCCTG
GAGCAGTAAATGAAGACAGAGTGGAGGACACAAATGTACAAAATGCACAAGACTGATTTCTTACCACATTTTAGT
CTTTCTTGTTTT

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FIGURE 5770

MAANVFPPFRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRGGARGA
SGPQVGNALGSLEPLRWMLRSPFDRNVPVNLELQELLLDYSFQHLGVSSQGCVDHPIVLTEAVCNPLYSRQMMSE
LLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLPFILEGRDANKCKRINLGGQAAGYLQRL
LQLKYPGHAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDYENNVHKMQLPFSSKLLGSTLTSEEKQERRQQ
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLEDGQMDQFHKALIELNMDSPEELQSYIQKLSIAVEQAKQKI
LQAEVNLEVDVVDSPETPDLEQLEPSLEDVESMNDFDPLFSEETPGVEKPVTTVQPVFNLAAYHQLFVGTERIR
APEIIFQPSLIGEEQAGIAETLQYILD RYPEDIQEMLVQNVFLTGGNTMYPGMKARMEKELLEMRPFRSSFQVQL
ASNPVLDAWYGARDWALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAGG
GGAGEQA

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FIGURE 5771A

GGGGTGCCGCCGCCGCCGTTGCGCTTGCTCCCGGGCGGTCTTGGCCTGTGCCGCCGCCGCCGCCAGCGTCGGAGC
CATGGCGGGCGCCGCGTCCCTTTCGCCAACGGCTGCGGGCCCGGCGCGCCCTCGGACGCCGAGGTGCTGCACCT
CTGCCGCAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGCAGCGACCCGAGCGGAAGAC
CTTCCAGGTCAAGCTGGAGACGCGCCAGATCACGTGGAGCCGGGGCGCCGACAAGATCGAGGGGGCCATTGACAT
TCGTGAAATTAAGGAGATCCGCCCAGGGAAGACCTCACGGGACTTTGATCGCTATCAAGAGGACCCAGCTTTCCG
GCCGGACCAGTCACATTGCTTTGTCATTCTCTATGGAATGGAATTTTCGCCTGAAAACGCTGAGCCTGCAAGCCAC
ATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTTGGCTGATGGAGGATACATTGCAGGCACCCACACC
CCTGCAGATTGAGAGGTGGCTCCCGAAGCAGTTTTACTCAGTGGATCGGAATCGTGAGGATCGTATATCAGCCAA
GGACCTGAAGAACATGCTGTCCCAGGTCAACTACCGGTCCCCAACATGCGCTTCCTCCGAGAGCGGCTGACGGA
CCTGGAGCAGCGCAGCGGGGACATCACCTACGGGCAGTTTGCTCAGCTGTACCGCAGCCTCATGTACAGCGCCCA
GAAGACGATGGACCTCCCTTCTTGGAAGCCAGTACTCTGAGGGCTGGGGAGCGGCCGGAGCTTTGCCGAGTGTCT
CCTTCTGAGTTCCAGCAGTTCCTTCTTGACTACCAGGGGGAGCTGTGGGCTGTTGATCGCCTCCAGGTGCAGGA
GTTTCATGCTCAGCTTCCTCCGAGACCCCTTACGAGAGATCGAGGAGCCATACTTCTTCTGGATGAGTTTGTAC
CTTCTGTTCTCCAAAGAGAACAGTGTGTGGAACTCGCAGCTGGATGCAGTATGCCCGGACACCATGAACAACCC
TCTTTCCCACTACTGGATCTCCTCCTCGCACAAACAGTACCTGACCGGGGACCAGTTCTCCAGTGAGTCTCCTT
GGAAGCCTATGCTCGCTGCCTGCGGATGGGCTGTGCTGCATTGAGTTGGACTGCTGGGACGGCCCGGATGGGAT
GCCAGTTATTTACCATGGGCACACCCTTACCACCAAGATCAAGTTCTCAGATGTCTGCACACCATCAAGGAGCA
TGCCTTTGTGGCCTCAGAGTACCCAGTCATCCTGTCCATTGAGGACCACTGCAGCATTGCCCAGCAGAGAAACAT
GGCCCAATACTTCAAGAAGGTGCTGGGGGACACACTCCTCACCAAGCCCGTGAGATCTCTGCCGACGGGCTCCC
CTCACCAACCAGCTTAAGAGGAAGATCCTCATCAAGCACAAAGCTGGCTGAGGGCAGTGCCCTACGAGGAGGT
GCCTACATCCATGATGTACTCTGAGAACGACATCAGCAACTCTATCAAGAATGGCATCCTCTACCTGGAGGACCC
TGTGAACCACGAATGGTATCCCCACTACTTTGTTCTGACCAGCAGCAAGATCTACTACTCTGAGGAGACCAGCAG
TGACCAGGGCAACGAGGATGAGGAGGAGCCCCAAGGAGGTGAGCAGCAGCAGAGAGCTGCACTCCAATGAGAAGTG
GTTCCATGGGAAGCTAGGGGACGGGCGTGACGGGCGTCACATCGCTGAGCGCCTGCTTACTGAGTACTGCATCGA
GACCGGAGCCCCCTGACGGCTCCTTCTCGTGCGAGAGAGTGAGACCTTCGTGGGCGACTACACGCTCTCTTTCTG
GCGGAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCCCAAGTTCTTCTTGACAGA
CAACCTCGTCTTTGACTCCCTCTATGACCTCATCACGCACTACCAGCAGGTGCCCTGCGCTGTAATGAGTTTGA
GATGCGACTTTTCAGAGCCTGTCCACAGACCAACGCCACGAGAGCAAAGAGTGGTACCACGCGAGCCTGACCAG
AGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTTCTGCTGCGGAAGCGGAATGAACCCAA
CTCATATGCCATCTCTTTCCGGGCTGAGGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTGAT
GCTAGGGAACCTCGGAGTTTCGACAGCCTTGTTGACCTCATCAGTACTATGAGAAACACCCGCTATACCGCAAGAT
GAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAAGATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTA
TGAGGGACGCAACCCTGGCTTCTATGTAGAGGCAAACCTATGCCAACTTTCAAGTGTGCAGTCAAAGCCCTCTT
TGACTACAAGGCCAGAGGGAGGACGAGCTGACCTTCATCAAGAGCGCCATCATCCAGAATGTGGAGAAGCAAGA
GGGAGGCTGGTGGCGAGGGGACTACGGAGGGAAGAAGCAGCTGTGGTTCCCATCAAACCTACGTGGAAGAGATGGT
CAACCCCGTGCCCTGGAGCCGGAGAGGGAGCACTTGACGAGAACAGCCCCCTAGGGGACTTGCTGCGGGGGGT
CTTGGATGTGCCGGCTTGTCAGATTGCCATCCGTCTGAGGGGCAAGAACAACCGGCTCTTCGTCTTCTCCATCAG
CATGGCGTCGGTGGCCCACTGGTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA
GATCCGTGAAGTGGCCCAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAATGGAACGGAGGAAGAAGATTGC
CCTGGAGCTCTCTGAACTTGTCTGTCTACTGCCGGCCTGTTCCCTTTGATGAAGAGAAGATTGGCACAGAACGTGC
TTGCTACCGGGACATGTCACTCTTCCCGGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGGCAAGAAGTT
CCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGGCCAGCGACTGGATTCTTCCAACTACGATCC
TTTGCCCATGTGGATCTGTGGCAGTCAGCTTGTGGCCCTCAACTTCCAGACCCCTGACAAGCCTATGCAGATGAA
CCAGGCCCTCTTCATGACGGGCAGGCACTGTGGCTACGTGCTGCAGCCAAGCACCATGCGGGATGAGGCCTTCGA
CCCCTTTGACAAGAGCAGCCTCCGCGGGCTGGAGCCATGTGCCATCTCTATTGAGGTGCTGGGGGCCCCGACATCT
GCCAAAGAATGGCCGAGGCATTGTGTGTCCTTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAGCACCAA
GCAGAAGACAGAGTTTGTGGTGGACAATGGACTCAACCTGTATGGCCAGCCAAGCCCTTCCACTTCCAGATCAG
TAACCTGAATTTGCCCTTCTGCGCTTCGTGGTGTATGAGGAAGACATGTTTAGTGACCAGAATTTCTGGCTCA

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FIGURE 5771B

GGCTACTTTCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAACCTACAGTGAGGACCT
GGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCCTGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGG
TACGTCCCTGCGGGAGCGGGGCTCAGATGCCTCAGGCCAGCTGTTTCATGGCCGAGCCCGGGAAGGCTCCTTTGA
ATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCCAGGAGCATCTCGCAGACCATTTTGACAGTCGAGA
ACGAAGGGCCCCAAGAAGGACTCGGGTCAATGGAGACAACCGCCTCTAGTTGTACCCCAGCCTCGTTGGAGAGCA
GCAGGTGCTGTGCGCCTTGTAGAATGCCGCGAACTGGGTTCTTTGGAAGCAGCCCCCTGTGGCGGCCTTCCGGGT
CTCGCAGCCTGAAGCCTGGATTCCAGCAGTGAATGCTAGACAGAAACCAAGCCATTAATGAGATGTTATTACTGT
TTTGGGCCTCCATGCCCCAGCTCTGGATGAAGGCAAAAACCTGTACTGTGTTTCGCATTAAGCACACACATCTGGC
CCTGACTTCTGGAGATGGATCCTTCCATCTTGTGGGGCCAGGACCATGGCCGAAGCCCCTTGGAGAGAGAGGCTG
CCTCAGCCAGTGGCACAGGAGACTCCAAGGAGCTACTGACATTCCTAAGAGTGGAGGAGGAGGAGGAGCCTTGCT
GGGCCAGGGAAACAAAGTTTACATTGTCCTGTAGCTTTAAACACAGCTGGGCAGGG

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FIGURE 5772

MAGAASPCANGCGPGAPSDAEVLHLCRSLEVGTVMTLFYSSKKSQRPERKTFQVKLETRQITWSRGADKIEGAIDI
REIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMEFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAPTP
LQIERWLRKQFYSDVRNREDRISAKDLKNMLSQVNYRVPNMRFLRERLTDLEQSRGDIITYGQFAQLYRSLMYSAQ
KTMDLPFLEASTLRAGERPELCRVSLPEFQQFLLDYQGELWAVDRLQVQEFMLSFLRDPLEIEEPYFFLDEFVT
FLFSKENSVMNSQLDAVCPDTMNNPLSHYWISSSHNTYLTGDQFSSESSLEAYARCLRMGCRCIELDCCWDGPDGM
PVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLP
SPNQLKRKILIKHKKLAEGSAYEEVPTSMMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSS
DQNEDEEEEPKEVSSSTELHSNEKWFHKGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDYTLFSW
RNGKVQHCRHSRQDAGTPKFFLTDNLVFDSLYDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTR
AQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQQEGQTVMLGNSEFDSLVDLISYYEKHPLYRKM
KLRYPIINEEAEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQE
GGWWRGDYGGKKQLWFPSNYVEEMVNPVALEPEREHLDENSPLGDLRLGVLDVPACQIAIRPEGKNNRLFVFSIS
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRPVFPFDEEKIGTERA
CYRDMSSFPETKAEKYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQI VALNFQTPDKPMQMN
QALFMTGRHCGYVLQPSMTMRDEAFDPFDKSSLRGLEPCAISIEVLGARHLPKNRGIVCPFVEIEVAGAEYDSTK
QKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSDQNFLAQATFPVKGLKTGYRAVPLKNNSYEDL
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGS DASGQLFHGRAREGSFESRYQQPFEDFRISQEHLADHFDSRE
RRAPRRTRVNGDNRL

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FIGURE 5773

TAAGAGTCATCACTTCTGCTGAGTAGGCAAAACAATGAACTATAACAACAGACATCATTTTCTTTCTTAAATTC
TGAGGTTTATGCTGGAAAAATAAACCCATTTCTTTATAAACATCTAATTAAATAAAGTATCAAAGAAAAATAAGAT
AATGGAAGAAGCATCCGCCTTTTGGGGCACTATATTCTTAAGGTTGGGCTTTAAGATTTTTTAACAGGAAACCCA
GGAATTTCTGAAAAACAAGGCCTTTTTCACATTACCAAGAACTCACAGCTACTCTGTGAATGCCCTAGATATTTG
ACTCAAATTTTTCACTCAATCTTATTAGGTATATTTCTGGATTATTTGAATCTACAAACCAACCCTAGAATATCA
TGCTTTCCAGTCACACCTGTGGCACAATGAGCAGTGTACGACCATGCCCCATCACAATCCAACCCTTGGTACCCT
ACATTGTGACACCTCCTAGAAAGGTATTAAAGCTGAGCCAATTAATCTATATTTTGATTTGAGACTAAGATTAAT
AAATGCTTTTAAATAAAGTAACTTTTAAGGTATCTGAACAAAGGGATGTAAGGTTAATTCACCTCTCAAACCTGCA
ATTTCAACTCATCAGGCTTATGGATGTATGGACTAATTGCTAACCTAGTAACCTCCTACAAATTTGCAGTATTCAA
AGCGTTTACCCATTTCACTGTTTTTCAAACCAATTACACAAAGCATTAAAATTTACAAGTATGATCTAACCAATT
ATCAAATAATCCCACTAACTACAAAGGGGACTGACTACTGGGTGGAACCTAACTGGCAACTGACTTTACTGAGAT
TAAGTGCCTGTTAAACATAATGATCTTTCAGCAGAAAAATGCAGTATGTGCTTTTACACTTTGAATAAACTCAATT
TCAGAACAAAAAGAGGCTACTTCCATTTCCACATGACAAACATTAAAG

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FIGURE 5774

GCTGACGCCTTCGAGCGCGGCCCGGGGCCCGGAGCGGCCGGAGCAGCCCGGGTCCTGACCCCGGCCCGGCTCCCG
CTCCGGGCTCTGCCGGCGGGCGGGCGAGCGCGCGCGGTCCGGGCGGGGGGATGCTCTCGGCGGACGCGCTGCCA
GGATCTGGATGAGCTGCACTACCAGGACACAGATTTCAGATGTGCCGGAGCAGAGGGATAGCAAGTGCAAGGTCAA
ATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAGGCAGTTTGGACAGCAGGACTGGAAGTTCCTGGC
CAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAGTACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTCAA
GGGGCCATGGACCAAAGAGGAAGACCAAAAAGTCATCGAGCTGGTTAAGAAGTATGGCACAAGCAGTGACACT
GATTGCCAAGCACCTGAAGGGCCGGCTGGGGAAGCAGTGCCGTGAACGCTGGCACAACCACCTCAACCCTGAGGT
GAAGAAGTCTTGCTGGACCGAGGAGGAGGACCGCATCATCTGCGAGGCCACAAGGTGCTGGGCAACCGCTGGGC
CGAGATCGCCAAGATGTTGCCAGGGAGGACAGACAATGCTGTGAAGAATCACTGGAACCTTACCATCAAAAGGAA
GGTGACACAGGAGGCTTCTTGAGCGAGTCCAAAGACTGCAAGCCCCCAGTGTACTTGCTGCTGGAGCTCGAGGA
CAAGGACGGCCTCCAGAGTGCCAGCCACGGAAGGCCAGGGAAGTCTTCTGACCAACTGGCCCTCCGTCCCTCC
TACCATAAAGGAGGAGGAAAACAGTGAGGAGGAACCTGCAGCAGCCACCACATCGAAGGAACAGGAGCCCATCGG
TACAGATCTGGACGCACTGCGAACACCAGAGCCCTTGAGGAATTCCCGAAGCGTGAGGACCAGGAAGGCTCCCC
ACCAGAAACGAGCCTGCCTTACAAGTGGGTGGTGGAGGCAGCTAACCTCCTCATCCCCGCTGTGGGTTCTAGCCT
CTCTGAAGCCCTGGACTTGATCGAGTCGGACCCTGATGCTTGGTGTGACCTGAGTAAATTTGACCTCCCTGAGGA
ACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCACTGCAAGCGTCACATCAGCAGCAAGTCTGCCACC
CCGCCAGCCTTCCGCCCTGGTGCCAGTGTGACCGAGTACCGCCTGGATGGCCACACCATCTCAGACCTGAGCCG
GAGCAGCCGGGGCGAGCTGATCCCCATCTCCCCAGCACTGAAGTCGGGGGCTCTGGCATTGGCACACCGCCCTC
TGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTGTCCCCTGTCACTGAGAATAGCACCAGTCTGTCTTCTCT
GGATTCTGTAAACAGCCTCACGCCCAAGAGCACACCTGTTAAGACCCTGCCCTTCTCGCCCTCCAGTTTCTGAA
CTTCTGGAACAAACAGGACACATTGGAGCTGGAGAGCCCCCTCGCTGACATCCACCCAGTGTGCAGCCAGAAGGT
GGTGGTCACACACCACTGCACCGGGACAAGACACCCCTGCACCAGAAACATGCTGCGTTTGTAACCCAGATCA
GAAGTACTCCATGGACAACACTCCCCACACGCCAACCCCGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAA
GCCCCTGCCACAGACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAACTCAT
CATCGAGGACGACATCAGGCCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCG
GAAGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCAAGTCTCTATCCTT
GCCGACAACTGCCCTTCAAACCTCTTCAGCCTCACCTGTGAGGTATCAAAGAAGACAACAGCTTGCTCAACCA
GGGCTTCTTGAGGCCAAGCCCGAGAAGGCAGCAGTGGCCCAAGAGCCCGAAGCCACTTCACGACACCTGCCCC
TATGTCCAGTGCCTGGAAGACGCTGGCCTGCGGGGGGACAGGGACCAGCTTTTTCATGCAGGAGAAAGCCCGCA
GCTCCTGGGCCCGCTGAAGCCAGCCACACATCTCGGACCCTCATCTTGTCCTGAGGTGTTGAGGGTGTACAGAG
CCCATCTCATGTTTACAGGGGTTGTGGGGGCAGAGGGGGTCTGTGAATCTGAGAGTCATTAGGTGACCTCCTG
CAGGGAGCCTTCTGCCACCAGCCCTCCCCAGACTCTCAGGTGGAGGCAACAGGGCCATGTGCTGCCCTGTTGCC
GAGCCAGCTGTGGGCGGCTCCTGGTGCTAACAACAAAGTTCCACTTCCAGGTCTGCCCTGGTTCCCTCCCCAAGG
CCACAGGGAGCTCCGTCAGCTTCTCCAAGCCACGTGAGGCCTGGCCTCATCTCAGACCCCTGCTTAGGATGGGG
GATGTGGCCAGGGGTGCTCCTGTGCTCACCTCTCTTGGTGCATTTTTTTGGAAGAATAAAATTGCCTCTCTCTT
TG

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FIGURE 5775

MSRRTRCEDLDELHYQDTS DVPEQRDSKCKVKWTHEEDEQLRALVRQFGQDWKFLASHFPNRTDQQCQYRWLR
VLNPD LVKGPWTKEEDQKVIELVKKYGTKQWT LIAKHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAH
KVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVD TGGFLSESKDCKPPVYLLLELEDKDGLQSAQPT EGQGSLL
TNWPSVPPTIKEEENSEEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWVVEAANLL
IPAVGSSLSEALDLIESDPDAWCDLSKFDLPEEPSAEDSINNSLVQLQASHQQQVLPPRQPSALVPSVTEYRLDG
HTISDLSRSSRGELIPISPSTEVGSGIGITPPSVLKRQRKRRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLP
FSPSQFLNFWNKQDTLELESPSLTSTPVCSQKV VVTPLHRDKTPLHQKHA AFVTPDQKYSMDNTPHTPTPFKNA
LEKYGPLKPLPQTPHLEEDLKEVLRSEAGIELI IEDDIRPEKQKRKPGLRRSPIKKVRKSLALDIVDEDVKLMMS
TLPKSLSLPTTAPSNSSSLTSLSGIKEDNSLLNQGFLQAKPEKA AAVAQKPRSHFTTPAPMSSAWKTVACGGTRDQL
FMQEKARQLLGR LKPSHTSRTLILS

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FIGURE 5776

ACCGCTGGCCCCAGGGAAAGCCGAGCGGCCACCGAGCCGGCAGAGACCCACCGAGCGGCGGGCGGAGGGAGCAGCG
CCGGGGCGCACGAGGGCACCATGGCCCAGACGCCCCGCTTCGACAAGCCCAAAGTGAAACTGCATGTCCACCTAG
ACGGATCCATCAAGCCTGAAACCATCTTATACTATGGCAGGAGGAGAGGGATCGCCCTCCAGCTAACACAGCAG
AGGGGCTGCTGAACGTCATTGGCATGGACAAGCCGCTCACCCCTTCAGACTTCCTGGCCAAGTTTGACTACTACA
TGCTTGCTATCGCGGGCTGCCGGGAGGCTATCAAAAGGATCGCCTATGAGTTTGTAGAGATGAAGGCCAAAGAGG
GCGTGCTGTATGTGGAGGTGCGGTACAGTCCGCACCTGCTGGCCAACCTCAAAGTGGAGCCAATCCCCCTGGAACC
AGGCTGAAGGGGACCTCACCCAGACGAGGTGGTGGCCCTAGTGGGCCAGGGCCTGCAGGAGGGGGAGCGAGACT
TCGGGGTCAAGGCCCGGTCCATCCTGTGCTGCATGCGCCACCAGCCCAACTGGTCCCCCAAGGTGGTGGAGCTGT
GTAAGAAGTACCAGCAGCAGACCGTGGTAGCCATTGACCTGGCTGGAGATGAGACCATCCAGGAAGCAGCCTCT
TGCTGGACATGTCCAGGCCTACCAGGAGGCTGTGAAGAGCGGCATTACCGTACTGTCCACGCCGGGGAGGTGG
GCTCGGCCGAAGTAGTAAAAGAGGCTGTGGACATACTCAAGACAGAGCGGCTGGGACACGGCTACCACACCCTGG
AAGACCAGGCCCTTTATAACAGGCTGCGGCAGGAAAACATGCACTTCGAGATCTGCCCCTGGTCCAGCTACCTCA
CTGGTGCCTGGAAGCCGGACACGGAGCATGCAGTCATTGCGCTCAAAAATGACCAGGCTAACTACTCGCTCAACA
CAGATGACCCGCTCATCTTCAAGTCCACCCTGGACACTGATTACCAGATGACCAAACGGGACATGGGCTTTACTG
AAGAGGAGTTTAAAAGGCTGAACATCAATGCGGCCAAATCTAGTTTCTCCAGAAGATGAAAAGAGGGAGCTTC
TCGACCTGCTCTATAAAGCCTATGGGATGCCACCTTCAGCCTCTGCAGGGCAGAACCTCTGAAGACGCCACTCCT
CCAAGCCTTCACCCTGTGGAGTCACCCCAACTCTGTGGGGCTGAGCAACATTTTTACATTTATTCTTCCAAGAA
GACCATGATCTCAATAGTCAGTTACTGATGCTCCTGAACCCCTATGTGTCCATTTCTGCACACACGTATACCTCGG
CATGGCCGCGTCACTTCTCTGATTATGTGCCCTGGCCAGGGACCAGCGCCCTTGACATGGGCATGGTTGAATCT
GAAACCCTCCTTCTGTGGCAACTTGTAAGTAAAAATCTGGTGCTCAATAAAGAAGCCCATGGCTGGTGGCATGC

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FIGURE 5777

MAQTPAFDKPKVKLHVHLDGSIKPETILYYGRRRGIALPANTAEGLLNVIGMDKPLTLPDFLAKFDYYMPAIAGC
REAIKRIAYEFVEMKAKEGVVYVEVRYSPELLANSKVEPIPWNQAEGDLTPDEVVALVGQGLQEGERDFGVKARS
ILCCMRHQPNWSPKVVELCKKYQQQTVVAIDLAGDETIPGSSLLPGHVQAYQEAVKSGIHRTVHAGEVGSAEVVK
EAVDILKTERLGHYHTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNDQANYSLNTDDPLIF
KSTLDTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLDILLYKAYGMPPSASAGQNL

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FIGURE 5778

GTTCGCTGTTGGGCGGAGATATTCGCCGCCGGCGCTTGCGCCCGGAAGGTGTGCCGCACCACACGGGGGAGGAAG
GAAGGAGCTCCCAACTCGCCGGCCTGGCCACGGGATGGCCCCAAATTCCCAGACTCTGTGGAGGAGCTCCGCGC
CGCCGGCAATGAGAGTTTCCGCAACGGCCAGTACGCCGAGGCCTCCGCGCTCTACGGCCGCGCGCTGCGGGTGCT
GCAGGCGCAAGGTTCTTCAGACCCAGAAAGAAGAAAGTGTCTCTACTCCAACCGAGCAGCATGTCACCTTGAAGGA
TGGAAACTGCAGAGACTGCATCAAAGATTGCACTTCAGCACTGGCCTTGTTCCCTTCAGCATTAAGCCCCTGCT
GCGGCGAGCATCTGCTTATGAGGCTCTGGAGAAGTACCTATGGCCTATGTTGACTATAAGACTGTGCTGCAGAT
TGATGATAATGTGACGTAGCCGTAGAAGGCATCAACAGAATGACCAGAGCTCTCATGGACTCGCTTGGGCCTGA
GTGGCGCCTGAAGCTGCCCTCAATCCCCCTTGGTGCCTGTTTCAGCTCAGAAGAGGTGGAATTCTTGCCTTCGGA
GAACCACAAAGAGATGGCTAAAAGCAAATCCAAAGAAACCACAGCTACAAAGAACAGAGTGCCTTCTGCTGGGGA
TGTGGAGAAAGCCAGAGTTCTGAAGGAAGAAGGCAATGAGCTTGTAAGAAGGGAAACCATAAGAAAGCTATTGA
GAAGTACAGTGAAAGCCTCTTGTGTAGTAACCTGGAATCTGCCACGTACAGCAACAGAGCACTCTGCTATTTGGT
CCTGAAGCAGTACACAGAAGCAGTGAAGGACTGCACAGAAGCCCTCAAGCTGGATGGAAAGAACGTGAAGGCATT
CTACAGACGGGCTCAAGCCACAAAGCACTCAAGGACTATAAATCCAGCTTTGCAGACATCAGCAACCTCCTACA
GATTGAGCCTAGGAATGGTCTGCACAGAAGTTGCGGCAGGAAGTGAAGCAGAACCTACACTAAAAACCCAACAG
GGCAACTGGAACCCCTGCCTGACCTTACCCAGAGAAGCCATGGGCCACCTGCTCTGTGCCCCGCTCCTGAAACCCA
GCATGCCCCAAGTGAGCTCTGAAGCCCCCTCCTCAATCCCTTGATGGCCTCCCACCCTGTAAGAGGCTTTGCTTG
TTCAAATTAAACTCAGTGTAGTCAAACACAGACATGGTTGTTGCACCAGAAAGGTCCCCACTAGAGCTAAGCGTG
AAGCTGAAGCTCTGTCCCTATTCCCCCAGCCAGCTAGCTGATCACACCAACAGATCCTCATCAGCAAAGCATT
GGCTTTGTCTGCCAAGTGGGCTGCAGACTGAGTGCTGCCCTTGTTAGCTTCCCCAGACCCCAACTCACTGCAGT
TCATCTGAACAACCTGAGCTCCTGGGCCGGGGTGAAGGAGGGGGATAAACCTAAGGCCCTGATCCAAAGCAGCC
TGTTGAGCTGGTTCTCCAGGGCTGCAGTCTCTCCAGGTGTACAGCTGCTGTCCCTGCCCTGTCTGTCTTGCAC
AGTCTCCTATGTCTGAGCCCCAGTGCCTTCTGTTTCGGGCCCTCCTTTGGTGGGAAGGCAGAGCCCTGACCCTTGA
ATGGTTGTCTTGACTCTGTGCTGCTGCCTTCTGCAGAGAGGCACCTAAGCTGTTTAAAGAGCCCAGTGATTGTG
GCTGCTCCTCCTAGAGGTGGGAGGGGGCAAGAGGCCTCCTTGCTCAGTGTCCATGCTTTCTGGGCAGGGACTTGG
TTTTTTGTTCCAACAGTGGCCTTCTCCGGGCTTCATAGTTCTTTGTAATATGTTGAAGTTAATTTGAATTGACTG
ATTTTGTGAACTGTGTGTTTAAAGCTGTTGCATTAAAAAGCTTTCTTCTACATCAATATCTGCTGTGCTTTTCATT
TATGCCTTTTTCAGCTTTGCACCTGGAACCTCTGTAGTAATAATAAAAGTTATTGCTTATTGGGCATT

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FIGURE 5779

CAATACAGCTAAGGAATTATCCCTTGTAATAACACAGACCCGCCCTGGAGCCAGGCCAAGCTGGACTGCATAAA
GATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCATGAGGGGCCAGCAGCTTCTTGATCGTGGTGG
TGTTCCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCTGTTAAAGGTCAAGACACTGTCA
AAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAG
CGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCTGGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGT
TGAATCCCCCTAACCGCTGCTTGAAAGATACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGA
TGGCCTGTTTCGTTCCCCAGTGAAGGGAGCCGGTCCTTGCTGCACCTGTGCCGTCCCCAGAGCTACAGGCCCCAT
CTGGTCCTAAGTCCCTGCTGCCCTTCCCCTTCCCACACTGTCCATTCTTCCTCCCATTCAGGATGCCACGGCTG
GAGCTGCCTCTCTCATCCACTTTCCAATAAA

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FIGURE 5780

MRASSFLIVVFLIAGTLVLEAAVTGVPVKGQDTVKG RVPFNGQDPVKGQVSVKGQDKVKAQEPVKGPVSTKPGS
CPILIRCAMLNPPNRCLKDTCPGIKKCEGSCGMACFVPQ

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FIGURE 5781

CAGAGTCACTCCTGCCTTCACCATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAACTCT
GGCACCTTGGGCTGTGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTG
CCTTAGATACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCTGACACTTG
TGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCAACAAGGAGGAAGCCTGGGAAGTGCCCAGTGACTTA
TGGCCAATGTTTGATGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTG
CATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTCCTGCCATATGGAGGAGGCTCTGGAGT
CCTGCTCTGTGTGGTCCAGGTCCTTTCCACCCTGAGACTTGGCTCCACCACTGATATCCTCCTTTGGGGAAAGGC
TTGGCACACAGCAGGCTTTCAAGAAGTGCCAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAC

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FIGURE 5782

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPPKKSAQCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDP
VDTPNPTRRKPGKCPVTYQCLMLNPPNFCEMDGQCKRDLKCCMGMCVKSCVSPVKA

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FIGURE 5783

GCGGCT**ATG**CCGCTCTGGCTCTGCTCGTCCTGTTGCTCCTGGGGCCCCGGCGGCTGGTGCCTTGCAGAACCCCCACG
CGACACCTGCGGGAGGAACTTGTTCATCACCCCGCTGCCTTCCGGGGACGTAGCCGCCACATTCCAGTTCCGCACG
CGCTGGGATTCTGGAGCTTCAGCGGGAAGGAGTGTCCCATTACAGGCTCTTTCCCAAAGCCCTGGGGCAGCTGATC
TCCAAGTATTCTCTACGGGAGCTGCACCTGTCAATTCACACAAGGCTTTTGGAGGACCCGATACTGGGGGCCACCC
TTCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTCCAAGACACTGTCACTGATGTGGATAAAATCTTGG
AAGGAGCTCAGTAATGTCCTCTCAGGGATCTTCTGCGCCTCTCTCAACTTCATCGACTCCACCAACACAGTCACT
CCCCTGCTCCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCTGCCG
CGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTCTTGCCCTGTAGTTCCAAGGCAGGCCCTCTCT
GTGCTGCTGAAGGCAGATCGCTTGTTCCACACCAGCTACCACTCCCAGGCAGTGCATATCCGCCCTGTTTGCAGA
AATGCACGCTGTACTAGCATCTCCTGGGAGCTGAGGCAGACCCTGTCAAGTTGATTTGATGCCTTCATCACGGGG
CAGGGAAAGAAAGACTGGTCCCTCTTCCGGATGTTCTCCCGAACCTCACGGAGCCCTGCCCCCTGGCTTCAGAG
AGCCGAGTCTATGTGGACATCACCACTACAACCAGGACAACGAGACATTAGAGGTGCACCCACCCCGACCACT
ACATATCAGGACGTATCCTAGGCACTCGGAAGACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAAC
AACTCTCGAAACCTCAACATCCAGCTCAAGTGAAGAGACCCCCAGAGAATGAGGCCCCCCCCAGTGCCCTTCCTG
CATGCCCAGCGGTACGTGAGTGGCTATGGGCTGCAGAAGGGGGAGCTGAGCACACTGCTGTACAACACCCACCCA
TACCGGGCCTTCCCGGTGCTGCTGCTGGACACCGTACCTGGTATCTGCGGCTGTATGTGCACACCCTCACCATC
ACCTCCAAGGGCAAGGAGAACAACCAAGTTACATCCACTACCAGCCTGCCAGGACCGGCTGCAACCCACCTC
CTGGAGATGCTGATTCACTGCTGCCGGCCAACTCAGTCACCAAGGTTTCCATCCAGTTTGAGCGGGCGCTGCTGAAG
TGGACCGAGTACACGCCAGATCCTAACCATGGCTTCTATGTCAGCCCATCTGTCCTCAGCGCCCTTGTGCCACG
ATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCCTCTTCAACAGCCTGTTCCAGTCTCTGATGGCTCT
AACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAAC
GTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTACGGCTCCTTCTACAATCTCCTCACCCGAACCTTCCAC
ATCGAGGAGCCCCGCACAGGTGGCCTGGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCA
CTCT**TGA**TTCTTGCCCTTTCCAGCAGCTGCAGCTGCCGTTTCTCTCTGGGGAGGGGAGCCCAAGGGCTGTTTCTGC
CACTTGCTCTCCTCAGAGTTGGCTTTTGAACCAAAGTGCCCTGGACCAGGTCAAGGCCTACAGCTGTGTTGTCCA
GTACAGGAGCCACGAGCCAAATGTGGCATTGTGAATTTGAATTAACCTTAGAAATTCATTTCTCACCTGTAGTGGC
CACCTCTATATTGAGGTGCTCAATAAGCAAAAGTGGTCGGTGGCTGCTGTATTGGACAGCACAGAAAAAGATTTT
CATCACACAGAAAAGTCCGGCTGGCAGCACTGGCCAAGGTGATGGGGTGTGCTACACAGTGTATGTCACTGTGTA
GTGGATGGAGTTTACTGTTTGTGGAATAAAAACGGCTGTTTCCGTGCAACACAAAAA

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FIGURE 5784

MPSGSARPVAPGARRLVPCRTPTRHLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLFPKALGQLISK
YSLRELHLSFTQGFWRTYWGPPFLQAPSGAELWVWFQDTVTDVDKSWKELSNVLSGIFCASLNFIDSTNTVTPT
ASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIREPVCRNA
RCTSISWELRQTLSSVVFDAFITGQGKKDWSLFRMFSRTLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTY
QDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPENEAPPVPFLHAQRYVSGYGLQKGELSTLLYNTHPYR
AFPVLLLDTPWYLRLYVHTLTITSKGKENKPSYIHYQPAQDRLQPHLLEMLIQLPANSVTKVSIQFERALLKWT
EYTPDENHGFYVSPSVLSALVPSMVAAPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLVLNLPDPDFSMFYNVI
CLTCTVVAVCYGSFYNLLTRTFHIEEPRTGGLAKRLANLIRRARGVPPL

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FIGURE 5785

GGCACGAGCGAGTTCCTGTCTCTCTGCCAACGCCGCCCGGATGGCTTCCCAAACCGCGACCCAGCCGCCACTAG
CGTCGCCGCCGCCGTAAGGAGCTGAGCCGAGCGGGGGCGCCGCCCGGGTCCGGTGGGCAAAAGGCTACAGCA
GGAGCTGATGACCCTCATGATGTCTGGCGATAAAGGGATTTCTGCCTTCCCTGAATCAGACAACCTTTTCAAATG
GGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACCTGAGGTATAAGCTCTCGCTAGAGTTCCCCAG
TGGCTACCCCTTACAATGCGCCACAGTGAAGTTCCTCACGCCCTGCTATCACCCCAACGTGGACACCCAGGGTAA
CATATGCCTGGACATCCTGAAGGAAAAGTGGTCTGCCCTGTATGATGTCAGGACCATTCTGCTCTCCATCCAGAG
CCTTCTAGGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCTCTGGAAAAACCCACAGCTTT
TAAGAAGTACCTGCAAGAAACCTACTCAAAGCAGGTCACCAGCCAGGAGCCCTTGACCCAGGCTGCCCAGCCTGTC
CTTGTGTCGTCTTTTTTAATTTTTCCTTAGATGGTCTGTCCTTTTTGTGATTTCTGTATAGGACTCTTTATCTTGA
GCTGTGGTATTTTTGTTTTGTTTTGTCTTTAAATTAAGCCTCGGTTGAGCCCTTGTATATTAAATAAATGCAT
TTTTGTCCTTTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5786

MASQNRDPAATSVAAARKGAEPSSGGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYE
DLRYKLSLEFPSPGYPNAPTvkFLTPCYHPNVDtQGNICLDILKEKWSALYDVRTILLsIQSLLGEPNIDSPLNT
HAAELWKNPTAFKKYLQETYSKQVTSQEP

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FIGURE 5787

GAACCCGGCCGACCTCCATGGGCTGCGGGGGGCTGCACCCGGACCCCTGGGGCGCGGCGCGCCCTGAATGCACC
GTGGGACGCAGGAGGGTGCCATGGCCTCCCGGCTCCTGCACCGGCTGCGGCACGCCTTGGCCGGCGACGGCCCCG
GGGAGGCGGCGGCCAGTCCAGAGGCCGAGCAGTTTCCGGAGAGCTCAGAGCTGGAGGACGACGACGCCGAGGGCC
TGTCTTCCCGACTCAGCGGCACCCTCAGCTTCACCAGCGCCGAGGACGACGAGGACGACGAGGACGAGGACGACG
AGGAGGCTGGCCCTGACCAGCTGCCCCCTCGGGGATGGGACGTGAGGAGAAGACGCAGAACGGAGCCCCCACCTG
ATGGGCAGTGGGGCAGTCAGCTCCTGGCGCGGCAGCTGCAGGATTTCTGGAAGAAGTCCCGGAACACCTTGGCAC
CCCAGCGGCTGCTCTTCAAGTGACCAGCGCTAACGTTGTCAAGGACCCGCCCTCCAAGTACGTGCTCTACACCC
TCGCCGTGATCGGCCCAGGACCGCCAGATTGCCAGCCAGCCCAGATCTCTCGCCGTTACTCGGACTTTGAGCGGC
TGCACCGAAACCTGCAGCGGCAATTCCGGGGCCCAATGGCTGCCATCTCCTTCCCCCGTAAGCGGCTGCGCCGGA
ATTTTACTGCAGAGACCATTGCCCGCCGTAGCCGGGCCCTTTGAGCAGTTTTTTGGGTACCTGCAGGCAGTGCCTG
AGCTGCGCCATGCCCCGACCTGCAGGACTTCTTCGTGCTGCCGGAGCTGCGGCGGGCACAGAGCCTCACCTGTA
CTGGCCTCTATCGTGAGGCTCTGGCACTCTGGGCCAATGCCTGGCAGCTGCAAGCCCAGCTGGGCACCCCCCTCTG
GCCCAGACCGCCCCCTGCTGACCCTGGCTGGGCTGGCCGTGTGCCACCAGGAGCTGGAAGACCTGGAGAGGCCC
GGGCATGCTGTGAGAAGGCCCTGCAGCTGCTTGGGGACAAGAGCCTCCACCCTTTGCTGGCACCCCTTTCTGGAGG
CCCATGTCCGGCTCTCCTGGCGCCTGGGCCTGGACAAACGTCAATCAGAGGCTCGGCTCCAAGCCCTGCAGGAGG
CAGGCCTTACCCCCACACCACCCCCCAGTCTCAAAGAATTGCTCATCAAGGAGGTGCTGGACTTAACCCTTGCTTA
GATTTAAGGCCACTGTGAGGAGAGGGGTTGCCCCAGAAGGCAGGGGAAGGACCTGATGAGAACAGAATAGCTGGG
AGGCTGCAGAGGGTGCTGGGAGCCCCTAGAAGTTCCAAAAGAGAATGTGAAGCAGATCAAGGAAACTTCTGTTGA
GCTAGGCTCAGGGTGAGCTTTGGCTGGGGTTGCCCTTGTGTAGTACAGGGAAGTCTGACACAGCCTCTCCAGCCT
ATAAACAGCCGGGGGGCTGTGGCACAGGTTGGGGCAATGTTCCCTTGTGTTGGTGGGCCCCCAAGCTGGCAAGGCCT
CTTGGCTGAAGGCCAGGGACTCTGCCCCTGGAGTCCTGGAGTTAAGGGATGAAGGCAAGGCTGCAGGTCTGGCCC
AGGGGAATTAAAAGCCAGCCACTCC

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FIGURE 5788

MHRGTQEGAMASRLLHRLRHAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDEDEDE
DDEEAGPDQLPLGDGTSGEDAERSPPPDGQWGSQLLARQLQDFWKKSRNTLAPQRLLFEVTSANVVKDPPSKYVL
YTLAVIGPGPPDCQPAQISRRYSDFERLHRNLQRQFRGPMMAISFPRKRLRRNFTAETIARRSRAFEQFLGHLQA
VPELRHAPDLQDFFVLPELRRASLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG
EARACCEKALQLLGDKSLHPLLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTPPPSLKELLIKEVLD

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FIGURE 5789

GTGGCCGCGCTCGCCGGATCCCCTGAGCTGCCCCGCCATCCCACGTGACCGCGCCGCCCCCAGCTCCACCGCTG
AGCCCGCTCGCC**ATG**GCCCTCTTCGGGGGCCCTCTTCCTAGCGCTGCTGGCAGGCGCACATGCAGAGTTCCCAGGC
TGCAAGATCCGCGTCACCTCCAAGCGCTGGAGCTGGTGAAGCAGGAGGGGCTGCGCTTTCTGGAGCAAGAGCTG
GAGACTATCACCATTCCGGACCTGCGGGGCAAAGAAGGCCACTTCTACTACAACATCTCTGAGGTGAAGGTCACA
GAGCTGCAACTGACATCTTCCGAGCTCGATTTCAGCCACAGCAGGAGCTGATGCTTCAAATCACCAATGCCTCC
TTGGGGCTGCGCTTCCGGAGACAGCTGCTCTACTGGTTCTTCTATGATGGGGGCTACATCAACGCCTCAGCTGAG
GGTGTGTCCATCCGCACTGGTCTGGAGCTCTCCCGGGATCCCCTGGACGGATGAAAGTGTCCAATGTCTCCTGC
CAGGCCTCTGTCTCCAGAATGCACGCGGCCTTCGGGGGAACCTTCAAGAAGGTGTATGATTTTCTCTCCACGTTT
ATCACCTCAGGGATGCGCTTCCTCCTCAACCAGCAGATCTGCCCTGTCTCTACCACGCAGGGACGGTCCTGCTC
AACTCCCTCCTGGACACCGTGCCTGTGCGCAGTTCTGTGGACGAGCTTGTTGGCATTGACTATTCCCTCATGAAG
GATCCTGTGGCTTCCACCAGCAACCTGGACATGGACTTCCGGGGGGCCTTCTTCCCCCTGACTGAGAGGAACTGG
AGCCTCCCCAACCGGGCAGTGGAGCCCCAGCTGCAGGAGGAAGAGCGGATGGTGTATGTGGCCTTCTCTGAGTTT
TTCTTCGACTCTGCCATGGAGAGCTACTTCCGGGCGGGGGCCCTGCAGCTGTTGCTGGTGGGGGACAAGGTGCCC
CACGACCTGGACATGCTGCTGAGGGCCACCTACTTTGGGAGCATTGTCCTGCTGAGCCCAGCAGTGATTGACTCC
CCATTGAAGCTGGAGCTGCGGGTCTTGCCCCACCGCGCTGCACCATCAAGCCCTCTGGCACCACCATCTCTGTC
ACTGCTAGCGTCACCATTGCCCTGGTCCCACCAGACCAGCCTGAGGTCCAGCTGTCCAGCATGACTATGGACGCC
CGTCTCAGCGCCAAGATGGCTCTCCGGGGGAAGGCCCTGCGCACGCAGCTGGACCTGCGCAGGTTCCGAATCTAT
TCCAACCATTCTGCACTGGAGTCGCTGGCTCTGATCCCATTACAGGCCCTCTGAAGACCATGCTGCAGATTGGG
GTGATGCCCCATGCTCAATGAGCGGACCTGGCGTGGGGTGCAGATCCCACTACCTGAGGGCATCAACTTTGTGCAT
GAGGTGGTGACGAACCATGCGGGATTCTCACCATCGGGGCTGATCTCCACTTTGCCAAAGGGCTGCGAGAGGTG
ATTGAGAAGAACCGGCCTGCTGATGTCAGGGCGTCCACTGCCCCACACCGTCCACAGCAGCTGTCT**TGA**GCCCTC
AATCCCCAAGCTGGCAGCTGTCATTACAGACCCCAACCCCTCTCAGCCCCTCTTTTCCACATTTCATAGCCTGTA
GTGCCCCCTCTAACCCCCAGTGCCACAGAGAAGACGGGATTTGAAGCTGTACCCAATTTAATTCATAATCAATC
TATCAATTACAGTCCGTCCACCACC

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FIGURE 5790

MALFGALFLALLAGAHAEFPGCKIRVTSKALELVKQEGRLFLEQELETITITIPDLRGKEGHFYNNISEVKVTELQL
TSSELDQFQPELMLQITNASLGLRFRRQLLYWFFYDGGYINASAEGVSIRTGLELSRDPAGRMKVSINVSCQASV
SRMHAAFGGTFKKVYDFLSTFITSGMRFLNQQICEVLYHAGTVLLNSLLDTVPVRSSVDELVGIDYSLMKDPVA
STSNLDMDFRGAFFFPLTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFDSESYFRAGALQLLLVGDKVPHDLD
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQPEVQLSSMTMDARLSA
KMALRGKALRTQLDLRRFRIYSNHSALSLALIPLQAPLKTMLQIGVMPMLNERTWRGVQIPLPEGINFVHEVVT
NHAGFLTIGADLHFAKGLREVIEKNRPADVRASTAPTPTAAV

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FIGURE 5791

AGACACCTCTGCCCTCACC**ATG**AGCCTCTGGCAGCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCGACAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTCAAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
GCGAACCCACGGTGCGGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
CAACATCACCTATTGGATCCAAAATACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCGCGC
CTTCGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGACAGCCGGGACGCAGACATCGTCATCCA
GTTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCCTCC
TGGCCCCGGCATTTCAGGGAGACGCCCATTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
AACTCGGTTTGAAACGCAGATGGCGCGGCTGCCACTTCCCCTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACTACGACACCGACGACCGGTTTGG
CTTCTGCCCCAGCGAGAGACTCTACACCCGGGACGGCAATGCTGATGGGAAACCCTGCCAGTTTCCATTTCATCTT
CCAAGGCCAATCCTACTCCGCCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCGACCCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GGAGCTGTGCGTCTTCCCTTCACTTTCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
GCGCCTCTGGTGCGCTACCACCTCGAACTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCGGACCAAGGATACAG
TTTGTTCTCTGTTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGCCCCCTTGCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACACCACACCGCAGCCCACGGCTCCCCCGACGGTCTGCC
CACCGGACCCCCCACTGTCCACCCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC
AGGTCCCCCACTGCTGGCCCTTCTACGGCCACTACTGTGCCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGCAGGGGGAGCCGGCCGAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTCTGCGGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGCTGGGCCCCGAGGCGTCTGGACAAGCTTGGGCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG
TGGCAGGGGGAAGATGCTGCTGTTTCAGCGGGCGGCGCCTCTGGAGGTTTCGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCCGGGGTGCCCTTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGACT**TAG**GGCTCCCGTCCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCCTGGGGAAGGAGCCAGTTTGCCGGATACAACTGGTATTCTGTTCTGGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTCTTCTCACCTTTGTTTTTGTGGAGTGTCTTAATAAACTTGGATTCT
CTAACCTTT

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FIGURE 5792

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVDPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYFPDGDGKDLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTTPQPTAPPTVCPTGPPTVHPSERP TAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLEFKDGKYWRFSEGRGSRPQGPFLIADKWPALPRKLD SVFEEPLSKKLFFFSGRQVWVYT GASVLGPRR
LDKLGLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

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FIGURE 5793

ACTTCCGGTGGGGAGATTCCGGCCTGGAGCTCCCAGGGCCGAGCAGACCTTGGGACCTGTGAGCGCTGCATCCAA
TTAACCATGGGAAGGGTCAGCACCAGCCACCAGCCCCCTTAGGTGAGGACTCTGCCTGGGGCTCTGCTGATGGTTC
CGAATCATGGAGCTGCAGAGAGCTCCTCCAGCCTGGAGACGTTCTTGGTGAAAGCTGTGGTCTAACTCCACCGGC
TCTTCTGCACATTGTATTCAAGAGGGGTGCCTGCCCCCGCTGACTCAGGAGCTCCGGTGCTGCAGCCGCCACGA
ATGGGGAGGTGGGCCCTCGATGTGGCCTTTTTGTGGAAGGCGGTGTTGACCCTGGGGCTGGTGCTTCTCTACTAC
TGCTTCTCCATCGGCATCACCTTCTACAACAAGTGGCTGACAAAGAGCTTCCATTTCCCCCTCTTCATGACGATG
CTGCACCTGGCCGTGATCTTCTCTTCTCCGCCCTGTCCAGGGCGCTGGTTCAGTGCTCCAGCCACAGGGCCCCGT
GTGGTGCTGAGCTGGGCCGACTACCTCAGAAGAGTGGCTCCCACAGCTCTGGCGACGGCGCTTGACGTGGGCTTG
TCCAACCTGGAGCTTCTGTATGTCACCGTCTCGCTGTACACAATGACCAAATCCTCAGCTGTCTCTTCATCTTG
ATCTTCTCTCTGATCTTCAAGCTGGAGGAGCTGCGCGCGGCACCTGGTCTGCTGGTGCTCTCTCATCGCCGGGGGT
CTCTTCATGTTTACCTACAAGTCCACACAGTTCAACGTGGAGGGCTTCGCCTTGGTGCTGGGGGCTCGTTCATC
GGTGGCATTTCGCTGGACCCTCACCCAGATGCTCCTGCAGAAGGCTGAACTCGGCCTCCAGAATCCCATCGACACC
ATGTTCCACCTGCAGCCACTCATGTTCTGGGGCTCTTCCCTCTCTTTGCTGTATTTGAAGGTCTCCATTTGTCC
ACATCTGAGAAAATCTTCCGTTTCCAGGACACAGGGCTGCTCCTGCGGGTACTTGGGAGCCTCTTCCCTTGGCGGG
ATTCTCGCCTTTGGTTTGGGCTTCTCTGAGTTCTCTGGTCTCCAGAACCTCCAGCCTCACTCTCTCCATTGCC
GGCATTTTTAAGGAAGTCTGCACTTTGCTGTTGGCAGCTCATCTGCTGGGCGATCAGATCAGCCTCCTGAACTGG
CTGGGCTTCGCCCTCTGCCTCTCGGGAATATCCCTCCACGTTGCCCTCAAAGCCCTGCATTCCAGAGGTGATGGT
GGCCCCAAGGCCTTGAAGGGGCTGGGCTCCAGCCCCGACCTGGAGCTGCTGCTCCGGAGCAGCCAGCGGGAGGAA
GGTGACAATGAGGAGGAGGAGTACTTTGTGGCCCAGGGGCAGCAGTGACCAGCCAGGGCAAATGGCTTAGAAGCA
GGCCACTCCCCAGCCTGCTGCCAGCACTCACTGTGCTCAAGCCGCCAGGGCTCATCATGGTAGCTGGGAGCTGTG
GACGGGAGTCACCAGGTGGTGGGGCCAAGCCAGGGACTCATGACTTTTGCCCTCCCTTCAGAGCCTGGTCACAC
AAGGGGCGAGCACCAGGCCAGCCTGGGACTGGCCAGAGCTGGGCCCAAGCTGCGCTGGAATCGCAGCAGGAGAGG
GGAGTGGGCTGGTTCTTCCCACTTCCAGGCTCTGACAGCCGAGACTCATTCCAAGGCACAGCAGCTTCT
AAAGGGACTGAGTTTGGACTGGGTTTTGGACCTCCAGGGGCTGGAGCTTCATCACCTGGGCAGTGTCTTTCTCA
GAGAGCAGGTTTCTTTATAGTTTGGAAATAAATGGTTCACGGTCCACTGGCCGCCTTGTGTTGCTGGAGACGTGG
GGGCAGGGAGGGGACAGTGTGGGCCTGGCCTCTCCTTTCCCTTCCCTGGAGCCTTCTTCAAATGTCTGGTC
TTAAGCCAGGCCTCCTTCATTTTCTCGCTCCTGTTAGAACACCAGTCCCCTCCCCAGTGGGGCCCCACTGCACCT
GCTGGCAGGAAATAAATGAATGTTTACTGAGTACTGCA

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FIGURE 5794

GCGCGCTCTGCTCGGCTGCAGGCTCAGGAAGCGGCGCGGCGGCACGTGCTGGGCCAGAGCCCCGCGCCCTGCGTC
CAGCCGCCGGGTGTGTGCGCCCGCTAGCCCAGCGTCGCGCCTCGGCGCCCCACGCGCCACGCAGCGGCGCGG
GGACCCGGGCGGGGCGAGAGGGAGGGCCCCGGCCAGGGAGGAGAAGGGGCCGGTCTCTCCCGGCGCAGGCAGCAGC
CGCGGCAGCCCAGGAGGCGGAGGCAGCGGCAACGGCAGAGACAGCAACGTGCCCCGCCGAGTCAGCCCGGCCTCG
TCGGACCCGCACCGGCCCCGCCCCGCCCGCACC CGCTCGGGGCGCCCTCTCCACTGCGCGCGGTACAAGGAAA
TGGTAGAACTAGTGATCTCACCAGCCTCACTGTAAACAGCGATTGTCTGGATAAACTGAAGTTTAACCGTGCTG
ACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATACCAAATCGGCCCCCTGAGAGTGTCCAGCTCTTCT
CCAGATCTTGCCACGCTGTCTCTCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTG
CGGGGATCCAGCAGGCTACCCCTATACAGCTTACCCACCTCCAGCACAAAGCCTATGGAATCCCTTCCTACAGCA
TCAAGACAGAAGACAGCTTGAACCATTCCTTGCCAGAGTGGATTCTCTAGCTATGGCTCCAGCTTCAGCACCT
CACCCTTGACAGAGCCCATACACCTACCAGATGCACGGCACAACAGGGTTCTATCAAGGAGGAAATGGACTGG
GCAACGCAGCCGGTTTCGGGAGTGTGCACAGGACTATCTTCTTACCCCGGCTTCCCCCAGAGCCAGTACCCCC
AGTATTACGGCTCATCTACAACCTCCCTACGTCCCGGCCAGCAGCATCTGCCCTTCGCCCTCTCCACGTCCA
CCTACGTCTCCAGGAGGCATCTCACAACGTCCCCAACCAGAGTTCGAGTCACTTGCTGGTGAATACAACACAC
ACAATGGACCTTCCACACCAGCGAAAGAGGGAGACACAGACAGGCCGACCGGGCCCTCCGACGGGAAGCTCCGAG
GCCGGTCTAAGAGGAGCAGTGACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCGTGTGGGACTTGG
ATGAGACAATAATTATTTTTTACTCCTTACTCACGGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGT
CCGTGCGCATTTGCCCTTATGATGGAAGAGATGATCTTCAACCTTGAGATACACATCTGTTCTTCAATGACCTGG
AGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAACCTTCT
CCGTGACGGCTTCCACAGTTCGGCCCCAGGAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGGCGTGGACT
GGATGAGGAAGCTGGCCTTCCGCTACCGGCGGGTGAAGGAGATGTACAATACCTACAAGAACAACGTTGGTGGGT
TGATAGGCACTCCCAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCTCACAGACCTCTGGCTGA
CCCCTCCCTGAAGGCACTAAACCTCATCAACTCCCGGCCCAACTGTGTCAATGTGCTGGTCAACCACCTCAAC
TAATTCCTGCCCTGGCCAAAGTCCTGCTATATGGCCTGGGGTCTGTGTTTCTATTGAGAACATCTACAGTGCAA
CCAAGACAGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCGGCAGAAAAGCTGTCTACGTGGTGATCG
GTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAAACATGCCTTTCTGGCGGATATCTGCCACGCAGACC
TGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTATAGCAGGATCAGCAGCATCTCCACCTGCCATCTCACC
CTCAGACCCCCCTCGCCTTCCCCACCTCCCCACCGAGAACTCCAGAGACCCAGATGTTGGACACCAGGAAGGGGCC
CCACAGCCGAGACGACGTGTCCAGTGACCATCTCAGAAGCCGTCCATCAGTCCAAATGGGGGTTCTGAGAAGGAA
AGTACCCAACATTGGCTTCGGAGTATTTGACTTTGGGGAAAAGGGCTGGCTCGGAGTCTAGACTCTTCTGTAAGA
CTCACAGAACAAAAGCAAGGAATTGCTGATTTGGGGGGTGCCTGGTGATGAGGAGGGGATGGGTTTGTCTTGCT
TCTTTTAAATTTATGACTAGTCTCATTACTCCGGAATTATGCTCTTGACCTGTGTGGCTGGGTTTCTTAGTCG
TTGGTTTGGTTTGGTTTTTTGAACTGGTATGTGGGGTGGTTACAGTTCTAATGTAAGCACTCTATTCTCCAAGT
TGTGCTTTGTGGGGACAATCATTCTTTGAACATTAGAGAGGAAGGCAGTTCAAGCTGTTGAAAAGACTATTGCTT
ATTTTTGTTTTTAAAGACCTACTTGACGTCATGTGGACAGTGCACGTGCCTTACGCTACATCTTGTTTTCTAGGA
AGAGGGGGATGCTGGGAAGGAATGGGTGCTTTGTGATGGATAAAAGGCATTAAATAAAACCACGTTTACATTTTG

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FIGURE 5795A

CGGCGCCGCGCGGCCGCGCTAGAATGGAGGCGCCAGCGGCAGCGAGCCCGGCGGCGACGGGGCCGGGGACTGCG
CCCACCCGGACCCCGGGCCCCCTGGCGCCGCGGCGCCAGCTCCGGCCCCGGCCCGTGC GCGGCCGCCCCGGGAGT
CCGAGCGCCAGCTGCGCCTCCGCCTCTGCGTCTCAACGAGATCTTGGGCACCGAGAGGGACTACGTGGGCACCT
TGCGCTTCTTGAGTCGGCATTCTGTCATCGCATCCGGCAGAACGTGGCCGACTCAGTGGAGAAGGGCCTCACGG
AGGAGAATGTCAAGGTCCTGTTCTCGAACATCGAAGACATCCTGGAAGTTTATAAGGATTTCTTGCCCGCCTTGG
AGTATTGTTTACACCCGGAGCCGAGTCTCAGCATGAACTTGGGAATGTTTTCTTAAATTTCAAGGACAAGTTCT
GCGTGTACGAGGAGTATTGAGCAACCATGAGAAAGCCCTGAGGCTGCTGGTGGAGCTGAACAAGATCCCTACCG
TGCGCGCCTTCCTTTTGAGCTGTCATGCTTCTGGGAGGCCGGAAGACCACGGACATCCCTTTGGAAGGCTACCTGT
TGTCTCCGATCCAGAGGATCTGCAAGTACCCGCTCCTCCTTAAGGAGCTGGCCAAGAGGACTCCCGGCAAGCACC
CAGACCACCCCGCGGTCCAGAGTGCCCTGCAGGCCATGAAGACCGTTTGTCTCCAACATCAATGAGACCAAGCGGC
AGATGGAGAAGCTGGAAGCCCTGGAGCAGCTGCAGTCCACATCGAAGGCTGGGAGGGTTCCAACCTCACAGACA
TCTGCACTCAGCTCCTCCTGCAAGGGACTTTGTTAAAGATCTCTGCGGCAACATCCAGGAAAGGGCCTTCTTCC
TCTTCGACAACCTTCTCGTCTACTGCAAGCGGAAATCCAGGGTCACCGGGAGCAAGAAGTCCACCAAGAGGACCA
AATCCATCAACGGCTCCCTCTACATCTTCAGGGGTGCAATCAACACTGAAGTCATGGAGGTGGAGAATGTGGAAG
ATGGGACAGCGGATTACCATAGCAACGGCTATACCGTCACCAACGGCTGGAAGATCCACAACACGGCCAAGAATA
AGTGGTTTTGTCTGCATGGCCAAGACGGCAGAGGAGAAGCAGAAGTGGCTGGATGCCATCATCCGCGAGCGGGAGC
AGCGCGAGAGCCTGAAGCTGGGCATGGAGCGTGATGCCTACGTTCATGATTGCGGAGAAGGGGGAGAAGCTGTACC
ACATGATGATGAACAAGAAGGTGAACCTCATCAAGGACCGCCGAGAAAGCTGAGCACTGTCCCCAAGTGCTTTC
TTGGCAATGAGTTGTTGCTGGCTCCTAGAAATTGGTGAAATCAGCAAGACGGAAGAAGGAGTCAACTTGGGCC
AAGCCCTGTTGGAGAATGGCATCATCCACCATGTTTCCGACAAGCACCAGTTCAAGAATGAGCAGGTGATGTATC
GCTTCCGCTACGACGATGGCACCTACAAGGCCCGAAGTGAGCTGGAGGACATCATGTCCAAGGGTGTGAGGCTTT
ACTGCCGTCTTCACAGCCTCTACACCCCGGTGATCAAAGACCGTGATTACCACCTGAAGACCTACAAGTCAGTGC
TTCCCGGGAGCAAGCTGGTGGACTGGCTGCTGGCTCAGGGAGACTGCCAGACTCGGGAGGAGGCAGTGGCGCTCG
GCGTGGGTCTGTGCAACAATGGCTTCATGCACCACGTGCTGGAGAAGAGCGAGTTTCAGGGATGAGTCCCAGTACT
TCCGCTTTTCATGCTGACGAGGAGATGGAGGGGACCAGCAGCAAGAACAACAGCTTCGCAACGACTTCAAGCTGG
TGGAGAACATTCTGGCCAAGCGCCTGCTGATCCTGCCCCAGGAGGAGGACTATGGCTTTGACATCGAGGAGAAGA
ACAAGGCTGTGGTGGTGAAGTCCGTCCAGAGGGGCTCGCTGGCTGAGGTGGCTGGCCTGCAGGTGGGGAGGAAGA
TCTACTCCATCAATGAGGACCTGGTGTTCCTGCGGCCGTTTTTCAGAGGTGGAGTCCATCCTCAACCAGTCTTTCT
GCTCCCGCCGCCCTCTGCGCCTCCTGGTGGCCACGAAGGCCAAAGAGATCATCAAAATCCCCGACCAGCCGGACA
CACTGTGCTTCCAGATTCTGTGGAGCTGCCCCACCGTACGTCTATGCTGTGGGGAGAGGCTCTGAGGCCATGGCTG
CAGGGCTCTGTGCTGGTCAGTGCATTCTGAAGGTCAATGGCAGCAACGTGATGAACGATGGTGCCCTGAGGTCC
TGGAGCACTTCCAGGCATTCCGGAGTCGGCGCGAAGAGGCCCTGGGCCTGTACCAGTGGAATACCACACCCATG
AGGATGCCCAGGAAGCACGAGCCAGTCAGGAGGCCCTCCACTGAGGACCCAGTGCGGAGCAGGCCCAGGAGGAAG
ACCAGGCTGATTACGCTTCCCACTGCTGTCCCTGGGTCCCCGGCTGAGCCTGTGTGAGGACAGCCCCATGGTCA
CCCTGACTGTGGACAACGTGCACCTGGAACACGGCGTGGTGTATGAGTATGTGAGCACGGCAGGCGTCAGGTGCC
ATGTGCTGGAGAAGATCGTGGAGCCCCGCGGCTGCTTCGGCCTCACCGCCAAGATCCTCGAGGCCTTTGCTGCCA
ATGACAGCGTCTTCGTGGAGAACTGCAGGCGGCTCATGGCCCTGAGCAGCGCCATCGTGACCATGCCCCACTTTG
AGTTCCGCAACATCTGTGACACCAAGCTGGAGAGCATTGGCCAGAGGATTGCCTGCTACCAGGAGTTTGCAGCCC
AACTGAAGAGCAGGGTCAGCCACCCTTCAAACAAGCCCCCTGGAGCCCCACCCGCTGTGTGGCCTGGACTTCT
GCCCCACCAATTGCCACATCAACCTCATGGAAGTGTCTACCCCAAGACCACCCCTCAGTGGGCAGGTCTTCA
GCATCCGCTTTGGACGCAAACCTCCCTCATCGGCCTTGACCCGGAGCAAGGCCACCTGAACCCCATGTCTGTACA
CCCAGCACTGCATCACCACCATGGCTGCTCCCTCCTGGAAGTGCTTGCCTGCTGCAGAGGGTGATCCCCAAGGCC
AGGGTCTCCATGATGGCAGCTTCCGGGCCAGCCAGTGGGACCCTTGGTCAGGAAGACCGGGGCCCTCAGCTTCTTAC
TCAAGCAGGAGGACCGTGAGATCCAGGATGCCTACCTGCAGCTCTTACCAAGCTGGATGTGGCCCTGAAGGAGA
TGAAGCAATATGTACCCAGATCAACAGGCTGCTGTCCACCATCACAGAGCCACCTCGGGTGGGTCTGCGACG
CATCCTTGGCTGAGGAGGCCTCCTCCCTGCCCCCTGGTCACTGAAGAGAGCGAGATGGACAGGAGTGACCATGGGG
GCATCAAGAAGGTGTGCTTCAAGGTGGCCGAGGAGGACCAGGAGGACTCAGGCCACGACACCATGAGTTATCGCG
ACTCCTACAGCGAGTGTAACAGCAATCGAGACTCGGTCTGTCTACACCAGCGTGAGAAGTAACAGCTCCTACT

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FIGURE 5795B

TGGGCAGCGACGAGATGGGGTCTGGAGATGAGCTGCCCTGTGACATGCGGATCCCATCTGACAAGCAGGACAAGC
TTCATGGCTGCCCTGGAGCACCTCTTTAACCAGGTGGACTCCATCAATGCTCTCCTCAAGGGGCCAGTCATGAGCC
GGGCTTTTCGAAGAGACCAAGCATTTCCTATGAACCACAGCTTACAAGAGTTTAAACAGAAAGAAGAGTGTACAA
TCCGTGGCCGGAGCCTGATCCAGATTAGCATCCAGGAGGACCCCTGGAACCTCCCCAACTCCATCAAGACCCTGG
TGGACAACATTTCAGAGATATGTGGAAGATGGGAAGAACCAGCTGCTCCTGGCCTTGCTGAAGTGCACAGACACGG
AGCTGCAGCTGCGCAGAGACGCGATCTTCTGCCAGGCCCTGGTGGCCGCCGTGTGCACCTTCTCCAAGCAGCTGC
TGGCGGCCCTGGGCTACCGCTACAACAACAATGGCGAGTACGAGGAGAGCAGCCGCGACGCCAGCCGCAAGTGGC
TGGAGCAGGTGGCGGCCACGGGCGTCTGCTGCACTGCCAGTCCCTGCTCTCGCCAGCCACAGTGAAGGAGGAAC
GGACCATGCTGGAGGACATCTGGGTGACGCTGTCAGAGCTGGACAATGTCACCTTCTCCTTTAAGCAGCTGGACG
AGA ACTATGTGGCCAACACCAACGTCTTCTACCACATTGAGGGCAGCCGGCAGGCGCTGAAGGTCATCTTCTACC
TCGACAGCTACCACTTCTCCAAGCTGCCCTCCCGCTGGAGGGTGGGGCCAGCCTGAGGCTGCACACAGCGCTGT
TCACGAAAGTGTGGAGAACGTGGAGGGGCTGCCTTCTCCAGGCAGCCAGGCCGCGGAGGATTTGCAGCAGGACA
TCAACGCGCAGTCCCTGGAGAAAGTTTACGAGTATTACCGCAAACCTCAGGGCATTTTACCTGGAGCGGTCTAACC
TGCCACGGATGCCAGCACACGGCGGTAAAGATAGACCAGCTGATCCGCCCCATCAATGCCCTGGATGAGCTCT
GCCGCTCATGAAGTCCTTTGTCCACCCAAAGCCTGGTGCTGCTGGGAGTGTGGGCGCCGGCCTCATCCCCATCT
CCTCGGAGCTCTGCTACCGCTGGGGGCTGCCAGATGGTCATGTGTGGCACAGGCATGCAGAGGAGCACCCCTGA
GCGTGTCCCTGGAGCAGGCGGCCATCTTGGCACGGAGCCACGGGTTGCTGCCCAAGTGCATCATGCAGGCCACGG
ACATCATGCGGAAGCAGGGCCCAAGGGTGGAGATTCTGGCCAAAACCTGCGAGTCAAGGACCAGATGCCCCAGG
GTGCTCCGCGCCTCTACCGCTCTGCCAGCCCGGTGGATGGGGACCTCTGAACACCCAAATGCCCCACGCTGG
GCCGCGCCTCTGGAGCTGGGATTTGGGAGGACACAGCAGGCAGCGCTGGCCACCCTCGCTGTGATGACGAGCTG
GCTGATTGGCCCTGGGCGGCCCATTTCTTACACGCTGCCAGAAGCTGGAGGGGTGCTGGAGACCCATAGAGCT
GATGGGAGCAGCTGGTGCCTGGCCTTCGGCTCCTGCGTCCCCAGAACC CAAGGGAACGTGCATGGAGGCCACATGG
GGCCACCCGGCTCCCTCGGGATGGCTCCGCTGCACCTTTTGAAACCCCGGTTTCTTCAACGTCCACATTCCAGG
TGACCACACGTGTCTCCTCCTCATCTTAGCTTCCAGGTTACCCCTAACCTGTACTAACCTGCTTGGTGGAC
TTGGAAAAAGACTTGGCTCTGTGCGGAAAGGAGAGACGGGGCCTCCATCACGCCTGTTACCAGAGGATCCCCGAGA
GCCACACCAGCTCTGGACATCACCGCCCTGGAAC TGGGGCCACCAGCCCTGGGCACGAGATTTGCTCTGACTTT
ATTTATATGGCATGAAATCTCTGGTTTATTTTGGGATTTTGTGTTGGTGTGTGCTAAAGTTTGT TTTTCTAA
AGTTGTGTGATTATATATTTGACATTTTACATTTCAAAGAAAGGTATGTTGTCTAACAGGGGACCAACAGAAGGT
AGTATTGACAACGTTCCTGCTTCTACTAAAAAAGAGCACAAAAGAAAACTAAATTATTGAAAAATTAAA
AAATGTCATTGTTTCTGTTTGTAAATATTAGGGTTGTAAGGTGTCGTTTTGAGGTATCGACTGTGATTCCTTCC
CCCACCTCCATTCTCCAGCGTTGGCCGGTGTAGAACTCGCTCTCTTTGAGTGACTGGCTACAAGGGCCTGAG
AGGTGGCCAGCCAGGGTTGGAGCTGGAGGGGATGGAGCCCCACCTGAGGTGCCGTGTACACGGGTTAGAGGGTC
ACTGGGAAACACCGGGCGGTGGCTTCTGTGATTTATTTTCTTGATGGTAACTTCTCAGAGCAGGGCGATTGGGAC
ATCACCAGCCAGAGCACAGGAAGCCACCCTGCCTGCTGGGGAGGAGGGACCCACACAAGCCCCCTCGGCAGTTTG
TCCCCCAGCTTCGGTATGCCTTCAGGGAAAGGTACAGCTGGGGAGGAAGCGGGGGGACGCCTGTCAACCCCTGG
CAGGTGGTGAGTTCAGGTGGGGGCTCCCTGCTGCCCCAGGCCTGGGAGCTTGAAGCCCTCCCGGCATCTGGCAT
CCGAGCCTCCCGCCCTCCAGGGTGCCTTCCCTCTCTTGCCGCAGCATACACGAGGGCAGGCAGTGGCCTTGTCA
CTGTATCTTGCATCAGAGACAAAGGAGGACCCGCTTTAGCCCTGCTGCGGGAAATGGGGGAGGGCCAGGGCCAG
CGCATTGTGCACTGGTTTACTTTAAATGTACAGATTCTTCTCGTTAAATTCTTGATAGATTTTTTTATTATTATT
AAAAGTCAGTTTATAATAC

6275/6881
FIGURE 5796A

GCATTCCTGGCCCCGCCCCCTGCAGCGGGCCGCTCGCTCATGCGCTCTGGCCTCAGGCTCGCTGTCGCGCCATTT
TGCCGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCC
TCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACTCAGCGATGCAAATCTGCAAACTAACAGAA
TATTTAAAGAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGA
AATCAGAAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCA
GTAACATTCAAAAACATATATTAAGGAAGTGGAGAATTGTTGAAGATGAACCAACAAAATTTGTGAAGCCGAT
CGAGTGGCCATTAAAGCCAACATAGTGCACCTTGATGCTTAGCAGCCAGAGCAAATTCAGAAGCAGTTAAGTGAT
GCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTT
CAGAGTGGAGATTTCCATGTTATTAATGGAGTCTCCGTACAGCACATTCATTATTTAAAGATAACCGTCATGAA
TTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTCTGGATGCCTTTGCTTTGCCTTTGACTAATCTTTTT
AAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTTTCTCCCTGATC
CTGATCTCAAAATTTGTTCTATAGTTTAACTTTTCAGGATCTCCCTGAATTTTTTTGAAGATAATATGGAACTTGG
ATGAATAATTTTCATACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAGGAAGCCGGCTTA
TTGGAGCTCTTAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAAGAATTCAGCGA
TACCTGCCTCGTTTTGTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAAATATGATTTGTG
GTAAGTAATGCAATTCATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAAC
ACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAAGCATTGTGA
GATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGGGCTGCTTGTGAT
CTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGGTTATGTTAATTCATGCTG
CAGGAATACGCAAAAATCCATCTGTCAACTGGAAACACAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCA
TCAAAAGCCCCAAACACAGAAGCATGGAATTACACAAGCAAATGAACTTGTAACCTAACTGAGTTCTTTGTGAAT
CACATCCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTCTGCTTAAAGCTGACGGTATCAAATATATT
ATGATTTTTAGAAATCAAGTGCCAAAAGAACATCTTTTAGTCTCGATTCTCTCTTGATTAATCATCTTCAAGCT
GAAAGTATTGTTGTTTCACTTACGCAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGGCCTAACAAATGCC
ACTCTCTTTACAGCTGCAGAAATCGCACCGTTTGTGAGATTCTGCTAACAAACCTTTTCAAAGCTCTCACACTT
CCTGGCTCTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTTCTCTCTACAAGAAGCCATAATC
CCCTACATCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCAAGCAAACCTCAC
TTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCCCTGCTGCTGTTGTA
AATTTTGAGGAGGCTTTGTTTTTGGTGTCTTACTGAAATCTTACAAAATGATGTGCAAGAATTTATTCCATACGTC
TTTCAAGTGATGCTTTGCTTCTGGAACACACAAAAATGACATCCCGTCTTCTATATGGCCTTATTTCTCAT
CTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATTCCTGCTCTAGTGAGGCTTCTTCAAGCATTCTTAGAA
CGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATTCCTGGGTACTAGGTGTCTTTCAGAAGCTGATT
GCATCCAAAGCAAATGACCACCAAGGTTTTATCTTCTAAACAGTATAATAGAGCACATGCCTCCTGAATCAGTT
GACCAATATAGGAAACAAATCTTCATTCTGCTATTCCAGAGACTTCAGAATTCAAAACAACCAAGTTTATCAAG
AGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATATTTGATGGTATA
CAACCAAAAATGTTTGGAATGTTTTGGAAAAAATTATTATTCCTGAAATTCAGAAGGTATCTGGAAATGTAGAG
AAAAAGATCTGTGCGGTTGGCATAACCAAATTACTAACAGAATGTCCCCCAATGATGGACACTGAGTATACCAA
CTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCATTCTGATGAGGAA
CATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTGCTGGGAAAAAGAG
CATGATCCTGTAGGTCAAATGGTGAATAACCCCAAAATTCACCTGGCACAGTCACCTTACAAGTTGTCTACCGCC
TGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTCCAAGGGTACCTT
CAGGCAGCCAGTGTGACACTGCTTTAAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTTTCTAGGAAATCA
CAGGCTTCTGAGCACAGCTGCATTAAACAAAGGAAGTTCTCCTTTTGAACCTGTGCACGAATTCATCTTGTA
GGATATTAAATGTTGCTTTAACCTGAACCTTGAGCAAATTAGTTGGTTTGTGTGATCATACAGTTATGTGGGTGG
CTTCTAGTTTGAACCTTCAAGGGACAAGTATTAATAGTTCAAGTGTATGGCGTTGGTTTGTGTTGAGCGTTTGCAC
GGTTTGGATAATCTTAAATTTTGACGGACACTGTGGAGACTTTCTGTTACTAAATCCTTTTGTGTTGAGCTGTT
GCTATTTGTATTTCTCTTGTCTTTTATATTTTTTGTCTGTTTATTTACGCTTTTATTGGAAATGTGAATAAGTAA
AGAATTACTTGTGTTACTTGCCAAGCAGTGCACATTTCATAGTTTCAAATCTGTAATCAGCAATAAAAAATCCTAA

6276/6881
FIGURE 5796B

AATATGTACCT

6277/6881
FIGURE 5797

MELSDANLQTLTEYLKKTLDPPAIRRPAEKFLESVEGNQNYPLLLLTLLLEKSQDNVIKVCASVTFKNYIKRNR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIGREDFPQKWPDLLTEMVNRFQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVLDALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFFEDNMETWMNNFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLASKAQTQKHGITO
ANELVNLTEFFVNHLPLDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAHA
LERLFTMRGPNNATLFTA AEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLLEAIIPYIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVVNFEALFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMALEFPHLLQPVLWERTGNIPALVRLLQAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIEHMPPEVDQYRKQIFILLFQRLQNSKTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IPEIQKVSGNVEKKICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGMVNNPKIHLAQSLHKLSTACPGRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 5798

AAGTGACGC**ATG**GTACTTGC GCAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTC
GCTTCCGGAAGTGGCTTCTGCGACAACATGCTTGC GGACCTCGGCTTAATCGGAACCATAGGCGAGGATGACGAG
GTGCCGGTGGAGCCCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCATTGTGCTGGGCAGACGACAAAAA
GCTTTGGGGGAAGAACCGCAGTGTGATTTCAACCTGATTTCTGTTTTCTACTGAGAAGGAGGGGACGTACGATGGC
AGCTGGGCCCTGGCTGATGT CATGAGCCAACTCAAGAAGAAGAGGGGCAGCCACTACATTAGATGAGAAGATTGAG
AAAGTTCGAAAGAAAAGGAAAACAGAGGATAAAAGAAGCCAAGTCTGGGAAGTTGGAAAAGGAGAAAAGAAGCAAAG
GAAGGCTCTGAACCAAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGGAAGGCTCAGAAGATGAAGCCTCGGAG
ACTGACTACTCATCAGCTGATGAGAACATCCTCACC AAAGCAGATACACTCAAAGTAAAGGATCGGAAGAAGAAG
AAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGATGCATCTCAGTACGATGAAAACCTCTCGTTCCAGGAC
ATGAACCTTTCCCGCCCTCTTCTGAAGGCCATTACAGCCATGGGCTTCAAGCAGCCCACCCCGATCCAGAAGGCG
TGCATACCTGTGGGTCTATTGGGGAAGGACATCTGTGCCTGTGCAGCCACTGGGACAGGTAAACTGCCGCCTTT
GCCCTGCCCTGTTTTGGAGCGTCTGATTTATAAACCCCGCCAGGCTCCAGTCAACCGCGTGTGGTGCTAGTGCCC
ACCCGAGAGCTGGGCATCCAGGTGCACTCTGTCAACAGACAGCTGGCCAGTTCTGCAACATCACCACTGCCTG
GCTGTGGGCGGCTTGGATGTGAAGTCTCAGGAAGCAGCTCTTCGGGCAGCGCCTGACATCCTCATCGCCACCCCA
GGCCGGCTCATCGATCACCTCCACAACCTGCCCTTCCCTTCCACCTGAGCAGCATCGAGGTGCTCATCCTGGACGAG
GCTGACAGGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCCAACCCGCCAG
ACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTTGAAGAATCCTGTCCGG
ATATTTGTGAACAGCAACACAGATGTGGCTCCCTTCTGCGGCAGGAGTTCATCCGGATCCGGCCTAATCGTGAA
GGAGACCGGGAAGCCATCGTGGCAGCTTTGTTGACGAGGACCTTCACTGACCATGTGATGCTGTTACGCAAACC
AAGAAGCAGGCCACCGCATGCACATCCTCCTGGGGCTCATGGGGCTGCAGGTGGGTGAGCTCCATGGCAAATTG
TCACAGACGCAGCGGCTGGAGGCCCTCCGGCGTTTTTAAGGATGAACAGATTGACATCCTCGTGGCCACTGATGTG
GCAGCCCGTGGACTTGACATTGAGGGGGTCAAAACGGTAATCAACTTCACAATGCCTAATAACCATCAAACATTAT
GTCCACCGGGTGGGGCGAACAGCACGTGCTGGCAGGGCTGGGCGCTCAGTCTCTCTGTTGGGAGAAGATGAGCGG
AAGATGCTGAAGGAGATTGTAAAAGCTGCCAAGGCCCTGTGAAGGCCAGGATACTTCCCCAAGATGTCATCCTC
AAATTCCGGGACAAGATTGAGAAAATGGAGAAAAGATGTGTATGCAGTTCTGCAGCTAGAGGCGGAGGAAAAAGAG
ATGCAGCAGTCAGAAGCCCAGATCAATACAGCAAAGCGGCTCCTGGAGAAGGGGAAGGAGGCAGTGGTCCAAGAG
CCCGAGAGGAGCTGGTTCCAGACCAAAGAAGAGAGGAAGAAGGAGAAAATTGCCAAGCTCTGCAGGAATTTGAC
TTGGCCTTAAGAGGAAAGAAGAAAAGGAAGAAGTTTATGAAGGATGCCAAAAAAGGGGGAGATGACAGCAGAG
GAAAGGTCTCAGTTTGAAATCCTCAAGGCGCAGATGTTTGCTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAG
CGGGCCCGAGCAATGCCCGAGGAGGAGCCAGTGAGAGGTCTGCCAAGAAGCAAAGCAGGGGAAGAAATCTGTA
TTTGATGAAGAACTACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTAGCCCTTCTTTGAAGAAAGG
AAACAGTTGGGCTTGCCCCACCAGAGACGAGGAGGAAACTTTAAATCTAAATCCAGATACAAGAGGAGGAAG**CTAG**

CTGTCGTGGCCTGAAGAAATTCATGGGGGCAGCCCTTAAATCCCTTCCCTGTGGGAAGTCATCCTGGCTGGTCTG
TCTTTTCTCCATTTGTTTAAAAAACAACAAACAAACACTTTGGTGTGGTGGTATGGTACGTAGCTA
TTTTCTAAGCATGTCTGTCAATCTCCCTTCTTGCTGATTAGCTTTCATATGACTATATTAAATGGAAGTATTT
TGGGAAAAGAGAAACCAAAAAAAAAAAAAAAAAA

6279/6881
FIGURE 5799

MVLAQRRRGCEKLRAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPVEPESDSGDEEEEGPIVLGRRQKALG
KNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKLEKEKEAKEGS
EPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVKDRKKKKKKQGEAGGFFEDASQYDENLSFQDMNL
SRPLLKAITAMGFKQPTPIQKACIPVGLLGKDICACAATGTGKTAAFALPVLERLIYKPRQAPVTRVLVLVPTRE
LGIQVHSVTRQLAQFCNITTCLAVGGLDVKSQEAALRAAPDILIATPGRLIDHLHNCPSFHLSSIEVLILDEADR
MLDEYFEEQMKEIIRMCSHHRQTMLFSATMTDEVKDLASVSLKNPVRI FVNSNTDVAPFLRQEFIRIRPNREGDR
EAIVAALLTRTFTHVMLFTQTKKQAHMHILLGLMGLQVGELHGNLSQTQRLEALRRFKDEQIDILVATDVAAR
GLDIEGVKTVINFIMPNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR
DKIEKMEKDVYAVLQLEAEEKEMQQSEAQINTAKRLLEKGKEAVVQEPERSWFQTKEEKKEKIAKALQEFDLAL
RGKKKRKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNRRAKRARAMPEEPPVRGPAKKQKQGKKS VFDE
ELTNTSKKALKQYRASPSFEERKQLGLPHQRRGGNFKSKSRYKRRK

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FIGURE 5800

GAAAATGATCTCCAAAAGATTTCTCAGCAAGGCAGATTTACTTCTGCAGAATGGTGCTGCTTGCACTCCTGGTCA
CAGTGAGAGCACCCCGAACAAAGGAGGTGAAGTGGTTTTATCCCTAACACAGCTAGTTCTGCTTCTGTGTTCT
ATCCCCATTGGCTAGAGTCCAATCTAAACTAGTCCTGATTGGCTATTTTAAACAGGAGGGGTGTGGGTACAGCA
GTGGGAAGAGCAGTTGCCACGAGCGAGGGAGACTTTTCCAGATAAGGAACAAATGCGGGTTACAGGTTGGGATTG
GTGGGAGAAATGTTTACAGAATGGGTAATTAGGAGTGGGAAGGTATGAGGAAGTTGACCTTAAGAACAAAGAACA
AGGAAGTTAAACTTTGAAGAGAAACCCATCATACCTAACAGTCTTGTAAGAAAGGATGACAAAGTGATTGAACAT
TGGGTGGAGCTAATTTTCTTGGCCAATTCAGTTAGTAAGATAAGGAGCTCCAAATCATATTTAAGTTGGGAGTC
AATTGATTTTACTTAATTCTTGTGAGGTTCAAGTTATAAGATTTCATCATACTACTACCATGAGCCATCCTCAGCTC
CTTGTTACATGGGCCTGTTAACATGGCAGCTTTGTCTATAAGCAAACCCAGGAGAGAAAGACATAGCAGAGATGG
ATGTTTGAAGTCTATACCTTCCACCCCTTTAAAGAGAAAGTAACACCACTCCTTTTCTGTGTCCCTTGGGGACA
CTACCTCCATGTCTGGTCACATGGCTGGACTTTACAGCAGATAAGCATACTGTGGCCTGAGACCATGATTGTATG
CTTCTCTTCTGCTGACCTTTACAATCCCTCAATAAAATTGAGCTAACACAGGGAAGCTTTTTTACCAAATAACTGT
GTTGCATCATCCTCCAGTTTGCCTGGTGTCTTAATCAATGGAAGGGGAATAAGCAAAGTGAATTTTCTTACACC
TTTTGAGTATAGTGTTTTTGCCATCATAGATGTGGCTCCTCATAATTCTCCAACCTTTTATATTAATAAAAAACCAAAA
CCTCAAAAATTGTAGTTCATGTCAAGTCAGTGATGACTCATCTTAGAAGTATTTTGTGTTTTGGATGTGTGAATGTG
CATAGTTCTTAAAGTCCAACATTTCATGTAATAAGACATCTTGCATATAACAATGACCTTACGTCTAAGATGTTA
AATAGATCCTAAGCCTGGTATAACTTTATTCAAGTATCCTTATTTGCCCTAAAATGTCTTTAATACACATTACT
TGGGTTATTTCTTGAATGAACATACAGGTATCCCAATTTCTGTTTTTAAGAGAATGGGGTCTTGCTCTGTCACCC
AGGCTGGAGTGCAGTGGTGCAGTCATGGCTTACTGCATCCATGATCCTCCTGCCTCAGCCTCCCAAGTAGATGGG
ACTGAAAGCACACACTGCCATCCCTGGCTAATGTTTTCATATTTTGTAGAGTTGCAGCCTTGCTACGTGACCCAG
GCTGGAGTGTAGTAGCTATTCACAGGCATGATTGCTTGAACTCATGGCTTCAAGGGAAACTCCCAACCTCAATA
TCCTCAGTAGCTGCAACTACAGCCATAACCCCCACTGCTCAGCTTCTCATCCTTTAAAAGATTTTTACTGGTAGT
GTCTCATTTCTGGGTTTTTGTCTTCTGTGTTTACTGTGACATGAAGTCATTTTTAGATGAAGGTTAAACATTTTG
CCAACGCAGGTACAATATGGGATTCAATAAAAGTACAGAATTAAAGTTGTCTTATTAGAGATTGGGAAGTTTCCC
AGCTCCGTTTATCGGTACTTGGCCGTACCGATAAAGGGGATGGACTTGGAGTGACCAGGTCTTAGTCACATGTAT
TTTCATACCTTAAACAAGAAGCGGTATAGACCAGAATGGAGCACTGATTGTAATCCACCTTCTTTCTTAGAACT
GGCGATGGAATATGAGAGGAGCCCTCTGGAAGAAAAGGACAGACCCTGTGCTTTTCATGAAAGTGAAGATCTGGC
TGAACCAGTTCCACAAGGTTACTGTATACATAGCCTGAGTTTAAAGGCTGTGCCCACTTCAAGAATGTCATTGT
TAGACTTTGAAATTTCTAACTGCCTACCTGCATAAAGAAAAATAAATCTTTTAAATC

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FIGURE 5801

MISKRFLSKADLLLQNGAACTPGHSESTPNKGGEVVFIPNTASSCFCVLSPLARVQSKLVLIQYFKQEGCGLQQW
EEQLPRARETFPDKEQMRVTGWDWWEKCLQNG

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FIGURE 5802

GGCACGGCCTAGCGAGTGGTTCTTCTGCGCTACTGCTGCGCGAATCGGCGACCCAGTGCCTCGACCACTATGCC
GCGCTCTTTCTCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGGACTCTAATCC
AGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCACCTGCTGGCAGCCATCCCACCTCCGGAGATCCTCAACCC
CACCGCCTCGCTGCCAATGCTCATCTGGGACTCTGTCTGGCGCCCCAAGCCCAGCCAATTGCCTGGGGCTCCCT
TCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCTAGATGAGGACAGTGGGAAAGGCTCCCAGCC
CCCCAGCCCACCTTCACCGGCTCCTTCGTCTTCTCTCTACTTCAGTCTCTTCCTTGGAGGCCGAGGCCATATGC
TGCTTTCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCCCAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAA
GGCCTTCAACTGCAAATACTGCAACAAGGAATACCTCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACAC
GCTGCCCTGCGTCTGCGGAACCTGCGGGAAGGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCA
CACTGGCGAGAAGCCCTTCTCCTGTCCCCACTGCAGCCGTGCCCTTCGCTGACCGCTCCAACCTGCGGGCCACCT
CCAGACCCACTCAGATGTCAAGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCGAATGTCCCTGCTCCA
CAAGCACCAAGAGTCCGGCTGCTCAGGATGTCCCCGCTTGACCCTCGAGGCTCCCTCTTCTCTCCATACTGCCC
CTGCCTGACAGCCTTCCCCAGCTCCAGCAGGAAGGACCCACATCCTTCTCACTGCCATGGAATTCCCTCCTGAG
TGCCCCACTTCTGGCCACATCAGCCCCACAGGACTTTGATGAAGACCATTTTCTGGTTCTGTGTCTCTGCCTGG
GCTCTGGAAGAGGCCTTCCCATGGCCATTTCTGTGGAGGGAGGGCAGCTGGCCCCCAGCCCTGGGGGATTCTCTGA
GCTGGCCTGTCTGCGTGGGTTTTTGTATCCAGAGCTGTTTGGATACAGCTGCTTTGAGCTACAGGACAAAGGCTG
ACAGACTCACTGGGAAGCTCCCACCCCACTCAGGGGACCCCACTCCCTCACACACACCCCCCACAAGGAACCC
TCAGGCCACCTCCACGAGGTGTGACTAACTATGCAATAATCCACCCCCAGGTGCAGCCCCAGGGCCTGCGGAGG
CGGTGGCAGACTAGAGTCTGAGATGCCCCGAGCCAGGCAGCTATTTAGCCTCCTGTTTGGTGGGGTGGCACCT
GTTTCCCGGGCAATTTAACAATGTCTGAAAAGGGACTGTGAGTAATGGCTGTCACTTGTGCGGGGCCCCAAGTGGG
GTGCTCTGGTCTGACCGATGTGTCTCCAGAACTATTCTGGGGGCCCCGACAGGTGGGCCTGGGAGGAAGATGTTT
ACATTTTTAAAGGTACACTGGTATTTATATTTCAAACATTTTGTATCAAGGAAACGTTTTGTATAGTTATATGTA
CAGTTTATTGATATTCAATAAAGCAGTTAATTTATATATTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5803

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPEILNPTASLPMLIWDSVLAPQAQPIAWA
SLRLQESPRVAELTSLSDSDSGKGSQPPSPSPAPSSFSSTSVSSLEAEAYAAFPGLGQVPKQLAQLSEAKDLQA
RKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRTHHTGEKPFSCPHCSRAFAADRSLRA
HLQTHSDVKKYQCQACARTFSRMSLLHKKHQESGCSGCPR

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FIGURE 5804

TTCACACGGCACGACTTCATCGAGACCAACGGGGACAACCTGCCTGGTGACACTGCTGCCGCTGCTAAAC**ATG**GCC
TACAAGTTCCGCACCCACAGCCCTGAAGCCCTGGAGCAGCTATACCCCTGGGAGTGCTTCGTCTTCTGCCTGATC
ATCTTCGGCACCTTCACCAACCAGATCCACAAGTGGTCGCACACGTACTTTGGGCTGCCACGCTGGGTACCCCTC
CTGCAGGACTGGCATGTCTATCCTGCCACGTAAACACCATCGCATCCACCACGTCTCACCCACGAGACCTACTTC
TGCATCACCACAGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTA
GGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAATAGAATGTGGACCTAAATACCCAGAAGCA
CCCCCTTTGTAAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGA
GCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCTTGCAAGAGCTTCGGCGCCTAATG
ATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAAT**TAA**TCAAAAAGAAAAACC
ACAGGCCCTTCCCTTCCCTCCCAATTTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGATACGT
CTTGTAGACCTCAAAGTACCGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGATACT
AATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCACGTA
GTTGAACCTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTCAACT
GTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACAGGCCCTGGGGTCTCTGCCTTCTCCCTTTACCCTC
CCGCTCCACCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGTTTCAGGT
CGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTCCTTTAAGTCTTAAGTGAT
GCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAACCCCT
CCTTCCCTCTGAGATTGGCTTCGGTGAGGAATTCAGGGCTTTCCCATATCTTCTCTCCCCCACCTTTATCG
AGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCCCTTTTGCACCGTCAACACCCAACACCTTCCATGACACTT
CCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATA
CTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCTCTGCTGTCTCATCAGCTGA
TGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTACCAGGGTTACTCAGACCTGCCAGCTCTCG
GAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAATTGTT
TTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTAAACAGGGCTTTTCAATTTGGTCATCCTTGC
AATCCATTGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAAGAACCTTGAATCCGGTGCATGCCTTGGTTTT
GGTGCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCCGAAAT
TGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTCCACTTGCTGTTTCAGGACCACTAAATGCTGAAATGTGG
ATGCATACCGAAATAAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAAATTTAGTATTTGTGTAAA
ACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTCCATTAATCTTTTTCTGGGGGGAAAA
CCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAAACATAACAGTATTCCATAAGCAGCCTTTTTATTGT
CAGACCATTGCCTGATTTAATATAATAAAAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5805

MAYKFRTHSPEALEQLYPWECFVFCLIIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHET
YFCITTGVKVPFRNFRLLLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYP
EAPPFVRFVTKINMNGVNSSNGVVDPRASVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5806

ATGCCAGGAGAGGTTCAAGCGTCTTACCTGAAGTCACAAAGCAAACCTGAGTGATGAAGGAAGACTTGAACCTAGA
AAATTTCACTGCAAAGACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGA
AGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCC
AAGAGCCATATCAGTGCTAGCAAAATGGCAGAAATTCATATAGCATCAAAGTTGTCTGCAAGAGCTTCGGCGCCT
AATGATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTACAGCAATTAATCAAAAAGAAA
AACCACAGGCCCTTCCCCCTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGAT
ACGTCTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGA
TACTAATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCA
CGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGGCACATCTAACTC
AACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCCTTAC
CCTCCCGCCTCCCACCCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGCTTC
AGGTCGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTTCTTTAAGTCTTAAG
TGATGCCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAAC
CCCTCCACTCCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCACCTTT
ATCGAGGGGTGCTGCTTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTTGACCGTCAACACCCCAACACCTTCCATGAC
ACTTCCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAAC
CATACTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCCTCTGCTGTCATCAG
CTGATGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCT
CTCGGAGTCCTTGGTGGTTGAACTTGAGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAAT
TGTTTTACTTTCCTGTAAGTCTTTTTGCTTTTTAAAAATTGAAGAAGTTTTTAACAGGGCTTTCATTTGGTCATCC
TTGCAATCCATTGGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAGAACCTTGAACCCGGTGCATGCCTTG
GTTTTGGTGTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCC
GAAATTGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTCCAGGACCACTAAATGCTGAAA
TGTGGATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTAATTTAGTATTTGT
GTAAAACCACTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTCTGGGGG
GAAAACCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAACATAACAGTATTCCATAAGCAGCCTTTTT
ATTGTCAGACCATTGCCTGATTTTAATATAATAAAAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5807

MKEDLNLENFTAKTIYENRIYSLKIECGPKYPEAPPFVRFTKINMNGVNSSNGVVDPR AISVLAKWQNSYSIKV
VLQELRRLMMSKENMKLPQPEGQCYSN

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FIGURE 5808

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCTGCCTTTAAATCCATGGAA
GTGGCCAACTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGGCCCCCGCGGCGCCCCC
GCGGCCAGACCCGGGCGCGCCCCCCCCCGCCGGCGAGCTGGGCAGCATCGGCGACCACGAGCGCGCCATCGACTTC
AGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCCGGCGCCCGCCACGGCCACGGACACCTTCGAGGCGGCT
CCGCCCCGCGCCCGCCCCGCGCCCGCCTCCTCCGGGCAGCACCACGACTTCCTCTCCGACCTCTTCTCCGACGAC
TACGGGGGCAAGAACTGCAAGAAGCCGGCCGAGTACGGCTACGTGAGCCTGGGGCGCCTGGGGGCTGCCAAGGGC
GCGCTGCACCCCGGCTGCTTCGCGCCCCCTGCACCCACCGCCCCCGCCGCCGCCGCCGCCGCCGAGCTCAAGGCG
GAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAAGGAGGAGGCCGGGGCGCCGGGCGGCGGCGCAGGCATGGCG
GCGGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCC
ACGTCTCTCTCGTCCAGCCCGCCCGGCACGCCGAGCCCCGCTGACGCCAAGGCCCCCCCCGACCGCTGCTACGCG
GGGGCCGGGCCGGCGCCCTCGCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCGACGAGTACAAG
ATCCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAG
CACAAGGTCTTGGAGCTCACGGCCGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTGCGCGAGCTCAGC
ACCCTGCGGAATTGTTCAAGCAGCTGCCCAGCCCCCTGCTCGCCTCCTCCGGCCACTGCTAG

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FIGURE 5809

GTGATGCGTAGTTCCGGCTGCCGGTTGACATGAAGAAGCAGCAGCGGCTAGGGCGGCGGTAGCTGCAGGGGTCGG
GGATTGCAGCGGGCCTCGGGGCTAAGAGCGCGACGCGGCCTAGAGCGGCAGACGGCGCAGTGGGCCGAGAAGGAG
GCGCAGCAGCCGCCCTGGCCCCGTC**ATCG**GAGATGGAAAAGGAGTTCGAGCAGATCGACAAGTCCGGGAGCTGGGCG
GCCATTTACCAGGATATCCGACATGAAGCCAGTGACTTCCCATGTAGAGTGGCCAAGCTTCCTAAGAACAAAAAC
CGAAATAGGTACAGAGACGTCAGTCCCTTTGACCATAGTCGGATTAACTACATCAAGAAGATAATGACTATATC
AACGCTAGTTTGATAAAAATGGAAGAAGCCCCAAAGGAGTTACATTCTTACCCAGGGCCCTTTGCCTAACACATGC
GGTCACTTTTGGGAGATGGTGTGGGAGCAGAAAAGCAGGGGTGTCTGTCATGCTCAACAGAGTGATGGAGAAAGGT
TCGTTAAAATGCGCACAATACTGGCCACAAAAAGAAGAAAAAGAGATGATCTTTGAAGACACAAATTTGAAATTA
ACATTGATCTCTGAAGATATCAAGTCATATTATACAGTGCACAGCTAGAATTGGAAAACCTTACAACCCAAAGAA
ACTCGAGAGATCTTACATTTCCACTATACCACATGGCCTGACTTTGGAGTCCCTGAATCACCAGCCTCATTCTTG
AACTTTCTTTTCAAAGTCCGAGAGTCAGGGTCACTCAGCCCGGAGCACGGGCCCGTTGTGGTGCAGTGCAGTGC
GGCATCGGCAGGTCTGGAACCTTCTGTCTGGCTGATACCTGCCTCTTGCTGATGGACAAGAGGAAAGACCCTTCT
TCCGTTGATATCAAGAAAGTGCTGTTAGAAATGAGGAAGTTTCGGATGGGGCTGATCCAGACAGCCGACCAGCTG
CGCTTCTCCTACCTGGCTGTGATCGAAGGTGCCAAATTCATCATGGGGGACTCTTCCGTGCAGGATCAGTGGAA
GAGCTTTCCACAGAGGACCTGGAGCCCCACCCGAGCATATCCCCCACCTCCCCGGCCACCCAAACGAATCCTG
GAGCCACACAATGGGAAATGCAGGGAGTTCTTCCCAAATCACCAGTGGGTGAAGGAAGAGACCCAGGAGGATAAA
GACTGCCCCATCAAGGAAGAAAAAGGAAGCCCTTAAATGCCGCACCCTACGGCATCGAAAGCATGAGTCAAGAC
ACTGAAGTTAGAAGTCGGGTCTGTTGGGGGAAGTCTTCGAGGTGCCCAGGCTGCCTCCCCAGCCAAAGGGGAGCCG
TCACTGCCCCGAGAAGGACGAGGACCATGCACTGAGTTACTGGAAGCCCTTCCTGGTCAACATGTGCGTGGCTACG
GTCCTCACGGCCGCGCTTACCTCTGCTACAGGTTCTGTTCAACAGCAACACAT**TAG**CCTGACCCTCCTCCACTC
CACCTCCACCCACTGTCCGCTCTGCCCCGAGAGCCCACGCCCCGACTAGCAGGCATGCCGCGGTAGGTAAGGGCC
GCCGGACCGCGTAGAGAGCCGGGCCCCGGACGGACGTTGGTTCTGCACTAAAACCCATCTTCCCCGGATGTGTGT
CTCACCCCTCATCCTTTTACTTTTGGCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTTGAGGAGAGT
GAAAGAGAGTACCATGCTGGCGGCGCAGAGGGAAGGGGCTACACCCGCTCTTGGGGCTCGCCCCACCCAGGGCTC
CCTCCTGGAGCATCCCAGGCGGGCGGCACGCCAACAGCCCCCCCCCTTGAATCTGCAGGGAGCAACTCTCCACTCC
ATATTTATTTAAACAATTTTTTCCCCAAAGGCATCCATAGTGCAGTACGATTTTCTTGAACCAATAATGTATTAA
AATTTTTTTGATGTACGCTTGCATCAAGGGCTTTATCAAAAAGTACAATAATAATCCTCAGGTAGTACTGGGAA
TGGAAGGCTTTGCCATGGGCCTGCTGCGTCAGACCAGTACTGGGAAGGAGGACGGTTGTAAGCAGTTGTTATTTA
GTGATATTGTGGGTAACGTGAGAAGATAGAACAATGCTATAATATATAATGAACACGTGGGTATTTAATAAGAAA
CATGATGTGAGATTACTTTGTCCCGCTTATTCTCCTCCCTGTTATCTGCTAGATCTAGTTCTCAATCACTGCTCC
CCCGTGTGTATTAGAATGCATGTAAGGTCTTCTTGTGTCTGATGAAAAATATGTGCTTGAAATGAGAACTTTG
ATCTCTGCTTACTAATGTGCCCCATGTCCAAGTCCAACCTGCCTGTGCATGACCTGATCATTACATGGCTGTGGT
TCCTAAGCCTGTTGCTGAAGTCATTGTGCTCAGCAATAGGGTGCAGTTTTCAGGAATAGGCATTTGCCTAATT
CCTGGCATGACACTCTAGTGACTTCCCTGGTGAGGCCAGCCTGTCTGGTACAGCAGGGTCTTGCTGTAACCTCAG
ACATTCCAAGGGTATGGGAAGCCATATTCACACCTCACGCTCTGGACATGATTTAGGGGAAGCAGGGACACCCCC
GCCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGGAAGAGA
GGCACCTGCTGGAACACACTTCTTGAAACAGCCTGGGTGACGGTCTTTAGGCAGCCTGCCGCCGTCTCTGTCTC
CCGGTTCACCTTGCCGAGAGAGGCGCGTCTGCCCCACCTTCAAACCTGTGGGGCCTGATGGTGCTCACGACTCT
TCCTGCAAAGGGAAGTGAAGACCTCCACATTAAGTGGCTTTTAAACATGAAAAACACGGCAGCTGTAGCTCCCGA
GCTACTCTCTTGCCAGCATTTTACATTTTGCCTTTCTCGTGGTAGAAGCCAGTACAGAGAAATCTGTGGTGGG
AACATTGAGGTGTACCCCTGCAGAGCTATGGTGAGGTGTGGATAAGGCTTAGGTGCCAGGCTGTAAGCATTCTG
AGCTGGGCTTGTGTTTTTAAGTCCTGTATATGTATGTAGTAGTTTGGGTGTGTATATATAGTAGCATTTCAAAA
TGGACGTACTGGTTTAACTCCTATCCTTGGAGAGCAGCTGGCTCTCCACCTTGTTACACATTATGTTAGAGAGG
TAGCGAGCTGCTCTGCTATATGCCTTAAGCCAATATTTACTCATCAGGTCATTATTTTTTACAATGGCCATGGAA
TAAACCATTTTTTACAAAA

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FIGURE 5810

MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNRNRDVSPPDHSRIKLHQEDNDYINASLIKME
EAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSLKCAQYWPQKEEKEMIFEDTNLKLTLISEDIK
SYTTRQLELENLTTQETREILHFHYTTWPDFGVPEPASFLNLFKVRSEGSLSPEHGFVVHCSAGIGRSGTF
CLADTCLLLMDKRKDPSSVDIKKVLLEMRFMRGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE
PPPEHIPPPRPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEKGSPNAAPYGIESMSQDTEVRSRVV
GGSLRGAQAASPAKGEPSLPEKDEDHALSYWKPFVLNMCVATVLTAGAYLCYRFLFNSNT

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FIGURE 5811

ATGGCCTCCTTGGAAGTCAGTCGTCGTCCTCGCAGGTCTCGGCGGGAGCTGGAAGTGCGCAGTCCACGACAGAAC
AAATATTCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCTGCCGCTCATCGTGTGGCTGCTGGTGAAAAGC
TTCTCCGAGAGTGGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCCAGATGGAACAAGGGATGTTGCT
GAACAGTTGGAGAAGATCTATGGGTCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAACT
GCATATATTCATGGAATGAAACATGCCACAGGAACTACATCATTATTATGGATGCTGATCTCTCACACCATCCA
AAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTCTCTGGAACCTCGCTACAAAGGA
AATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATAATCAGCCGTGGGGCCAATTTTTTAACTCAGATCTTG
CTGAGACCAGGAGCATCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGTGTTTCTAAAGGCTACGTCTTCCAGATGGAGATGATTGTTTCGGGCAAGACAGTTGAATTATACTATTGGC
GAGGTTCCAATATCATTTGTGGATCGTGTTTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTATCTTTCTTG
AAAGGATTATTGACTCTTTTGTACTACATTAAAAAGAAAGATACTCATTTATAGTTACGTTCAATTCAGGTTAAA
CATGAAAGAAGCCTGGTTACTGATTTGTATAAAATGTACTCTTAAAGTATAAAATATAAGGTAAGGTAAATTTCA
TGCATCTTTTTATGAAGACCACCTATTTTATATTTCAAATTAATAATTTTAAAGTTGCTGGCCTAATGAGCAAT
GTTCTCAATTTTCGTTTTCATTTTGCTGTATTGAGACCTATAAATAAATGTATATTTTTTTTTTGCATAAAGT

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FIGURE 5812

MASLEVSRSPRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSESGINYEIIIIIDDGSPDGTRDVA
EQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKG
NGGVYGWDLKRKIISRGANFLTQILLRPGASDLTGSRFLYRKEVLEKLEKCVSKGYVFQMEMIVRARQLNYTIG
EVPISFVDRVYGESKLGGNEIVSFLKGLLTLFATT

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FIGURE 5813

GGAAGACTTGGGTCCTTGGGTTCGCAGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC
GAGGACGGCGGGGACAAGGGGCGGCTGGTTCGGAGTGGCGGAGCGTCAAGTCCCCGTGTCGGTTCCCTCCGTCCCTGA
GTGTCCTTGGCGCTGCCTTGTGCCCCGCCAGCGCCTTTGCATCCGCTCCTGGGCACCGAGGCGCCCTGTAGGATA
CTGCTTGTTACTTATTACAGCTAGAGGGTCTCACTCCATTGCCAGGCCAGAGTGCGGGGATATTTGATAAGAAA
CTTCAGTGAAGGCCGGGCGCGGTGGCTCATGCCCGTAATCCCAGCATTTTTCGGAGGCCGAGGCATCATGGACCGA
TCTAAAGAAAACCTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGACT
CAGCAATTTCCCTTGTGAGAATCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGGTCTTGTGTCTTCAAATTCT
TCCCAGCGCATTCCTTTGCAAGCACAAAAGCTTGTCTCCAGTCAAGCCGGTTCAGAATCAGAAGCAGAAGCAA
TTGCAGGCAACCAGTGTACCTCATCCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCCTGCCA
TCGGCACCTGAAAATAATCCTGAGGAGGAACCTGGCATCAAAACAGAAAAATGAAGAATCAAAAAAGAGGCAGTGG
GCTTTGGAAGACTTTTGAATTGGTCGCCCTCTGGGTAAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAG
CAAAGCAAGTTTATTCTGGCTCTTAAAGTGTATTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTC
AGAAGAGAAGTAGAAATACAGTCCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCT
ACCAGAGTCTACCTAATTCTGGAATATGCACCCTTGAACAGTTTATAGAGAACTTCAGAACTTTCAAAGTTT
GATGAGCAGAGAACTGCTACTTATATAACAGAAATTGGCAAATGCCCTGTCTTACTGTCAATCGAAGAGAGTTATT
CATAGAGACATTAAGCCAGAGAACTTACTTCTTGATCAGCTGGAGAGCTTAAAATTGCAGATTTTGGGTGGTCA
GTACATGCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCCTGGACTACCTGCCCCCTGAAATGATTGAAGGT
CGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTGTAGTTGGGAAGCCTCCT
TTTGAGGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTGAATTACATTCCCTGACTTTGTAACA
GAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCCAGCCAGAGGCCAATGCTCAGAGAAGTACTT
GAACACCCCTGGATCACAGCAAATTCATCAAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGCAAACAGTCT
TAGGAATCGTGCAGGGGGAGAAATCCTTGAGCCAGGGCTGCCATATAACCTGACAGGAACATGCTACTGAAGTTT
ATTTTACCATTGACTGCTGCCCTCAATCTAGAACGCTACACAAGAAATATTTGTTTTACTCAGCAGGTGTGCCTT
AACCTCCCTATTTCAGAAAGCTCCACATCAATAAACATGACACTCTGAAGTGAAAGTAGCCACGAGAATTGTGCTA
CTTATACTGGTTCATAATCTGGAGGCAAGGTTTCGACTGCAGCCGCCCCGTCAGCCTGTGCTAGGCATGGTGTCTT
CACAGGAGGCAAATCCAGAGCCTGGCTGTGGGGAAAGTGACCACTCTGCCCTGACCCCGATCAGTTAAGGAGCTG
TGCAATAACCTTCCTAGTACCTGAGTGAGTGTGTAACCTTATTGGGTTGGCGAAGCCTGGTAAAGCTGTTGGAATG
AGTATGTGATTCTTTTTAAGTATGAAAATAAAGATATATGTACAGACTTGTATTTTTTCTCTGGTGGCATTCCTT
TAGGAATGCTGTGTGTCTGTCCGGCACCCCGGTAGGCCTGATTGGGTTTCTAGTCCTCCTTAACCACTTATCTCC
CATATGAGAGTGTGAAAAATAGGAACACGTGCTCTACCTCCATTTAGGGATTTGCTTGGGATACAGAAGAGGCCA
TGTGTCTCAGAGCTGTTAAGGGCTTATTTTTTTAAACATTGGAGTCATAGCATGTGTGTAAACTTTAAATATGC
AAATAAATAAGTATCTATGTCT

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FIGURE 5814

AGAGGAGTGGGACCGATCGATAGCGCAGCGGTCGCTTGGCGCCCTTTTCAGCGTGCGCAGTGAACGTGCGCTCGGA
GCGGTAGATTGGGCAGGATTTCGCGCCTCCATTTTTCCAGGAGAGAGCGGGATACCAAGAGAACCGGACCAGCTGC
TGGCAGGGAAACTGTCTTCCTTTTCTCCAAGATGTACAGAACCAAAGTGGGCTTGAAGGACCGCCAGCAGCTCTA
CAAGCTGATCATTAGCCAGCTGCTATATGACGGCTACATCAGCATCGCCAATGGCCATCAATGAAATCAAGCC
TCAGTCTGTGTGTGCACCCCTCGGAGCAGCTCCTGCATCTCATCAAACCTCGGAATGGAACGATGACACCGCAGT
TCAGTATGCAATTGGTTCGTTTCAGATACTGTTGCCCCCTGGCACAGGGATTGACCTGGAATTTGATGCAGATGTTCA
GACTATGTCCCCAGAGGCTTCTGAGTACGAAACATGCTATGTGCATCACATAAAGGACCATGCCGTGTAGCTAC
CTATAGTAGAGATGGACAGTTAATAGCTACTGGGTCTGCTGATGCTTCGATAAAGATACTTGACACAGAGAGGAT
GTTGGCCAAAAGTGCCATGCCAATAGAGGTCATGATGAATGAGACCGCACAAACAAAATATGGAAAACCAACCCAGT
GATTGCAACTCTTTATGACCATGTGGATGAAGTCACGTGCCTTGCTTTCCACCCAACAGAACAGATCCTGGCTTC
TGGTTCAAGGGATTATACTCTTAAATTATTTGATTATTCCAAACCATCAGCAAAAAGAGCCTTCAAATACATTCA
GGAAGCTGAAATGTTACGTTCCATCTCTTTTCATCCTTCTGGAGACTTTATACTTGTGGAACCTCAGCATCCTAC
TCTTCGCCTTTATGATATCAACACCTTTCAATGTTTTGTCTCTTGCAATCCTCAAGATCAACACACCGATGCTAT
ATGTTCCGTTAATTACAATTCTAGTGCCAATATGTACGTAACCTGGAAGCAAGGACGGCTGCATCAAATTATGGGA
TGGTGTTCAAATCGATGCATCACAACTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTCTGCCATTTTTTC
CAAAAATTCTAAATACATTCTCTCAAGTGGAAAAGACTCTGTAGCTAAACTTTGGGAAATATCAACGGGACGAAC
ACTGGTCAGATACACGGGCGCGGGTTTAAGTGGACGCCAGGTGCACCGGACACAGGCTGTGTTTAACCACACCGA
GGACTATGTGTGTGCTGCCCCGACGAGAGGACGATCAGTCTTTGCTGCTGGGACTCGAGGACAGCCGAGCGGAGAAA
CCTGCTGTCGTTGGGGCACAAACAATATTGTACGCTGCATAGTGCACTCCCCACCAACCCCGGGTTCATGACGTG
CAGCGATGACTTCAGAGCGCGGTTTTGGTACCGGAGATCGACCACTGACTGAGCCACCCTCTCCGTAGGGTTCTT
TCTCGAGGACTCTACCCTCCTCCCCACGTCCTGTCTCAGCTGCAGTCGTAAGTCCGTGCACCATCCTTGACGTT
TTGCTGCCACCTCTGTCCACATTCTTCTTGGATTTGTATAAAAGAATCTTTTTTTACCTTGATGTAGAATCATGG
TGGAAAAAGTTGGAAACACAGATCTGTGCAGTTCTACATTCAGTATTATTACAGTGTGATTTTCATCGTTTTG
TAAGTACAGGACTTGCCGTTTTCTTTTGATCTCTTGATTGAAGGAGGATAGGGCATTAAAGTGCTTTTGACATGAG
G

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FIGURE 5815

MYRTKVGLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMENDDTAVQYAIGRSDTV
APGTGIDLEFDADVQTMSPLEASEYETCYVTSHKGPCRVATYSRDGQLIATGSADASI KILDTERMLAKSAMP I EV
MMNETAQQN MENHPVIRTLYDHVDEVTCLAFHPTEQILASGSRDYTLKLF DYSKPSAKRAFKYIQEAEMLR S I SF
HPSGDFILVGTQHPTLRLYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGC I KLWDGVS NRCITTF
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGRTLVR YTGAGLSGRQVHRTQAVFNHTEDYVLLPDERT
ISLCCWDSRTAERNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFRARFWYRRSTTD

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FIGURE 5816

GGATTTGCGCGGAAATCCCGGAAGTGACAGCTTTGGGGGTTTGCTGCTGGCTCTGACTCCCGTCCTGCGATGGGT
TGCGACGGGGGAACAATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGAT
GCTGAATTAGTGGCCCAATGGAAGTATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCCTGTGAA
CTTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTTGGACAAATCTGCAGAAAAGGCTCTTGGGAAG
GCAGCATCTCACATTAAGCAATTAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGAT
AAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGCGTTTCATCTGCCCCGTTGTGGGCCTGGAG
ATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGCGGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATA
AAAGCGGAAGTTTGCCACACGTGTGGGGCTGCCTTCAGGAGGATGATGTCATCATGCTCAATGGCACCAAGGAG
GATGTGGACGTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGGAAAAGAAAACAAAGAAACCC
AAGGCAGCAGAGTCTGTTTTCAAACCAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAAGTTAAGACAGGGAAG
CCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCAAAGCACAGCAATGAATGAGAGC
TCTTCTGGAAAAGCTGGGAAGCCTCCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAATCGGAGGCC
TACAAGTCCCTCTTTACCACTCACAGCTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCCTGGGTCACCCACACG
TCCTACTGCTTCTGAAGCCCGCACTGCCACCGCTCCTGCCCCAGAAGGTTGTTTAGTTTCCACGTAGGCAGGTCG
CTTTGTGCCTCTGAGTGCGCTGCTGTGTGTTCTCTCTATAGTTCTGTGTCATAAAGCTGTCTGGCCAGCCTTCA
AGCTGGTGTGGCCACTCTTGATGTGAGGCGTGTGCGTTCCAGGGGGGACATGGGAGGGGCTGCACAGTGGCCCGA
GGTCATGCTTGCTTCCACCTGCAGGTGCATTTGGTCCCTTTCATGGCCAGGAAGCCCTGTGGGCTGCACTTTTTA
TGCTTGCAAGTAACAAGAGACTCCAGAGTCCTCACCGGTGCAGAGTTGGCACATATTAATTAATACTAAAAATCTAAT
GATCTTGCTACCAGCAATAAATCAAGTAGGCCAAGTGAACTGGGCTTTAAAAAGGATGGATTTCAAATACACTG
TGCCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCCCTGGGAGGAGCCAGGATCCTTGTTGGTCTAG
CTAAATACTGTTAGGGGAGTGTGCCCCATCTCATCATTTTCAAGATAGCAGAGTCATAGTTGGGCACCCAGTGAT
TGGGTTCAAAAATAAAGCTGGTCTGCCTCTTC

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FIGURE 5817

MGCDGGTIPKRHELVKGPKKVEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKDAVIEFLDKSAEKAL
GKAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQRARFICPVVGLEMNGRHRFCFLRCCGCVFSERALK
EIKAEVCHTCGAAFQEDDVIMLNGTKEDVDVLKTRMEERRLRKLEKKTKKPKAAESVSKPDVSEEAPGPSKVKT
GKP EEASLDSREKKTNLAPKSTAMNESSSGKAGKPPCGATKRSIADSESEAYKSLFTTHSSAKRSKEESAHWVT
HTSYCF

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FIGURE 5818

CCGAGGCGGCCTCTTGTGCGATCCAGGGCGCACAAAGGCTGGGAGAGCGCCCCGGGGCCCCCTGCTATCCGCGCCGG
AGGTTGGAAGAGGGTGGGTTCGCCGCCGCCGAGGGCGAGAGCGCCAGAGGAGCGGGGAAGAAGGAGCGCTCGCCCC
CCCGCCTGCCTCCTCGCTGCCTCCCCGGCGTTGGCTCTCTGGACTCCTAGGCTTGCTGGCTGCTCCTCCCACCCG
CGCCCGCCTCCTCACTCGCCTTTTCGTTTCGCCGGGGCTGCTTTCCAAGCCCTGCGGTGCGCCCGGGCGAGTGCGG
GGCGAGGGGCCCCGGGGCCAGCACCGAGCAGGGGGCGGGGGTCCGGGCAGAGCGCGGCCGGCCGGGGAGGGGCCAT
GTCTGGCGCGGGCGCAGCGGGGCCCCGTCTGCAGCAAGTGACCGAGCGGCGCGGACGGCCGCTGCCCCCTCTGCC
ACCTGGGGCGGTGCGGGCCCCGGAGCCCGGAGCCCGGTAGCGCGTAGAGCCGGCGCGATGCACGTGCGCTCACTG
CGAGCTGCGGGCGCCGCACAGCTTCGTGGCGCTCTGGGCACCCCTGTTCTGCTGCGCTCCGCCCTGGCCGACTTC
AGCCTGGACAACGAGGTGCACTCGAGCTTCATCCACCGGCGCCTCCGCAGCCAGGAGCGGCGGGAGATGCAGCGC
GAGATCCTCTCCATTTTGGGCTTGCCCCACCGCCCCGCGCCCGCACCTCCAGGGCAAGCACAACTCGGCACCCATG
TTCATGCTGGACCTGTACAACGCCATGGCGGTGGAGGAGGGCGGGGGCCCCGGCGGCCAGGGCTTCTCCTACCCC
TACAAGGCCGTCTTCAGTACCCAGGGCCCCCCTCTGGCCAGCCTGCAAGATAGCCATTTCTCACCGACGCCGAC
ATGGTCATGAGCTTCGTCAACCTCGTGGAAACATGACAAGGAATTCTTCCACCCACGCTACCACCATCGAGAGTTC
CGGTTTGATCTTTCCAAGATCCCAGAAGGGGAAGCTGTACGGCAGCCGAATTCCGGATCTACAAGGACTACATC
CGGGAACGCTTCGACAATGAGACGTTCCGGATCAGCGTTTATCAGGTGCTCCAGGAGCACTTGGGCAGGGAATCG
GATCTCTTCTGCTCGACAGCCGTACCCCTCTGGGCCTCGGAGGAGGGCTGGCTGGTGTGTTGACATCACAGCCACC
AGCAACCACTGGGTGGTCAATCCGCGGCACAACCTGGGCCTGCAGCTCTCGGTGGAGACGCTGGATGGGCAGAGC
ATCAACCCCAAGTTGGCGGGCCTGATTGGGCGGCACGGGCCCCAGAACAAGCAGCCCTTCATGGTGGCTTTCTTC
AAGGCCACGGAGGTCCACTTCCGCAGCATCCGCTCCACGGGGAGCAAACAGCGCAGCCAGAACCCTCCAAGACG
CCCAAGAACCAGGAAGCCCTGCGGATGGCCAACGTGGCAGAGAACAGCAGCAGCGACCAGAGGCAGGCCTGTAAG
AAGCAGGAGCTGTATGTGAGCTTCCGAGACCTGGGCTGGCAGGACTGGATCATCGCGCCTGAAGGCTACGCCGCC
TACTACTGTGAGGGGGAGTGTGCCTTCCCTCTGAACTCCTACATGAACGCCACCAACCACGCCATCGTGACAGC
CTGGTCCACTTCATCAACCCGAAACGGTGCCCAAGCCCTGCTGTGCGCCACGCAGCTCAATGCCATCTCCGTC
CTCTACTTCGATGACAGCTCCAACGTATCCTGAAGAAATACAGAAAATGGTGGTCCGGGCCTGTGGCTGCCAC
TAGCTCCTCCGAGAATTCAGACCCCTTTGGGGCCAAGTTTTTCTGGATCCTCCATTGCTCGCCTTGGCCAGGAACC
AGCAGACCAACTGCCTTTTGTGAGACCTTCCCTCCCTATCCCCAACTTTAAAGGTGTGAGAGTATTAGGAAAACA
TGAGCAGCATATGGCTTTTGATCAGTTTTTTCAGTGGCAGCATCCAATGAACAAGATCCTACAAGCTGTGCAGGCA
AAACCTAGCAGGAAAAAAAAACAACGCATAAAGAAAAATGGCCGGGCCAGGTCATTGGCTGGGAAGTCTCAGCCA
TGCACGGACTCGTTTCCAGAGGTAATTATGAGCGCCTACCAGCCAGGCCACCCAGCCGTGGGAGGAAGGGGGCGT
GGCAAGGGGTGGGCACATTGGTGTCTGTGCGAAAGGAAAAATTGACCCGGAAGTTCCTGTAATAAATGTCACAATA
AAACGAATGAATG

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FIGURE 5819

AGCCACTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGTACGGGCACTGGGCGACTCT
GTGCCTCGCTGAAGAAAAATAACTAAAC**ATG**GGCAAAGGAGATCCTAAGAAGCCGAGAGGCCAAAATGTCATCATA
TGCATTTTTTGTGCAAACCTTGTCGGGAGGAGCATAAGAAGAAGCACTCAGATGCTTCAGTCAACTTCTCAGAGTT
TTCTAACAAGTGCCCATTATGAAAGACAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCA
AGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCCTGTTCTGCTCTGAGTATCACCCAAAAATCAAAG
GAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATG
ACAAGCAGCCTGGTGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCAAGCTA
AAGGAAAGCCTGAGGCAGCAAAAAAGGGAGTTGTCAAAGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAG
ATGAGGAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGAAGATGATGATGATGAATAAGTTGGCT
CTAGCGCAGTTTTTTTTTCTTGTCTTAAAGCATTTAACGCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAAT
TGAAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCGTTTTTTGTATGGTTAATACTACCAAA
TGTGTCCTTAGATGGCCCTGTCTGGTGGTATTTTCAATAGTCACTAACCTTGCCTGGTAGAGTATGGGGGTTGT
AAATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCGCAGCACAAATTAGTTATATATGGGGATGGTAGTTT
TTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTCTGTTAACTGAATACCACTCTGTAATTGC
AAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTT

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FIGURE 5820

MGKGDPPKKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCHYERQMKTYIPPKGETKKKFKDPNAPKRPP
SAFFLFCSEYHPKIKGEHPGLSIGDVAKKLGEWNNNTAADDKQPGKKAAKLKEYEKDIAAYQAKGKPEAAKKG
VVKAEKSKKKKEEEEEDEEDEEEEEDEEDEEDDDDE

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FIGURE 5821

TTTAAAGCTGGGAGGTTCTGCCACCAAGCACGGCCTTCCCACTGGGAACACAACTTGCTGGCGGGAAGAGCCCG
GAAAGAAACCTGTGGATCTCCCTTCGAGATCATCCAAAGAGAAGAAAGGTGACCTCACATTCTGTGCCCTTAGCA
GCACTCTGCAGAAATGCCTCCTCAGCTGCAAAACGGCCTGAACCTCTCGGCCAAAAGTTGTCCAGGGAAGCCTGGA
CAGCCTACCCAGGCAGTGAGGGAGTTTCTCGAGAATAACGCTGAGCTGTGTACAGCCTGATCACATCCACATCTG
TGACGGCTCTGAGGAGGAGAATGGGCGGCTTCTGGGCCAGATGGAGGAAGAGGGGCATCCTCAGGCGGCTGAAGAA
GTATGACAACTGCTGGTTGGCTCTCACTGACCCAGGGATGTGGCCAGGATCGAAAGCAAGACGGTTATCGTCAC
CCAAGAGCAAAGAGACACAGTGCCCATCCCCAAAACAGGCCTCAGCCAGCTCGGTCTGCTGGATGTGAGAGGAGGA
TTTTGAGAAAGCGTTCAATGCCAGGTTCCCAGGGTGCATGAAAGGTGCGACCATGTACGTCATCCCATTGAGCAT
GGGGCCGCTGGGCTCGCCTCTGTCAAAGATCGGCATCGAGCTGACGGATTACCCCTACGTGGTGGCCAGCATGCG
GATCATGACGCGGATGGGCACGCCCGTCTGGAAGCAGTGGGCGATGGGGAGTTTGTCAAATGCCTCCATTCTGT
GGGGTGGCCTCTGCCTTTACAAAAGCCTTTGGTCAACAACCTGGCCCTGCAACCCGGAGCTGACGCTCATCGCCCA
CCTGCCTGACCGCAGAGAGATCATCTCCTTTGGCAGTGGGTACGGCGGGAACCTGCTGCTCGGGAAGAAGTGCTT
TGCTCTCAGGATGGCCAGCCGGCTGGCCAAGGAGGAAGGGTGGCTGGCAGAGCACATGCTGATTCTGGGTATAAC
CAACCCTGAGGGTGAGAAGAAGTACCTGGCGGCCGATTTCCCAGCGCCTGCGGGAAGACCAACCTGGCCATGAT
GAACCCAGCCTCCCCGGGTGGAAGGTTGAGTGCCTCGGGGATGACATTGCCTGGATGAAGTTTGACGCACAAGG
TCATTTAAGGGCCATCAACCCAGAAAATGGCTTTTTCGGTGTGCTCCTGGGACTTCAGTGAAGACCAACCCCAA
TGCCATCAAGACCATCCAGAAGAACACAATCTTTACCAATGTGGCCGAGACCAGCGACGGGGCGTTTTACTGGGA
AGGCATTGATGAGCCGCTAGCTTCAGGTGTCACCATCACGTCTGGAAGAATAAGGAGTGAGCTCAGAGGATGG
GGAACCTTGTGCCACCCCAACTCGAGGTTCTGCACCCCTGCCAGCCAGTGCCCCATCATTGATGCTGCCTGGGA
GTCTCCGGAAGGTGTTCCCATTTGAAGGCATTATCTTTGGAGGCCGTAGACCTGCTGGTGTCCCTCTAGTCTATGA
AGCTCTCAGCTGGCAACATGGAGTCTTTGTGGGGGCGGCCATGAGATCAGAGGCCACAGCGGCTGCAGAACATAA
AGGCAAAATCATCATGCATGACCCCTTTGCCATGCGGCCCTTCTTTGGCTACAACTTCGGCAAATACCTGGCCCA
CTGGCTTAGCATGGCCAGCACCCAGCAGCCAAACTGCCCAAGATCTTCCATGTCAACTGGTTCCGGAAGGACAA
GGAAGGCAAATTCCTCTGGCCAGGCTTTGGAGAGAACTCCAGGGTGTGGAGTGATGTTCAACCGGATCGATGG
AAAAGCCAGCACCAAGCTCACGCCCATAGGCTACATCCCCAAGGAGGATGCCCTGAACCTGAAAGGCCTGGGGCA
CATCAACATGATGGAGCTTTTCAGCATCTCCAAGGAATTCTGGGAGAAGGAGGTGGAAGACATCGAGAAGTATCT
GGAGGATCAAGTCAATGCCGACCTCCCCTGTGAAATCGAGAGAGAGATCCTTGCCCTGAAGCAAAGAATAAGCCA
GATGTAATCAGGGCCTGAGTGCTTTACCTTTAAATCATTCCCTTTCCCATCCATAAGGTGCAGTAGGAGCAAGA
GAGGGCAAGTGTTCCCAAATTGACGCCACCATAATAATCATCACACACCGTGAGCAGATCTGAAAGGCACACTT
TGATTTTTTTAAGGATAAGAACCACAGAACACTGGGTAGTAGCTAATGAAATTGAGAAGGGAAATCTTAGCATGC
CTCCAAAATTACATCCAATGCATAGTTTGTTCAAATTTAAGGTTACTCAGGCATTGATCTTTTCAGTGTTTTT
TCACTTTAGCTATGTGGATTAGCTAGAATGCACACCAAAAAAATACTTGAGCTGTATATATATATGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGCATGTATGTGCACATGTGTCTGTGTGGTATATTTGTGTATGTGTATTTGT
ATGTACTGTTATTGAAAATATATTTAATACCTTTGGAAAAATCTTGGGCAAGATGACCTACTAGTTTTCTTGAA
AAAAAGTTGCTTTGTTATTAATATGTGCTTAAATTATTTTTATACACCATGTTCCCTTACCTTTACATAATTGC
AATATTTCCCCCTTACTACTTCTTGAAAAAAATTACAAAATGAAGTTTTATAGAAAAAG

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FIGURE 5822

MPPQLQNGLNLSAKVVQGSLDSLPPQAVREFLENNAELCQPDHIHICDGSEEENGRLLGQMEEEGILRRLKKYDNC
WLALTDPRDVARIESKTVIVTQEQRDTVP IPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRTMYVIPFSMGPLG
SPLSKIGIELTDSPIYVVASMRIMTRMGTPVLEAVGDGEFVKCLHSVGCPLPLQKPLVNNWPCNPELTLLIAHLPDR
REIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLILGITNPEGEKKYLAAAFPSACGKTNLAMMNP SL
PGWKVECVGDDIAWMKFDAQGHRLRAINPENGFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDE
PLASGVTITSWKNKEWSSEDGEPCAHPNRSRFTPASQCPI IDAAWESPEGVPIEGIIFGGRRPAGVPLVYEALSW
QHG VFVGAAMRSEATAAAEHKGKIIMHDPFAMRPFPGYNFGKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKEGKF
LWPGFGENSRVLEWMFNRIDGKASTKLTP IGYIPKEDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLEDOV
NADLPCEIEREILALKQRISQM

[illegible]

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FIGURE 5823B

ACTCCTGCTCCTCCAACCTTTTTTTGCCAAGGTTTGTACACGACTCCCATCTAGGCTGAAAACCTAGAAGTGGAC
CTTGTTGTGTGTGCATGGTGTGACCCCAAAGCCAGGCTGAGACAGTCCTCATATCCTCTTGAGCCAAACTGTTTGG
GTCICGTTGCTTCATGGTATGGTCTGGATTGTGGGAATGGCTTTGCGTGAGAAAGGGGAGGAGAGTGGTTGCTG
CCCTCAGCCGGCTTGAGGACAGAGCCTGTCCCTCTCATGACAACTCAGTGTTGAAGCCCAGTGTCCTCAGCTTCA
TGTCAGTGGATGGCAGAAGTTCATGGGGTAGTGGCCTCTCAAAGGCTGGGCGCATCCCAAGACAGCCAGCAGGT
TGTCTCTGGAACGACCAGAGTTAAGCTCTCGGCTTCTCTGCTGAGGGTGCACCCTTTCCTCTAGATGGTAGTTG
TCACGTTATCTTTGAAAACCTCTTGGACTGCTCCTGAGGAGGCCCTCTTTTCCAGTAGGAAGTTAGATGGGGGTTT
TCAGAAGTGGCTGATTGGAAGGGGACAAGCTTCGTTTTAGGGGCTGCGCTTCCATCCTGGTTTCAGAGAAGGCCG
AGCGTGGCTTTCTCTAGCCTTGTCAGTGTCTCCCTGCCTGTCAATCACCACTTTCCTCCAGAGGAGGAAAATTA
TCTCCCCTGCAAAGCCCGGTTCTACACAGATTTACAAATTGTGCTAAGAACCGTCCGTGTTCTCAGAAAGCCCA
GTGTTTTTTGCAAAGAATGAAAAGGGACCCCATATGTAGCAAAAATCAGGGCTGGGGGAGAGCCGGGTTTATTCCC
TGTCTCATTTGGTCGTCCCTATGAATTGTACGTTTCAGAGAAAATTTTTTTCCTATGTGCAACACGAAGCTTCCA
GAACCATAAAATATCCCGTCGATAAGGAAAGAAAATGTCGTTGTTGTTGTTTTCTGGAACTGCTTGAAATCTT
GCTGTACTATAGAGCTCAGAAGGACACAGCCCGTCCCTCCCTGCCTGCCTGATTCCATGGCTGTTGTGCTGATT
CAATGCTTTCACGTTGGTTCCCTGGCGTGGGAACTGCTCTCCTTTGCAGCCCCATTTCCAAGCTCTGTTCAAGTT
AACTTATGTAAGCTTTCGTGGCATGCGGGGCGCGCACCCACGTCCCCGCTGCGTAAGACTCTGTATTTGGATG
CCAATCCACAGGCCTGAAGAACTGCTTGTTGTGTATCAGTAATCATTAGTGGCAATGATGACATTCTGAAAAGC
TGCAATACTTATACAATAAATTTTACAATTCTTTGG

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FIGURE 5824

GCGCGCCACCCGGTAGAGGACCCCCGCCCCGTGCCCCGACCGGTCCCCGCCTTTTTGTAAACTTTAAAGCGGGCG
CAGCATTAAACGCTTCCCCGCCCCGGTGACCTCTCAGGGGTCTCCCCGCCAAAGGTGCTCCGCCGCTAAGGAAC**ATG**

GCGAAGGTGGAGCAGGTCTTGAGCCTCGAGCCGCAGCACGAGCTCAAATTCCGAGGTCCCTTCACCGATGTTGTC
ACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTACAGCACCACGTAGG
TACTGTGTGAGGCCCAACAGCGGAATCATCGATGCAGGGGCCTCAATTAATGTATCTGTGATGTTACAGCCTTTC
GATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTTCAGTCTATGTTTGCTCCAACCTGACACTTCAGAT
ATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACCTTATGGATTCAAACTTAGATGTGTGTTGAATTGCCA
GCAGAGAATGATAAACCACATGATGTAGAAATAAATAAAATTATATCCACAACCTGCATCAAAGACAGAAACACCA
ATAGTGTCTAAGTCTCTGAGTTCTTCTTTGGATGACACCGAAGTTAAGAAGGTTATGGAAGAATGTAAGAGGCTG
CAAGGTGAAGTTCAGAGGCTACGGGAGGAGAACAAGCAGTTCAAGGAAGAAGATGGACTGCGGATGAGGAAGACA
GTGCAGAGCAACAGCCCCATTTACAGCATTAGCCCCAACTGGGAAGGAAGAAGGCCTTAGCACCCGGCTCTTGGCT
CTGGTGGTTTTTGTCTTTATCGTTGGTGTAAATTATTGGGAAGATTGCCTTG**TAG**AGGTAGCATGCACAGGATGGT
AAATTGGATTGGTGGATCCACCATATCATGGGATTTAAATTTATCATAACCATGTGTAAAAAGAAATTAATGTAT
GATGACATCTCACAGGTCTTGCTTTAAATTACCCCTCCCTGCACACACATACACAGATACACACACACAAATAT
AATGTAACGATCTTTTAGAAAGTTAAAAATGTATAGTAACTGATTGAGGGGGAAAAAGAAATGATCTTTATTAATGA
CAAGGGAAACCATGAGTAATGCCACAATGGCATATTGTAAATGTCATTTTAAACATTGGTAGGCCTTGGTACATG
ATGCTGGATTACCTCTCTTAAATGACACCCCTCCTCGCTGTTGGTGCTGGCCCTTGGGGAGCTGGAGCCCAGC
ATGCTGGGGAGTGCGGTGAGCTCCACACAGTAGTCCCCACGTGGCCCACTCCCGGCCAGGCTGCTTTCCGTGTC
TTCAGTTCTGTCCAAGCCATCAGCTCCTTGGGACTGATGAACAGAGTCAGAAGCCCCAAAGGAATTGCACTGTGGC
AGCATCAGACGTACTCGTCATAAGTGAGAGGCGTGTGTTGACTGATTGACCCAGCGCTTTGGAAATAAATGGCAG
TGCTTTGTTCACTTAAAGGGACCAAGCTAAATTTGTATTGGTTCATGTAGTGAAGTCAAACCTGTTATTACAGAGAT
GTTTAATGCATATTTAACTTATTTAATGTATTTTCATCTCATGTTTTCTTATTGTCACAAGAGTACAGTTAATGCT
GCGTGCTGCTGAACCTCTGTTGGGTGAACTGGTATTGCTGCTGGAGGGCTGTGGGCTCCTCTGTCTCTGGAGAGTC
TGGTCATGTGGAGGTGGGGTTTATTGGGATGCTGGAGAAGAGCTGCCAGGAAGTGTCTTTCTGGGTCAGTAAAT
AACAACCTGTCATAGGCAGGGAAATTCTCAGTAGTGACAGTCAACTCTAGGTTACCTTTTTTAATGAAGAGTAGTC
AGTCTTCTAGATTGTTCTTATACCACCTCTCAACCATTACTCACACTTCCAGCGCCAGGTCCAAGTTTGAGCCT
GACCTCCCCCTTGGGGACCTAGCCTGGAGTCAGGACAAATGGATCGGGCTGCAAAGGGTTAGAAGCGAGGGCACCA
GCAGTTGTGGGTGGGGAGCAAGGGAAGAGAGAACTCTTCAGCGAATCCTTCTAGTACTAGTTGAGAGTTTGACT
GTGAATTAATTTTATGCCATAAAAGACCAACCCAGTTCTGTTTGACTATGTAGCATCTTGAAAAGAAAAATTATA
ATAAAGCCCCAAAATTAAGA

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FIGURE 5825

MAKVEQVLSLEPQHELKFRGPF TDVVTTNLKLGNP TDRNVCFKVKT TAPRRYCVRPNSGIIDAGASINVSVMLQP
FDYDPNEKSKHKFMVQSMFAP TDTSDMEAVWKEAKPEDLMDSKLRCVFELPAENDKPHDVEINKIISTTASKTET
PIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLRMRKTVQSNSPISALAPTGKEEGLSTRLL
ALVVLFFIVGVIIGKIAL

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FIGURE 5826

CTCGCCTCAGTCTCCTCTGTCCTCTCCAGGCAAGAGGACCGGCGGAGGCACCTCTCTCGAGTCTTAGGCTGCGG
AATCTAAGACTCAGCGAGAGGAGCCCGGGAGGAGACAGAACTTTCCCCTTTTTTCCCATCCCTTCTTCTTGCTCA
GAGAGGCAAGCAAGGCGCGGAGCTTTAGAAAGTTCTTAAGTGGTCAGGAAGGTAGGTGCTTCCCTTTTTCTCCTC
ACAAGGAGGTGAGGCTGGGACCTCCGGGCCAGCTTCTCACCTCATAGGGTGTACCTTTCCCGGCTCCAGCAGCCA
ATGTGCTTCGGAGCCGCTCTCTGCAGAGCCAGAGGGCAGGCCGGCTTCTCGGTGTGTGCCTAAGAGGATGATCG
GAGGTCCC GGCTCAGCAGTGGCGCCGAGCTCGCCATAATTACAACGACCTGTGCCCGCCCATAGGCCGCCGGGC
AGCCACCGCGCTCCTCTGGCTCTCCTGCTCCATCGCGCTCCTCCGCGCCCTTGCCACCTCCAACGCCCGTGCCCA
GCAGCGCGCGGTGCCCAACAGCGCCGGAGCTTCTTAACGCCACCACCGCTCCGGCGCCAGGTATTCCCTGA
GTCCCCGAATCGGAATCTGACCACGAGCAGGAGGAGGCAGACCTTGAGCTGTCCCTCCCCGAGTGCCTAGAGTA
CGAGGAAGAGTTCGACTACGAGACCGAGAGCGAGACCGAGTCCGAAATCGAGTCCGAGACCGACTTCGAGACCGA
GCCTGAGACCGCCCCACCCTGAGCCCGAGACCGAGCTGAAGACGATCGCGGCCCGGTGGTGCCCAAGCACTC
CACCTTCGGCCAGTCCCTCACCCAGCGTCTGCACGCTCTCAAGTTGCGAAGCCCCGACGCCTCCCCAAGTCGCGC
GCCGCCAGCACTCAGGAGCCCCAGAGCCCCAGGGAAGGGGAGGAGCTCAAGCCCGAGGACAAAGATCCAAGGGA
CCCCGAAGAGTCGAAGGAGCCCAAGGAGGAGAAGCAGCGGCGTCTGTCGAAGCCAAAGAAGCCACCCGCCGTGA
CGCGTCCCCGGAGTCCCTTCCAAAAAGGGACCCATCCCCATCCGGCGTCACTAATGAGGAGCGCGTCCAGATT
CTCCTTGTTTTCATGGATTGAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATGAGGATCCTGCAT
GTTAATGGGTTTTAATGGAGAGGGCGGCGAAGAGGACCCGCGAGGTGCAAGGAGCAACAGCGATGGCAGTGAGAAG
GCAACCAAAGTGAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATGAGCAACCTG
GTGCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCT
GACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCCTGTAC
GAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCT
GACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCCTGACTTCTGGAATCTTTGAGACCAAGTTCCAG
GTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTC
AACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACC
AACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATC
CTGTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCA
GAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAG
TACTTCATTTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCCTCATTTT
ACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGCGCATGCACCTT
CGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAAATTAATTAAGTGAA
ACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCCGAGTGA
TTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAA
AAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAAACAAATAAAA
TGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAATCAAAATAAAATTAATGTG
AGCAAAGAAAAAAA

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FIGURE 5827

MDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALLRALATSNARAQQRAAAQRRSFLNAHHRSGAQV
FPESPESESDHEHEEADLELSLPECLEYEEEFDYETESETESEIESETDFETEPETAPTTEPETEPEDDRGEVVP
KHSTFGQSLTQRLHALKLRS PDASPSRAPPSTQEPQSPREGEELKPEDKDPRDPEESKEPKEEKQRRRCKPKKPT
RRDASPESPSKKGPIPIRRH

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FIGURE 5828

ATGCAGGCCTTGAGGCTTCGGCCAGCACTCATGGAGCCCGGAGCCTTCAGTGGTGCCAGACCAGGCCTGGGAGGA
TACAGCCCTCCACCAGAAGAAGCTATGCCCTTTGAGTTTGACCAGCCTGCCCAGAGAGGCTGCAGTCAACTTCTC
TTACAGGTCCCAGACCTTGCTCCAGGAGGCCAGGTGCTGCAGGGGTCCCCGGAGCTCCTCCCGAGGAGCCCCAA
GCCCTCAGGCCTGCAAAGGCTGGCTCCAGAGGAGGCTACAGCCCTCCCCCTGAGGAGACTATGCCATTTGAGCTT
GATGGAGAAGGATTTGGGGACGACAGCCCACCCCGGGGCTTTCCCGAGTTATCGCACAAAGTCGACGGCAGCAGC
CAGTTCGCGGCAGTCGCGGCCCTCGAGTGCAGTCCGCCTCACTCCCGCCGCGAACGCGCCTCCCTCTGGGTCCCA
GGCGCCATCGGCAGCCCATCCCAAGAGGCTGTCAGACCTCCTTCTAACTTCACGGGCAGCAGCCCCTGGATGGAG
ATCTCCGGACCCCCGTTTCGAGATTGGCAGCGCCCCGCTGGGGTGCAGCAGACTCCCGTCAACATGGACAGCCCC
CCAATCGCGCTTGACGGCCCGCCCATCAAGGTCTCCGGAGCCCCAGATAAGAGAGAGCGAGCAGAGAGAGACCCCCA
GTTGAGGAGGAAGCAGCAGAGATGGAAGGAGCCGCTGATGCCGCGGAGGGAGGAAAAGTACCCTCTCCGGGGTAC
GGATCCCCCTGCCGCCGGGGCAGCCTCAGCGGATACCGCTGCCAGGGCAGCCCCCTGCAGCCCCAGCCGATCCTGAC
TCCGGGGCAACCCCAGAAGATCCCGACTCCGGGACAGCACCAGCCGATCCTGACTCCGGGGCATTTCGACGCCGAT
CCCGACTCCGGGGCAGCCCCCTGCCGCCCAGCCGATCCCGACTCCGGGGCGGGCCCTGACGCCCCAGCCGATCCC
GACTCCGGGGCGGGCCCTGACGCCCCAGCCGATCCAGATGCCGGGGCGGGCCCTGAGGCTCCCGCCGCCCTGCG
GCTGCTGAGACCCGGGCAGCCCATGTCGCCCCAGCTGCGCCAGACGCGAGGGGCTCCCACTGCCCCAGCCGCTTCT
GCCACCCGGGCAGCCCAAGTCCGCCGGGCGGCCTCTGCAGCCCTGCCTCCGGGGCCAGACGCAAGATCCATCTC
AGACCCCCCAGCCCCGAGATCCAGGCTGCCGATCCGCCTACTCCGCGGCCCTACTCGCGCGTCTGCCTGGCGGGGC
AAGTCCGAGAGCAGCCGCGGCCGCCGCGTGTACTACGATGAAGGGGTGGCCAGCAGCGACGATGACTCCAGCGGA
GACGAGTCCGACGATGGGACCTCCGGATGCCTCCGCTGGTTTCAGCATCGGCGAAATCGCCGCCGCCGAAAAGCCC
CAGCGCAACTTACTCCGCAACTTTCTCGTGCAAGCCTTCGGGGGCTGCTTCGGTTCGATCTGAGAGTCCCCAGCCC
AAAGCCTCGCGCTCTCTCAAGGTCAAGAAGGTACCCCTGGCGGAGAAGCGCAGACAGATGCGCAAAAGAACCCCTG
GAGAAGCGGGCCCAGAAGCGCGCAGAGAAGAAACGCAGTAAGTTCATCGACAAACAACCTCCAGGACGAAAAGATG
GGCTACATGTGTACGCACCGCCTGCTGCTTCTAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATG
AGGATCCTGCATGTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGCGAGGCTGCAAGGAGCAACAGCGAT
GGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATG
AGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTTCAGAGTGGACTACATCCTGAGTGTGATG
AACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCT
GCCTGTCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTTGACAAGATCGACGTGATC
AAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCTGACTTCTGGAATCTTTGAGACC
AAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATC
CAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGAC
AACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATC
TCTGTGATCCTGTTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCTTGCTGGGAAATCGAAGATTGAGGAC
TACTTTCCAGAATTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACC
CGGGCCAAGTACTTCATTGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTAC
CCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGCGC
ATGCACCTTCGTGAGTACGAGCTGCTCT**TAAGA**AGGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAATTAATT
AAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCC
CCCGAGTGATTTTGCGAAACCCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAAGCTTAAGGCGGC
CTACAGAAAAAGGAAAAAGGCCACAAAAGTTCCCTCTCACTTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAA
CAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAATAAAAAATCAAAATAAAAA
TTAAATGTGAGCAAAG

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FIGURE 5829

MQALRLRPALMEPGA FSGARPG LGGYSP PPEEAMPFEFDQPAQRGCSQ LLLQVPDLAPGGPGAAGVPGAPPEEPQ
ALRPAKAGSRGGYSPPPEETMPFELDGEFGDDSPPPGLSRVIAQVDGSSQFAAVAASSAVRLTPAANAPPLWVP
GAIGSPSQEAVRPPSNFTGSSPWMEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPP
VEEEAAEMEGAADAAEGGKVPSPGYGSPAAGAASADTAARAAPAAPADPD SGATPEDPD SGTAPADPD SGAFAD
PD SGAPAAPADPD SGAPDAPADPD SGAPDAPADPDAGAAPEAPAAPAAAETRAAHVAPAAPDAGAPTAPAAS
ATRAAQVRRASAAPASGARRKIHLRPPSPEIQAADPPTPRPTRASAWRGKSESSRGRVYYDEGVASSDDDDSSG
DESDDGTSGCLRWFQHRNRNRRRK PQRNLLRNFLVQAFGGCFGRSESPQPKASRSLKVKKVPLAEKRRQMRKEAL
EKRAQKRAEKKRSKLIDKQLQDEKMGYMC THRLLLGAGESGKSTIVKQMRILHVNGFN GEGGEEDPQAARSNSD
GEKATKVQDIKNNLKEA IETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVR
ACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFMDVGGQDERRKWI
QCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAGKSKIED
YFPEFARYTTPE DATPEPGEDPRVTRAKYFIRDEF LRISTASGDGRHYCYPHFTCAVD TENIRRVFNDCRDI IQR
MHLRQYELL

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FIGURE 5830

CCGCCGCCGCCGCAGCCCGGCCGCGCCCCGCCGCCGCCGCCGCCATGGGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGAGGGCGGCCGAAGAGGACCCGCAGGCTGCAAGGAGCAACAGCG
ATGGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCA
TGAGCAACCTGGTGCCCCCGTGAGCTGGCCAACCCCGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGA
TGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGC
GTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCCAGTACTTCCCTGGACAAGATCGACGTGA
TCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCCTGACTTCTGGAATCTTTGAGA
CCAAGTTCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGA
TCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGG
ACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCA
TCTCTGTGATCCTGTTCCCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGG
ACTACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGA
CCCGGGCCAAGTACTTCATTTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCT
ACCCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGC
GCATGCACCTTCGTACGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAAATTAA
TTAAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAAACAAAGCAACCTTTCCCTT
CCCCCGAGTGATTTTGCGAACCCCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCG
GCCTACAGAAAAAGGAAAAAGGCCACAAAAGTCCCTCTCACTTTAGTAAAAATAAATAAAACAGCAGCAGCA
AACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAATAAAAAATCAAATAAA
AATTAAATGTGAGCAAAG

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FIGURE 5831

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNNEGEGGEE
DPQAARSNSDGEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHA
KALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSQDLLRCRVLTSGIFETKFQVDKVNFMFDVG
GQDERRKWIQCFNDVTAIIFVVASSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEK
VLAGKSKIEDYFPEFARYTTPEDATPEPGEDPRVIRAKYFIRDEFRLRISTASGDGRHYCYPHFTCAVDTENIRRV
FNDCRDIIQRMHLRQYELL

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FIGURE 5832

CCGCCGCCGCCGAGCCCGGCCGCGCCCCGCCGCCGCCGCCGCCATGGGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGACAGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAAACAACC
TGAAAGAGGCGATTGAAACCATTGTGGCCGCCATGAGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCCGAGA
ACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGC
ATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACT
GTGCCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTC
GCTGCCGTGTCTGACTTCTGGAATCTTTGAGACCAAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACG
TGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGG
CCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCA
AGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATCCTGTTTCTCAACAAGCAAGATCTGCTCGCTG
AGAAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATG
CTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAGTACTTCATTTCGAGATGAGTTTCTGAGGATCA
GCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCC
GTGTGTTCAACGACTGCCGTGACATCATTACGCGCATGCACCTTCGTACGTACGAGCTGCTCTTAAGAAGGGAACC
CCCAAATTTAATTAAAGCCTTAAGCACAAATTAATTAAGTGAACGTAATTGTACAAGCAGTTAATCACCACC
ATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCCGAGTGATTTTGCGAACCCCCCTTTCCCTTCAGCTTG
CTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGCCTACAGAAAAAGGAAAAAGGCCACAAAAGTTCCCTCTCA
CTTTCAGTAAAAATAAATAAAACAGCAGCAGCAACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATT
GTGTTGTGCAGCATTAAAAAAAATCAAAATAAAATTAATGTGAGCAAAG

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FIGURE 5833

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFN₁GDSEKA
TKVQDIKNNLKEA₂IETIVAAMS₃NLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVRAC₄YE
RSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVGGQDERRKWIQCFN₅
DVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAGKSKIEDYFPE₆
FARYTTPEDATPEPGEDPRVTRAKYFIRDEF₇LRISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDI₈IQRMH₉LR
QYELL

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FIGURE 5834

GGGGTCGGCCGGGTGCTGGGCCGAGGCCGAGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGAC
TCGGAGCGGGATCCGGAGCGGGACCCAGGAGCCGGCGCGGGGCCATGGCGAGGCGCGGGCCAGGGTGGCGGGCCGC
TTCTGCTGCTCGTGCTGCTGGCGGGCGCGGCGCAGGGCGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGC
CTCTGCGGGGGGACGGGCTGGCTCCGCTGGGGCGCAGCACATACCCCGGCCTCATGAGTACCTGTCCCCAGCGG
ATCTGCCCAAGAGCTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATCACCCGGAACCAGCACATCC
CCCAATACTGCGGCTCCTGCTGGGCCACGCCAGCACCAGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGG
GAGCGTGGCCCTCCACCCTCCTGTCCGTGCAGAACGTTCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGTA
ATGACCTGTCCGTGTGGGACTACGCCACCAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGG
ACCAGGAGTGTGACAAGTTTAACCAATGTGGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACCTACA
CCCTCTGGAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTATGCAAAATGGTC
CCATCAGCTGTGGAATAATGGCAACAGAAAGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACA
CCACATATATAAAACCATGTCGTTTCTGTGGCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGA
ATTCATGGGGTGAACCATGGGGCGAGAGAGGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCG
CCAGATACAACCTTGCCATCGAGGAGCACTGTACATTTGGGGACCCCATCGTTTTAAGGCCATGTCACTAGAAGCG
CAGTTTAAAGAAAAGGCATGGTGACCCATGACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGA
ACTGGGGTGGCTATCAATATTGGATGGCGAGGACAGCGTGGCACTGGCTGCGAGTGTTCTGAGAGTTGAAAGTG
GGATGACTTATGACACTTGACAGCATGGCTCTGCCTCACAAATGATGCAGTCAGCCACCTGGTGAAGAAGTGACC
TGCGACACAGGAAACGATGGGACCTCAGTCTTCTTCAGCAGAGGACTTGATATTTTGTATTGGCAACTGTGGGC
AATAATATGGCATTTAAGAGGTGAAAGAGTTCAGACTTATCACCATTCTTATGTCACCTTTAGAATCAAGGGTGGG
GGAGGGAGGGAGGGAGTTGGCAGTTTCAAATCGCCCAAGTGATGAATAAAGTATCTGGCTCTGCACGAG

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FIGURE 5835

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRNV DGVN
YASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQH GIP
DETCNNYQAKDQECDFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYAEYQDTTYINHVVS VAGWGISDGT EYWIVRNSWGEPWGERGWL RIVTSTYKDGKGARYNLAIEEHCTFGD
PIV

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FIGURE 5836

CGGGTAGCGCGCTCTGAAAGTTTATGACCGCCGCAGCCAACTCCTGGCCGGAGCTGGAGACGCAGCGAGCGATCG
GCCGGCCTCGAACCCCCACAGCTGGAGGGCGAGGCCAGCTGTACCCGGCCCCAGTGCCCTTTTCGCGGCCACAAGC
GGCCGTCTCTGTTCCGGTGCTCCGGCGCCTGATCTAGGTTT**ATG**AGCCGGGGCTGTGGCTCCTTTTCGGGCT
CACAGTGACCTCCGCCGCAGGATTCTGTGCCTTGCTCCCAGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCCAGGC
CCCCACTGCAGCCAGATCTGAGGGGGACTGTGAAGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCCC
TGGCGAGGGGACTGTGGCCCCGACAGCACTGCAGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGA
GGGGGCCCCCTGAGCACCACCGATCCAGGCGCTGCACGTGCTTACCTACAAGGACAAGGAGTGTGTCTACTATTG
CCACCTGGACATCATTGGATCAACACTCCCGAACAGACGGTGCCCTATGGACTGTCCAACACTACAGAGGAAGCTT
CCGGGGCAAGAGGTCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCCTGCGCTTG
TGTGGGGAGATATGACAAGGCCTGCCTGCACTTTTGCACCCAAACTCTGGACGTGAGCAGTAATTCAAGGACGGC
AGAAAAAACAGACAAAGAAGAGGAAGGGAAGGTTGAAGTCAAGGACCAACAAAGCAAGCAGGCTTTAGACCTCCA
CCATCCAAAGCTCATGCCCGGCAGTGGACTCGCCCTCGCTCCATCTACCTGCCCGCGCTGCCTCTTTTCAGGAAGG
AGCCCC**TAG**GAGGACAGGCCTGCAGCTCCAATTTTCATGCAGGAAATTGGTTTTGGAGAGTTTTGGCAAGTTGGA
AAGCCACTTACTGGCTTTTGACATGACTTCTCTTGGAGAATAAGTGGACTCCAAGCTAACTCTTTGCAAAATGTAA
ACACATGTCCATCTTGTTAATAAATGCAAAATGCCCGTGCAGCAGAAGCATGCGACTTTTCATATCCTTGCCTAGA
ATAGGCTGCATGGTGTATGTCAGTGAGGGCCACGAGGCGTCGGCTTTAGACACAGATCATAGCTCTACAGGAGTT
TATGAATTTGAAGCTTATGGGATTTTGGCAGAGAAATTTTCAGCTGTGCTTGATACCCACCAAAAGAATGTATCT
CGAAAGAATGAAGGAAGAAGAAAAAGGATCCTTGATGTTTGTGACAAGAAAATGAGAAAGTTAGTATCTGCAAT
ACAGAGCTTGTTCTGTTCACTGACTGACCTCTGTATTCTGTATAGACACCAGGCCGATACACAGTGGAGTTCC
CAGGCCTTGTTTGCAGGAAGCCGACTGTAAAGACAGCCCCAGCTCAAGGCTATTAGGTTGAATATTTGCTTTTCAT
GAGTAAATGTGGATCTTTGGGGAATGGCTTCAAAATAAGTCACGAACACAAATTCCTTTGTAAATTATGTAAATTC
CTGTTTATATAAATTGGCAACAACTTATACCGTCTGACAGTTCAAAATCTCTTTTCAGCTGCGCTCTTCCCACCGA
GCCGAGCTTACTGTGAGTGTGGAGATGTTATCCACCATGTAAAGTCGCCTGCGCAGGGGAGGGCTGCCCATCTC
CCCAACCCAGTCACAGAGAGATAGGAAACGGCATTGAGTGGGTGTCCAGGGCCCCGTAGAGAGACATTTAAGAT
GGTGTATGACAGAGCATTGGCCTTGACCAAATGTTAAATCCTCTGTGTGTATTTTCATAAGTTATTACAGGTATAA
AAGTGATGACCTATCATGAGGAAATGAAAGTGGCTGATTTGCTGGTAGGATTTTGTACAGTTTAGAGAAGCGATT
ATTTATTGTGAACTGTTCTCCACTCCAACCTCTTTATGTGGATCTGTTCAAAGTAGTCACTGTATATACGTATA
GAGAGGTAGATAGGTAGGTAGATTTTAAATTGCATTCTGAATACAACTCATACTCCTTAGAGCTTGAATTACAT
TTTTAAATGCATATGTGCTGTTTGGCACCGTGGCAAGATGGTATCAGAGAGAAACCCATCAATTGCTCAAATAC
TCAGAAAGTACTGTCAAAGCCTAATAAAAAACCTAAAGTTTGCTCTG

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FIGURE 5837

MEPGLWLLFGLTVTSAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTALQGPS
PGSPGQEQAAEGAPEHHRSSRRTCTFTYKDKECVYYCHLDIIWINTPEQTVPYGLSNYRGSFRGKRSAGPLPGNLQ
LSHRPHLRCACVGRYDKACLHFCTQTLDVSSNSRTAEKTDKEEEGKVEVKDQQSKQALDLHHPKLMFGSGLALAP
STCPRCLFQEGAP

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FIGURE 5838

GGCACGAGGCGGCGCCCGCCGGCATGAGCTACGACCGCGCCATCACCGTCTTCTCGCCCGACGGCCACCTCTTC
CAAGTGGAGTACGCGCAGGAGGCCGTCAAGAAGGGCTCGACCGCGTTGGTGTTTCGAGGAAGAGACATTGTTGTT
CTTGGTGTGGAGAAGAAGTCAGTGGCCAACTGCAGGATGAAAGAACAGTGCGGAAGATCTGTGCTTTGGATGAC
AACGTCTGCATGGCCTTTGCAGGCCTCACCGCCGATGCAAGGATAGTCATCAACAGGGCCCGGGTGGAGTGCCAG
AGCCACCGGCTGACTGTAGAGGACCCGGTCACTGTGGAGTACATCACCCGCTACATCGCCAGTCTGAAGCAGCGT
TATACGCAGAGCAATGGGCGCAGGCCGTTTGGCATCTCTGCCCTCATCGTGGGTTTCGACTTTGATGGCACTCCT
AGGCTCTATCAGACTGACCCCTCGGGCACATAACCATGCCTGGAAGGCCAATGCCATAGGCCGGGGTGCCAAGTCA
GTGCGCGAGTTCCTGGAGAAGAAGTATACTGACGAAGCCATTGAAACAGATGATCTGACCATTAAGCTGGTGATC
AAGGCACTCCTGGAAGTGGTTCAGTCAGGTGGCAAAAACATTGAACTTGCTGTTCATGAGGCGAGATCAATCCCTC
AAGATTTTAAATCCTGAAGAAATTGAGAAGTATGTTGCTGAAATTGAAAAAGAAAAAGAAGAAAACGAAAAGAAG
AAACAAAAGAAAAGCATCATGATGAATAAAATGTCTTTGCTTGTAAATTTTAAATTCATATCAATCATGGATGAGT
CTCGATGTGTAGGCCTTTCCATTCCATTTATTCACACTGAGTGTCTACAATAAACTTCCGTATTTTT

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FIGURE 5839

MSYDRAITVFSPDGHLFQVEYAQEAVKKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVRKICALDDNVCMAFAG
LTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQSNRRPFGISALIVGFDFDGTPLRYQTDPS
GTYHAWKANAIGRGAKSVREFLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKIILNPEEI
EKYVAEIEKEKEENEKKKQKKAS

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FIGURE 5840A

GCAGCCGGAGTATCCACCTCGATGACCACGGGCTGAGCCCCGCGCCGCCACCATGTCCGTGGCCTTCGCGTCTGC
CCGGCCAAGAGGCCAAAGGGGAGGTTACGCAGCAAACCATCCAGAAGATGCTGGACGAGAACCACCACCTGATCCA
GTGCATCCTGGAGTACCAGAGCAAGGGCAAGACGGCCGAGTGCACGCAGTACCAGCAGATCCTGCACCGGAACCT
GGTATACCTGGCCACGATCGCAGACTCCAACCAGAACATGCAGTCCCTGCTTCCTGCCCCGCCCACGCAGAACAT
GAACCTGGGCCCCGAGCCCTGACTCAGAGCGGCTCCAGCCAGGGCCTGCACTCTCAGGGCAGCCTGAGTGACGC
CATCAGCACGGGCCCTGCCACCCTCCTCCCTCCTGCAGGGCCAGATTGGCAACGGGCCGAGCCACGTGTCCATGCA
GCAGACGGCGCCTAACACGCTGCCACCACCTCCATGAGCATCTCTGGGCCCGGCTACAGCCACGCGGGACCCGC
CTCGCAGGGCGTCCCCATGCAGGGGCAAGGCACCATCGGCAACTACGTGTCTCGGACCAACATCAACATGCAGTC
CAACCCAGTCTCCATGATGCAGCAGCAGGCGGCCACGTGCACTACAGCTCGGCGCAGGGCGGCAGCCAGCACTA
CCAGGGCCAGTTCGTCCATCGCCATGATGGGGCAGGGCAGCCAGGGGAGCAGCATGATGGGGCAGCGGCCCATGGC
GCCCTACCGGCCCTCCCAGCAAGGCTCTTCCCAGCAGTACCTGGGCCAGGAGGAGTACTATGGCGAGCAGTACAG
CCACAGCCAGGGCGCCGCGGAGCCCATGGGCCAGCAGTACTACCCCGACGGCCATGGCGATTACGCCTACCAGCA
GTCATCCTACACGGAGCAGAGCTACGACCGGTCTTTCGAGGAGTCCACGCAGCACTACTATGAGGGGGGAAACTC
CCAGTACAGCCAGCAGCAGGCGGGTACCAGCAGGGTGGCGCGCAGCAGCAGACGTACTCCCAGCAGCAGTACCC
CAGCCAGCAGAGCTACCCCGGGCAGCAGCAGGGCTACGGGTCTGCCAGGGAGCCCCGTACAGTACCCCGGCTA
CCAGCAAGGCCAAGGCCAGCAGTACGGAAGCTACCGAGCACCGCAGACAGCGCCGTCTGCCAGCAGCAGCGGCC
CTACGGCTATGAACAGGGCCAGTATGGAATACCAGCAGTAAAGGGACACACATTCTGGCTGGAGCCCTTGTGGT
AGCGTGTTTCATCCAGGGGCCGATGGGCTGGCGGCAGCTCTGGTGAATTGTGACATGTTGGTTACCTGTTTCGCC
AGTGCCACGTCTGCATGTGAAGCGTGCTCATTTCATGCTGGGTATGACGCCGAGCGCACACCACTGGCGTGAGAC
AGCGCTTGGTGGTGTGATACCTTTGGTGCTGTGTATAGTATTGTATGTCGGTACACGGAGAGGTATCCTTTTTTT
GTCCCCCGCCCCCTTCTCAATGTTTCTAGCTAGCTTTGGGGTTCATTTTGTTCATCAGAGCATTCTGTGCCAGGG
ACAGGACAGATCTCGAGGACACCACAGTCCACCTGTTCCCGTCAACAGACGTTAGGTCTCATTTCCTCCTCATG
CAGTGTGTAGTGTGGGTTGTCAACTTTTCTTAACTGGCTACGCCACAGCTGGACACACATGCAGCCCCCTGGAG
GGCAGCCTCTTCCGTGTGCCTCGATGGGGTGGGTGGGAGGGCATCTTCTGTGCGTTGGGTGAGTTTCTGTTACGTA
ACGAAAAGGATAAACATCTCCACGGGAGAGGCCACAGATGGCCACTTCCAGAGCTTGCCATTGCCTGTCTCTC
GCCAATTCCGTTTATCCAAAAGGTACATGTTTTTGTATTAAAAAGTAAACAGGGATCAGTGACTGTATTCCAAA
TAAATATGAATCCCTAAGGGCCGTGGACAAATTGCCTAACCCAGGGCCAGCGGTATTGCTGAAGGAAAGGGGCAG
CTCTCTGGGAAGTGGGCCCTCAGAGATTACTCTGGCTTTGACCCTTGTTTAGCTGATGGTCATTTCTGGGATTGG
AATATTTAATAAGCCCAATTCTAAGTTGATAGGTAATTTTAAATATTCAAACCAATCTTCCCAACAGTTGGCAA
GTTGTTTATTTTATATTATTTCTTCCAGGACCTACTTGCTCAGATCTCCAAGCAAGCATTCTTTTCTTTTAGGG
ATGTCTGAAAGTCACATCCAGTTACATTACTGTGTTCTTTCTAATGAAAAGTAAAGGTTTTATATAGAGAACTT
GAGTAATTTTTACATTTCTAAGACATTAAATCCCATTTAAATTCTGTGTGAACATTAAAGACAGCACACTTGCAA
AAGTATGGTCAAAGGAAAAAATCCACATTTCAATTAACAAGTAGCATGGACATTTGATCAACCTTTAGTTGGA
ATAATAATATTCATATTGCTATGAATCCTTTTAAAAAATCTTTGGATAAATGCTGACAGATTTCCAAGAACTA
CCAAGAAAATACAAGAGATATCCAATGCTTGATATATGAGGCCTAGTAATAACGATATTTCTCTTTAATTGATGT
TTTGTTTTAAAAGTTAAAAGTAATTCTTGGCGTGGTGGTTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAAG
CGGGCGGATCACCTGAGGTCGGGAGTTTCGAGACCAGCCTGACCAACATGGAGAAACCCCGTCCCTACTAAAAATA
CAAAATTAGCCAGGTATGGTGGTGCATACCTGTAATCCCAGCTACTCGGGAACCTGAGGCAGGAGAATGGCTTGA
ACCCAGGAGACAGAGGTTGTGGTGGGGCAAGATCGCACCATTGCACCCGAGCCTAGGCAACAAGAGTGAAATTCC
GTCTCAAAAAAATAAATAAATAAATAAATAAAGTTAAATTAATTCTTTATCCAGAGTCGGGTGCTTTAGAA
TTTATAAGTCACTTATGTGTTTTGCTTGAATTAATTCTGACAGCCCCTATGAGGAAATCTGGAGGCAGGTAACAG
TTCCATTTTAGAGATGAAGAACTGAGGCACAGATTAAAGGACTTGCCGTGTGTTGAATACCAGTCTGTCTAGG
ACATTCTCCCCTCTCCTAGGAGACGGATGTCACGCACAAATGGGGAGAGAAGTGTATTTTGTAGGCCTAAGG
GTTTCTAAAACCTTAACACTGGTAAGGGCTCAAAAATAAACGTATGTGTTTCATATTTCGATACCGAAATGAGAG
TTCTTAATTGCTAATTGACAAACGCGTTAGCAATTTTCAGTTAGGGAGTCATCTCCCTTGATTGTGTTCTTTTCT
GTCAATTTTTCATAGACCTAATTTGCAAACTCAATCGGGGACTAAAATTTCCCACTGAAAATGTTAAACATTTTAG
ATAACTGTGAAGATAGTTTTATTTTTATTCCTTGCCAATCTGGGAATATGCCTTTTTTGTGTGTTTGTGTGTTTT
TTAAGTGCTGTATTAATAATACTTTCTGAAAGAAAAGGACACTTACCCAAAACCTTCAATCTGAAATGTCTTACA

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FIGURE 5840B

TTAAGAATATCTTGAATGTTGTGTATATATTTTAAAAAGCACTTTGCAAAATAGTTTGTACATTTATTTCTAAT
TTATACATGATTTTTGGTGTTAATATATTTAATGATTAATAACAGAATGTTTATTTAATGTGCTGTCCATTTTTA
TGTAATATTATGGGGAAAGTGATGCCAGCAGTTCCTTTTCATTATTCTATCTTCTGTCATATGAATGTTGAGCAA
AGCTTAGGCCAACATGAATTGTTTGTGAAGTGTGGTTGATGGTGCTTTGTTTTTTTCTGACTACTTCTATGGAAG
GCCAGTGAAGAAGCAAAGGAAGACATGAAAATTGACGCTCATTCTTCTTCCTATTGTTCCCTGACATCCAGCAAA
TTGTGAATTTGAAAAATGATGGCCAGTTTTTCAGAAAGTGCTGACAAATTCATATTGGTATGCAAAAGCTCATCACC
CATTAAGGTTTGTGTTGAATCAACAGTACTCAGCATATTTAAACAGTACATCAGAACTCATGCCAACAGTCTTT
ATGATGGGATTAAGGTGGACAAGATCTCCTAAGATCTGTGAATGGGATTAAGGTGGACAAGATCTCCTAAGATCT
GAAAAGAAACCTTAATACGCTCATATGGTTGGAGTGTTAAGTGAACCTCTGATTTTGTGAGGGTTTTTCTACGTG
TAGGCGTGAATAGGGGGCACCCCTTCAAAACTGTACAAAGAAGACGACTGTTTTCCATTTCCATTTAAACATTTT
TAGCCACTTCATTTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGTACAGTACATTTAAAAACA
TCCTTATCGGTTATTTTTTTTTTTCAGTCGGAGTTTGACGTATAAATTGTTTATGCTTTTGGTGTAATCTCTTAATA
AACTGGTTCTTCAAAAATC

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FIGURE 5841

MSVAFASARPRGKGEVTQQTIQKMLDENHHLIQCILEYQSKGKTAECTQYQQILHRNLVYLATIADSNQNMQSLL
PAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQGQIGNGPSHVSMQQTAPNTLPTTSMSISGP
GYSHAGPASQGVPMQGGGTIGNYVSRTNINMQSNPVSMMQQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGS
MMGQRPMAPYRPSQQGSSQQYLGQEYYGEQYSHSQGAAEFMGQQYYPDGHGDYAYQQSSYTEQSYDRSFEESTQ
HYYEGGNSQYSQQQAGYQQGAAQQQTYSQQQYPSQQSYFGQQQGYGSAQGAPSQYPGYQQGQGGQQYGSYRAPQTA
PSAQQRPHYGYEQGQYGNYYQ

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FIGURE 5842

GGGGCCATGGCACCTGCAAGGTGTTTCTCAGCAAGATTGAGGACCGTGTTTCAGGGCGTGGGGCATTGGGGCTTTG
TCCACATGGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGGCTTCTCCCAGGCTGCTCTCGGTTCGGCCGT
GCGGACCTCGCCAAGCATCAGGAACTCCCGGGGAAGAAGCTGCTCTCTGAGAAAAAGCTGAAAAGGTACTTTGTG
GACTATCGGAGAGTGCTTGTCTGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACAGTGAGCCCCGCAAG
GAGTTTGGAGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTGACCAGCAAGTCAAG
TCCCTGTCGTGGTCTGTCTCGCGGTACCAGGGTTTCAGTGGAGAAGATGGAGGGAGTAAAACTGCTTCGGGCGC
AGTGGCGCCGTCTCTACATCCGGGTCCCCGTGGGCACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTG
TCTTGGCTGGGAGATGAGTACATTGCCGCGCTGGGCGGGGCAGGAGGGAAAGGCAACCGCTTCTTCTGGCCAAC
AACAACCGTGCCCTGTGACCTGTACCCCTGGACAGCCAGGACAGCAGCGAGTTCTCCACCTGGAGCTCAAGACG
GTGGCCACGCCGGAATGGTGGGATTCCCCAACGCCGGGAAGTCTCTACTGCTCCGGGGCATTTCAAACGCCAGA
CCCCCGCTGGCTTCTTACCCGTTTACCACCCTGAAGCCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAA
ATAGCAGTGGCCGACATCCCCGGCATCATAAGAGCGCCACCAGAACAGGGGTCTGGGGTCCGCTTCTCTCAGG
CACATCGAGCGCTGCCGCTTTCTCTTGTTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAAGTTGACGAT
TTAAAAATATGAAGTGGAGATGTATGAAAAGGGCCTGTCTGCGAGGGCCCCACGCAATCGTCGAAAACAAGATTGAC
CTCCCTGAAGCCCAAGCCAATCTGTCCAGCTCCGGGATCACTTGGGACAGGAGGTTCATCGTGTCTGCGCGTTG
ACCGGCGAGAACCTGGAGCAGCTGCTGTTGCACCTGAAGGTGCTGTATGACGCCTACGCGGAGGCCGAGCTGGGC
CAGGGCCGCCAGCCGCTCAGGTGGTAGCCACGCCAGAGCGGGGTGCGCTCTGGGCCTCTGTCTGAGCAAACTGG
GTGTGAATTCGGTGGTTTTGAATGCATAAAGTGCCCTTGTGGACACGGGGGAGTTGTGGTGCTTCTGGGTCTCTGG
GCCCCGCTGCTGGCCTGAGATGCCCTCATGTTGGGAAGCATTCCGTGCCCCCTACCCCGCTGCCCTCCGTATT
TCCTGCACCTGTCAGCCTGCACCGACTGATGAGCCAGTTGCTCATTGTGTCTGATTAACACCCCTAATAAGGGGT
TGGGGTGGCCATAACGGGGTGGCCCTGCCGCTGACTCAGGTCTCCGCCATGCACGCGTGGAAGTCTCTCGGATGAGCT
CAGCAGAACCACAGCCAGAGCCCCAGGTGAGAAGTGCAGACCAGGGTTCTCAGCACAGTGCCCGTCTGTCTTC
CATGGCTTGCTACGGAGAGAGACCTCTGGATCCACACTGGGGCTGCGTCTGGCCGTTGTCCAGCAGCCCTGCGG
TACCGCAAGCCCAGGCACCAAGTGTCTCGGGGGGCTCACTGCTGCGCAAGGGGTGGGGCCGAGGATGCAAGTCCA
GGCAGAGCGGCGCAGGCAGCTGTGAGCTTTTCTCCATCAGCCGTCTGAGAAGAGCAGTGAGGCCAGCTGCTTCTCT
GTCCTTCAGAACACTTCTCTGTGCTCAGTGGGAGCCAGGAAGCCTCAGGCTTCACGACTGAATGCACCCAATATC
CGACCTGGCTGCGTGTCTTCTGGCTGGGCTGCCGTGTGCACAGCAAGTTAACTAGAGGGGCTGTGGGCCATGGAAC
TGTCAGCGTTATTCTCAGAAGGCGGCCGTGGCATGGGCAGGGTATAGTGAGGAGTGGAAGGAGACGTGTGCCTGG
TAATATGGGGCGGAATTTCCACTCAGCTCCATTGCTGGGGATTTAAAGAGAACCCCTTGTGCTACGCCAGGCAGT
TACCGAGCCGAAGGGAGATGATGGGCCTTCGCCCCCTCAGTGGGATGGCAGCTGAGGGGGCCCTGCATTTGACCGT
CGAGACTGCAGCAGCGCCTTTCTGTCTGTGGTTTAAAGTCTTTCAGTCAAGTACTGATGCATCCAAGCCAGGCC
CATGCCTGGTGTCTCCCTGACTGCAGAGGAGCCCCAGGGCAAGGACAGCTCAGCTGCTGGCAGCCTGCCTGGCCC
ATAGACATCCCCCAAGTAGTCTCAGGCCTCTGACATGTCCCTGAGGGGGCCCTAAGAAAGAAAGTGGAGGGGACA
CTCCAGAGGCTGTCTGGGAGGATCATGTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGTGATTGCACCACTGC
ACTCCAGCCTGAGTGACAGAGCGAGACCTGTCTCAAAAAACAAACAAACAAACAAACAAACAAACAAACAAACAAAC
GGCACGGTGGCTCATGCCTGTAGTCCCAGCACTTTGGGAGGGCCGAGGCTGGTGGATCACAAGGTCAGGAGATTGA
GACCATCCTGGCTAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGTC
ACCTGTAGTCCCAGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAACCTGGGAGGCGGAGCTTGCAGTGAGC
CGAGATCACACCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTCCATCTC

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FIGURE 5843

MAPARCF SARLR TVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGKKLLSEKKLKRYFVDY
RRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQQVKSLSVLSRYQGFSGEDGGSKNCFGRSG
AVLYIRVPVGTILVKEGGRVVADLSCVGDEYIAALGGAGGKGNRFFLANNNRAPVTCTPGQPGQQRVLHLELKTVA
HAGMVGFNPAGKSSLLRAISNARPAVASYPFTTLKPHVGIVHYEGHLQIADIPGIIRGAHQNRGLGSAFLRHI
ERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKLSARPHAIVANKIDLPEAQANLSQLRDHLGQEVIVLSALTG
ENLEQLLLHLKVLVYDAYAEAELGQGRQPLRW

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FIGURE 5844

GCGAGCCCGGACGGCGCCTCTCGAACGAGTGTGGGCGCGAGGCAGGATGACGACCTCAGGCGCGCTCTTTCCAAG
CCTGGTGCCAGGCTCTCGGGGCGCCTCCAACAAGTACTTGGTGGAGTTTCGGGCGGGAAAGATGTCCCTGAAGGG
GACCACCGTGACTCCGGATAAGCGGAAAGGGCTGGTGTACATTACGACAGACGGACGACTCGCTTATTCACCTTCTG
CTGGAAGGACAGGACGTCCGGGAACGTGGAAGACGACTTGATCATCTTCCCTGACGACTGTGAGTTCAAGCGGGT
GCCGCAGTGCCCCAGCGGGAGGGTCTACGTGCTGAAGTTCAAGGCAGGGTCCAAGCGGCTTTTCTTCTGGATGCA
GGAACCCAAGACAGACCAGGATGAGGAGCATTGCCGGAAGTCAACGAGTATCTGAACAACCCCCGATGCCTGG
GGCACTGGGGGCCAGCGGAACGAGCGGCCACGAACCTCTCTGCGCTAGGCGGTGAGGGTGGCCTGCAGAGCCTGCT
GGGAAACATGAGCCACAGCCAGCTCATGCAGCTCATCGGACCAGCCGGCCTCGGAGGACTGGGTGGGCTGGGGGC
CCTGACTGGACCTGGCCTGGCCAGCTTACTGGGGAGCAGTGGGCCTCCAGGGAGCAGCTCCTCCTCCAGCTCCCG
GAGCCAGTCGGCAGCGGTACCCCGTCATCCACCACCTCTTCCACCCGTGCCACCCAGCCCCCTTCTGCTCCAGC
AGCTGCCTCAGCAACTAGCCCCAGCCCCGCGCCAGTTCCGGGAATGGAGCCAGCACAGCAGCCAGCCCCGACCCA
GCCCATCCAGCTGAGCGACCTCCAGAGCATCCTGGCCACGATGAACGTACCAGCCGGGCCAGCAGGCGGCCAGCA
AGTGGACCTGGCCAGTGTGCTGACGCCGGAGATAATGGCTCCCATCCTCGCCAACGCGGATGTCCAGGAGCGCCT
GCTTCCCTACTTGCCATCTGGGGAGTCGCTGCCGCAGACCGCGGATGAGATCCAGAATACCTGACCTCGCCCCA
GTTCCAGCAGGCCCTGGGCATGTTTACGCGCAGCCTTGGCCTCGGGGCAGCTGGGCCCCCTCATGTGCCAGTTCGG
TCTGCCTGCAGAGGCTGTGGAGGCCGCCAACAAGGGCGATGTGGAAGCGTTTGCCAAGCCATGCAGAACAACGC
CAAGCCCGAGCAGAAAGAGGGCGACACGAAGGACAAGAAGGACGAAGAGGAGGACATGAGCCTGGACTGAGCCAC
GCGCCGTCTCCGAGGAAC TGGGCGCTTGCAGTGCGTTGCACACCCTCACCTCCCACCCACTGATTATTAATAAA
GTCTTTTCCTTTACCTGCAAAAAA

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FIGURE 5845

MTTSGALFPSLVPGSRGASNKYLVEFRAGKMSLKGTTPDKRKGLVYIQQTDDSLIHFCWKDRTSGNVEDDLII
FPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNEYLNPPMPGALGASGTSGHELSAL
GGEGGLQSLLGNMSHSQMLQLIGPAGLGGLGGLGALTGPGLASLLGSSGPPGSSSSSSSSRSQSAAVTPSSTTSST
RATPAPSAPAAASATSPSPAPSSGNGASTAASPTQPIQLSDLQSILATMNVPA GPAGGQQVDLASVLTPEIMAPI
LANADVQERLLPYLP SGESLPQTAD EIQNTLTSPQFQQALGMFSAALASGQLGPLMCQFGLPAEAVEAANKGDVE
AFAKAMQNNAKPEQKEGDTKDKKDEEEDMSLD

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FIGURE 5846A

ATGGCGAAGCGGCTCTGCGCGGGGAGCGCACTGTGTGTTCGCGGCCCCCGGGGCCCCGCGCCGCTGCTGCTGGTC
GGGCTGGCGCTGCTGGGGCGGGCGCGGGGCGGGGAGGAGGCGGGCGGGCTTCAGCCTGCACCCGCCCTACTTC
AACCTGGCCGAGGGCGCCCGCATCGCCGCCTCCGCGACCTGCGGAGAGGAGGCCCCGGCGCGGGCTCCCCGCGC
CCCACCGAGGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGGCGGGCGACCCCAACCAGACCATCCGGGGC
CAGTACTGTGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAG
CGCTGGTGGCAGAGTCCACCGCTGTCCCGCGGCCTGGAGTACAACGAGGTCAACGTCAACCTGGACCTGGGCCAG
GTCTTCCACGTGGCCTACGTCTCATCAAGTTTGCCAACCTACCCCGCGCGGACCTCTGGGTGCTGGAGCGGTCC
ATGGACTTCGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCCTCCTCCAAGAGGGACTGTCTGGAGCGGTTCGGG
CCACAGACGCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTACGCATCGTGCCCTG
GAGAACGGAGAGATCGTGGTGTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCTACTCGCCGCTGCTA
CGTGAGTTACCAAGGCCACCAACGTCCGCCTGCGCTTCTGCGTACCAACACGCTGCTGGGCCATCTCATGGGG
AAGGCGCTGCGGGACCCACGGTCACCCGCCGGTATTATTACAGCATCAAGGATATCAGCATCGGAGGCCGCTGT
GTCTGCCACGGCCACGCGGATGCCTGCGATGCCAAAGACCCACGGACCCGTTTACGGCTGCAGTGCACCTGCCAG
CACAACACCTGCGGGGGACCTGCGACCGCTGCTGCCCGGCTTCAATCAGCAGCCGTGGAAGCCTGCGACTGCC
AACAGTGCCAACGAGTGCCAGTCTGTAACTGCTACGGCCATGCCACCGACTGTTACTACGACCCCTGAGGTGGAC
CGGCGCCGCGCCAGCCAGAGCCTGGATGGCACCTATCAGGGTGGGGGTGTCTGTATCGACTGCCAGCACCACACC
ACCGGCGTCAACTGTGAGCGCTGCCTGCCCGGCTTCTACCGCTCTCCCAACCACCTCTCGACTCGCCCCACGTC
TGCCGCGCTGCAACTGCGAGTCCGACTTCACGGATGGCACCTGCGAGGACCTGACGGGTGATGCTACTGCCGG
CCCAACTTCTCTGGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTCACGGGCTTCCCAAGCTGCTACCCGACGCCC
TCGTCTCCAATGACACCAGGGAGCAGGTGCTGCCAGCCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGG
ACCCAGGGCAACGCCTGCCGGAAGGACCCAAGGGTGGGACGCTGTCTGTGCAAACCCAACCTTCCAAGGCACCCAT
TGTGAGCTCTGCGCGCCAGGGTTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCAGCCCTGGAGTGGCCGAT
GACCGCTGTGACCCCTGACACAGGCCAGTGCCAGGTGCCGAGTGGGCTTCGAGGGGGCCACATGTGATCGCTGTGCC
CCCGGCTACTTTACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCCAT
GAGGCCGGCCGCTGCCTATGCCAGCCTGAGTTTGTGTGGACCTCATTGTGACCGGTGCCGCCCTGGCTACCATGGT
TTCCCCAACTGCCAAGCATGCACCTGCGACCCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGC
CGCTGCCGCCCCGGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGGCTTTCACGGCTTCCCCAGCTGTGTC
CCCTGCCACTGCTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCCGAGTGGGCAGTGCAGCTGCCGGCCC
CGTGTGACGGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCACAACTTCCCCTACTGCGAAGCTGGCTCTTGC
CACCTTGCCGGTCTGGCCCCAGTGGATCCTGCCCTTCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTG
GAGGGGGCCGAGCTGTGACCGCTGCAAACCTGGGTTCCTGGGGACTGAGCCCCAGCAACCCCCGAGGGCTGTACCCGC
TGCAGCTGCGACCTCAGGGGCACACTGGGTGGAGTTGCTGAGTGCCAGCCGGGCACCGGCCAGTGTCTTGCAG
CCCCACGTGTGCGGCCAGGCCTGCGCGTCTTGCAGGATGGCTTCTTTGGACTGGATCAGGCTGACTATTTTGGC
TGCCGCGAGCTGCCGGTGTGACATTGGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGGCTGTGCCGGTGC
CGCCCCAACACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGGACCTGCACCACCTGCGC
CTGGAGCTGGAGGAGGCTGCCACACCTGAGGGTCACGCCGTGCGCTTTGGCTTCAACCCCCCTCGAGTTCGAGAAC
TTCAGCTGGAGGGGCTACGCGCAGATGGCACCTGTCCAGCCCAGGATCGTGGCCAGGCTGAACCTGACCTCCCCT
GACCTTTTCTGGCTCGTCTTCCGATACGTCAACCGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAG
GAGGGCAGGTGCGCCACCTGCGCCAACCTGCACAGCACAGAGTCAGCCCGTGGCCTTCCACCCAGCACGGAGCCT
GCCTTCATACCGTGCCTCAGAGGGGCTTCGGAGAGCCCTTTGTGCTGAACCTTGGCACCTGGGCCCTGCGTGTG
GAGGCCGAAGGGGTGCTCCTGGACTACGTGGTTCTGCTGCCTAGCGCATACTACGAGGCGGCGCTCCTGCAGCTG
CGGGTGACTGAGGCCTGCACATAACCGTCCCTCTGCCAGCAGTCTGGCGACAACCTGCCTCCTCTACACACACCTC
CCCCTGATGGCTTCCCCTCGGCCGCCGGGCTGGAGGCCCTGTGTGCCAGGACAACAGCCTGCCCCGGCCCTGC
CCCACGGAGCAGCTCAGCCCGTGCACCCGCCACTGATCACCTGCACGGGCAGTGATGTGGACGTCCAGCTTCAA
GTGGCAGTGCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGC
GTGGCCGTGCACACCCACAGCGGGCCCCCAGCAGGGGCTGCTCTCCCTGCACCCCTGCCTGTACAGCACCCCTG
TGCCGGGGCACTGCCCGGGATACCCAGGACCACTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTC
ACAGCCGAACAGGCACGCTTCTTCTGACAGGGGTCACTCTGGTGCCATTGAGGAGTTCAGCCCGGAGTTCGTG

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FIGURE 5846B

GAGCCCCGGGTCAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCCTGTCTGCCCTCGCGCTTC
CCAAAGCCGCCCCAGCCCATCATCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCCGGCCTCCCGCTGACCCAC
GCGCAGGATCTCACTCCAGCCATGTCCCCAGCTGGACCCCGACCTCGGCCCCCACCCTGTGGACCCGTATGCA
GAGCCCACCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTCACCACCCATGTGCCACGCTGGGCCGCTATGCC
TTCTGTCTGCACGGCTACCAGCCAGCCCACCCACCTTCCCCGTGGAAGTCCTCATCAACGCCGGCCGCGTGTGG
CAGGGCCACGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGCACCCTGGTGGTGTGTGAGGGCCAGGCC
CTGCTGGACGTGACCCACAGCGAGCTCACTGTGACCGTGCGTGTGCCCAAGGGCCGGTGGCTCTGGCTGGATTAT
GTACTCGTGGTCCCTGAGAACGTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCCCTGGATAAATCCTATGACTTC
ATCAGCCACTGCGCAGCCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCT
TCCCTCTCCCTCTTCTATAACAACGGAGCCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGGCCCCACGTGT
GAGCCCTTCGGGGGCCAGTGTCCCTGCCATGCCATGTGATTGGCCGTGACTGCTCCCGCTGTGCCACCGGATAC
TGGGGCTTCCCCAACTGCAGGCCCTGTGACTGCGGTGCCCGCCTCTGTGACGAGCTCACGGGCCAGTGCATCTGC
CCGCCACGCACCATCCCGCCCGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCTGGTCGGCTGT
GAGGAGTGTAAGTGTCTCAGGGCCCGCATCCAGGAGCTCACAGACCCTACCTGTGACACAGACAGCGGCCAGTGC
AAGTGCAGACCCAACTGACTGGGCGCCGCTGTGATACCTGCTCTCCGGGCTTCCATGGCTACCCCCGCTGCCGC
CCCTGTGACTGTACAGAGGCGGGCACTGCGCCTGGCGTGTGTGACCCCTCACAGGGCAGTGTACTGTAAGGAG
AACGTGCAGGGCCCCAAATGTGACCAGTGCAGCCTTGGGACCTTCTCACTGGATGTGCCAACCCCAAAGGTTGC
ACCCGCTGCTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCTACACCCGCCAGGAGTTCTGTGGATATG
GAGGGATGGGTGCTGCTGAGCACTGACCGGCAGGTGGTGCCCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGT
GCAGACCTGCGGCACGTGCCTGAGGCTGTGCCCCGAGGCTTTCCCCGAGCTGTACTGGCAGGCCCCACCTCCTAC
CTGGGGGACCGGTGTCTATCCTACGGTGGGACCTCCGTTATGAAGTGCAGTGCAGAGACCCAGCGGGGAGATGTC
TTTGTCCCCATGGAGAGCAGGCCGGATGTGGTGTGTCAGGGCAACCAGATGAGCATCACATTCTGGAGCCGGCA
TACCCACGCCTGGCCACGTTACCGTGGGCAGCTGCAGCTGGTGGAGGGAACTTCCGGCATAAGGAGACGCGC
AACACTGTGTCCCGCAGGAGCTCATGATGGTGTGTCAGCCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCA
CAGATCTCCTCGGTGTCTTCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCAGCAGGCCAGGGGGCCCTGGCC
AGCAATGTGGAGCTGTGCTGTGCCCCGCCAGCTACCGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTAT
CGGGACGTCAAAGGTCTCTTCTGGGCCGATGTGTCCCTTGTGAGTGCATGGACACTCAGACCGCTGCCCTCCCT
GGCTCTGGCGTCTGTGTGGACTGCCAGCACAAACACCGAAGGGGCCACTGTGAGCGCTGCCAGGCTGGCTTCGTG
AGCAGCAGGGACGACCCAGCGCCCCCTGTGTGAGCTGCCCTGCCCTTCTCAGTGCCTTCCAACAACCTTCGCC
GAGGGCTGTGTCCTGCGAGGCGGCCGCACCCAGTGCCCTGCAAACCTGGTTATGCAGGTGCCTCCTGCGAGCGG
TGTGCGCCCGGATTCTTTGGGAACCCACTGGTGTGCGGAGCTCCTGCCAGCCATGCGACTGCAGCGGCAACGGT
GACCCCAACTTGCTCTTCAGCGACTGCGACCCCCCTGACGGGCGCCTGCCGTGGCTGCCTGCGCCACACCACTGGG
CCCCGCTGCGAGATCTGTGCCCCCGGCTTCTACGGCAACGCCCTGCTGCCCGGCAACTGCACCCGGTGCAGCTGT
ACCCCATGTGGGACAGAGGCCTGCGACCCCCACAGCGGGCACTGCCTGTGCAAGGCGGGCGTGACTGGGCGGCGC
TGTGACCGCTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCCGTGTGCTTGTGGACCGGCC
GCCGAGGGCTCCGAGTGCCACCCCCAGAGCGGACAGTGCCACTGCCGACCAGGGACCATGGGACCCAGTGCCGC
GAGTGTGCCCCCTGGCTACTGGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCCTGGGGGCCGCTGTGAC
CCTCACACGGGCGGCTGCAACTGCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAG
GTGCCTGTTCCAGGCGGGCCTGTGGGCCACAGCATCCACTGTGAAGGTTGTGTGACCACTGTGTGGTCCCTGCTCC
TGGATGACCTGGAACGGGCCGGCGCCCTCCTCCCCGCCATTACAGAGCAACTGCGTGGCATCAATGCCAGCTCCA
TGGCCTGGGCGCGTCTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCC
CCCGCCATGAGACGGCACAGCAGCTGGAGGTGCTGGAGCAGCAGAGCACAAGCCTCGGGCAGGACGCACGGCGGC
TAGGCGGCCAGGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCCACTGGGCCATG
CGAAGACGCTGTTGGCGGCCATCCGGGCTGTGGACCGCACCCCTGAGCGAGCTCATGTCCAGACGGGCCACCTGG
GGCTGGCCAATGCCTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGG
AGATGCGGGCCCGGGACCTGGGGGCCCCGAGGCAGCAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGG
CCCGGGTGCAGGAGCAGCTGAGCAGCCTCTGGGAGGAGAACCAGGCACTGGCCACACAAACCCGCGACCGGCTGG
CCCAGCACGAGGCCGGCCTCATGGACCTGCGAGAGGCTTTGAACCGGCAGTGGACGCCACACGGGAGGCCCAGG

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FIGURE 5846C

AGCTCAACAGCCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGGACAATGCCA
CCCTGCAGGCCACTCTGCATGCGGCTAGGGACACCCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGG
CTAAGGAGGAGCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCT
TCTCCCCGGCGGGCAGCAAGCTGCGTCTAGTGGAGGCCGCCGAGGCCACGCACAGCAGCTGGGCCAGCTGGCAC
TCAATCTGTCCAGCATCATCTGGACGTCAACCAGGACCGCTCACCAGAGGGCCATCGAGGCCTCCAACGCCT
ACAGCCGCATCCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGT
GGGCGACGGTGGTGCAGGAGGGCCTGGTGGACCGAGCCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGG
CCATGCTCCAGGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATG
TCCGGGCCAAGAAGGACCAGCTGGAGGCGCACATCCAGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGA
CAAGCAAGAAGATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCCAGGACACCGCCACCCGTGTGCAGTCCCAGC
TGCAGGCCATGCAGGAGAATGTGGAGCGGTGGCAGGGCCAGTACGAGGGCCTGCGGGGCCAGGACCTGGGCCAGG
CAGTGTCTTGACGCAGGCCACTCAGTGTCCACCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCC
TGGAGAACCGTGGGGTGCACAACGCCAGCCTGGCCCTGTCCGCCAGCATTTGGCCGCGTGCAGAGCTCATTGCCC
AGGCCCCGGGGGGCTGCCAGTAAGGTCAAGGTGCCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCC
CACGGGATCTTGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCCAGAGCCTGAGCCTGGGC
AGGGTACCGAGGATCGCTTTGTGATGTACATGGGCAGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGC
GTGACAAGAAGGTGCACTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCCTAAGCATCGATGAGGACATTG
GGGAGCAGTTTCGAGCTGTGCAGCCTGGACAGGACTCTCCAGTTTGGCCACATGTCCGTACAGTGGAGAGACAGA
TGATCCAGGAAACCAAGGTGACACGGTGGCCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGCCAGACGACTTCG
TCTTCTACGTCGGGGGGTACCCAGTACCTTCACGCCCCCTCCCCTGCTTCGCTTCCCCGGCTACCGGGGCTGCA
TCGAGATGGACACGCTGAATGAGGAGGTGGTCAGCCTCTACAACCTTCGAGAGGACCTTCCAGCTGGACACGGCTG
TGGACAGGCCTTGTGCCCGCTCCAAGTCGACCGGGGACCCGTGGCTCACGGACGGCTCCTACCTGGACGGCACCG
GCTTCGCCCCGCATCAGCTTCGACAGTCAGATCAGCACCAACCAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCT
ACAGCGGGGTGCTCTTCTTCTGAAGCAGCAGAGCCAGTTCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGC
TGTTGTATGACTTTGGGGCTGGCCTGAAAAAGGCCGTCCCACTGCAGCCCCCACCGCCCTGACCTCGGCCAGCA
AGGCGATCCAGGTGTTCTGCTGGGGGGCAGCCGCAAGCGTGTGCTGGTGCCTGTGGAGCGGGCCACGGTGTACA
GCGTGGAGCAGGACAATGATCTGGAGCTGGCCGACGCCTACTACCTGGGGGGCGTGCCGCCCGACCACTGCCCC
CGAGCCTGCGACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGT
ATGTGGACCTCAAGCGGCTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCA
TGACTTTCCATGGCCACGGCTTCCTTCGCCTGGCGCTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCG
GCTTCGGCTTCCACAGCGCCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGT
CCCTGCAGCAGGGCCGTGTGAGCCTACAGCTCCTGAGGACTGAAGTGAAAACCTCAAGCGGGCTTCGCCGATGGTG
CCCCCATACGTCGCCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTGATGACCAGCTCCAGCAGATGA
AGCCCCACCGGGGACCACCCCCGAGCTCCAGCCGCAGCCTGAGGGGCCCCGAGGCTCCTCCTGGGAGGCCTGC
CTGAGTCTGGCACCATTTACAACCTTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCCCACAGC
GCGTATTTGATCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCCGCCCTGCAAGCCCAGA
CCCCGGGCCTGGGGCCTAGAGGACTGCAGGCCTCCCGCCGCAGCCGTGAGCCCGCCCGGCATCCTGCCTGCATGC
TGCCCCCACACCTCAGGACCACCCGAGACTCCTACCAGTTTGGGGGTTCCCTGTCCAGTCACCTGGAGTTTGTGG
GCATCCTGGCCCCGACATAGGAACCTGGCCCAGTCTCTCCATGCACGTCTCCTCCCGCAAGCTCCCGAGGCCTCCTCC
TCTTCACTGCCCCTGTGAGGCCCCGCGAGCCCCCTCCCTGGCGCTCTTCTGAGCAATGGCCACTTCGTTGCACAGA
TGGAAGGCCTCGGGACTCGGCTCCGCGCCAGAGCCGCCAGCGCTCCCGGCCTGGCCGCTGGCACAAGGTCTCCG
TGCGCTGGGAGAAGAACCGGATCCTGCTGGTGACGGACGGGGCCCGGGCTGGAGCCAGGAGGGGCCGCACCGGC
AGCACCAGGGGGCAGAGCACCCCCAGCCCCACACCCTCTTTGTGGGCGGCCTCCCGCCAGCAGCCACAGCTCCA
AACTTCCGGTGACCGTCCGGTTACGCGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCCCTGGGGGCCCCCA
CACGGATGGCAGGGGTACACCCCTGCATCTTGGGCCCCCTGGAGGCGGGCCTGTTCTTCCAGGCAGCGGGGAG
TTATCACTTTAGACCTCCCAGGAGCTACACTGCCTGATGTGGCCTGGAACTGGAGGTGCGGCCCTGGCAGTCA
CCGGACTGATCTTCACTTGGGCCAGGCCCCGACGCCCCCTACTTGCAGTTGCAGGTGACCGAGAAGCAAGTCC
TGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCACGTCACTGACCCGCCCTCAGTGTGTGTGATGGCCAGT

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FIGURE 5846D

GGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACACCGTGG
GCCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGCCGTGC
AGCCCTGGCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCGTCGCCATGACTCGCT
CTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCCAGCCGCCTAGGACACAGCCAACCCGGCCCCCTGGT
CAGGCCCCCTGCAGCTGCCTCACACCGCCCCCTTGCTGCTCGCCTCATAGGTGTCTATTTGGACTCTAAGCTCTACGG
GTGACAGATCTTGTCTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAATGTTT
TTATATTTGGCCCTTCCACCCATTTTAAATTGTGAGAGATTGTCACCAATCATCACTGGTTCCTCCTTAAAAAT
TAAAAAGTAACTTCTGTGT

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FIGURE 5847

CTTTCTCTCTCGCGCGCGGTGTGGTGGCAGCAGGCGCAGCCCAGCCTCGAAATGCAGAACGACGCCGGCGAGTTC
GTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAG
ATGAACGTGGCCGAGGTTGACAAGGTCACAGGCAGGTTTAATGGCCAGTTTAAACTTATGCTATCTGCGGGGCC
ATTCGTAGGATGGGTGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTT
TGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAAATAAATAATGAAAACCT

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FIGURE 5848

MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRENGQFKTYAICGAIRRMGESDDSilRLAKA
DGIVSKNF

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FIGURE 5849

AGTGCGCCTGCGCGGAGCTCGTGGCCGCGCCTGCTCCCGCCGGGGGCTCCTTGCTCGGCCGGGCCGCGGCC**ATG**G
GAGAGGCCGAGGTGGGCGGCGGGGGCGCCGCAGGCGACAAGGGCCCGGGGGAGGCGGCCACCAGCCCGGCGGAGG
AGACAGTGGTGTGGAGCCCCGAGGTGGAGGTGTGCCTCTTCCACGCCATGCTGGGCCACAAGCCCGTCGGTGTGA
ACCGACACTTCCACATGATTTGTATTTCGGGACAAGTTCAGCCAGAACATCGGGCGGCAGGTCCCATCCAAGGTCA
TCTGGGACCATCTGAGCACCATGTACGACATGCAGGCGCTGCATGAGTCTGAGATTCTTCCATTCCCGAATCCAG
AGAGGAACTTCGTCTTCCAGAAGAGATCATTACAGGAGGTCCGAGAAGGAAAAGTGATGATAGAAGAGGAGATGA
AAGAGGAGATGAAGGAAGACGTGGACCCCCACAATGGGGCTGACGATGTTTTTTCATCTTCAGGGAGTTTGGGGA
AAGCATCAGAAAAATCCAGCAAAGACAAAGAGAAGAACTCCTCAGACTTGGGGTGCAAAGAAGGCGCAGACAAGC
GGAAGCGCAGCCGGGTACCGACAAAGTCCTGACCGCAAACAGCAACCCTTCCAGTCCCAGTGCTGCCAAGCGGC
GCCGCACG**TAG**ACCCCTCAGCCCTGGTGGCGGCAGAGAAGCGGGCGAGGCACTGTGGTTCGCTGAGGGGGTTGGCTG
GGTCTGAGTGCCACCCCCCAGGCCACAGTGATAACCATCCAGTGCCATGAGCCCACACTGCCCGCCCTCAGGCTC
TCAGGTGAACGTGGCCGTCAGCGGGGAAACGTGTGTGTGTCAGTTGGACCATGTGGGACCCCGATGGACCTGAAAGA
CCAGGATCGGTCCAGCTCAGATATTGAGGGCTCTGAAGCCTAGTTCTGTCTTCTCTGGAGCAGCTGTGGCTTCCC
CGTGGCTGCTTGGTGACATGGATTAGCGCTACGTGGGCTGCAGCATTGGGATCCAGGCTACCTAGAGGGGCATC
GGGCCAGGGAAAACCTCGGATTAGCAAGCAATAAAAAATATGACCTCACTCTTCCTCAAAGGAGCCCCCTGGTCTTC
CCTGTGTGACTCAGTTCTTTCCATCTGTTTGTCCCGCTGCAAGCCTCTTTCTGCGCTGACTGTGACATCGGAACG
TGGCCTTCCTGTCACCCCTCCGTGCCACGCACTGAAGGCCACCCCACTGGGAACTAAGAACTGGATA
TTTTGCCTCATTCACTTGTACTGTAAACATGTATATAATTTGGTTGGTATTTCACTATTTAATTTTAAGAAGCC
TATTTTACTAGTGTTTTATATGAACAAAGTACTGCAGAAGTTAAACCTGTGTTGTATTTTTTCTGAGATGTTTTG
CTTTAAGAGATACTTTTTGCTCAGTTTTTATATGCCAGATACAGAGAATTTGTAGCGGTTATTTTTTGTATGATC
TAGTAACTTGCAAACAGACCAAATGGATGAGAGGCGGGGACCGTGCAGCTGTCGGCTGATGAGGAGGCGGCCGCC
CCAGTGCTGATGGAGATGCCACTTTCGTGTGACTGCGAACATTAAAGCACAAAAAATCC

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FIGURE 5850

MGEAEVGGGGAAGDKGPGEAATSPAETTVVWSPEVEVCLFHAMLGHKPVGVNRHFHMICIRDKFSQNIGRQVPSK
VIWDHLSTMYDMQALHESEILPFPNPERNFVLPEELIQEVREGKVMIEEEMKEEMKEDVDPHNGADDVFSSGSL
GKASEKSSKDKEKNSSDLGCKEGADKRKRSRVTDKVLANSNPSSPSAAKRRRT

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FIGURE 5851

CCCCGCCGCCGAGCATGGACGACCCCGACTGCGACTCCACCTGGGAGGAGGACGAGGAGGATGCGGAGGACGC
GGAGGACGAGGACTGCGAGGACGGCGAGGCCGCCGGCGCGAGGGACGCGGACGCAGGGGACGAGGACGAGGAGTC
GGAGGAGCCGCGGGCGGGCGCGGCCAGCTCGTTCCAGTCCAGAATGACAGGGTCCAGAACTGGCGAGCCACGAG
GGACATGTGTAGGTATCGGCACAACCTATCCGGATCTGGTGGAACGAGACTGCAATGGGGACACGCCAAACCTGAG
TTTCTACAGAAATGAGATCCGCTTCCTGCCCCAACGGCTGTTTCATTGAGGACATTCTTCAGAACTGGACGGACAA
CTATGACCTCCTTGAGGACAATCACTCCTACATCCAGTGGCTGTTTCCTCTGCGAGAACCAGGAGTGAACGGCA
TGCCAAGCCCCCTCACGCTCAGGGAGGTCGAGGTGTTTAAAAGCTCCAGGAGATCCAGGAGCGGCTTGTCGGGC
CTACGAGCTCATGCTGGGCTTCTACGGGATCCGGCTGGAGGACCGAGGCACGGGCACGGTGGGCCGAGCACAGAA
CTACCAGAAGCGCTTCCAGAACCTGAACTGGCGCAGCCACAACAACCTCCGCATCACACGCATCCTCAAGTCGCT
GGGTGAGCTGGGCCTCGAGCACTTCCAGGCGCCGCTGGTCCGCTTCTTCTGGAGGAGACGCTGGTGCGGCGGGA
GCTGCCGGGGGTGCGGCAGAGTGCCCTGGACTACTTCATGTTCCGCTGCGCTGCCGACACCAGCGCCGCCAGCT
GGTGCACTTCGCTGGGAGCACTTCCGGCCCCGCTGCAAGTTCGTCTGGGGGCCCCAAGACAAGCTGCGGAGGTT
CAAGCCAGCTCTCTGCCCCATCCGCTCGAGGGCTCCAGGAAGGTGGAGGAGGAAGGAAGCCCCGGGGACCCCGA
CCACGAGGCCAGCACCCAGGGTCGGACCTGTGGGCCAGAGCATAGCAAGGGTGGGGGCAGGGTGGACGAGGGGCC
CCAGCCACGGAGCGTGAGCCCCAGGATGCGGGACCCCTGGAGAGGAGCCAGGGGGATGAGGCAGGGGGGCCACGG
GGAAGATAGGCCGGAGCCCTTAAGCCCCAAAGAGAGCAAGAAGAGGAAGCTGGAGCTGAGCCGGCGGGAGCAGCC
GCCCCACAGAGCCAGGCCCTCAGAGTGCCCTCAGAGGTGGAGAAGATCGCTCTGAATTTGGAGGGGTGTGCCCTCAG
CCAGGGCAGCTCAGGACGGGGACCCAGGAAGTGGGCGGTGAGGACCTGGGGAGGCAGTGACGCCCTGCCGCCA
ACCCCTGGGAGCCAGGGTGGCCGACAAGGTGAGGAAGCGGAGGAAGGTGGATGAGGGTGCTGGGGACAGTGCTGC
GGTGGCCAGTGGTGGTGCCAGACCTTGCCCTTGCCGGGTCCCCTGCCCCATCGGGGCACCCCAAGGCTGGACA
CAGTGAGAACGGGGTTGAGGAGGACACAGAAGGTGCAACGGGGCCCCAAGAAGGTACCCCTGGGAGCCCATCGGA
GACCCAGGCCCCAGCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCG
CCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGC
AGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAGCCGGCAGGACCTACAAGGGATGAGCCAGC
CGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGA
GACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAG
CCCGGCAGGACCTACAAGGGATGAGCCAGCCAAGGCGGGGGAGGCAGCAGAGTTGCAGGACGCAGAGGTGGAGTC
TTCTGCCAAGTCTGGGAAGCCTTAAGGAAGGAGTGCCCGTTCGGCTCTTGGTCTCCTGTCCCTGCTGCAGGGG
CTGGGGCCTCCGGAGCTGCTGCGGGCTCCCCCTCAGGCTCTGCTTCGTGACCCGTGACCCATGACCCACAGTGCTG
GCCTCTGTGGGGCCACTATAGCAGCCACCAGAAGCCGCGAGGCCCTCAGGGAAGCCCAAGGCCTGCAGAAGCCT
CCTGGCCTGGCTGTGTCTTCCCCACCCAGCTCTCCCCTGCGCCCCTGTCTTTGTAAATTGACCTTCTGGAGTGG
GGGGCGGCGGGCAGGGCTGCTTTTCTTAGTCTGATACCAAGCAAGGCCTTTTCTGAATAAATTCAATTTGACTTTG

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FIGURE 5852

MDDPDCDSTWEEDEEDAEDAEDCEDGEEAAGARDADAGDEDEESEEPRAARPSFQSRMTGSRNWRATRDMCRY
RHNYPDIVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDNYDLEDNHSYIQWLFPLREPGVNWHAKEPLT
LREVEVFKSSQEIQERLVRAYELMLGFYGRLEDGRTGTVGRAQNYQKRFQNLNWRSHNNLRITRILKSLGELGL
EHFQAPLVRFFLEETLVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRPRCKFVWGPQDKLRRFKPSSL
PHPLEGSRKVEEEGSPGDPDHEASTQGRTCGPEHSGGGGRVDEGPQPRSVEPQDAGPLERSQGDEAGGHGEDRPE
PLSPKESKKRKLELSRREQPTTEPGPQSASEVEKIALNLEGCALSQGSRLRTGTQEVGGQDPGEAVQPCRQPLGAR
VADKVRKRRKVDEGAGDSAAVASGGAQTLALAGSPAPSGHPKAGHSENGVEEDTEGRTGPKGTPGSPSETPGPS
PAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAESPSE
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAKAGEAAELQDAEVESAKSG
KP

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FIGURE 5853

CCGACGCCGCAGCTCAGACTCCGCTCAGCC**ATG**GCCGGGGCCGCGCGCTGCGCCCCGCTCCTGCTCCTGCTCCTG
CTCGGGGAGCTTCTGGCGGCCGCCGGGGCGCAGAGAGTGGGACTCCCCGGCCCCCCCCGGCCCCCAGGGCCGCC
GGCAAGCCCGGCCAGGACGGCATTGACGGAGAAGCTGGTCTCTCCAGGTCTGCCTGGGCCCCCGGGACCAAAGGGG
GCCCCAGGAAAGCCGGGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGA
GATGGACCCCCCTGGACCCAAGGGTGGCCCTGGGGAAACGGGGAAAGTCTGGGACCCCCGGGGCCGCCCGGGCTGGGG
GGCAAAGGCCTCCCTGGACCCCCCGGAGAGGCAGGAGTGAGCGGCCCCCCAGGTGGGATCGGCCTCCGCGGCCCC
CCGGGACCTCCTGGACTCCCCGGCCTCCCTGGTCCCCCAGGACCTCCCGGACCCCCTGGACACCCAGGAGTTCTC
CCTGAAGGCGCTACTGACCTTCAGTGCCCAAGTATCTGCCCCGCCAGGTCCCCCAGGGCCCCCTGGAATGCCAGGG
TTCAAGGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTGGGCAAGGACGGCGAGAAGGGTGACCTGGCCCC
CCTGGGCCCCGCCGGCTCCCGGCAGCGTGGGGCTGCAGGGCCCCCGGGGATTACGAGGACTGCCAGGGCCACTC
GGGCCCCCTGGGGACCGGGGTCCATTGGGTTCCGAGGGCCGCTGGGATCCAGGAGCGCTGGGAAAAGCGGGT
GACCGAGGCGAGAGGGGCCAGAAGGGTTCCGCGGCCCAAGGGTGACCTCGGCAGACCTGGTCCCAAGGGAACC
CCCGGAGTGGCCGGGCCAAGCGGAGAGCCGGGCATGCCGGGCAAGGACGGCCAGAATGGCGTGCCAGGACTCGAT
GGCCAGAAGGGAGAGGCTGGTTCGCAACGGTGCTCCGGGAGAGAAGGGCCCCAACGGGCTGCCGGGCCTCCCTGGA
CGAGCGGGGTCCAAAGGCGAGAAGGGAGAACGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGGCCCCCTCTGGAGAG
CCAGGCGTCCCTGGAGATGCTGGCATGCCTGGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTC
GGCCACAAGGCCCTCCCGGAGCCCCTGGTGTCCGAGGCTTCCAGGGCCAGAAGGGCAGCATGGGAGACCCCGGC
CTTCCAGGCCCCCAGGGCCTCCGAGGTGACGTGGGCGACCGGGGTCCGGGAGGTGCCGAGGCCCTAAGGGAGAC
CAGGGTATTGCAGTTCCGACGGTCTTCTGGGGATAAAGGAGAACTGGGTCCAGCGGCCTGGTCCGACCCAAA
GGAGAGTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACCAAGCGGTGTTTCAGGGT
GTCCCCGGGCCCCCGGTCTCTGGGCCTGCAGGGCGTCCCGGGTGTCTCTGGCATCACGGGGAAGCCGGGAGTT
CCGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGATGATCAGCGAACAATTGCACAGTTA
GCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTTCGGCCCGGTCCAGCTGGCCCCCCTGGGCCCCCA
GGACCCCCAGGCTCCATTGGTCACCTTGGCGCTCGAGGACCCCTGGATACCGCGGTCCCACTGGGGAGCTGGGA
GACCCCGGGCCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGGCAGGAGCAGGGCTGGACGGGCCTGAA
GGAGACCAGGGGGCCCCAAGGACCCCAAGGCGTGCCCGGCACCAGCAAGGACGGCCAGGACGGTGCTCCCGGCAG
CCTGGGCCTCCCGGAGATCCTGGGCTTCCAGGTGCCATTGGGGCCCAGGGGACACCGGGGATCTGCGACACCTCA
GCCTGCCAAGGAGCCGTGTTAGGAGGGGTCCGGGAGAAATCAGGCTCTCGAAGCTCA**TAA**AATTCAACGTGAGGA
AGCAAGTGACAAGGACGCCCCAAGCACAGTGACGGTCATGAAGGAGCGGGGTGTGGCAGGCGGGTGACGTCCA
GGAGAGGGAGCGCCCCCTGGCTGCCCCCTCGGCCGCCGACTGGACGCGCGGGCCTTGCCAGCGAGCACCTCATCGG
GCTGTGCCTTGACAGCATACCTCAAAAGGCCCTAGCTAATAAACCTGTAAGCCCAGCATTTGAGAGAAGGTAGGG
TGTGTATATATAAAAGGTTGTGTACAACTCCACGAGGTGAAAAATATTTCAGTAACCTGTTTACATAGCATTTGTG
TAAAGACTATGATCTCATCCCAATAAAATGATATATTAAACCTTCAGATTAATGACTGGCTACAGAGTAACAAAA
AATAAAGAATTTAATGTACAGTAAATTCTCTCCCAT

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FIGURE 5854

MAGPRACAPLLLLLLLLGELLAAAGAQRVGLPGPPGPPGPPGKPGQDGIDGEAGPPGLPGPPGPKGAPGKPGKPGE
AGLPGLPGVDGLTGRDGPPGPKGAPGERGSLGPPGPPGLGGKGLPGPPGEAGVSGPPGGIGLRGPPGPPGLPGLP
GPPGPPGPPGHPGVLPEGATDLQCPASICPPGPPGPPGMPGFKGPTGYKGEQGEVVKDGEKGDPPPPGFPAGLPGSV
GLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKGDLGRPGPKGTPGVAGPSGEP
GMPGKDGQNGVPGLDGQKGEAGRNGAPGEKGPNGLPGLPGRAGSKGEKGERGRAGELGEAGPSGEPGVPGDAGMP
GERGEAGHRGSAGALGPQGPPGAPGVRGFQGGQKGSMDPGLPGPQGLRGDVGDRGPGGAAGPKGDQGIAGSDGLP
GDKGELGPSGLVGPKGESGSRGELGPKGTQGPNGTSGVQGVPGPPGPLGLQGVPGVPGITGKPGVPGKEASEQRI
RELCCGMISEQIAQLAAHLRKPLAPGSIGRPGPAGPPGPPGPPGSIGHPGARGPPGYRGPTGELGDPGPRGNQGD
RGDKGAAGAGLDGPEGDQGPQGPQGVPGTSGDQDGAPGEPGPPGDPGLPGAIGAQGTPGICDTSACQGAVLGGV
GEKSGSRSS

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FIGURE 5855

TCTAGCCCCGCGCCATCTCGGTGGCCGTCCGCCCCTCCGCGGCGTTTCGGGGAAATGGCTGCGAGACCCTAGAGG
CCTGCGGCCTGCGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTA
CTCGTGAACAGTGGCTGACAACAGTGTTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAG
GGTTTTTGGTTGTATTTAGGATTTTCAGGGAAAAGTGTTCCAAGCTTTCAGTGTTGGAGCAGGTATGACGACAAAAG
GCGACCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAGGAAAACATGGGGTTTTTC
GAAGGACCACTATCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGC
AGCAGCTGGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTTCTGACCA
TTGCGCGGCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCACGTCTGCCCCGCCA
CAGACGCCGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCA
CAGCTGTGAAGGAACGACAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTG
ACAGCGATGGCCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGC
CCCTGAAAAGGGATCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGG
CCAGTGACACTGTGGAGGGCGTCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTG
GGAAAGATGACAGAGAGAGTAAGTTGGAGGGAAAAGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGG
GCCGACCGAAGCCTGAATGTGAGGGTTACGACCCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACA
GGTTTATGATTTGCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGA
GGCTTTTGGAAAGGAATGGGGAAGACTATATCTGCCCAAACCTGCACCATTCGCAAGTGACAGGATGAGACTCATT
CAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAA
CAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGA
AGAAACTCAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAATGTATTGGCCCCGGGTGCTGTCACG
TGGCGCAGCCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGCAGCGACAATGAAGTTTCTAA
GCTCAGGTAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAAT
GCGGTGCTCAGGCAGGTATTAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAAAGAGACCACAGTGA
AGAAGGCAGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGT
GGGCGAGCGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAAT
GTATGTATCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCTGGGCTGTCCAG
GACTGGGAGTTGCAGCTTTGTGTAAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGT
CCAGGATGCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTGTCAGGACTTCCTGTCACTGTTTTCCAAAGCTGTAA
ACCTCACTGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATT
CGTATTCTCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCCGACGCCACATCCACCCCTGTCTGCACATGA
GTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTT
CTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTTGCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGG
CAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTTCGAACTTCGAAG
GCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCTTGACCGCAGGACGCG
TGCCCTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCA
TATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTG
CAATTTTAATGTTTTCTGTTTCTCAGTTTTCTGCTATAAAACTATTTTCAATTCAGTC

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FIGURE 5856

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRRTTIKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGR.IEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPKPEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVLLDPSRSFWIAIPWACFGLGVAALC

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FIGURE 5857

GGGAGCGGGAGGGCAGGCGCACCGGAGGCCGCCCTCAGCACCTCTCGCGACAGCAAGAGAGCGCGAGAGCGCGA
GCCGATGACCAATGAAGCGCCCCCGGAGGGGGCGGGGCGGACGGCCTCCCGGAAGCGCGGAACCTCAGCTTCCG
TACTTGCGCAGAACTCCCTCGCGGCGACCACGCACTACGGGTTGGCGCCAGAGTCAAAGGCGTCGGCCCTCTG
GCAAGATGGCTGCTGCGGAGGCGTTGGAGCGCGAAATCTGGAACCGGGATGGCGACGTCTACACTGAGTCGGAG
GCGAAGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGA
ACAGTGGCTGACAACAGTGTGTTGTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTT
GGTTGTATTTAGGATTTTCAAGGAAAAGTGTCCAAGCTTTCAGTGTGGAGCAGGTATGACGACAAAAGGCGACCC
GAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAAGAAAACATGGGGTTTTTCAAGGAC
CACTATCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCT
GGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCTTGACCATTGCGCG
GCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCTTGCCCCGCCACAGACGC
CGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGT
GAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGA
TGGCCTGACCTTGAAGAGCTTCAAGATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAA
AGGGATCCAGAGTCGCTGCGGAAGAAGCGCCGGGAGGAGGTTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGA
CACTGTGGAGGGCGTCTGCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTGGGAAAGA
TGACAGAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACC
GAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTTAT
GATTTGCTGTGACCGCTGTGAAGAATGGTTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTT
GGAAAGGAATGGGGAAGACTATATCTGCCCAAACCTGCACCATTTCTGCAAGTGAGGATGAGACTCATTAGAAAC
GGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCATTGTACAAGTATAGGAACAATAGA
GCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAACT
CAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTACAGTGGCGCA
GCCCCACTCGGTGTACTGCAGTAATGACTGTATCTCTCAAACACGCCGACGACAAATGAAGTTTCTAAGCTCAGG
TAAAGAACAGAAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCAGTCTTCCGAAATGCGGTGC
TCAGGCAGGTATTAATAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGC
AGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCTGTTGGGCGAG
CGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCACTGTTGTATAAATGTATGTA
TCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCTGGGCCTGTCCAGGACTGGG
AGTTGCAGCTTTGTGTTAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGTCCAGGAT
GCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTGTCAGGACTTCTGTCACTGTTTTCCAAAGCTGTAAACCTCAC
TGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATTCGTATTC
TCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACATGAGTTGTTT
TGACAAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTTCTTTTTT
ATGTTGTGGGAATCTTTGCAAGTTAGTGTTCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGGCAGATAG
GGGATTTTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTCGAACTTCGAAGGCCACAC
ACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTTACACCTAGAACACTGTCCTGACCGCAGGACGCGTGCCTTG
GACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCATATCCTG
CCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTGCAATTTT
AATGTTTTCTTGTCTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5858

MDDKGDP SNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLE RNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPKEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPPEKKETTVKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

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FIGURE 5859

GGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGAACAGT
GGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTTGGTTG
TATTTAGGATTTTACAGGGAAGTGTCCAAGCTTTCAGTGTGAGCAGGTATGACGACAAAGGCGACCCGAGCA
ATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCAGGAAAACATGGGGTTTTTCGAAGGACCACTA
TCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCTGGGCC
TGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCATTGCGCGGCGCC
GCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCACGTCTGCCCCGCCACAGACGCCGAGA
CAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGGCCCCAGTCTGCTTCCACAGCTGTGAAGG
AACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGATGGCC
TGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGGCCCCTGAAAGGGA
TCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGACACTG
TGGAGGGCGTCCCTGCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTGGGAAAAGATGACA
GAGAGAGTAAGTTGGAGGGAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACCGAAGC
CTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTTATGATT
GCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTTGGAAA
GGAATGGGGAAGACTATATCTGCCCAAACCTGCACCATTCTGCAAGTGCAGGATGAGACTCATTTCAGAAAACGGCAG
ATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGAGCAGA
AGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAAACTCAAGA
TCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCCTCAAAATGTATTGGCCCCGGGTGCTGTACGTGGCGCAGCCCG
ACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGCGAGCGACAATGAAGTTTCTAAGCTCAGGTAAAG
AACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGCTCAGG
CAGGTATTAAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGCAGTGG
TGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAGCGATC
ACAATTACAATGCAGTAAAGCCAGAAAAAGACTGCTGCTCCCTCGCCGTCACCTGTTGTATAAATGCTCTGGTAAGT
ATTGCTATTCTCTTCATCCAGTCTGATTGCATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACA
TGAGTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCA
CTTCTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTTCATCTGATTTTCAGGTGTACATTTATTTTTGACT
GGGCAGATAGGGGATTTTTTTTTTTTCCATGTCCGATTCACACGCTACACACCCACATGAACACATTCGAACTTCG
AAGGCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCTGACCGCAGGAC
GCGTGCCCTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGA
TCATATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTG
GTGCAATTTAATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5860

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRRTTIKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIIARRRGRRSMPVSLSDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNLRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSDQGIKGRIEKAAN
PSGKKKLIKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAAATMKFLSSGKEQKPKPKKEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPFEKKETTVKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCSGKYSYSLHPSLIA

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FIGURE 5861

GGAAGCTGGTGGCGGCTGGTGGGCGACCGGGCGCATCCTCATTGCAGTGCGGCGGCCCTACCTCGGCCCTGGCCT
GACCCCGGCGGCCCTGCCCCCCCCCTCCCTCCAGCATC**ATG**GCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGT
CAGGGTGCAGGATGAGAACAACGTTTGTTTTGAGTGTGGCGCGTTCAATCCTCAGTGGGTCAGTGTGACCTACGG
CATCTGGATCTGCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTACCTCAGCTTTGTGCGCTCTGTTAC
TATGGACAAGTGGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCTTGGA
GTCTCAGGAGGATTACGATCCTTGCTGGTCCCTGCAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA
TAAGGTGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCCAGAACTGGACCCACCTCA
GCCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGCAGAGTGTGACCGCCTCTCGGACAAGGC
TTTTGAGGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCCAGGGGAATCGCTACGTGGGGTTTGGGAA
CACGCCACCGCCTCAGAAGAAAGAAGATGACTTCCTCAACAACGCCATGTCTCCCTGTACTCGGGCTGGAGCAG
CTTACCACCTGGAGCCAGCCGGTTTGCCTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGGATCCCAAGCGAGTCA
GAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAACGTCTCAAGCCTGCGCAGGAGAAGGTGAAGGAGGGAAA
GATTTTTGATGATGTCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGGTCCAGGGAGTCGGTAGTAAGGGATGGCG
GGACGTCACCACCTTTTTTTTCGGGGAAAAGCAGAGGGCCCCCTTGGACAGCCCCCTCGGAGGGCCACAGTTATCAGAA
CAGCGGTCTGGACCACCTTCAAAAACAGCAACATAGACCAGAGCTTCTGGGAGACCTTTGGAAGTGCTGAGCCAC
CAAGACCCGCAAGTCCCCGAGCAGCGACAGCTGGACGTGCGCGGACACCTCCACCGAGAGGAGGAGCTCGGACAG
CTGGGAGGTGTGGGGCTCGGCCTCCACCAACAGGAACAGCAACAGCGACGGCGGGGAGGGCGGGGAGGGCACCAA
GAAGGCAGTGCCGCCGGCCGTGCCCACCTGATGATGGCTGGGACAACCAGAAGTGGT**TAG**GGCCCACTGCGCCCCG
TCCCCAGCGCCCCCGGGCGACTTCGTGTTTGCACTCTGCCCTCGTCGTTCTCCTCCTTCCATTTGACCCAAGAA
TCAGCAACTGCAGTGTGAGGACAGCGTCTCGGGAGGCGAGGACCCTAGGGAGACCCGGGTGTGCGCCGCCTGCGCG
TGGGGAGTCTTCGGTGCCTGGGGGCGGCTTGCTGTCCAGCCTGTGTGGGGGCCGTCCCGTCCCACTCCCCTGG
GCATTCTTGGACTCAAGGCCGGGGCTCTGCGTGGCTTGCTGGGAGGTGGGCTGCAGCACAGAGGCCCTGTGACTGC
GTTCCAGCGGCCAGTTCACTACGCAGTATCTCTGGGGCTGGGACCAGCCACGTGCCGAGCTGTGACGACGTGA
GGTGTCCTTCTCGTTGAGATATTTAACTTTGGTTTTGCTCTAGTTCTTTCTTTTGAAGAGAGTGACTGGAGTG
GTAAAGATGGAAATGCTGGAAATGATACTGGCGCTCACGCTGCCATCCGACACCCCTCGGCTCCCGAGTCCACGC
CTGCCTGGGCCTGTGCTGTGACACCCGCGTCGGTTCGTAACCCTCTGTGGCTCCCCCTGCATCAGCACCGTCCCACC
ACCAAGTTCACCAGGTTACACAGACACGGCCTCCACAATAGCCACACCCACACCTGAGCTGTCTCAGTGCTGGA
ACTTGACCATCCTGGAACACCCTGGAAGAAAAAGGAGCGCAGGCTGGGCCCTCGGCCCTGATGCAGGAGGGTGC
ATAGCGGACGTGGCCAGGACAGGAGGGGCGGGTTTCAGGAGCTGAGCAGGGGATGCCTGTGCGTGGTGCCTGGGTC
TAGGGAAGCTCCAGCCCCAGGATGGGGCTGCCCTGCACACCGGTGCCCGCCACATGCCAACCCCTCACCTCCCCGA
GGACTGGATGATGTGCTGCCACGTGTGACTCGTCTCCCTTGCTGTGCCCTGTGTGACCCCTCAGTCTTGCCAGCCA
TGCAATGCGCCCGAAGCTCGTGAGTTTGTACGTGAGGTGCTCTCCTCCCTGCCACCATGCTCATCACTCTGGCCT
TGGCCATGCTCCCTGGTCACCCCACTTCCCGGTGCGCGTCTGCAGCACTCCTGGAGCAGCCTGGGCCCTTACGCC
CCTGTGCTCGTCCACCCCTAGGGACTCAGTCACTTGAGAACAGGATGGGACCGAGATTTACAGCAGCCCTCCTG
GCGCCCGTCTCCCTGTGGGCACACGCCCTCTTGGTAGCTGGTGTGGAGGGCCGGTGTCTTGGCTGCCACGGA
GGGATTTGATACCGAAGCAGCCACCTGCTGTAGTTGGACCTGAGGTGAGAGGCGGGGCATCAGAGGCTCAAGGT
GCTGAGAAGCCACCGGGAAGCAGCCAGCACAAAGGGCCCAGGAAGCCAGCCCCGAGAGCTGAGCGTGGGGGTC
TTTGTGCTCTTTCTCCAAGCTGAGACGTGGGCGGCCGCGTGGTATCTCCCGAGGGCTGCTTGGACCTTGGTGGG
CTGAGTGCTCCGAGGAGGGGTGGACTCCACCTTGGACAGTGGGATGTGGTGTCCACATGTGCTGTTTCCACGC
CAGCACCTTGACTTGGCAGCATGGAGCCAAGGTCTGTCCCCGCCAGGAGGGTGCCTTCTCGGGGTAGGGGGA
CGGCCACTCTGCCCCAGGGAGTCCCTTTTGATGGGAAGTGCAGTCAGCAGCGTGGAGGTGTCTGGGCCACCTTC
AGAAGGTGGATGTGGTGGCCGAGACCCGTCCACGAGGGTGATGGCCTTTCCCTTCTGCAGGTGCGGGCAGGTG
GGCCTGGGACCGGTGCTGGGGCTCTCCTTGCTGTGTGTGAGGGCCAGGTGGAAGGCGGGACCTGACAGCATT
CCAATAAAGCATACGGGAACATG

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FIGURE 5862

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDIELEKM
KAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTTPQPRTLPSMVHRVS
GQPQSVTASSDKAFEDWLNDLGSYQGAQGNRYVGF'GNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAA
KEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGKIFDDVSSGVSQ LASKVQGVGSKGWRDVTTFFSGKAEG
PLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRN
SNSDGGEGGEGTKKAVPPAVPTDDGWDNQNW

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FIGURE 5863A

CACCAAGCCAGGATCCGCGCACTCCTGGTGGGTGAGAGAGAGACCGGCCCCAGTTCGCTGCCTGCCCC
CCGTGCCTGCTGACATGGTCTTCTGGTGGACGGGTCTGGAGCATTGGCCACAGTCACTTCCAGCAGGTCAAGG
ACTTCCTGGCCAGTGTATCGCACCCCTTTGAAATCGGGCCGGATAAGGTCCAAGTAGGCCTGACTCAGTACAGCG
GGGATGCTCAGACTGAGTGGGACCTGAACTCCCTCAGCACCAAGGAACAGGTGCTGGCAGCTGTGCGCCGCTCC
GCTACAAGGGGGGGAACACGTTACAGGCCCTTGCCCTGACCCACGTGCTGGGGCAGAACCTGCAGCCGGCGGCTG
GCCTCCGTCCAGAGGCAGCCAAGGTGGTGATTCTGGTGACGGACGGCAAGTCCCAGGACGATGTGCACACTGCTG
CCCCTGCTCTCAAGGACCTGGGCGTGAACGTCTTCGCTGTGGGTGTGAAGAACGCCGATGAGGCTGAGCTGAGGC
TCCTGGCGTCCCGCCGAGGGACATCACCGTCCACAGCGTGTGACTTCTGCAGCTCGGCGCGCTGGCTGGCC
TGCTCAGCCGTCTCATCTGCCAGAGGCTCCAGGGTGGGAGCCCGCGGCAGGGCCAGCAGCGGCTCCAGCCCTGG
ACACCCTCCCTGCCCCCACCAGCCTGGTCTGAGCCAGGTGACCTCCTCCAGCATCCGCCTGTCTGGACTCCAG
CCCCCGGCACCCCTCAAGTATCTGATCGTTTGGCGAGCCTCTAGAGGTGGCACCCCCAGGGAGGTGGTGGTGG
AGGGACCCGCGCCTCCACGGAGCTGCACAACCTGGCCTCCCGCACAGAGTACCTGGTCTCCGTGTTCCCATCT
ATGAGGGCGGGGTTGGCGAAGGCCTGCGGGGCTGGTGACCACAGCACCTCTGCCTCCGCCCGGGCGCTGACCC
TGGCCGAGTGACGCCCAGAACCCTCCACCTACCTGGCAGCCCTCGGCCGGGGCCACCCACTACCTGGTGCAT
GTTCTCCTGCTTCCCCCAAGGGTGAAGAGGAGGAGCGAGAGGTGCAGGTGCGGGCGGCCGAGGTGCTGCTGGATG
GCCTGGAACCTGGCAGGGACTATGAGGTCTCGGTGCAGAGCCTGCGAGGCCCTGAGGGCAGCGAGGCCCGGGGCA
TCCGTGCCAGGACCCCCACCTGGCCCCCGAGACACCTGGGCTTCTCAGACGTGAGCCACGACGCGGCACGAG
TGTTCTGGGAGGGTGCCCCGAGGCCTGTGCGCCTGGTCAGGGTACCTATGTGTCCAGCGAGGGTGGACACTCGG
GGCAGACAGAGGCTCCTGGGAACGCCACCTCGGCCACGCTGGGGCCTCTCTCTTCCACCACCTACACTGTCC
GTGTACCTGCCTCTACCCCTGGGGGTGGCTCCTCTACGCTGACTGGCCGGGTGACCACCAAGAAAGCTCCCAGCC
CAAGCCAGCTGTCCATGACGGAGCTGCCAGGGGATGCAGTCCAGCTGGCGTGGGTGGCCGACGCCCCGTCTGGCG
TGCTTGTCTACAGATCACGTGGACGCCCCTGGGAGAGGGGAAGGCTCACGAGATCTGTGCCAGGGAACCTCG
GCACGGCCGTCTGCTGGCTAGGGAGGCACACAGAGTACGACGTACCATCTTGGCCTACTACAGGGACGGGG
CCCGCAGTGACCCTGTGTCCCTCCGCTATACCCCTCCACGGTGAGCAGGAGCCACCCTCCAACCTGGCCCTGG
CCTCGGAGACCCCCGACAGCCTGCAGGTGAGCTGGACGCCCCCGCTTGGCCGCTGCTCCATTACTGGCTACCT
ACGCCCCCGCCTCTGGCTTGGGACCCGAGAAATCCGTCTCTGTGCCAGGAGCCAGGAGCCACGTGACACTGCCCG
ACCTGCAGGCAGCCACGAAGTACAGGGTCTTGGTCTCAGCTATCTATGCAGCAGGCAGGAGTGAGGCTGTGTCTG
CCACGGGCCAGACAGCCTGCCAGCCCTCCGCCCTGACGGCTCCCTCCAGGGTTTGACCTGATGGTGGCCTTCA
GCCTGGTGGAAAAGGCTTATGCGTCCATCCGGGGCGTGGCCATGGAGCCCTCTGCCTTCGGTGGGACCCGACCT
TCACGCTCTTCAAGGACGCCCAGCTGACAAGACGGGTGAGTGACGTCTACCCAGCCCCCTACCTCCAGAGCACA
CCATCGTCTTCTTGTGCGCTACTTCCCGAGACACCCCGTGAGGCCTTCGCGCTGTGGCAGATGACAGCCGAGG
ACTTCCAGCCCCCTCCTTGGGGTTCTGCTGGATGCCGGAAGAAGTCCCTGACCTACTTCCACCGTGACCCAGGG
CTGCCTTGCAGGAGGCCACCTTCGACCCGCAGGAAGTGAGGAAGATTTCTTCGGGAGCTTCCACAAGGTGCACG
TGGCTGTGGGCCGCTCCAAGGTGAGGCTCTATGTGAGCTGCCGGAAGGTGGCTGAGCGGGCCCTTGGGGAGATGG
GCAGCCCACCCGCTGCGGGCTTCGTACGCTGGGGAGGCTGGCCAAGGCCAGGGGGCCCCCGGAGCAGTTCCGGCCG
CGTTTCAGCTCCAGATGCTGCAGATCGTGTGAGTGACACCTGGGCCGATGAGGACCGGTGCTGTGAGCTCCCTG
CCTCGAGGGATGGAGAGACCTGCCCCGCCTTCGTGTCTGCCTGTTTCTGTTCTCAGAGACCCCTGGGCCCCCAG
GACCTCAAGGACCCCCAGGCTCCCTGGGAGGAATGGCACCCAGGAGAGCAGGGCTTCCAGGGGCCAGGGGTC
CACCAGGGGTCAAAGGAGAGAAGGGAGACCATGGGCTTCCAGGCTTGACGGGCCACCCGCGCCACCAGGGCATCC
CCGGGAGAGTTGGCCTCCAGGGACCAAGGGAATGAGAGGCCTGGAGGGAAGTGTGGCCTGCCTGGACCCCTGG
CCCCAGGGGGTTCCAGGGCATGGCAGGGGCCAGGGGCACTAGTGAGAGCGAGGACCTCCAGGGACCGTGGGGCC
CACAGGACTGCCAGGGGCCAAAGGGGAACGAGGAGAGAAGGGCGAGCCGAGTCCCTTGCCACCCTCTACCAGCT
TGTGAGCCAGGCCTGTGAGTCTGCCATTACAGACACAGTGTCAAAGTTCGACTCCTTCCACGAGAACACCAGGCC
CCCCATGCCATCTTGGAGCAGAAGCTGGAGCCGGGCACTGAGCCCTGGGGTCCCTGGCACCCGCAGCAAGGC
CCTGGTTCTGGAGAATGGGGGCGTGGTGGCCGCCACCTTGAGGGCAGAGGGGAGCCTGGAGCTGTTGGTCAAT
GGGCAGCCCTGGGCAGCAGGGGGCTAGCACCCAGGGCCTCTGGGAGTGACAGGACATTTTCTGCACTGCCCCGAG
GAACGCTGAGCCTTCTCCCTGGGTTTGTCTGGACACCGAGAGCGACCATCTGGAGAAGCCAGGAGAAAAGC
TCAGGAAGAGCCTGCAGGTGGAAGGAGAGGGAAGCAGCGGCCTCGGCCAAGGCCACCCCATACTCTTGGCTCTG

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FIGURE 5863B

TAGCATTTCCAAGTTCAGATAAACCCCTGAGTGCTCACCCAGCCAAGCGAGGCGGGAGTCATTTCTGGGAGAGT
GTCCCCCACCCTGGCTCTGTGCACCCACCTTGAGGCCCTGCAGCTTCAGCCGAGTGGGGAAGGGGAGGGGCTG
GGCTGATGGCGAATCGGGTTTCAGGAGGGCAGCAGTGCCCTGTGGCCGTCTCAGTAGCTCTAAAAACAGGCTCAACA
ACATGCCCCGCCCTTTCTCTGGGCCTCATCTAAGCCTGGCCAGGGCCCTGTGGGCCCGCCTCTCTCTGCGCCTC
ACGCAGGCAACAGATGGTTCCACTGCTGGCCACCAGTCACCTGCACGATGGCTCCTCCCTCAGAACAGCACTCC
CACCCCGGCCCCAGCACCTTCACATCTGGGCACAGGCAGGTCCCTGCCTGCCTCATCGTCCCCTCTGTCCCCAGC
CCAAGAAGGAGTTCAGATCCTGTGTGTGAATGGCCACCCCTCACCCACCCAGCCCTGTGCTGAGTTCCTTGTGCA
GGGACATTGCTTTGAGACTTGGCACCATCAGCCCCCTGGTCTTAGGGTCTCAGAGCAAGGTCATCCCTCAGCAGG
CTTCTGGCCTGTGCGCTCCTCAGCACCTCTGCCCAGGTCTCTCCCAACCATCACAGACGCTGTGTGAGCCTGGAC
TTCTGCTTATCCCCACTGTGGCCCAAACAGCATGGGGGCAAGCTCAGAACACACACCTGGGCTTCTGGGCCTT
GTGGCCCGTGGGGGTGATGTGGGAACCTTCTACTTTCCTTTCCAAACAAATATTTCAGTAACTAGTCCACTGTTACCA
CTTAGGCAGCTAAGCAAGAAAGGTGCCAGAAATGAAGAGGGAAGCCATATCATTGAGGAGAGAATGAAAAGTATT
AAAAAGGAACAAAGAGAGACCCCTTGATATTGACAGAAGGAAAACCCACCAAGATCACCAAGTGCAGCATTGCGTGC
ACCAAAGCATACCCCAAAGAGGTGAGCGCAAAACAGCTTCAGGGCAAACACTTCATCTATGATTCAACTGTTCCA
GGAAGTGAACAGACCTGGAGACCAAATAGAGAGTCATAGGCAGGGTCAGCAGGATGGGAGAGAGCGCCTGCACCC
ACAGGAGCCACAGCCCTGACTGAGGCCAGGAAGCAGCCCCAAATGCCAGCTCCCACTGCAGCATGAGAACAGAAA
CAGACCACTGAAAATTCCCAAAGTCTGTGGACAAATCAGACGTCGAAGAAGTCACGTGGCATCGAGACAGATTTT
GCACTGAGGGACAAGGAGAGCATGTGGCCAAAGTAGGTGCAGGTAAAGCAGCATCTGGGGCAGAGTTATAGCCTT
CAGTGCAGGTATCAGACACAGTTGTTGAGAGCAGCAGCCCAAGCCAGCCCCCTCCGTCTGCAGGGAGGACACCTA
GGTCACTTGGCTTCTGTTGGGGAGCTGAGTTGCTTCAGATTGTGTGACCAGCAAAACAGCTTGGTTGCTCTCACT
TGGTTTCTCCAGGGCGGGGAATTACATGTCCCCAGCTGAAGTGAAGGCTCTTTGAGCAGTGGAGTGAGCAGGC
TTTGTGATGAGGCAGGAGTGGGGCTAGAATCAAGCCCAGAGCCCACAGGGCATCCAGAGCCTTCCAAAGGAGCCC
CTCTCCTGGGGCTCTCCAATTTGATGAAGGGACTGGGCACTGGGTGGCTGAGACCACATTGGCAGCCAGGAGGAG
GCAGCCTGGCCGGGGGAACCAGGTGGCTCTAATCCCCACCACCCCTCAGCTGCCCTACCCCCGCCACGCTGG
TGTGACACCAGTGATGCTCAGCCTCAAAAGGGGAGTCCGGCTGTCTTCGGGAAACTGACTTTATGCTGGAGGCCA
ATTAAAATGGCACAGCAAAGGCAGCGGCCAGCTGGTGCCAGGCAGCTTAGGGACTGGTCCCTGAGGCCCCACCC
GCCCCAGCCTGTGCACTGGAGCTGAGTACGAATCAAAGGTGAGGATGGCAAGGGAGCTGAGAGCAGCCTCCGGAT
GCACCAAACCGCCTGGCTCCTGTTTGAGGAAGGCAGCCTCCCCGAGACCCAGCCGACCTGCACGCTCTCCATC
AGCCCCGACTCCACCGCATCCCTCTGGGTCTTTTAGGAGCCCCCAGGGACTGAGCCGGGGCTCACGCTCCTGGC
CAGAGCGCTGGGTTTCTGGCAATGCCTCCCCCTCTGCTTTACGGCCACAGCTCTCCCCCTCCAGAGGCCCTCTG
TAGTGGGCCTCGGTCCCCTCTCCACCCCCAGAGGCAGCACAGCTTCAGCCCTACGCAGTGTGGGGGCTCCGGGAG
GAAATGCAGGGAGGTGCTTGGTCTTGGCCAGAGCTCATGGCCTTAGGTGCTGCCCCCAGTCACCCCCGTGCCCA
TGCAGCCGGGGATGTTTCAGCTCAGGCCAGCCACCAGGTGGTGTGACGCAAGGCTGATCTGACGCTCAGCTCAGG
CCGCTGGGGTTCATGGGGGTTGTGGGAAGGTTCATGGAATCACGGGGCTCACGCTGGGGTTCAGGGTGGTGTGGCT
GTGTGGACTGTAAGGGGCGTGCAGCCATGCGTATCTGACCTGCCCTCCCTAGGTCTGCAGGCAGTGCCGAGTGGC
TCTGCCCTGAGGCCCCAAGAGCGACCTTGGAAGCTCCAGGCCTTCACAGCCCCTCTGAGAGCCACCTGCAAGGTGG
GGAGCTGGGAAGAACGGCTCAGTGATGAGCTCAGAGGGAGGGGTGGGCACAGCGCCAGGAAGGCGGGTGCCTGC
AGGCCTGGGAGGAATGTGTAGCAGGAGGCAGGGGGTGTGTGCCCCGAGGACCAGCAGGTGAGGCGTGTCCACCC
ACAGAGGATGGCTCTGGCCAGGCAGTGTCAGAAATGGAAGCTGAGGAAACCCAACCCAGCTGTAGAGGAGCCT
GCCCCGATGCCATCTGCACCTGGGGGGCGACGTATGGCTGCCAGCCTCTTCATCTACCAAGGACCAGGGCAGTGG
GGACGGGAGAGCTGGGACACGTGGACTCACACCAGGGCAGATGGTGGGGGAAGCCAGTGTCTGTAGATTCACTGC
ATTTCTTGGGGAAGGGCGTGAACATTTGGACTTGAGCCCCAGCACAGAGACGATGTCATAATACAGCCCCCAT
CGTGATCTGATGGTAAGTACAGAACTCCTTGCCAGTGGAGAAACACTCTCCTCTCATGTGTGGAATATCCACAC
ACTAACCATGAAGTGGGCCATAAGAAACCTTACATTCCAAAGGATCCTGCTGTTTCAGAACTCACTCACTCACTGA
TGAAACTGGAAAACAACCAATGATAACAAGCTAAAGAATGCCTCTAGAAGCTAAAAGACACACCCATGACTCCA
CAGTAATTCATGGGTTAAAGAGAAAAAAGGAAACGTGAAGATACTTGTAAACCAATAATGATGGATGCAGCGCCA
CGTCAGAAATCTCTGTGCTGCAGCTGCAGTGGTACCTAGAGGGCAATTTATAGCTGTAAATACAGTGCTTTGTTTT
GTTTTCTTGTTTTTTTGTAGACAAGGTCTTGCTCTGTACACCAGGCTGGAGTACAGTGGCATGATCTCGGCTCAATG

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FIGURE 5863C

CAACCTCTGTGCCACCCTGGGCTCAAGTGGTCCTCCTGCTCCGGTCTTCTGAGTAGCAGGAACCACAGGCGTGCG
CCACCACGCTTGGCTAATGTTTTTGTATTTTTTAAATAGAGACAGGGTGTTGCCGTGTTACCCAGGCTGGTCT
TGAACCTCTGAGCTCAAACGATCCACCCTCCTTGGCCTCCCAAAGTGGTGGGATTACAGGTGTGAGTCACCTCAC
CGGCCCTTAAACACAGTTTTTAGGGAAGATTCCAACCTCAAACAATTTTAAATAGTAGAAAATAAACCTGAAGCA
GTGTG

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FIGURE 5864

MVAFSLVEKAYASIRGVAMEPSAFGGTPTFTLFKDAQLTRRVSDVYPAPLPPEHTIVFLVRLLPETPREAFALWQ
MTAEDFQPLLGVLLDAGKKSLTYFHRDPRAALQEATFDPQEVKIFFGSFHKVHVAVGRSKVRLYVDCRKVAERP
LGEMGSPPAAGFVTLGRLAKARGPRSSSAAFQLQMLQIVCSDTWADEDRCCELPASRDGETCPAFVSACSCSSET
PGPPGPQPPGPPGVKGEKGDHGLPGLQGHPGHQGIPGRVGLQGPKGMRGLEGTAGLPGLAPGGSRAWQGP GAL
VESEDLQGPWGPQDCQGPKGNEERRASRSPLPPSTSL

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FIGURE 5865

GGCACGAGGCTCTGTCTGTGGCGCGGCTTCCCGCGGTCTTCTCTGCAAATGGGCTCCGTGGCCTAGCGCCCCCGTC
CCCGCCACCCGTGATCGTGCGCCGAGGCCCGCGAGGGGTGCGCGCCAGATCCCACCAGCCAGCAAGCTAAAGCA
TGGCGGCCATCCCCTCCAGCGGCTCGCTCGTGGCCACCCACGACTACTACCGGCGCCGCTGGGTTCCACTTCCA
GCAACAGCTCCTGCAGCAGTACCGAGTGCCCCGGGGAAGCCATTCCCCACCCCCCAGGTCTCCCCAAGGCTGACC
CGGGTCATTGGTGGGCCAGCTTCTTTTTTCGGGAAGTCCACCCTCCCGTTTCATGGCCACGGTGTTGGAGTCCGCAG
AGCACTCGGAACCTCCCCAGGCCTCCAGCAGCATGACCGCCTGTGGCCTGGCTCGGGACGCCCCGAGGAAGCAGC
CCGGCGGTCAGTCCAGCACAGCCAGCGCTGGGCCCCCGTCCTGACCTGAGCGGTTACCACCAGCCCCAGGCCTGC
GGAGGCGCTAGTCCACCAGAGCCCCTCCCCGCCCCCTCTCCCCACTCCGCATCCCTCGCCCCCTCCCCACCTCCC
ACCCCCACCCCTGTAACTAGGCGGCTGCAGCAAGCAGACCTTCGCATCAACACAGCAGACACCAAAAACCAGTG
AGAGCCCCGCTCTCTACCGCCCGCCCCAGCACTCGCTAGCTTTCCTGACACCTGGAAGTGTGCACCTGGCACCA
AGCGGAAAATAAACTCCAAGCAGCCAGTAGCCCCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5866

MAAIPSSGSLVATHDYRRRLGSTSSNSSCSSTECPGAIPHPPGLPKADPGHWWASFFFGKSTLPFMATVLESA
EHSEPPQASSSMTACGLARDAPRKQPGGQSSTASAGPPS

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FIGURE 5867A

TGCTCACCTCTGACAGCCAGACAAGGGCTGTGCTCAGGGGCAGCTCGGCTGGGCACACAGTAGGTGCTTTAGCGG
ACAGCACTGAGGCCCCCAGCAAGAAGCCC**ATG**AGCTCCTCCCCCTCCCGCAGTGCCGCCGACATCTACATCCGGG
AGTATTTCCACAGCCACGTACGCGGCGGCCACCCCGAGGCCACTCCTCTCCGTGTGATGTACACGGACCGGCCG
TGAGCCAGACGGACCCAGTCACGCTGCAGTACTGTTGCTGACCGACGACCGCCAGGCTTTCCGCCCCGCCACAC
GGGCAGAGCTGGCGCGGCACCGCGTGGTGGTACCACCACCTCCCAGGCCCGTGAGCTCAGGGTGCCGGTTCGGCT
TCTTCTCCACATTCTCATCGATGAGGCGGCCAGATGCTGGAGTGCGAGGCCCTCACCCCGCTGGCCTATGCCT
CGCACGGCACCCGCCTCGTGCTGGCGGGCGACCACATGCAGGTACACCCCGCTGTTCAGTGTGGCCAGGGCCC
GGGCGGCCGAGCACACGCTGCTGCACCGCCTCTTCCTGTGCTACCAGCAGGAGACTCACGAGGTGGCGCGGCAGA
GCCGCTGGTCTTCCACGAGAACTACCGCTGCACGGACGCCATTGTGAGCTTCATCTCGCGGCACCTTCTACGTGG
CCAAGGGCAACCCCCATCCACGCCAGGGGCAAGGTTCCGCCCCACCCCGGCACTACCCGCTCATGTTCTGCCACG
TGGCGGGCAGCCCAGACCGGGACATGTCCATGGCGTCTGGCTGAATCTGGCTGAGATTGCGCAGGTGCTCGAGA
AGGTGCAGGAGGCCCTACAACACCTGGCCCAGCTGCTGGGGCGGCCGCGAGCAGAGGTGCATCTGTGTGCTTTCCC
ACGGTGCCAGGTGAGTGCAGTGCAGGAGGAGCTGAGGAGGCGGGACCTAGGCCAGGTGTCTGTGCGGCAGTTTTC
AGATCCTGCCAGGGCGGCAGTTCCGGGTGCTGGTGTCTCAGCACTGTGCACACCTGCCAGAGCCTGCTCAGCCCTG
GGGCACTGGCCCCCTGAGTTCTTACCGACGCCCCGCTGCTCAACACCGTCTGACCCGCGCCCCAGTCCCAGCTGG
TGGTAGTGGGGGACGCCGTGGCCCTCTGCTCCTTCGGGGCCTGCGGCAAGCTCTGGGAGAGCTTCATCCGTGAGT
GCGTGGAGCGGCACAGTGTCTGCCCCGAGGGCCTGTCCATGGAGCAGGTGAGCAGGGTGTGGCGCAGAGACGGC
GCTGGCCTCCCCGAGGCACACAGGCTGGGGCAGCGGGGAAGTGGGAGGCTGCCCCAGAGCCAGTAGGGGACCTGG
CCGAGGAGCAGGCGGCTGTGGTGACGCGCATGGTGAAGGCAGAGCCGGGAGATGAGGCTCTGAGCCAGCATCCC
GTGACATCACGGCAACCACAGCGCAGACGGAGGCTGCGGCAGCACACAGCAGGAGACGCAGTGAAGGAAGACGTGG
TGCCCGGGGCTGTGCGGCAGGAGCGGCTGCTGCAGCGGGCGTGAGTCCACGGAGGCTGAGGATGCAGAGGCTG
ACTTCTGGCCGTGGGACGGGGAGCTCAACGCTGACGACGCCATCCTACGGGAGCTTCTGGACGAGAGCCAGAAGG
TGATGGTGACCGTCGGGGAGGACGGGCTGCTGGACACTGTGCGCAGGCCCGAGTCCCTGCAGCAGGCCCGGCTGT
ACGAGAACCTGCCCCCGGCTGCGCTACGGAAGCTGCTGCACGCGGAGCCCGAGCGGTACCGCCACTGCTCTTTCG
TGCCAGAGACCTTCGAGCGGGCGTCAGCCATCCCGCTGGACGATGCCTCCTCGGGCCCCATCCAGGTGAGGGGCC
GCCTGGACTGTGGGATGGCCTTCGCCGGGGATGAGGTGCTGGTGCAGCTCCTTTCGGGAGACAAGGCGCCCGAGG
GGCGGCTTCGGGGCGCGCTGCTGGGCGTGCTGAAGAGGAAGAGGCACGAGCTGGCGTTTGTGTGCCGCATGGACA
CGTGGGACCCGCGCATCATGGTCCCCATCAATGGCTCCGTGACCAAGATCTTCGTGGCCGAGCTGAAGGACCCAT
CGCAGGTCCCCATCTACAGCCTCCGGAAGGGCCGGCTGCAGCGTGTGGGGCTTGAGAGGCTCACCGCCGAGGCC
GGCACAGCCGGCTCTTCTGGGTCCAAATTGTCTGTGGCGGCAAGGCTTCTACTACCCGCTGGGCATCGTCCGGG
AGGTGCTGCCTGAGGCCAGCACCTGGGAGCAGGGCCTCCGCATCCTCGGCCTGGAGTACAGCTTGAGGGTGCCCC
CGTCCGACCAGGCCACCATCACCAAGGTGCTGCAGAAATACCACACGGAGCTTGCCCGGGTTGCCGGCCGCCGAG
AGGACTGCCGCGCCTTCTTGACCTTCACTGTGGACCCCCAGGGCGCCTGCAACCTCGATGATGCCCTCAGTGTCC
GAGACCTGGGTCCCAGGTGCGAGGTGGCTGTGCACATCACTGATGTGGCCAGCTTCGTGCCCAGGGACGGGGTGC
TGGACGTGGAGGCGCAAGGCAGGGCGCTGCGTTCTATGCCCCCGGCAGGGAGCCAGTGCCCATGCTGCCGGCCA
GCCTCTGCCAGGACGTCTCAGCCTCCTGCTGGCCGGGACCGCCTGGCCATCTCCCTGTTTCTCACCATGGAGA
AGGCCAGTGGCCAGCTGAAGAGCCTGCGCTTTGCACCCTCCGTGGTCCAGTCTGACCGCCAGCTGTCTACGAGG
AGGCGGAGGAGGTGATCAGGCAGCACCCGGGTGCCGGCCGTGAGCTGCCGGCCCCGCTGGACTCCGTGGACGCCT
GCGTCGTGGCCGCGTGCTACTTCTCTCGGCTGCTGCGCCGGCACCGCCTGCGGTCCGACTGCTTCTATGAGCAGC
CGGACGAGGACGGCACCCCTGGGCTTCCGCGCGGCCACATCATGGTGAAGGAGTACATGATTCAGTTTAAATAGGC
TCGTGGCTGAGTTCTTGGTGGGCAGCGAGTGCACGCGGACGGTACGCCTCTGCGGTGGCAGCCAGCACCCCGCA
GCCAGCAGCTCAAGGCCCTGTGTGAGAAGCATGGGGACCGGTGCCCTGTCACTGCACCTCGGCCACCACCTGC
ACGGCGGCGGGGGCAGTCCCCCGACACGCGGCTGCACCTCCTGGCCTCCCTCTGGAAGCAGGTCCAGTTTGCTG
CCCGCACCCAGGACTACGAACAGATGGTGGACTTGGTACCACGGACGACATGCACCCATTCCTGGCTCCTGCAG
GCCGCGACCTCCGCAAGGCCCTGGAGCGCTCGGCGTTGGCGCGCTGCGCCGGGGCCACCAGCAGAGGGCGGCC
ACTACTCGCTGCAGGTGGACTGGTACACGTGGGCCACCTCGCCCATCCGCAGGTACCTGGACGTGGTGTGTCAGC
GGCAGATCCTGCTGGCGCTGGGCCATGGGGGCTCTGCCTACTCTGCCAGGGACATCGATGGGCTCTGCCAGGCCT
TCAGCCTCCAGCACGCACTTGCCAGAGCTATCAGCGGCGGGCGCGCAGCCTGCACCTGGCCGTGCAGCTCAAGG

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FIGURE 5867B

CCCAGCCTCTGGACAAGCTGGGCTTCGTGGTGGACGTGGAGGCGGGCTCCCGCTGCTTCCGGCTGCTCTTCCCCA
GCAACCGGGGAGACGTGCCTGACCCCTGCCCCGTCCCCTACGGCTCCCTGCAGCTGGCCGAGCACCCCCACGCCC
TGGCAGGCCGGCCGGGCTGCGGCTCCTGTGGCGGCGCCGTGTCTACTCAGCGCAGGGATCCAGCCCGCCCTGC
CACTGCCTGGCACTGTGCCGACCCACACACCCCTGGCCGTGGAGACGGCCCTGTGGAAGCAGCTGCTGGAGCTGG
TGGAGCTGCAGCGCTGGCCGAGGCGGCTGCTCTCATCCAGGAGAAGGGCGAGGCGTCCCAGCGGCGGGAGCTGG
TGCAGGTGCAGCGGAGCCACTGTGGCCATTTCTGGAGGTGGCCCGGAGCTGGGCAGTGGGGACACCCCTGCAGG
TGCAGCTCGGCACCAGCCTGCAGCACGGCTTCTGGTACCGAGCCCTCAGCTCTGGACGGTGGCACCGGGCTTCA
GCCTCTGCCTGGAGCACGTGGAGCGGCCCGGAGACTGCTTCTCAGGCCGTGTGTACCGGGCCCCGAGGGACCGGT
ACCGCGACGTGGATGAGTACGCCTGCGTGTGGGAACCATTTCTGCGCCCTGGAGTCGGCCACCGGCGCGGTTGCCG
AGAATGACTCCGTACACTTCAGCACCTGAGTGTCTCCTGGGAGGCGTCACGGACGCCGAGGGGCAGCTGCAGG
GCGCCTTCCGCTGGAGGCCGCTTCTCGAGGAGAACTGTGCCACATCAACTTCAGCTGCTGCTACCTCTGCA
TCCGGCTCGAGGGGCTGCCGGCTCCACAGGCCAGCCACGCCCTGGGCCAGCAGCCTCGGCCCTGGCCTGAATG
TTGACCCCGGCACGTATACCTGGGTGGCCACGGGCAGACGCAGGACTGGGACCAGGAGCGCCGGGCAGACCGGC
AGGAGGCTCCCAGACGGGTGCACCTCTTCGTCCACCACATGGGCATGGAGAAGGTTCCGGAAGAGGTGCTGAGGC
CGGGCACCTGTTACCGTTGAGCTGCTGCCAAGCAGCTTCTGATCTCCGCAAGGAGGAAGCCGTGCGTGGAC
TAGAGGAGGCGTCCCCGCTGGTCACCAGCATCGCACTGGGCGGCGCTGTCCGCGAGCCCTCTGCAGAGTGATCC
CCAGCAGGTTCTTGAGCGGCAGACCTACAACATCCCCGGAGGCGCCACAAGCTGAACCCAGCCAGAACGTGG
CGGTCAGGGAGGCTCTGGAGAAGCCTTTCACGGTCATTACGGGCCACCAGGTACAGGGAAGACGATCGTGGGCC
TCCACATCGTATTTCTGGTTTCATAAATCAAACCAGGAGCAGGTGCAGCCCGGAGGCCCCCCCCCGTGGGGAGAAGC
GGCTGGGGGGTCCCTGCATCTTGTACTGCGGCCCTCCAACAAGTCGGTGGATGTCTTGGCAGGACTGCTCTGA
GAAGGATGGAGCTGAAGCCCCCTCCGTGTGTACAGTGAGCAGGCTGAGGCCAGCGAGTTCCAGTGCCGCGTGTGG
GCAGCAGGAAGCTGCTCAGGAAGAGCCCCCGGAGGGGAGGCCGAACCAGAGCCTCAGGAGCATCACCTGCACC
ACCGGATCCGGCAGGCCCCCAACCCTTACTCGTCGGAAATCAAGGCCTTTGACACCCGGCTGCAGAGAGGGGAGC
TCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGTCTTGTGGGAGGCTCGGAAGTTGAGCTGGACCGGCATG
AGGTCATCCTCTGCACCTGCTCCTGTGCAGCCTCTGCCAGCCTCAAAATCCTGGACGTGAGGCAGATCCTTGTTG
ACGAGGCAGGCATGGCCACGGAACCTGAAACCTCATCCCCCTGGTGCAGTTCCACAGGCCGAGAAGGTGGTTC
TTCTCGGAGACCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCGGTCTC
TGTTGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCATGAGGGCATCTGTGCCTTCC
CCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCCTGGGCCACG
CTGGCAAGGAGAGCTGCCCTGTATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACG
AAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACCAAGCAGCTGACCTGG
GGAGGACCGTAGAGCCCCAGGACATCGCCGTCTCACGCCCTACAACGCGCAGGCCTCTGAGATCAGCAAGGCC
TTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCTCCATCACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGC
TGGTGAGCACCGTCCGCACCTGTGCCAAGAGCGACCTGGACCAGCGGCCACCAAGAGCTGGCTCAAGAAGTTTC
TGGGCTTCGTTGTGGACCCCAACCAAGTGAATGTGGCTGTACGCGGGGCCAGGAGGGGCTCTGCCTGATCGGAG
ACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCTCAGCAGACCCTCGTGC
CTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAACTATGCCTTCTCTGAAGAGCCCTCTCCACCTGCAAGGTGCCAG
GACTGGGAGGGAAAGTCCAGGGCCCCCCCCACCCTCCCCACCACCTCCGCCATCAGCCTGCCTGGGCCAGCCTGC
CTCCTGGCCTCAGGATCTCCCTGGGGCAGGAAGTGGGTGGACTTGGAGGAGGAACGGCAAGGGCCGGTCCCCACA
CTCTTGCTCCTCCTGGGCATCTGGGGACAGGAACACCTCTCAGGGTGGCCAAGAGGGGCTTCTTGGGACCAGTG
CAAGGAAGTTCTGCTGTCCCTGGGAAGTCTCAGAACAGGAAGGAACCTGTGGAGGCTGCCCTTTGACCTTTG
GACGCCACCTGTAATCACTCTGGATGGTGTCTGTGGAGTTAGGTTTATTTTCTATTTAAATGAACTAAAAGCCA
GCATCTGCCGGGCGTGGTGGCTCACGCCATAATCCAGCACTTTGGGAAGCCGAGGCGGGCAGATCACCTGAGG
TCAGGAGTTGAGACCATCCTGGCCAACATGGTGAAACCCCGTCTCCACTAAAAATACAAAATTAGCTGGGCGTG
GTGGCGGGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAATCCAGGAGGCGCAGGCT
GCAGTGAGCTCTGATGGTACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTTAAAAAAAAAAAAACAA
AACAAAAACCAGCATCTGTTACTGGAACAGAGACCTCAGCCCAAGCTCAGGACAAGGAGGCCTCCCTGGGAGAGGG
GGCCTTTCTCCACCATCACCGCCTGTGTCTTCAGGGGCTGCTGGAGGGCAGCCCAAAGCCAGGGGCCACCCC

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FIGURE 5867C

GCCCCACCCACCCACCCACCCCTCTGAAATGTGAAAAGCCTGCACTCTTCCTGTGGGCTGCGCAGTGGGCTCG
GGGGTTGGGGGGTGCCGGGGCGATGCTTCCACCCTGGACTGAGTGTTTCGGGGCAGCCTGCTCGGCTGTATGTTTC
TCGCACGCTCACCGCTTCAGTGC GGCTCTGTCCCTGCTGCCGCCTCCAGTCCTGAGGGAGGGGCTTGCCCCACC
TTCTACATTCCAATTTTTATATCTTTGAATTATGTGATTAGATATTAATTTAATGAT

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FIGURE 5868

MSSSPSRSAADIYIREYFHSVSGGHPEATPLRVMYTDRPLSQTDPTLQYCCLTDDRQAFRPPTRAELARHRVV
VTTSQARELRVPVGFFSHILIDEAAQMLECEALTPLAYASHGTRLVLAGDHMQVTPRLFSVARARAAEHTLLHR
LFLCYQQETHEVARQSRLVFHENYRCTDAIVSFISRHFYVAKGNPIHARGKVPPHPRHYPLMFCHVAGSPDRDMS
MASWLNLAIEIAQVVEKVQEAYNTWPSWGGREQRCICVSHGAQVSALRQELRRRDLGQVSVGSFEILPGRQFRV
VVLSTVHTCQSLLSPGALAPEFFTDARVLNTVLTRAQSQLVVGDAVALCSFGACGKLWESFIRECVERHSVCPE
GLSMEQVEQGVARRRWPPRGTOAGAAGNWEAAPEFVGDLAEEQAAVVTAMVKAEPGDEALSPASRDITATTAQT
EAAAAPAGDAVKEDVVPGACAAGAAAAAGVESTAEADAEADFWPWDGELNADDAILRELLDESQKVMVTVGEDGL
LDTVARPESLQQARLYENLPPAALRKLHAEPEYRHCSEFVPETFERASAIPLDDASSGPIQVRGRLD CGMAFAG
DEVLVQQLSGDKAPEGRLRGRVLGVLKRKRHELAFVCRMDTWDPRI MVPI NGSVTKIFVAELKDPSQVPIYSLRK
GRLQRVGLERLTAEARHSRLFWVQIVLWRQGFYYP LGIVREVLPEASTWEQGLRILGLEYSRLVPPSDQATITKV
LQKYHTELGRVAGRRED CRAFTFTVDPQGACNLDDALSVRDLGPRCEVAVHITDVASFVPRDGVLDVEARRQGA
AFYAPGREPVMPASPASLCQDVLSLLPGRDRLAISLFLTMEKASGQLKSLRFAPSVVQSDRQLSYEEAEVIRQHP
GAGRELPARLDSVDACVVAACYFSRLLRRHRLRSDCFYEQPDEDGTLGFRAAHIMVKEYMIQFNRLVAEFLVGSE
CTRVTPTLRWQPAPRSQQLKALCEKHGDRVPLSLHLGHHLHG GGGSPDTRLHLLASLWKQVQFAARTQDYE QMV
DLVTDDMHFPFLAPAGRD LRKALERSAFGR CARGHQQQGGHYSLQVDWYTWATSPIRRYLDVVLQRQIILLALGHG
GSAYSARDIDGLCQAFSLQHALAQSYQRRARSLHLAVQLKAQPLDKLGFVVDVEAGSRCFRLLFP SNRETL PDPC
PVPYGS LQLAEHPHALAGRPGLRLLWRRRVYSAQGSSPPLPLPGTVPDPHTLAVETALWKQLLELVELQRWPEAA
ALIQEKGEASQRREL VQVQRSHCGHFLEVARELGS GDTLQVQLGTS LQHGF LVPSPQLWTVAPGFSLCLEHVERP
GDCFSGRVYRAPRDYRDVDEYACVWEPFCALESATGAVAENDSVTLQHLSVSWEASRTPQGQLQGAFRLEAAFL
EENCADINFSCCYLCIRLEGLPAPTASPRPGPSSLGPGLNVDPGTYTWVAHGQTQDWDQERRADRQEAPRRVHLF
VHHMGMEKVPEEVLRPGTLFTVELLPKQLPDLRKEEAVRGLEEASPLVTSIALGRPVQPPLCRVIPSRFLERQTY
NIPGGRHKLNPSONVAVREALEKPFTVIQGPFGTKTIVGLHIVFWFHKSNOEQVQPGGPPRGEKRLGGPCILYC
GPSNKSVDVLAGLLLRMELKPLRVYSEQAEASEFPVPRVGSRKLLRKSPREGRPNQSLRSITLHHRIRQAPNPY
SSEIKAFDTRLQRGELFSREDLVWYKKVLWEARKFELDRHEVILCTCSAASASLKILDVRQILVDEAGMATEPE
TLIPLVQFPQAEKVLLGDHKQLRPVVKNERLQNLGLDRSLFERYHEDAHMLDTQYRMHEGICAFPSVAFYKSKL
KTWQGLRRPPSVLGHAGKESCPVIFGHVQGHESLLVSTDEGNENSKANLEEVAVVRITKQLTLGRTVEPDIA
VLTPYNAQASEISKALRREGIAGVAVSSITKSQSEWRYVLVSTVRTCAKSDLDQRPTKSWLKKFLGFVVDPNQV
NVAVTRAQEGLC LIGDHLLLRCCPLWRSLLDFCEAQQTLPAGQVRVCRRPTMPS

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FIGURE 5869

ATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGACCTACCGTGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGC
GCCGGCCTGGATTTCGTCTGAGCAGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACC
GAGGCCAGCCTGGTGTCTGTCAGGAAGAGCAGCTTGTTGGCCGCGCTGGACGAAGAGCGCCCCGGGCCCGCCAGGAA
GATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACCAGCAGCGCCCCGTGGGTCCGGA
TCAGAGACCGTTCCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGAC
GAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCACTCTGGAGTATCACAACGCC
ATGGTGGTGGGAACGGAAGAGGCGGAGGATGGCTCGGCGGGTGTCCGTGTGCTTTACCTGTACCCCACTCACAAG
TCTCTGAAGCCGTGCCCGTTCTTCTGGAGGGAAAGTGCCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAG
GTGGTCTCTCTGGATGAGCTGCGCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTGTCTG
GCCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTT
GACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGGACGGCATCCTGCCCCACTGCGCACAGAGGCCACAGAG
TCCGACTCAGACAGCGACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGG
ACCTGCAGCTCTGCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTCACCAAGATGGGC
TATGAGTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGGTGGAGCCCATCCATGCTGTGGTGTTCCTCGA
GGGAAGTCGCTGGACCAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCAACAAGCCC
CCCAGGTGCCGGGGAAGAGGGGCCAGGCCTGGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTTCCTCAATGAA
AAGCTGCAAGGTCAGGCTCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGGAGCAAGGACATGTAC
CATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGAGCGAAGCCAG
CGGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGCAACGCTGGCCGGCATAGCGTGGCGTCAGCCAGCTGCAG
GAGAAGCTGGCAGGAGCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAGAGG
AAGGCAGACACCCACAAGAAGATGACTGAGTTCTAG

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FIGURE 5870

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSSLLAALDEERPGRQE
DAEYQAFREAI TEAVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYSSWGTLEYHNA
MVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFFLEGKCRFKENC RF SHGQVVSLDEL RPFQDPDLSSLQAGSACL
AKHQDGLWHAARITDVDNGYYTVKFDSL L LREAVVEGDGILPPLRTEATESDSDSDGTGDSSYARVVGSDAVDSG
TCSSAFAGWEVHTRGIGSRLLTKMGYEF GKGLGRHAEGRVEPIHAVVLPRGKSLDQCVETLQKQTRVGKAGTNKP
PRCRGRGARPGGRPAPRNVDFLNEKLQGQAPGALEAGAAPAGRRSKDMYHASKSAKRALSLRLFQTEEKIERTQ
RDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQRKADTHKKMTEF

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FIGURE 5871A

CGCTGCCGGTGCCGCACCCGCGCCCTCTGCCGCCGCCGCCGCCGCCGCCGGGTCTCCAGGCTGAGGAGTGCGT
CGGCCGCTGCCCAGCAGCGCCGCGAATCGGGGAGCGGAGCCGCGGAGCCGCGGGAGGGCGGGCGGGCGGCGGA
CGGGCAGAATAGCCTAACATGGCAGACCAGAGACAGCGCTCACTGTCTACCTCTGGGGAGTCATTGTACCACGTC
CTTGGGTGGACAAGAACGCAACCTCAGATGACATTAAAAAGTCTATCGGAAGCTTGCTTGAATATCACCCC
GACAAGAACCCCGACAACCCGAGGCCGCGGACAAGTTTAAGGAGATCAACAACGCGCACGCCATCCTCACGGAC
GCCACAAAAAGGAACATCTACGACAAGTACGGCTCGCTGGGTCTCTACGTGGCCGAGCAGTTTGGGGAAGAGAAC
GTGAACACCTACTTCGTGCTGTCCAGCTGGTGGGCCAAGGCCCTGTTTGTCTTCTGCGGCCTCCTCACGTGCTGC
TACTGCTGCTGCTGTCTGTGCTGCTGCTTCAACTGCTGCTGCGGGAAGTGTAAAGCCCAAGGCGCCTGAAGGCGAG
GAGACGGAGTTCTACGTGTCCCCGAGGATCTGGAGGCACAGCTGCAGTCTGACGAGAGGGAGGCCACAGACACG
CCGATCGTCATACAGCCGGCATCCGCCACCGAGACCACCCAGCTCACAGCCGACTCCCACCCAGCTACCACACT
GACGGGTTCAACTAAATCCAGGAGGAGCTGTGGTCAGAGGAGGAGCCGCGCCTGGCCACGCCAACCTTAGAATC
ATGAAGTGTAGTCACAGAGATGGGAAGGCAGCCTCCTGCCTGCCCTGGCCTTGCTGGGGCCCCCTCCTGCCTCCAC
GCCCCACCCAGCGTCGACCCTTGACCCACGAAGTGCCTAGCATGCAGTATTTAAAGCAGTGTAGCTACGGTCTTCT
GTTTTTTTTCCCTTTTTTAATAGCATGTATGGGGTTCTGTTCCATGTCTGTGTTGTGGACATTCCGCGGCATGACC
GCGTGAACTGCACGGTGGAGCTGCCTCAGGGCTGTGCGGTGAGTTGGTCCAGTGAGGGGTGACTGCAGCCGGTCA
GGTGGGCGAGGAGAAGGGGGGCTGCCCCCTTCTACCTGTGCTTGAGGGGGCCGAGGCAGGTGCTGCCTGGCAGA
GCTGTGTTACCGTCTTGCCCTCGGGGTCTGGTCCACACTCTGTGCTCCAGCCTTGAGGCTGCAGTAGGACTCTG
ATCTCACCTGCCAGAAGAGAGGCGGGGCCGCTCCTCCTGGCGTCACCGGCGTCACTGTCTATTCTTGGTGTCTG
TGCTGGGCATGGTTGGCTTGGGGTCTGTGGTTTCTGCGCCTTGTTGGCAGGGTTTCTCCCGTGGGAGAATTGG
TGTGGAAGCATAGGAGGCCCTTCCGAGGTTGACACCGTGTCTCCGCGGTGTTTCTCGCCTGGTCTGCTCTGTC
GTGTGGACGCTGCCGTTCTGGTTCTCGGAGGTGTGTCCTTCGCCGTGTTGGGGTTATTTGTCTGTGTTCTGTCAC
TTTTCCCGGGCTCTGAGCTGGATTGATGGGGCCAGTCTCCCCCTCCCATCTTGAGGTCGTTCTCCACATTCTT
CCAGCACACCTGTCTTTCCATAGCCCTTTTTGGACCTTTAGAACCACAGATGATAGGACCAGCCCCAATGAGCCA
CAGTCAGAGAGTAGATTGTGCATGTGTGAGCACCCAGCTACTGGGGACGGGGGCTCTCCCACGACCCCTCCTCCT
GTGTTTGCCAGAGCTCCCATCTGCCCCACTCGCCTTGCCCCGTGTCATGATGATTAGGCAGAGCCAGATTGCTT
AGGTCCCTGGAGGAAGGACTGACTGGACCAGAGGGACCTCTGGCTCAGGAGGGTTGGGTCCCTGGGAGGCCGGC
AGCCAGGCCACAGAATCCACACGTGGACCATTGTGGGTCCCTGGGAGGCCGGCAGCCAGGCCACGGAATCCACAC
GTGGACCATGTGGGTCCCTTGGGAGGCCAGCAGCCAGACTACGGAATCCACATGTGGACCATGGGAAGTCAGTC
TCTTGCGTGTCTTAGACCTTGTGGGTGGCGCCCTGCATAGGGGAGCAGGGGGAACGGGTCTGATGTCCCTGTGCT
GGCTGAGGGCTCAGAGCTGCCCCGACTCCGTAGCTCATGGGATGTGCTGGGCCTGCCTTTGGCGCCATGCTGCAG
ACTCCAGTGGGCCTGGTTTCTGCAGAATGTCCATGGTGGCCGCTGCAGAGTTGCAGAGGTCCCTGTAGAGATAAA
GCTGAGGAGGAGGCTGTGTGTGATGGCTCTGGCTCGGACCAACCAGATGAGCCTCCTGAAGCCCCCTTCCCTGCC
TGCTGCTGACCCGTGGCCCCAGCTCACTCATTGCCCTCAGCAGCCACCCGAGGCTGTGCAGAAGGGTAGGTTCA
GGTTGACCAGGAAGCTGCCAAAAGGGACATGGATATGAGGATACATCTGGACGTGCTTAGGAACAGGGTGCTGGT
TGAGGGCCCCCAGCTGACCCCTACTGCAGATCCGCATGTGGACCATGAGCCGGCTGCCAGCACTAGGTCTGGGC
AGCTTTGTTTGTCCACTTTTCTTTGTTTCTTCTCACTAAAATGATCACGAAGACCTTTGACAAGAGGAGAGATA
TGCAGTGTGATATTAAATTAGAAATAATTTATCAAAATCAGACCTCTCCTAAAAGAATAAGAAATTCATTGTTTG
GCCCCATCCTGAAAGGTGAGGTGGCGAGACAGTGGGGTGCCCTCCGTGCCGCTTCGTGCAGCAGCAAGTTCAGCCTG
AGATGCTGGCTGTACTCAGCCTTTGCAATTTTTGTAGATGTAGCTTAGGACGTGAGTTATTTTTCCGCAGACTGG
CCAAGAGCCAGGTTCTAAGCTTGGACCTAAGGTAGAAAGCTGCCCATCGGGGGCCCTAGCTCAGCCCCACCAGGC
CCTCTGTTGGGCCTGCACACAGCTCTGTGGCTAGAACACTCCAAGGCCCTTCGGTACCCATCAGAGTGGGCCCT
TGCCAGGTGGCTTTTTCAGTTACAGAGTCCAGTGGACCATTTTGTAGAACCATGCAGCTCCCTGCGGAAGGTGGGG
TAGGGTGGGAAAGAGGAGCAGGTCTGGAGGTTTGTGGAACCCAGTCCCCTGCAGAATCTGTAAAACCTAATAAAT
CATGGTTGTGGCCATTCTCACGGTGGTGATTGTGATTAGACGACCCCGGGAAGCCAGACACTCGGGCCTGGA
GTTCTTCCCCCTGCCTGACCTAGAAGCAGAACCCTTTTCAGCGCTCTGCCCTGTTGGCTTTAAGGCTTTGTCTTA
ATTTAAGGAAAAAGATCCTCCCGGGTTTTATTTCTCTCTTTCTTGAGTGGACTGTTTCCCTATAATTAAAAGAGG
TGGTGAGTCTTGGGGCAGCTTCCGCGCCTCCCTGTCCACGTGCTAACAGATCAGGACGCCCCAGCACCCCTGCC
TGCTTTTGCTGGTGGCAGTGACGGGACCCGACTCCTCACTCTCGGGCCGAGACAATGCTGTGAGCAAGTGTGG

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FIGURE 5871B

CCATGGGCACAGAATGTCCCTTTGGACGCCGCTGCTGGGGGCTGCCAGGGGCCCTCTGGGGTCTGTGCTTTGAGGC
CCGTCCGGTTCACGAGGGGGTCCGGGCAGCACTGACTGCTTCCGACCTGCAGGAGGCGTAGGAGCGGCCCTGCGG
GCCCTTTCACGGCAGCTGCTGCTGTATAGATTTGTCTCCACTCAGTGACGTGGGATTTTTTTGTCTTCCTTTTG
CTTTATTTTAAACTGCTTTAGATATTACTGCTCAGTGTGTGTGAACCTTCCTAGTTCTCTATGTTGTTAGTGCA
GCCAGCACCCAGTGGGGACCTACTAGAAAAAGGAACTGGCATGCACACGTGCCAGCAGGAAAAGCTTCGTCTTC
ACGTCGGCTGCTGCCATCCAGAAGAGGCCCTGGAGCCTCACGCCGTCGAGGCTGCTCTCAGGCGTTCTGTTCCGG
GCGAGGCTTGTGCTGCAAGGAAGGGCACCAGCATGCAGGCTGCCACTGGAGGGTCCGGGTGCTGCGGGCAGAGTT
CAGCGCTTGTCCACCCTCCCTTAGCTCTGACTCAGTGCATCCTACTGTGGGGACATCTCGTGAGGGGACACGAAA
TGACTGATCTCACCCCTTTCCCAGTATTAGAGCTGTGAACCCCTGTGGCGCAGGACTGGCCTGTGTCTGTTATTT
TGGTTGTAAATCATTCTCCTGTGGAATTGGCAAAAAGCTACATTTTTACTGTCTTACCAGCAACAGTTTGCGTCG
TCACATGCTGTGAGTGTGGGCTGTGGTGTGTCCGTGTGTGTACATATGTGTATATGTATATATCACGCAGCAGGA
GTGTCAATTCATGCTGCTGTCCCTGGTGAAGTGACAAGTACAATTAAAGGTGGCTCTGAAATGGCCTCTGGTTTC
TTGGGAGTCGGGCAGGGACCTGCAGGAGGCTTTCCAGCAGGTGCACAGAAGGAAGCGCTGAGCCCACTGTGTGC
AGAGGGTGTGTGCCAGGGCACTGCCACGGCCCCCACCAGCATTGGCCTCTGCTCTGCAGGGTGGGTGCCCATC
CTGGGGGCTGTGTGTATGCTCACCTGACCCAGGTGTGTGTCCCGGTGTGAAATCGAGGAGGGGACTGGAAGCCC
TTCCCTGCCTTGAAACATGAAAGCTGATTTTCTGAGCAGCAGATACGGTCAGTGGCAAAGCTGCATCTGAAGGGC
GGCCTGGGAAGGGGCCCTGTGCTGGCCCCGGGTCCGCCCCAGAGGAGTCCACACAGCACCACTCCAGAAGGGGC
TGGGCCCCGGGTCTGTCAGGCGGCACCTTTTGGTAGAGTTTGTTCCTGGAAAATGGGGAAAATGTTTCAAGCC
AGGTGAGGGGGGAAGTTAACTGAAATATGTATTGTTTTTAAAAATCAAATGCACACGCATGGAAGCTGCTTGT
CCATGCACTGGTTTTGTCACTGGCGTCCTGGAATCCGACCGTGTGGGGTGCAGGCGCTGTCAGACTCCGGCTGA
TCCTGGCTCGAGCACACACATCTAAGGGCCAGGCTGGTTCCGCATGGTGATCTCCGTCTTGTATGTCTGAATGTT
GGCCTAAAATAAAGATTACTGTTGTAAAAAT

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FIGURE 5872

MADQRQRSLSTSGESLYHVLGLDKNATSDDIKKSYRKLALKYHPDKNPDNPEAADKFKEINNAHAILTDATKRNI
YDKYGSGLGLYVAEQFGEENVNTYFVLSSWWAKALFVFCGLLTCCYCCCCLCCCFNCCCGKCKPKAPEGEETEFYV
SPEDLEAQLQSDEREATDTPIVIQPASATETTQLTADSHPSYHTDGFN

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FIGURE 5873

CTACGGAGTGCATCGGACGTGGAAGCCTAGAGTCTCTGCGTCTTTCCCTCTTCCGCTGCCTCATTCTTTCTTC
CTAGCCTTGGTTCGTGCGCCGCCACCATGAACAAGAAGAAGAAACCGTTCTAGGGATGCCCGCGCCCCTCGGCTAC
GTGCCGTGGCTGGGCGGGGCGCCACTGGCTTACCACGCGGTGAGACATTGGGCCCGCCCGTGATGCAAATGAC
CCTGTGGATGATCGCCATGCACCCCAGGCAAGAGAACC GTTGGGGACCAGATGAAGAAAAATCAGGCTGCTGAC
GATGACGACGAGGATCTAAATGACACCAATTACGATGAGTTTAATGGCTATGCTGGGAGCCTCTTCTCAAGTGA
CCCTACGAGAAAGATGATGAGGAAGCAGATGCTATCTATGCAGCCCTGGATAAAAGGATGGATGAAAGAAGAAAA
GAAAGACGGGAGCAAAGGGAGAAAGAAGAAATAGAGAAATATCGTATGGAACGCCCCAAAATCCAACAGCAGTTC
TCAGACCTCAAGAGGAAGTTGGCAGAAGTCACAGAAGAAGAGTGGCTGAGCATCCCCGAGGTTGGCGATGCCAGA
AATAAACGTCAGCGGAACCCACGCTATGAGAAGCTGACCCCTGTTCTGACAGTTTCTTTGCCAAACATTTACAG
ACCGGAGAGAACCATACTCAGTGGATCCCCGACAACTCAATTTGGAGGTCTTAACACACCCTATCCAGGTGGA
CTAAACACTCCATAACGAGGTGGAATGACGCCAGGACTGATGACACCTGGCACAGGTGAGCTGGACATGAGGAAG
ATTGGCCAAGCGAGGAACACTCTGATGGACATGAGGCTGAGCCAGGTGTCTGACTCCGTGAGTGGACAGACCGTC
GTTGACCCCAAAGGCTACCTGACGGATTTAAATTCCATGATCCCGACACACGGAGGAGACATCAATGATATCAAG
AAGGCGCGACTGCTCTCAAGTCTGTTGCGGAGACGAACCTCATCACCCGCCAGCCTGGATTGCATCAGCCCGC
CTGGAAGAAGTCACTGGGAAGCTACAAGTAGCTCGGAACCTTATCATGAAGGGGACGGAGATGTGCCCCAAGAGT
GAAGATGTCTGGCTGGAAGCAGCCAGGTTGCAGCCTGGGGACACAGCCAAGGCCGTGGTAGCCCAAGCTGTCCGT
CATCTCCACAGTCTGTGAGGATTTACATCAGAGCCGAGAGCTGGAACGGACATTCTGTCAAAGAAGCGGGTT
CTTCGGAAGCCCTCGAGCATGTTCCAACTCGGTTGCTTGTGGAAAGCAGCCGTTGAGCTGGAAGAACCTGAA
GATGCTAGAATCATGCTGAGCCGAGCTGTGGAGTGTGCCCCACCAGCGTGGAGCTCTGGCTTGTCTGGCAAGG
CTGGAGACCTATGAAAATGCCCGCAAGGCTTTGAACAAGGCGGGGAGAACATTCTACAGACCGACATATCTGG
ATCACGGCTGCTAAGCTGGAGGAAGCCAATGGGAACACGCAGATGGTGGAGAAGATCATCGACCGAGCCATCACC
TCGCTGCGGGCCAACGGTGTGGAGATCAACCGTGAGCAGTGGATCCAGGATGCCGAGGAATGTGACAGGGCTGGG
AGTGTGGCCACCTGCCAGGCCGTGATGCGTGCCGTGATTGGGATTGGGATTGAGGAGGAAGATCGGAAGCATAAC
TGGATGGAGGATGTGACAGTTGTGTAGCCACAAATGCCCTGGAGTGTGCACGAGCCATCTACGCCCTACGCCCTG
CAGGTGTTCCCCAGCAAGAAGAGTGTGTGGCTGCGCGCCCGCTACTTCGAGAAGAACCATGGCACTCGGGAGTCC
CTGGAAGCACTCCTGCAGAGGGCTGTGGCCCACTGCCCCAAAGCAGAGGTGCTGTGGCTCATGGGCGCCAAGTCC
AAGTGGCTGGCAGGGGATGTGCCTGCAGCAAGGAGCATCCTGGCCCTGGCCTTCCAGGCCAACCCCAACAGTGAG
GAGATCTGGCTGGCAGCCGTGAAGCTGGAGTCCGAGAATGATGAGTACGAGCGGGCCCGAGGCTGCTGGCCAAG
GCGCGGAGCAGTGCCCCCACC GCCCGGGTGTTCATGAAGTCTGTGAAGCTGGAGTGGGTGCAAGACAACATCAGG
GCAGCCCAAGATCTGTGCGAGGAGGCCCTGCGGCACATATGAGGACTTCCCCAAGCTGTGGATGATGAAGGGGCAG
ATCGAGGAGCAGAAGGAGATGATGGAGAAGGCGCGGGAAGCCTATAACCAGGGGTTGAAGAAGTGTCCCCACTCC
ACACCCCTGTGGCTTTTGCTCTCTCGGCTGGAGGAGAAGATTGGGCAGCTTACTCGAGCACGGGCCATTTTGAA
AAGTCTCGTCTGAAGAACC CAAGAACCCTGGGCTGTGGTTGGAGTCCGTGCGGCTGGAGTACCGTGCGGGGCTG
AAGAACATCGCAAATACACTCATGGCCAAGGCGCTGCAGGAGTGCCCCAACTCCGGTATCCTGTGGTCTGAGGCC
ATCTTCCTCGAGGCAAGGCCCCAGAGGAGGACCAAGAGCGTGGATGCCCTGAAGAAGTGTGAGCATGACCCCAT
GTGCTCCTGGCCGTGGCCAAGCTGTTTTGGAGTCAGCGGAAGATCACC AAGGCCAGGGAGTGGTTCCACCGCACT
GTGAAGATTGACTCGGACCTGGGGGATGCCTGGGCCTTCTTCTACAAGTTTGAGCTGCAGCATGGCACTGAGGAG
CAGCAGGAGGAGGTGAGGAAGCGCTGTGAGAGTGCAGAGCCTCGGCATGGGGAGCTGTGGTGCGCCGTGTCCAAG
GACATCGCCAACCTGGCAGAAGAAGATCGGGGACATCCTTAGGCTGGTGGCCGCGCGCATCAAGAACACCTTCTGA

TTGAGCGGTTGCCATGGCCGGTCTCCGTGGGGCAGGGTTGGGCCGCATGTGGAAGGGCTCTGAGCTGTGTCTCC
TTCATTAAAAGTTTTTATGTCTCGTGTCAAAAAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 5874

MNKKKKPFLGMPAPLGYVPWLGRGATGFTTRSDIGPARDANDPVDDRHAPPGKRTVGDQMKNQAADDDDEDLND
TNYDEFNGYAGSLFSSGPYEKDEEADAIYAALDKRMDERRKERREQREKEEIEKYRMERPKIQQQFSDLKRKLA
EVTEEEWLSIPEVGDARNKRQRNPRYEKLTFPVDSFFAKHLQTGENHTSVDPRTQFGGLNTPYPGGLNTPYRGG
MTPGLMTPGTGELDMRKIGQARNTLMDMRLSQVSDSVSGQTVVDPKGYLTDLNSMIPTHGGDINDIKKARLLLKS
VRETNP HHPPAWIASARLEEV TGKLQVARNLIMKGTEMCPKSE DVWLEAARLQPGDTAKAVVAQAVRHLPQSVRI
YIRAAELETDIRAKKRVLRKALEHVPNSVRLWKA AVELEEPEDARIMLSRAVECCPTSVELWLALARLETYENAR
KVLNKARENIP TDRHIWITA AKLEEANGNTQMVEKI IDRAITSLRANGVEINREQW IQDAEECDRAGSVATCQAV
MRAVIGIGIEEEDRKHTWMEDADSCVAHNALECARAIYAYALQVFPSKKS VWLRAAYFEKNHGTRESLEALLQRA
VAHCPKAEVLWLMGAKSKWLAGDVPAARSILALAFQANPNSEEIWLA AVKLESENDEYERARRLLAKARSSAPTA
RVFMKSVKLEWVQDNIRAAQDLCEEALRHYEDFPKLWMMKGQIEEQKEMMEKAREAYNQGLKKCPHSTPLWLLLS
RLEEKIGQLTRARAILEKSRLKNPKNPGLWLESVRLEYRAGLKNIAN TLMAKALQEC PNSGILWSEAI FLEARPQ
RRTKSVDALKKCEHDPHVLLAVAKLFWSQRKITKAREWFHRTVKIDSDLGDAWAFFYKFELQHGTEEQQEEVRKR
CESAEPRHGELWCAVSKDIANWQKKIGDILRLVAGRIKNTF

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FIGURE 5875

AAGTCCCGGCCCCCTGGCTTTGGGGAAGTGCCGCCGAGGCGCCTGCGCACTGCGCCCCCGCGCCCCCTCCCCGACT
GTCGGGCGCGACCTTGGAGCGCGCGGGCCGGCGGCGCGAGTGGCTCGGGAGCGCGGCTGACCCCCAGGCTGT
GGTGAGGGTCTGAGAGCTGGTACCACGGAGCCTGGGCAACCTCCTCCGCCCACCCATGCCCCACCCCGCATGAGGC
TGAGAAGCAGATCACAGGGCCAGAGGAGGCGGACCGGCCCCCTTCAATGTCCAGTCATGATACAGCCTCTCCAGC
GGCCCCCAGCCGCAACCCCTGCTGCCTGTGCTGGTGTGCTGCTGTAGCTGCTCCTGGAACCAAGAGCGGCGGCG
CGCGTGGCAGGCCTCCCGGAGAGCAAGCTGCAGCCCCCTCCCAGCTGTGAAGTATGTGCCACGCCAAGTCCTGA
GGAGGTGCAGAGCTGGGCGCAGTCTTTTGACAAGCTGATGCACAGCCCAGCGGGACGCAGCGTGTTCGGGCGTT
CCTGCGGACAGAGTACAGCGAGGAGAACATGCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACCA
GCATGTGGTAGACGAGAAGGCGAGGCTCATCTACGAGGACTACGTATCCATCCTGTCCCCCAAGGAGGTGAGCCT
GGACTCCCGTGTGCGGGAGGGCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTTCGACGACGCGCAGCT
GCAGATCTACACGCTCATGCACCGGGACTCCTACCCCCGCTTCTCTCAGCTCTCCACCTACCGTGCCCTGCTGCT
GCAGGGGCCATCACAGTCCTCCTCCGAGGCCTAGGCCGCCCCCAGCAGCACAGACCCCGCCGCTCCTACGGCCG
ACTCTGGGTTCCCTTCAGGTGTTGTTGTGTCGGCAGGGCTGTGAGGGCACATGCCTGGCCGGCTGGGGTCCCCACCC
GCGGAGACGGTCCTAGACCCAGTGGGGAGTGCTGTGTCTCCTGGGTCTGCCCACCCGTGGCCAAGCAGGAACTCC
AGGTGCAGGGCGGGCCTCCAGGTGCAGGGCGGGCCAGAAGCCCCCTCATCGGCCCCGAGCTGGCTGGCCAGTGC
TCCTGGCTGGGGGCTCTTGCGTGGTGAGAGTAGGGGTCCCCCAGGAGCCATGCTGGACCCATGAGCCTCGCTGG
GGCTCCTCCCCAGGCAGCCAATGGGCCCCAGACAAGCCTTTGGTGGGGAACAGAACCTCCGCATCGTGTAGTTT
TGTGACATAAGGAGACCTCCTACTTGAGCTGTCTGTACCCAGAAATCAAACACAGAACCTCAGAACCAGATTTAG
GACCTCAGAACTCTGCACTCAAGGTGGCAGGACCCAATTTCTGTTTTATATGTTTCATGAACCTTTAAACCTGGAAA
CATGTCCTTACTAGGTGTTTTATCAAAAAAAGTTTTCATATTTATCTCTATCCCTAACCCCCCAAAAATAGGAT
GTCTTATTATTGAAGATATTTTTAAAGC

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FIGURE 5876

GGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTTCTTCGACATTGCCGTCGACGGCGAGCCCTTGGG
CCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGGCTTTCACAGAATTATTCCAGGGTTTAT
GTGTCAGGGTGGTGACTIONCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGA
GAACTTCATCCTAAAGCATACAGGTCCITGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGATCCCA
GTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTGGCAAAGTGAAAGAAGGCAT
GAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTG
TGGACAACCTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGGTCATTCCTTCTGTAGCTCAGGAGAGCAC
CCCTCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTTT
CCTTGTTCCCTCCCATGCCTAGCTGGAT

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FIGURE 5877

GCTCGATGGTCGAGGCCATCTCCTGGTCCGCCTGGCGGCCATCGTGGCTAAACAGAACAAGTTGAAGTACCTGGG
TTTCCTCCGCAAGCGGATGAACACCCACCTTTCCCGAGGTCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCT
GGCGGACCGTGCGAGGTATGCCGCCCCACAAGACCAAGCGAGGCCAGGCTTCTCTGGACCGCCTCAAGGTGTTTG
ACCGCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCTCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCT
ACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTG
GAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCC
GAGAAGAACATGGAGAAGAAAATTGACAAATACACAGAGGTCCTCAAGACCCACAGACTCCTGGTCTGAGCCCAA
TAAAGACTGTTAATTCCT

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FIGURE 5878

GCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCTACA
AGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAG
GAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAG
AAGAACATGGAGAAGAAATGAGCCCAATAAAGACTGTTAATTCCTCATGCGTGGCCTGCCCTTCCTCCATCGTCG
CCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGCGCCACAGGCAGCCTCGGACACAGGAAGCTGGGAG
CAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAACTGTGCAGGTGTCATTTATC
TATGACCAATAGGAAGAGCAACCAGTTACTATTAGTGAAAGGGAGCCAGAAGACTGATTGGAGGGCCCTATCTTG
TGAGCGGGGCGTCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGCAAGGACTTGGGGAC
AGTATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGCACAACCAAGGGGTT
ACAGGCATCGCCCGTGCTCACCTGTATTTTGTAATCAGAAATAAATTGCTTTTAAAGAAAAAAATAAAA

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FIGURE 5879

ACGAGGGGAAGAAAGGAGTTGGGGCAAACAGGAGGCGTTTCCCTACCCGCATACATCCCCGTCCCCGAGACACC
CAATCCCCCACCACCCAGCCTGCCCCGCGCTCCCGCCCCCAGCTCCTCGCCCTGGGGACAGCTGGCAGCCCCGCG
CGGACCAGACACAAAGCCGATCAATCCCGGAGGCGTGGGGGCGGAGGGACGACCCGCCGGGGCTTTCCCGGGCGC
TGCTCTCCTCCTGCTGCCCCCTCGCTAGGACCCGCGGACGCCTCGTCTGGTTTTACGCCCTCTAGCCCCCTACC
CCCACACCCCCAAAACAGAACAGACCCCCATCCCTGGGCTGGAGGACCCGCCCTCTTGGCAGCCAGCTGAGAAGGC
GCCCCGGGGAGGGGGAAACTGACATCCCATCTAGAGCCGTCCCTCCTCTTCTCCCCCTCCCGACTCTCTGCTCCT
TTCCCCCCCCAGAAGTTCAAGGGCCCCCGGCCTCCTGCGCTCCTGCCGCCGGGACCCTCGACCTCCTCAGAGCAG
CCGGCTGCCGCCCGGGGAAGATGGCGAGGAGGAGCCGCCACCCGCCTCCTCCTGCTGCTGCTGCGCTACCTGGTGG
TCGCCCTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCAAAAAGACCAACAAGTAGTCACAGCAGTAGAGTACC
AAGAGGCTATTTTAGCCTGCAAAACCCCCAAAGAAGACTGTTTCTCCAGATTAGAGTGGAAGAACTGGGTCGGA
GTGTCTCCTTTGTCTACTATCAACAGACTCTTCAAGGTGATTTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCCATCTGAGCAAGGCC
AAAACCTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTTCCATCATGTGAAGTACCCTCTT
CTGCTCTGAGTGGAAGTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTCCTGAATACACATGGT
TTAAGGATGGCATCCGTTTGCTAGAAAATCCCAGACTTGGCTCCCAAAGCACCAACAGCTCATAACAAATGAATA
CAAAAACCTGGAAGTCTGCAATTTAATACTGTTTCCAACTGGACACTGGAGAATATTCTGTGAAGCCCGCAATT
CTGTTGGATATCGCAGGTGTCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATCATAGCAGCCG
TAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTATGCTCAGAGGAAAGGCTACTTTTCAA
AAGAAACCTCCTTCCAGAAGAGTAATTCTTCATCTAAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAA
AATCCTTTATAATTTAAAGACTCCACTTTAGAGATACACCAAAGCCACCGTTGTTACACAAGTTATTAAACTATT
ATAAACTCTGCTTTGTCCGACATTTGCAAAGAGGTACACGAGGAAATGGAATTGGTATTTCAATTTAATTTTCA
TGACTACTAACTCACCTGAACTTGCTATTTTAAACAAATAGTTCTGTGACACCTAAAAATATAATCTGGCTTCTT
GTGTCTGGACTAAGTTAAAGAATTAAAATACTTTGTAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5880

MARRSRHRLLLLLLRYLVVALGYHKAYGFSAPKDQQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSVSFVYY
QQTLQGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQGQNLEEDTVTLEVLVAPAVPSCCEVPSSALSGTV
VELRCQDKEGNPAPEYTWFKDGIRLLENPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNSVGYYRC
PGKRMQVDDLNI SGIIAAVVVVVALVISVCGLGVCYAQRKGYSKETSFQKSNSSSKATTMSSENDFKHTKSFII

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FIGURE 5881

AGTTTCCTCGGCAGCGGTAGGCGAGAGCACGCGGAGGAGCGTGCGCGGGGGCCCCGGGAGACGGCGGCGGTGGCG
GCGCGGGCAGAGCAAGGACGCGGCGGATCCCACTCGCACAGCAGCGCACTCGGTGCCCGCGCAGGGTCGCG**ATG**

CTGCCCCGTTTTGGCACTGCTCCTGCTGGCCGCCTGGACGGCTCGGGCGCTGGAGGTACCCACTGATGGTAATGCT
GGCCTGCTGGCTGAACCCAGATTGCCATGTTCTGTGGCAGACTGAACATGCACATGAATGTCCAGAATGGGAAG
TGGGATTGAGATCCATCAGGGACCAAAACCTGCATTGATACCAAGGAAGGCATCCTGCAGTATTGCCAAGAAGTC
TACCCTGAACTGCAGATCACCAATGTGGTAGAAGCCAACCAACAGTGACCATCCAGAACTGGTGCAAGCGGGGC
CGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGCTTAGTTGGTGAGTTTGTAAGTGATGCC
CTTCTCGTTCTGACAAGTGCAAATTCTTACACCAGGAGAGGATGGATGTTTGCGAAACTCATCTTCACTGGCAC
ACCGTCGCCAAAGAGACATGCAGTGAGAAAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCGGAATT
GACAAGTTCCGAGGGGTAGAGTTTGTGTGTTGCCCACTGGCTGAAGAAAGTGACAATGTGGATTCTGCTGATGCG
GAGGAGGATGACTCGGATGTCTGGTGGGGCGGAGCAGACACAGACTATGCAGATGGGAGTGAAGACAAAGTAGTA
GAAGTAGCAGAGGAGGAAGAAGTGGCTGAGGTGGAAGAAGAAGAAGCCGATGATGACGAGGACGATGAGGATGGT
GATGAGGTAGAGGAAGAGGCTGAGGAACCCCTACGAAGAAGCCACAGAGAGAACCACCAGCATTGCCACCACCACC
ACCACCACCACAGAGTCTGTGGAAGAGGTGGTTCGAGAGGTGTGCTCTGAACAAGCCGAGACGGGGCCGTGCCGA
GCAATGATCTCCCGCTGGTACTTTGATGTGACTGAAGGGAAGTGTGCCCCATTCTTTTACGCGGATGTGGCGGC
AACCAGGAACAACCTTTGACACAGAAGAGTACTGCATGGCCGTGTGTGGCAGCGCCATGTCCCAAAGTTTACTCAAG
ACTACCCAGGAACCTCTTGCCCGAGATCCTGTTAACTTCCTACAACAGCAGCCAGTACCCCTGATGCCGTTGAC
AAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCATTTCCAGAAAGCCAAAGAGAGGCTTGAGGCCAAG
CACCGAGAGAGAATGTCCAGGTCATGAGAGAATGGGAAGAGGCAGAACGTCAAGCAAAGAAGTGGCTAAAGCT
GATAAGAAGGCAGTTATCCAGCATTTCCAGGAGAAAGTGAATCTTTGGAACAGGAAGCAGCCAACGAGAGACAG
CAGCTGGTGGAGACACACATGGCCAGAGTGAAGCCATGCTCAATGACCGCCGCCCGCTGGCCCTGGAGAAGTAC
ATCACCGCTCTGCAGGCTGTTCTCTCGGCCCTCGTCACGTGTTCAATATGCTAAAGAAGTATGTCCGCGCAGAA
CAGAAGGACAGACAGCACACCCTAAAGCATTTTCGAGCATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATC
CGGTCCAGGTTATGACACACCTCCGTGTGATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTG
CCTGCAGTGGCCGAGGAGATTGAGGATGAAGTTGATGAGCTGCTTCAGAAAGAGCAAACTATTGAGATGACGTC
TTGGCCAACATGATTAGTGAACCAAGGATCAGTTACGGAAACGATGCTCTCATGCCATCTTTGACCGAAACGAAA
ACCACCGTGGAGCTCCTTCCCGTGAATGGAGAGTTCAGCCTGGACGATCTCCAGCCGTGGCATTTCTTTGGGGCT
GACTCTGTGCCAGCCAACACAGAAAACGAAGTTGAGCCTGTTGATGCCCGCCCTGCTGCCGACCGAGGACTGACC
ACTCGACCAGGTTCTGGGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGGATGCAGAATCCGA
CATGACTCAGGATATGAAGTTCATCATCAAAAATTGGTGTTCTTTGCAGAAGATGTGGGTTCAAACAAAGGTGCA
ATCATTGGACTCATGGTGGGCGGTGTTGTATAGCGACAGTGATCGTCATCACCTTGGTGATGCTGAAGAAGAAA
CAGTACACATCCATTATCATGGTGTGGTGGAGGTTGACGCCGTGTACCCCGAGAGGAGCGCCACCTGTCCAAG
ATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGTTCTTTGAGCAGATGCAGAACT**TAG**ACCCCCGCCACAGCA
GCTCTGAAGTTGGACAGCAAAACCATTGCTTCACTACCCATCGGTGTCCATTTATAGAATAATGTGGGAAGAAA
CAAAACCGTTTTATGATTTACTCATTATCGCCTTTTGACAGCTGTGCTGTAACACAAGTAGATGCCTGAAGTTGA
ATTAATCCACACATCAGTAATGTATTCTATCTCTCTTACATTTTGGTCTCTATACTACATTATTAATGGGTTTT
GTGTACTGTAAAGAATTTAGCTGTATCAAACCTAGTGCATGAATAGATTCTCTCTGATTATTTATCACATAGCCC
CTTAGCCAGTTGTATATTATTCTTGTGGTTTGTGACCAATTAAGTCCTACTTTACATATGCTTTAAGAATCGAT
GGGGGATGCTTCATGTGAACGTGGGAGTTCAGCTGCTTCTCTTGCCTAAGTATTCCTTTCTGATCACTATGCAT
TTTAAAGTTAAACATTTTTAAGTATTTAGATGCTTTAGAGAGATTTTTTTTTCCATGACTGCATTTTACTGTACA
GATTGCTGCTTCTGCTATATTTGTGATATAGGAATTAAGAGGATACACACGTTTGTTCCTCGTGCCTGTTTTAT
GTGCACACATTAGGCATTGAGACTTCAAGCTTTCTTTTTTGTCCACGTATCTTTGGGTCTTTGATAAAGAAAA
GAATCCCTGTTTATTGTAAGCACTTTTACGGGGCGGGTGGGGAGGGGTGCTCTGCTGGTCTTCAATTACCAAGAA
TTCTCCAAAACAATTTTCTGCAGGATGATTGTACAGAATCATTGCTTATGACATGATCGCTTTCTACACTGTATT
ACATAAATAAATTAATAAAATAACCCCGGGCAAGACTTTTTCTTTGAAGGATGACTACAGACATTAAATAATCGA
AGTAATTTTGGGTGGGGAGAAGAGGCAGATTCAATTTCTTTAACCAGTCTGAAGTTTCATTTATGATACAAAAG
AAGATGAAAATGGAAGTGGCAATATAAGGGGATGAGGAAGGCATGCCTGGACAAACCCTTCTTTTAAGATGTGTC
TTCAATTTGTATAAAATGGTGTTTTCATGTAAATAAATACATTCTTGGAGGAGC

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FIGURE 5882

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWDSDPSGKTCIDTKEGILQYCQE
VYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHW
HTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVEFVCCPLAEESDNVDSADAEEEDSDVWWGGADTDYADGSEDKV
VEVAEEEEVAEVEEEEEADDDDEDEDGDEVEEEAEPEYEEATERTTTSIATTTTTTTESVEEVVREVCSEQAETGPC
RAMISRWFVDVTEGKCAPFFYGGCGGNRRNFDTEEYCMVCGSAMSQSLLKTTQEPLARDPVKLPTTAASTPDAV
DKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEAAERQAKNLPKADKKAVIQHFQEKVESLEQEAANER
QQLVETHMARVEAMLNDRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQ
IRSQVMTHLRVIYERMNQSLSLLYNVPAVAEEIQDEVDELLQKEQNYSDDVLANMISEPRI SYGNDALMP SLTET
KTTVELLPVNGEFSLDDLQPWHSFGADSV PANTENEVEPVDARPAADRGLTTRPGSGLTNIKTEEI SEVKMDAEF
RHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIATVIVITLVMLKKKQYTSIHHGVVEVDAAVTPEERHLS
KMQQNGYENPTYKFFEQQMN

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FIGURE 5883

GCATGCTTTTTTTTTTTTTCCGGTAGGTCGCCAGCTGAGGCGGTTTGTAAGTTTTGGGTCGCAGTATGCTAGAATT
TTGAGGCTCCCTTCTGATGAAAAATTGAGCTGTCCATGCAGCCATGGAACCCGGGTTACAGCAGTGAGGGGGCCAC
GGCTCAAGAACTTACACATGTCCAAAAATGATTGAGATGGAGCAGGCGGAGGCCAGCTTGCTGAGTTAGACCT
GCTAGCCAGTATGTTCCCTGGTGAGAATGAGCTCATAGTGAATGACCAGCTGGCTGTAGCAGAACTGAAAGATTG
TATTGAAAAGAAGACAATGGAGGGGCGATCTTCAAAGTCTACTTTACTATCAATATGAACCTGGATGTATCTGA
CGAAAAATGGCGATGTTTTCTCTGGCCTGTATTCTTCCCTTTAAATACCCGGCAGTTCTGCCTGAAATTACTGT
CAGATCAGTATTATTGAGTAGATCCCAGCAGACTCAGCTGAACACAGATCTGACTGCATTCCCTGCAAAAACATTG
TCATGGAGATGTTTGTATACTGAATGCCACAGAGTGGGTTAGAGAACACGCCCTCTGGCTATGTCAGCAGAGATAC
TTCATCTTACCCACCACAGGAAGCACAGTCCAGTCAGTTGACCTCATCTTCACGAGACTCTGGATCTACAGCCA
TCATATCTATAACAAATGCAAAAGAAAGAATATTCTAGAGTGGGCAAAGGAGCTTTCCTGTCTGGGTTTAGCAT
GCCTGGAAAACCTGGTGTGTGTTGTGTGGAAGGCCACAAAGTGCCTGTGAAGAATTCTGGTCAAGACTCAGAAA
ATTAACTGGAAGAGAATTTTAATTCGCCATCGAGAAGACATTCCTTTTGATGGTACAAATGATGAAACGGAAAG
ACAAAGGAAATTTTCCATTTTGAAGAAAAAGTGTTTCAGTGTTAATGGAGCCAGGGGAAACCACATGGACTTTGG
TCAGCTCTATCAGTTCTTAAACACCAAAGGATGTGGGGATGTTTTCCAGATGTTCTTTGGTGTAGAAGGACAATGT
ACATCAAGAGTAGTTGAAAGTATCTTGCCACTGTTGGCCTTTTGATTTTTTTTTCCCACTTTTTCTTGAAAGATT
AAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGGGGCACAGAAAAAATAGTATAGCTGAAATGCA
TCTGTTAAAAATGTCATGATTGAAAGCAGAACTGAGTTTCAAATTACAACCTTAAAATTGTTGTTAGATATTTCT
TCACATATCAGCTGCCCATTTTGA AAAAGAAATTATCCATAAAGGTAATGTTGGTGTCTCCAATTTGCCAGCCATT
CCCAACCCCTTCTCCCTTACCTGCCTTCACTAAAGAACCCAGAAAAGCTAATTGCTCCCCTTTAGCCTCTGTT
GCAACTAACAACCTCTCAGTGGCCTCAGGACACAGCTTTGGCCTTGGGAATTCTGGGAAAACCTTTACTTCCTGAT
TAAAGATACATATGCAGCTAGGCCACCTCCTCCCCCTTACTGCCATAAACACCAAAGTGATGACTGGAGCTGG
AGGAGTTATTTGAACACGACGGAAGGGCCAAGAGAGCCACGAAGATGCCAGTTGCCACATTGTTGAGCTGCTGA
CCCAACACCAGCCATTGCCTGTCTCTAAACATCTTATGAAATAAAACCAGTTTTGTTTAAAAAAAAAAAAAAAA
AAAA

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FIGURE 5884

MKIELSMQPWNPGYSSEGATAQETYTCPKMIEMEQAQAQLAELDLLASMFPGENELIVNDQLAVAEKDCIEKKT
MEGRSSKVYFTINMNLDVSDEKMAMFSLACILPFKYPAVLPEITVRSVLLSRSQQTQLNTDLTAFLQKHCHGDVC
ILNATEWVREHASGYVSRDTSSSPTTGSTVQSVDLIFTRLWIYSHHIYNKCKRKNILEWAKELSLSGFSMPGKPG
VVCVEGPQSACEEFWSRLRKLNWKRILIRHREDIPFDGTNDETERQRKFSIFEKVF SVNGARGNHMDFGQLYQF
LNTKGCGDVFQMFFGVEGQ

6375/6881
FIGURE 5885

CGCGTGAAGTCTTCTGTCAGGCTGGCC**ATG**GCGCTTCACGTTCCCAAGGCTCCGGGCTTTGCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCCTCGTACAGCATATGGACCAAAAGGAATGAACAAAATGGTTATCAACCACTTGAGAGAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGA
AGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCTTAATTTGGTATGTTGTTCTGCAAAAACCTTCAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAAAATTCTGGGCTCTGGTATCAGTTCTCTTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCTTTTGTATGGCATGATAACAGAACTAAGGGAACAGTGTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAATGTCGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTCATTATGCAAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAATGGGATCTCCGAAGACTTTGTAAAACCTGTTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCTT
TGAAGAAATGGGACACTGTGACAGTGTTCCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGGT
AGTAGACGATGGTGTTAATACTTTCAAAGTTCTTACAAGGGATAAACGTCTTGTACCCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCCCGCGCACTGGCAGAAAACCTGAGGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATCATGGCAAAACCAGCTGGTGGGCCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGAT**TGAA**AATTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCCTTAAATTAAGAGTTATTTTGTGTTTGTATTCTTGGCTGGATGTTAT
AATAACATATTGTTACTGTC

6376/6881

FIGURE 5886

MALHVPKAPGFAQMLKEGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQHPPAAKMIVMASHMQEQEVGDGTNFVLVVFAGALLELAEEELLRIGLSVSEVIEGYEIACRKAHEILPNLVCCS
AKNLRDIDEVSSLLRTSIMSKQYGNEVFLAKLIAQACVSIFPDSGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVTSVKDAKIAVYSCPFDDGMITETKGTVLIKTAEELMNFSGKEENLMDAQVKAIADTGANVVVTGGKVADM
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCDVYLSEVGDTQVVVFKHEKEDGAISTI
VLRGSTDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAI
PRALAENSGVKANEVISKLYAVHQEGNKVGLDIEAEVPAVKDMLEAGILD TYLGKYWAIK LATNAAVTVLRVDQII
MAKPAGGPKPPSGKKDWDQND

6377/6881
FIGURE 5887

CCCTGAGGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCTGCGAA
AGCTGCGACGACTATCTTCCCCTGGGGCCATGGACTCGGACGCCAGCCTGGTGTCCAGCCGCCCGTCGTGCGCCAG
AGCCCGATGACCTTTTTCTGCCGGCCCCGGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGGACCCGTGTCTCT
CGTCCACCCCGAGTGACTGCCCCGCCGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCTCTGCGGGCGCGCATC
CTGGGGACAAGCTAGGAGGCAGTGGCTTCAAGTCGTCTCTGTCAGCACCTCGTCTGTCTACGTCTGTCGGCGGCTG
CGTCGTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAGCAGCTGCGTCTCAAGATCAACAGCC
GCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGATGGCCTCCGCGAGGTATGCCGTACGCACACGGCC
CTTCGGTGCGCAAGCTTTCCAAGATCGCCACGCTGCTGCTGGCGCGCAACTACATCCTCATGCTCACCAACTCGC
TGGAGGAGATGAAGCGACTGGTGAGCGAGATCTACGGGGGCCACCACGCTGGCTTCCACCCGTGCGCCTGCGGCG
GCCTGGCGCACTCCGCGCCCCCTGCCCGCCGCCACCGCGCACCCGGCAGCAGCGCACGCGCACATCACCCCG
CGGTGCACCACCCCATCCTGCCGCCCCGCCCGCGCAGCGGCTGCTGCCGCCGCTGCAGCCGCGGCTGTGTCCAGCG
CCTCTCTGCCCGGATCCGGGCTGCCGTGCGTCCGCTCCATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTG
CTGCCGCGGCCGCCCGCTGGGGGGCGGGGGCGGCGGCACTGGGGCGAGCGGGGGCTTCCAGCACTGGGGCGGCA
TGCCCTGCCCCCTGCAGCATGTGCCAGGTGCCGCCGCCGCCACCACAGTGTGGCTATGGGCGCCGGCAGCCTGC
CGCGCCTCACCTCCGACGCCAAGTGAGCCGACTGGCGCCGGCGCGTTCTGGCGACAGGGGGAGCCAGGGGGCGCGG
GGAAGCGAGGACTGGCCTGCGCTGGGCTCGGGAGCTCTGTGCGGAGGAGGGGGCGAGGACCATGGACTGGGGGTG
GGGCATGGTGGGGATTCCAGCATCTGCGAACCCCAAGCAATGGGGGCGCCACAGAGCAGTGGGGAGTGAGGGGAT
GTTCTCTCCGGACCTGATCGAGCGCTGTCTGGCTTTAACCTGAGCTGGTCCAGTAGACATCGTTTTATGAAAAG
GTACCGCTGTGTGCATTCTCTACTAGAACTCATCCGACCCCGACCACCACCTCCGGGAAAAAGATTCTAAAACT
TCTTTCCCTGAGAGCGTGGCCTGACTTGCAGACTCGGCTTGGGCAGCACTTCGGGGGGGAGGGGGTGTATGGG
AGGGGGACACATTGGGGCCTTGCTCCTCTTCTCCTTTCTTGGCGGGTGGGAGACTCCGGGTAGCCGCACCTGCAG
AAGCAACAGCCCGACCGCGCCCTCCAGGGTCGTCCCTGGCCCAAGGCCAGGGGCCACAAGTTAGTTGGAAGCCGG
CGTTCGGTATCAGAAGCGCTGATGGTCATATCCAATCTCAATATCTGGGTCAATCCACACCCCTCTAGAACTGTG
GCCGTTCTCCTCCTGTCTCTCGTTGATTTGGGAGAATATGGTTTTCTAATAAATCTGTGGATGTTCCCTTCTTCAAC
AGTATGAGCAAGTTTATAGACATTGAGAGTAGAACCCTTGTGGATTGGAATAACCCAAAAGTCCCGATTTCAGG
GGCGGGTGCAATTGTAGTTATTATTTTAAAAATAGAACTACCCACCGACTCATCTTTCCTTCTCTAAGCACAAAG
TGATTTGGTTATTTTGGTACCTGAGAACGTAACAGAAATTAAGGAGCAGTTGCTGTGGAAACAGTTTGGGTTATTT
GGGGGTCTGTGGCTTTTTTAAATTTTCTTTTTTGGATGTGTAAATTTATCAATGATGAGGTAAGTGCGCAATG
CTAAGCTGTTTGCTCACGTGACTGCCAGCCCCATCGGAGTCTAAGCCGGCTTTCCTCTATTTTGGTTTATTTTGG
CCACGTTTAAACACAAATGGTAAACTCCTCCACGTGCTTCCGTGCGTTCCGTGCAAGCCGCCCTCGGCGCTGCCTGCG
TTGCAAACTGGGCTTTGTAGCGTCTGCCGTGTAACACCCTTCCCTCTGATCGCACCGCCCCCTCGCAGAGAGTGTAT
CATCTGTTTTATTTTTGTAAAAACAAAGTGCTAAATAATATTTATTACTTGTTTGGTTGCAAAAACGGAATAAAT
GACTGAGTGTGAGATTTTAAATAAAATTTAAAGT

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FIGURE 5888

MDSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSCPPELSAELRGAMGSAGAHPGDKLGGS GF
KSSSSSTSSSTSSAAAASSTKKDKKQMTEPELQQLRLKINSRERKRMHDLNIAMDGLREVMPYAHGPSVRKLSKIA
TLLLARNYILMLTNSLEEMKRLVSEIYGGHHAGFHPSACGGLAHSAPLPAATAHPAAAAHAHHPAVHHFILPPA
AAAAAAAAAAAAAVSSASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGSGASGGFQHWGGMPCPCSMCQV
PPPHHVVSAMGAGSLPRLTSDAK

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FIGURE 5889

CCGGAAGCCGCCGCGGACAAGCTCTCCCGGGCGCGGGCGGGGGTCTGTGCTTGGAGGAAGCCGCGGAACCCCCA
GCGTCCGTCCATGGCGTGGAGCCTTGGGAGCTGGCTGGGTGGCTGCCTGCTGGTGTGAGCATTGGGAATGGTACC
ACCTCCCGAAAATGTCAGAATGAATTCTGTAAATTTCAAGAACATTCTACAGTGGGAGTCACCTGCTTTTGCCAA
AGGGAACCTGACTTTTACAGCTCAGTACCTAAGTTATAGGATATTCCAAGATAAATGCATGAATACTACCTTGAC
GGAATGTGATTTTCTCAAGTCTTTCCAAGTATGGTGACCACACCTTGAGAGTCAGGGCTGAATTTGCAGATGAGCA
TTCAGACTGGGTAAACATCACCTTCTGTCTGTGGATGACACCATTATTGGACCCCTGGAATGCAAGTAGAAGT
ACTTGCTGATTCTTTACATATGCGTTTCTTAGCCCCATAAAATTGAGAATGAATACGAAACTTGGACTATGAAGAA
TGTGTATAACTCATGGACTTATAATGTGCAATACTGGAAAAACGGTACTGATGAAAAGTTTCAAATTACTCCCCA
GTATGACTTTGAGGTCCTCAGAAACCTGGAGCCATGGACAACCTATTGTGTTCAAGTTCGAGGGTTTCTTCCTGA
TCGGAACAAAGCTGGGGAATGGAGTGAGCCTGTCTGTGAGCAAACAACCCATGACGAAACGGTCCCCTCCTGGAT
GGTGGCCGTCTATCCTCATGGCCTCGGTCTTCATGGTCTGCCTGGCACTCCTCGGCTGCTTCGCCCTGCTGTGGTG
CGTTTACAAGAAGACAAAGTACGCCTTCTCCCTAGGAATTCTCTTCCACAGCACCTGAAAGAGTTTTTGGGCCA
TCCTCATCATAACACACTTCTGTTTTTCTCCTTTCCATTGTGCGATGAGAATGATGTTTTTGACAAGCTAAGTGT
CATTGCAGAAGACTCTGAGAGCGGCAAGCAGAATCCTGGTGACAGCTGCAGCCTCGGGACCCCGCTGGGCAGGG
GCCCCAAAGCTAGGCTCTGAGAAGGAAACACACTCGGCTGGGCACAGTGACGTACTCCATCTCACATCTGCCTCA
GTGAGGGATCAGGGCAGCAAACAAGGGCCAAGACCATCTGAGCCAGCCCCACATCTAGAACTCCCAGACCCTGGA
CTTAGCCACCAGAGAGCTACATTTTAAAGGCTGTCTTGSCAAAATACTCCATTTGGGAACCTCACTGCCTTATAA
AGGCTTTCATGATGTTTTCAGAAGTTGGCCACTGAGAGTGTAATTTTCAGCCTTTTATATCACTAAAAATAAGATC
ATGTTTTAATTGTGAGAAACAGGGCCGAGCACAGTGGCTCACGCCTGTAATACCAGCACCTTAGAGGTCGAGGCA
GGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAACCCAGTCTCTACTAAAAATACA
AAAAATTAGCTAGGCATGATGGCGCATGCCTATAATCCCAGCTACTCGAGTGCCTGAGGCAGGAGAATTGCATGAA
CCCGGGAGGAGGAGGAGGAGGTTGCAGTGAGCCGAGATAGCGGCACTGCACTCCAGCCTGGGTGACAAAGTGAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAAATTGTGAGAAACAGAAATACTTAAATGAGGAATAAGAATGGAGATG
TTACATCTGGTAGATGTAACATTCTACCAGATTATGGATGGACTGATCTGAAAATCGACCTCAACTCAAGGGTGG
TCAGCTCAATGCTACACAGAGCACGGACTTTTGGATTCTTTGCAGTACTTTGAATTTATTTTTCTACCTATATAT
GTTTTATATGCTGCTGGTGCTCCATTAAAGTTTTACTCTGTGTTGC

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FIGURE 5890

GAATCACACTCAGGCAGTCTCTCTCCTTTCTGAACAGAGATGAGCCCTAAGATACCTGGAAGATTTTGTTTTAA
CCTCACATTAAGGAAAGCACACATCACCTTGAAAGAGCTAAACTTGACGTCCTACAGAATTTCTCTAACTTAACA
TGTTGAGTCTCTGAGAGTGCAAAACTTGAAACAAGAGAAAGTGGCCTGCCTGGCATCCTCTGCTTATTGAATGGT
TTTATTTAATTCTCCTTTACATTGCCACCTTAACAATCCTTCCAGCTACGTATCTTAAAGGATGTGATGGAGAAG
TTATCAACTGGTGTTTTTTCAGACCTCAGTTGGATGAACCCATTCCACTGTATGAGGCAAAAGTTTCCATGGAAGCT
GTTTCAAAAAATCAAGGAAGAAAAAAGGTAGTGCACATCAGCGCCCTGGATCGCATACTTTCCAGAAGCGTCGCT
GAACCTGGCGACTGGACTCTGGCCGAGGACCTGGCAGAAGCGCCAGGGCAGGGTCACCGCTGGGACAGTGGGCGT
TGACGGCCACCCGGGATCGCCGCTGCGGGCTGCGTCTCGCGGGCTGCCACTGCGCATGCTCCGCTCGGAACCGG
CGGGGGCGGAGGCGGGGCCGCTCGGGGGCGGGAGCTCGGCGAGGCGCCACGTGAGGGGCGGGCCCGGCGCGCGC
GGGAAGTCTCTGTAGGGCGGGCCGGCTACCTCAGCCGCGCGCGTCTATGGCCCTTTCCGTGCCGCGCTACTCACC
GGGTTTCCGAAAGCCGCCGAGGTAGTGC GGCTCCGACGGAAGGGCCCGGAGCCGTGGAGCTGCCGCTCCCC
GCCCCGTGAGCTGACGGAGCCGGCGGCCCGGAGCCGCCCTGGTGGCGGGCTGCCTCTTCGCCCTTTCCCTGC
TGCGGGGGGCGAGGGCGGTGGCAGCGCGCGGCCCGGCCGCTGCTCGGAGGAACCCCTTCGCCCGCTGGACAA
CCGACCGCGGGTTCGCCGCGGAGCCCCCGACGGGCGGCCCGCGAGCAGCCGGAGGCCCCGGTCCCGTTTTTAGA
TTCTAATCAAGAAAATGATTTGCTATGGGAAGAGAAGTTTCTGAAAGAACAACCTGTTACTGAATTACCTCAGAC
TTCACATGTATCATTCTCCGAGCCTGATATTCCGTCCTCAAAAAGTACTGAGTTACCTGTGGACTGGAGTATTAA
AACGCGACTCCTTTTACCTCTTCTCAACCCTTTACCTGGGCAGATCATTTGAAAGCACAGGAAGAAGCTCAAGG
TCTTGTCAGCATTGTAGGGCAACAGAAGTTACTTTGCCTAAAAGTATACAGGATCCCAAACTCTCCTCTGAGCT
CCGTTGTACCTTCCAGCAGAGCCTTATCTATTGGCTCCACCCTGCTTTGTCTTGGCTACCACTGTTCCCTCGTAT
TGGAGCTGATAGAAAATGGCTGGAAAGACAAGTCCTTGGTCAAATGATGCAACCCTGCAGCATGTTTTAATGAG
TGACTGGTCTGTGAGCTTTACTTCTCTATATAATTTGCTGAAGACAAAACCTTTGCCCTATTTCTACGTTTGTAC
CTATCAGTTTACTGTCCTGTTCCGAGCAGCAGGATTAGCTGGAAGTGAAGTTAATCACAGCTCTCATATCTCCAAC
AACTCGAGGTTTAAAGAGAAGCTATGAGAAATGAAGGTATTGAATTTTCTCTGCCTTTAATAAAAGAAAGTGGCCA
TAAGAAGGAGACAGCATCTGGAACAAGCTTGGGATATGGGGAGGAGCAAGCCATCAGTGATGAGGATGAAGAGGA
AAGTTTTTCTGGCTGGAAGAGATGGGTGTGCAAGATAAAATTA AAAAGCCAGACATACTTTCTATCAAGCTGCG
TAAAGAGAAACATGAAGTACAAATGGATCACAGACCTGAATCTGTTGTGTTGGTAAAAGGAATCAACACCTTTAC
ATTGCTCAATTTTTTGTATTAACCTTAAGAGTTTAGTTGCTACCTCAGGTCCACAGGCAGGACTTCTCCAACCTT
CTTGCTCCCTGTTGCTTTCCGAGGTGCCACAATGCAAATGCTTAAGGCACGGAGTGTAATGTGAAGACACAAGC
TCTTCTGGATACAGAGACCAATTTAGTTTGGAGATTACAGGTCTATCATGCCTCATTCTCTGCATTCACTGAC
CATGCTGCTCAAATCTTACAGAGTGGATCTTCTCTGCAGTACTGTATCCACACGAGCCAACTGCTGTATTTAA
CATCTGCCTGCAAATGGACAAAGTACTTGATATGGAGGTTGTTTATAAGGAGCTTACTAACTGTGGTTTGCACCC
TAACACTCTGGAGCAACTTAGTCAAATACCGTTACTTGGGAAATCATCTTTACGGAATGTGGTGCTGAGAGACTA
CATTTATAATTGGAGATCCTGAACACCAAAGTAAGCCTAAAAGGAATCTTTGAGGAAAAAGCCTTCTAGCAAGG
AAATTCAAGATTCTTGAAGTTGAAGGAATATACTGAAATGTTTATAAACATAACTTTTACTACAGTAGCATCTAA
GGTTTTAAATGTGTTTTACTATTTTTCAGATTAGATTTTATAGATATAAAGATGAAAACTCAGATAACTCAAATGA
GATATCTATATCCCTACAACCTAATTGTATATTGAGCAGAACTGAATTAATATGCTTCCTTGCAAATGGGAAAT
CACATAGCAGTTACCCCATGGCATTGTGACTAATGGCATCAGGGCAAAAATATGTTACTTTACGATTTACCTGTT
AGCAGGTTCTTGTTCATAAAGGTAGAAAAATAATACAGACAACATCTAAAAA

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FIGURE 5891

MALSVPGYSPGFRKPPEVVRLRRKRARSRGAAASPPRELTEPAARRAALVAGLPLRPFFPAAGGRGGGSGGGPAAA
RRNPFARLDNRPRVAAEPPDGPAREQPEAPVPFLLDSNQENDLLWEEKFPERTTVTELPQTSHVSFSEPDIPSSKS
TELPVDWSIKTRLLFTSSQPFTWADHLKAQEEAQGLVQHCRATEVTLPKSIQDPKLSSSELRCTFQQSLIYWLHPA
LSWLPLFPFRIGADRK MAGKTSPWSNDATLQHVLMSDWSVSFTSLYNLLKTKLCPYFYVCTYQFTVLFRAAGLAGS
DLITALISPTTRGLREAMRNEGIEFSLPLIKESGHKKETASGTS LGYGEEQAISDEDEEESFSWLEEMGVQDKIK
KPDILSIKLRKEKHEVQMDHRPESVVLVKGINTFTLLNFLINSKSLVATSGPQAGLPPTLLSPVAFRGATMQMLK
ARSVNVKTQALSGYRDQFSLEITGPIMPHSLHSLTMLLKSSQSGSFSVLYPHEPTAVFNICLQMDKVLDMEVVH
KELTNCGLHPNTLEQLSQIPLLKGSSLRNVVLRDYIYNWRS

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FIGURE 5892

AAGCTTGGCACGAGGCCTACAACCGCCCGGGAGAAGATGGCTGCCCCAGCAGTGTCCGGGCTCTCCCGGCAGGTG
CGATGCTTCAGTACCTCTGTGGTCAGACCATTGCCAAGCTTGTGAGGCCTCCTGTTTCAGGTATACGGTATTGAA
GGTCGCTATGCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTG
AGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTGAAGCGTTCATTAAA
GTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCCTCACTACCAACCTGATCAATTTGCTTGCT
GAAAATGGTCGATTAAAGCAATACCCAAGGAGTCGTTTCTGCCTTTTCTACCATGATGAGTGTCCATCGCGGAGAG
GTACCTTGCACAGTGACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAAAACTGTCCTCAAGAGC
TTCCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCAATCTTGGGTGGAATGATTGTGCGC
ATTGGCGAGAAATATGTTGACATGTCTGTCAAGACCAAGATTGAGAAGCTGGGCAGGGCTATGCGGGAGATTGTC
TAAAAGTGTGTTTTCTGCCATCAGTGAAAATTCTTAACTTGGAGCAACAATAAAAAGCTTCCAGAACAGATC
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 5893

MAAPAVSGLSRQVRCFSTSVVRPF AKLV RPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVA
ASVLNPHYVKRSIKVKSLNDITAKERFSPLTTNLLINLLAENGRLSNTQGVVSAFSTMMSVHRGEVPCTVTSASPLE
EATLSELKTVLKSFLSQGQVLKLEAKTDP SILGGMIVRIGEKYVDMSVKTKIQKLGRAMREIV

6384/6881
FIGURE 5894

CAGACTCGAGCAGTCTCTGGAACACGCTGCGGGGCTCCCGGGCCTGAGCCAGGTCTGTTCTCCACGCAGGTGTTT
CGCGCGCCCCGTTTACGCCATGTCGTCCGGCATCCATGTAGCGCTGGTGACTGGAGGCAACAAGGGCATCGGCTTG
GCCATCGTGCGCGACCTGTGCCGGCTGTTCTCGGGGGACGTGGTGCTCACGGCGCGGGACGTGACGCGGGGCCAG
GCGGGCCGTACAGCAGCTGCAGGCGGAGGGCCTGAGCCCGCGCTTCCACCAGCTGGACATCGACGATCTGCAGAGC
ATCCGCGCCCTGCGCGACTTCCTGCGCAAGGAGTACGGGGGCTGGACGTGCTGGTCAACAACGCGGGCATCGCC
TTCAAGGTTGCTGATCCACACCCTTTTCATATTCAAGCTGAAGTGACGATGAAAACAAATTTCTTTGGTACCCGA
GATGTGTGCACAGAATTACTCCCTCTAATAAAACCCCAAGGGAGAGTGTTGAACGTATCTAGCATCATGAGCGTC
AGAGCCCTTAAAAGCTGCAGCCCAGAGCTGCAGCAGAAGTTCCGCAGTGAGACCATCACTGAGGAGGAGCTGGTG
GGGCTCATGAACAAGTTTGTGGAGGATACAAAGAAGGGAGTGCACCAGAAGGAGGGCTGGCCAGCAGCGCATAC
GGGGTGACGAAGATTGGCGTCACCGTTCTGTCCAGGATCCACGCCAGGAACTGAGTGAGCAGAGGAAAGGGGAC
AAGATCCTCCTGAATGCCTGCTGCCCAGGGTGGGTGAGAACTGACATGGCGGGACCCAAGGCCACCAAGAGCCCA
GAAGAAGGTGCAGAGACCCCTGTGTACTTGGCCCTTTTGCCCCCAGATGCTGAGGGTCCCCATGGACAATTTGTT
TCAGAGAAGAGAGTTGAACAGTGGTGAAGCTGGGCTCACAGCTCCATCCATGGGCCCCATTTTGTACCTTGTCTG
AGTTGGTCCAAAGGGCATTTACAATGTCATAAATATCCTTATATAAGAAAAAAAAATGATCTCTTATCAATTAGCA
CTCACTAATGTACTACTAATTGAGCAACCTACGCACTCAGTTGACTACGTAAATCTGTCAGGTCTTTTGTGATTT
CCTCTGATGCAGGAGAGGAAAAATTGTAATTGATGAAAATAATGAATGAAAATCAACAGATGAATAAATGGTTCT
TTATAAGTG

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FIGURE 5895

MSSGIHVALVTGGNKGIGLAIVRDLCLRFSGDVVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRD
FLRKEYGGDLVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVNVSSIMSVRALKSC
SPELQQKFRSETITEELVGLMNKFVEDTKKGVHQKEGWPSAYGVTKIGVTVLSRIHARKLSEQRKGDKILLNA
CCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

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FIGURE 5896A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTGTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTGGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTAAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAAATTGTGCCTGCT
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACCTGTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTTGAACTTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAAGAAGAACTTG
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTTTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAAATGGTGCATTTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAAAACCCCTTAGTCT
GAAACTTTAGCACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTTCCTTTTTGCGATTTAGCAGTGCTGATTGTGTATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCCCTTGGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCCTCTAGCC
CTACTCCTTTGCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTTCACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGCAGCAACAGGAAGATGTCTTTTCTTCATTACAGCAAACACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCCGAGCTCAGTGTTCTGATAGGAGTTATTTCCCT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACCATGGACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTCTGTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTGCAAGATTATTGCCATGCCATTA
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAAATTCAGTGCTTCTGAGATAAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAGTTGCTAATGATTCATTCCTTATTGGAGGCTTATTGAGAATTGGTTGTAAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTTCTAACTAAATTAGGAT
CAATTGACAATTGTTGGCCTATGTTAAGTATTTTCTTTACTGAATACAAGTACCACATAACTAAAATTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTTTCCAAAGAAAGATTTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAAACCTCTGTAAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAACAAATAGAAGACCTACAAGGTCGAACAGCAAATAAGG
ATCCAATTAAAGCCTTTTATGAAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACTTTGTGGAGAAGGAAAGAGATTTTACAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAATCTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTATCCTGAATTTTACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAACAAAAATCTCGAAACAATGAATCAGAAAAGTTTCAAGTTCTAGTTTACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTTCTAAATCTTCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGCAGCGCTGCAC
AGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAAATAAAGCAATTGAACCTGGCCATGATTAACCTATG
TTTTGGTCTGCTATGGAATTGCCATTTCTCTCCTTGAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAGAGGATTATTGAACACTACCCAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGGAAGAGTGT
ATTTGAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCTG
GAGTGTTAACTTGGCCACGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAAATAAAGATGCTGTTAGAGA
AATTTGTTGAAGAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATAACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAAATAG
AATTTACATGAATTGCTGGAAGAAGTTAAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG

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FIGURE 5896B

GAATATGTCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCCCTCCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAG
AAAGAATGGAGGAGGACTTAAGAGAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTTC
AGCGTTGTCAGTTCCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATAAC
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGGAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTCTAAATGAAGCAGTGGACTATGTTATTCGCCACTTGATTCAAGAAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTTCTCGTTATGGAGCATCTCTTAAACTGCTTGATTTTAGTA
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTTAAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCAGCAT
TGCATAGTGCTTTAGATGAATTCTTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAAACAAGATAGTGGTG
AAGCACCGTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGTCTGGAACAACCTTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAATT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAAACAAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAATATG
AGTTTTTCCCAGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTAAAACCTTTTCTCTTGGGATGCCCTC
GTTTTGTTGTGATTGACAACCTGTATTGCACTGAAGAAGGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAAA
ACATTAAAACAAAAGTAGAAGAAATTTCAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAAGTGTGAGATTCTTCAGCACCAGCTTTTGAAAATGTGA
AACCCAAACCTGTGTCTGCAAATTTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAAGTATCCGACAATT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAAATCCCCCAACCGGTTCTTGAGGATGTGAACCAACTTATTGGGCTCAAT
CCCATTTGGTTCACAGGATACTGTACGTATCTTCCTTTCCAGAGATTTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGGTTTGCCCCAGTACACCAGCATATATACACCCTTGGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGCTCTTTGTAGCCAATGACAGAGCAGATAAAAAATGCTGCTGCCTATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATAACAGTCTGAGTGAGTCTAACAGAAATGATG
AGCACTGTGGAAATTCTAACAACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAAAACATTCCACACG
TGCAGATGGTTGCCATACAGGTATCTTGGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAAGTTGAAAAGGCACTTAG
AAGAAAAACAAGATCTCAAAGACGGAATTAGATTGTTTCCTTCAAGATTTGGAAAGAGAAATTAATAAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAAAATCACTGAAGAAGAAATTAATAAAGGTTTCAAAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAAGGAAAAAGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAAATGAAAATAGAAGAGTATATAAAGAAAGGGAAAGAGGATTATGAAGAGAGTCAACAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAACCTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTCATGGGAATTGTTTCTTTCTAATGTTACAAAAGAAATTGAGAAAGCAAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAAAAATGTTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTTCTGAGCTTTTCAATTCCTG
CCTGTAACACGGTTTCATCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAACACACGACACTTCACAGGGATCCTAGTGTGTTCTCTGCTGGTGATTCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG
GCCAGGCAGCTCTGTGCAAGCAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTTCTCCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCCAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTCCCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTTATTAATAAAGTGCGAAGCAAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

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FIGURE 5896C

CTTATGAGCCCAGCTCTGCCACCCCCGTGACCAGGTCCTCCCAGGGCTCACCCCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACTTCTGGAAGAG
GCTGGCCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGG**TAGT**CACACTTCACTAAAGTGTCAATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAAACAAACATTTGAAGACCCCTTGTGCATTG
TGTGTCACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCACGTTTGTTCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTTAAATTTTTTACAAGAGTCTGTATTCTGATATGCCTATATTTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAACCTATATTTTAATAATTTATAGTTAATGTTAAAAATATTGGCTGAT
TTAGACCAAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCC
GTTAGATTGTTTTAAGTGTTTGCTTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCCAGCCCCCGGTTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAAGAGAAGCTGTGTCTTTAGACAACCCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAAAACCTGTAAGTGCATTAGAAACCATGAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGTTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCCAACAT
GAAGGATCAAAAAATGTTTTTCAATGTGTTCTTTGTTCCACTGGAACTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAT
GAG

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FIGURE 5897

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLQHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIYAGDVTILTKLSIDNCWPMLSIFFTYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMGNEEFSSKERFDIAIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDWALQANIKAQKLCKNDPEGIKDLIQQHVKLQKQIEDLQGRANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHKGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLMINYLVLVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSGLDCLAYCGIGKVYLKKNRFLEALNHFE
KARTLIYRLPGVLTWPTSNVIEESQPKIKMLLEKFVEECKFPFVDAICCYQKCHGYSKIYITDPDFKGF I
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQIGICLTPDCEGVISKIIFSSGGEVKCEFEHKVIEKEVPPR
PILKQKCSLEKLRLKEDKKLKRKIQKKEAKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLNSFGLDATGTFFSRYGASLKLLDFSIMTFLWNEKYGHKLDSEIEGQLDYFSEPASLKEARCLIWL
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPMVLVSGTTSVTSNNEII
TSSSEDHSNRNSDSAGPFAVPDHLRQDVEEFEEALYDQHSNEYVVRNKKLWDMNPKQKCTLYDYFSQFLEEHPD
MSNKMFSAEYEFFFFEETRQILEKAGGLKPFLGCPRFVVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVSDSSAPAFENVKPKPVSANSPKPCEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVS CNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVPPVPSFVANDRADKNAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH
TVLSESNRNDHEHCGNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIHQEVNTEPYNPFEEERQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLRHLEENKISKTELDWFLQDLEREIKKWQOEKKEIQERLKSLLK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAEVSVLNWK
SEVYKLQIMESQAEAFLLKGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDP SVFSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIIEHLSVVFPCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTEYESSATPVTRSSQGSPPSVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRDLLTEESPGRGWPSQNGELPSCSSR

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FIGURE 5898

CTCGCGCAAGCGGCGTGCGGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCTATGGCGGCCACG
TTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGAGGGGCGGAGG
GAGACGCCCAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGCGGCTCCTTCGAAGACAAACA
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA
GTAGCATTTCTGTCATCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAACTCTGGAATGAA
TGGTGTAGAACAACAGACACTACACATCTGTCTCCACAGAGGCTTTTTGTGTGTTTTATCATCTAAAAATCCAAT
CCCTCGGTTTTTCTCTGTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT
GGCTCTTGTTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA
TCCACCGGCAGCCTTCCTTCTCCTTTCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTTGTCCA
TTGCTAGAACCAACCGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGGAAGCTTTTAAGCCTATACTT
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATTCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA
AATGAGATTTCAGAGTAACATTTATACATTGATCTTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCTTTA
AGGGGAGCAGCCTGCACTCTTTTGTAGATTACTTTTGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT
GTAAAAAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5899

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRLLQARKREVRLRRQTKTSLEVSLLEKYPCKFI IAI
GNNVAFLLSSFVMNSGVWEEVGC AKLWNEWCR TDTTHLSSTEAF CVFYHLKSNPSVFLCQCSCYVAEDQQYQWL
EKVFGSCPRKNMQITILTCRHVTDYKTSESTGSLPSPFLRALKTQNFKDSACCP LLEQPNIVHDLPAAVLSYCQV
WKIPAILYLCYTDVMKLDLITVEAFKPILSTRSLKGLVKNIPQSTEILKKLMTTNEIQSNIYT

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FIGURE 5900

CGCGGCGGCTGGCGTCGGGAAAAGTACAGTAAAAAGTCCGAGTGCAGCCGCCGGGCGCAGG**ATG**GGATCCGGCTCC
TCCAGCTACCGGCCCCAAGGCCATCTACCTGGACATCGATGGACGCATTTCAGAAAGTAATCTTCAGCAAGTACTGC
AACTCCAGCGACATCATGGACCTGTTCTGCATCGCCACCGGCCTGCCTCGGAACACGACCATCTCCCTGCTGACC
ACCGACGACGCCATGGTCTCCATCGACCCACCATGCCCGCGAATTTCAGAACGCCTCCGTACAAAGTGAGACCT
GTGGCCATCAAGCAACTCTCCGCTGGTGTTCGAGGACAAGAGAACCACAAGCCGTGGCCAGTCTGCTGAGAGACCA
CTGAGGGACAGACGGGTTGTGGGCCTGGAGCAGCCCCGGAGGGAAGGAGCATTTCGAAAGTGGACAGGTAGAGCCC
AGGCCCAGAGAGCCCCAGGGCTGCTACCAGGAAGGCCAGCGCATCCCTCCAGAGAGAGAAGAATTAATCCAGAGC
GTGCTGGCGCAGGTTGCAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAGTTGCAAATCAC
TTGGCTGTCTTAGAGAAAACGCGTGGAATTGGAAGGACTAAAAGTGGTGGAGATTGAGAAATGCAAGAGTGACATT
AAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAAC
CACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGAGGCC
CTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCAC
GACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCACCTCAGGAGGTGGCTGTTCTGTGTCCACGACAAC
TACAGAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCCAGATGATGTACAGCATGGTCTGGCTC
TGCAGTCTCCAGGAGAAGTTCTCACAAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGAC
CATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACCG
CTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCA
CCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAA
ATTATGGATTCTTTCAAAGAGAAAAATGGAGAATTTTACTACAGCAACGAGGAGCACATGACCCTGCTGAAGATG
ATTTTGATAAAATGCTGTGATATCTCTAACGAGGTCCGTCCAATGGAAGTCGCAGAGCCTTGGGTGGACTGTTTA
TTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCTTCCTGTGGCACCGTTCATGGACCGAGAC
AAAGTGACCAAGGCCACAGCCCAGATTGGGTTTCATCAAGTTTGTCTGATCCCAATGTTTGAAACAGTGACCAAG
CTCTTCCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGG
ATAGATGACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAG
AGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCC**TGAG**GAAAGCGGGGGGCGTGGCTGCAGTTCTGGACG
GGCTGGCCGAGCTGCGCGGGATCCTTGTGCAGGGAAGAGCTGCCCTGGGCACCTGGCACCAAGACCATGTTTT
CTAAGAACCATTTTGTTCCTGATACAAAAAAAAAAAAAAAAA

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FIGURE 5901

MSGSSSYRPKAIYLDIDGRIQKVIFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIDPTMPANSERTP
YKVRPVAIKQLSAGVEDKRTTSRGQSAERPLRDRRVVGLEQPRREGAFESGQVEPRPREPQGCYQEGQRIPPERE
ELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVEIEKCKSDIKKMREELAARSSRTNCPCKY
SFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRLWF
CVHDNYRNNPFHNRHCFCAQMMYSMVWLCSLQEKFSQTDILILMTAAICHDLDPGYNNNTYQINARTELAVRY
NDISPLENHHCVAFAFQILAEPECNIFSNIPPDGFKQIRQGMITLILATDMARHAEIMDSFKEKMFNFYSNEEHM
TLLKMILIKCCDISNEVRPMEVAEPWVDCLLEYYFMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFVLIIPMF
ETVTKLFPMVEEIMLQPLWESRDYELKRIDDAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDCA

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FIGURE 5902

CCACGAGACATTGGCCGGCGCCGGCCTCCGCCCCCGCCTCTCCGCCAATCACCGCCCGCCTGCTCCCCCTCGCCGT
GGGTCCCCGCGAGGCCGCCACCCCGGGGTGCGCGTCTCCGCCTCGCCGAGTCGGGGCAGCCGCTCGCCCCCTCTT
TTCCATGTATCCGTCCAGGATCCCATGACAGATTCTGTTGTACGTCTCCTTACAGAGTTTGAGCGGTGCTGAAC
TGTCAGCACCATCTGTCCGGTCCCAGCATGCCTTCTGAGACCCCCAGGCAGAAAGTGGGGCCACAGGCTGCCCC
CACCGCTCAGGGCCACACTCGGCGAAGGGGAGCCTGGAGAAGGGGTCCCCAGAGGATAAGGAAGCCAAGGAGCCC
CTGTGGATCCGGCCCGATGCTCCGAGCAGGTGCACCTGGCAGCTGGGCCGGCCTGCCTCCGAGTCCCCACATCAC
CACACTGCCCCGGCAAAATCTCCAAAATCTTGCCAGATATTCTGAAGAAAATCGGGGACACCCCTATGGTCAGA
ATCAACAAGATTGGGAAGAAGTTCGGCCTGAAGTGTGAGCTCTTGCCAAGTGTGAGTTCTTCAACGCGGGCGGG
AGCGTGAAGGACCGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGCGACGGGACGCTGAAGCCCCGGGGACACG
ATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCCTGGCTGCGGCAGTGAGGGGCTATCGCTGCATC
ATCGTGATGCCAGAGAAGATGAGCTCCGAGAAGGTGGACGTGCTGCGGGCACTGGGGGCTGAGATTGTGAGGACG
CCCACCAATGCCAGGTTGCACTCCCCGGAGTCACACGTGGGGGTGGCCTGGCGGCTGAAGAACGAAATCCCCAAT
TCTCACATCCTAGACCAGTACCGCAACGCCAGCAACCCCTGGCTCACTACGACACCACCGCTGATGAGATCCTG
CAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTTCAGTGGGCACGGGCGGCACCATCACGGGCATTGCCAGG
AAGCTGAAGGAGAAGTGTCTGGATGCAGGATCATTGGGGTGGATCCCGAAGGGTCCATCCTCGCAGAGCCGGAG
GAGCTGAACCAGACGGAGCAGACAACCTACGAGGTGGAAGGGATCGGCTACGACTTCATCCCCACGGTGCTGGAC
AGGACGGTGGTGGACAAGTGGTTCAAGAGCAACGATGAGGAGGCGTTACCTTTGCCCGCATGCTGATCGCGCAA
GAGGGGCTGCTGTGCGGTGGCAGTGCTGGCAGCACGGTGGCGGTGGCCGTGAAGGCCGCGCAGGAGCTGCAGGAG
GGCCAGCGCTGCGTGGTCAATTCTGCCGACTCAGTGCGGAACCTACATGACCAAGTTCTGAGCGACAGGTGGATG
CTGCAGAAGGGCTTTCTGAAGGAGGAGGACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTTCAAGGAG
CTGGGCCTGTGACCCCCGCTGACCGTGCTCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAG
GGCTTCGACCAGGCGCCCGTGGTGGATGAGGCGGGGTAATCCTGGGAATGGTGACGCTTGGAACATGCTCTCG
TCCCTGCTTGCCGGGAAGGTGCAGCCGTCAGACCAAGTTGGCAAAGTCATCTACAAGCAGTTCAAACAGATCCGC
CTCACGGACACGCTGGGCAGGCTCTCGCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTGCACGAGCAGATC
CAGTACCACAGCACCGGGAAGTCCAGTCAGCGGCAGATGGTGTTCGGGGTGGTACCGCCATTGACTTGCTGAAC
TTCGTGGCCGCCCCAGGAGCGGGACCAGAAGTGAAGTCCGGAGCGCTGGGCGGATGTTTACCAAGGAAATATTGA
GAGAGAAGTCGGCCAGGTAGGATGAACACAGGCAATGACTGCGCAGAGTGGATTAAAGGCAAAAGAGAGAAGAGT
CCAGGAAGGGGCGGGGAGAAGCCTGGGTGGCTCAGCATCCTCCACGGGCTGCGCCGTCTGCTCGGGGCTGAGCTG
GCGGGAGCAGTTTGGTGTGTTGGGTTTTTAATTGAGATGAAATCAAATAACCTAAAAATCAATCACTTGAAAG
TGAACAATCAGCGGCATTTAGTACATCCAGAAAGTTGTGTAGGCACCACCTCTGTCAGTTCTGGAACATTCTGT
CATCACCCCGTGAAGCAATCATTTCCCTCCCGTCTTCTCCTCCCTGGCAACTGCTGATCGACTTTGTGTCTC
TGTTGTCTAAATAGGTTTTCCCTGTTCTGGACATTTATATAAATGGAATCACAC

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FIGURE 5903

CCCGAGGGCGTCGGCAGGGTCGGCGGCGTCGGCAGCAGTGTGACGGCAGCGGCGGCGGGGTGGGAAATGGCG
GAGTATCTGGCCTCCATCTTCGGCACCGAGAAAAGACAAAGTCAACTGTTCAATTTATTTCAAATTTGGAGCATGT
CGTCATGGAGACAGGTGCTCTCGGTTGCACAATAAACCGACGTTTAGCCAGACCATTGCCCTCTTGAACATTTAC
CGTAACCCTCAAAACTCTTCCCAGTCTGCTGACGGTTTTCGCTGTGCCGTGAGCGATGTGGAGATGCAGGAACAC
TATGATGAGTTTTTTGAGGAGGTTTTTACAGAAATGGAGGAGAAGTATGGGGAAGTAGAGGAGATGAACGTCTGT
GACAACCTGGGAGACCACCTGGTGGGGAACGTGTACGTCAAGTTTTCGCCGTGAGGAAGATGCGGAAAAGGCTGTG
ATTGACTTGAATAACCGTTGGTTTTAATGGACAGCCGATCCACGCCGAGCTGTCACCCGTGACGGACTTCAGAGAA
GCCTGCTGCCGTCAGTATGAGATGGGAGAATGCACACGAGGCGGCTTCTGCAACTTCATGCATTTGAAGCCCATT
TCCAGAGAGCTGCGGCGGGAGCTGTATGGCCGCCGTGCAAGAAGCATAGATCAAGATCCCGATCCCGGGAGCGT
CGTTCTCGGTCTAGAGACCGTGGTCTGTGGCGGTGGCGGTGGCGGTGGTGGAGGTGGCGGCGGACGGGAGCGTGAC
AGGAGGCGGTGAGAGATCGTGAAAGATCTGGGCGATTCTGAGCCATGCCATTTTACCTTATGTCTGCTAGAAA
GTGTTGTAGTTGATTGACCAAACAGTTCATAAGGGGAATTTTTTTTAAAAACAACAAAAAAAAAACATACAA
AGATGGGTTTCTGAATAAAATTTGTAGTGATAACAGT

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FIGURE 5904

MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIALLNIYRNPQNSSQSADGLRCAVSDVEMQ
EHYDEFFEEVFTEEMEEKYGEVEEMNVCDNLGDHLVGNVYVKFRREEDA EKAVIDLNNRWFNQPIHAELSPVTD F
REACCRQYEMGECTRGGFCNFMHLKPI SRELRRRELYGRRRKKHRSRSRSRERRRSRSDRGRGGGGGGGGGGGGRE
RDRRRSRDRERSGRF

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FIGURE 5905

CGGAGCCGCCCGCTGAGGTCAGAAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCGGCCAGAGCCAGAGTCGCAG
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGAGCCGAGCCGAGCGAGCGGCGGAGACCGTGCCCCG
CCTCGGCCCCGCGCCGCGCGGCCAGGCCCGGCATCGAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGGCGGCCACGTTCCCGCTGCAGTTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACCACACAGGCTATGCCCACTGGAAGGGCCAAGTGCTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCCTGGCCATGGTGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCCAAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAAA
GTGGTGCCGCTTGACAGACATTATCACGCCCCAACCAGTTTGAGGCCGAGTTACTGAGTGGCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGATGGACATGCTGCACTCTATGGGCCCCGACACCGTGGTTCATCACCAGCTCCGAC
CTGCCCTCCCCGAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTCGCAAAGTGGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGCAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAGCCCAGGCCGGGGAAGGAGTGAGGCCAGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGCTGTAGAGGG
CCCCCGCGCTTGCCCGTGACACGCAGCGGTTGGTGTCTCCGTGTTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAAACTTGATATTTTTTTCTTTCATGAGTGTCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAAATAACAAAGTGTCACAAAAA

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FIGURE 5906

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKGQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPN
QFEAELLSGRKIHSQEEALRVMDMLHSMGPDTVITSSDLPSPOGSNYLIVLGSQRRRNPAGSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

6399/6881
FIGURE 5907

GCGTGCTCAGTGTGCTGGGTACCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTCGGCGTCATGGTTTTCGCGCGT
GCAGCTCCCGCCTGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAG
GAAGCTCCGGAAATACATCGTCGCCAGGACTCAGCGGGCCGCAGGTGGTTTTACGCACGACGAGCTGCTGAAGGT
GTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTTC
CCAGCTCGTTCATGCTTTTTAGACCACGGAGGCGCAGCACCTGTTCCCTCAGGCCTTCTGGCAGACCATGAATCG
CGAGTGGACGGGCATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCCTGAACGAGTCCTT
GAAGGTTCTGAAGATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCT
GCACCCAGCAGCCAGGCCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGT
GGGCGCCGAGGAGCTTACGGCAGACCAGAACCTGAAGTTCATCGACCCCTTCTGCAGAATTGCTGCCCGGACCAA
GGATTCTTTGGTTTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGA
AGACCTCCTGAATGAACTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCCTCTGAGGGTGGTGA
GCGTGGAGACGCGCTGTCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGC
TGGTGGAGGAGCAGGCAGGTGACGACAGGGACAGTGGCGGCCCGCTTCTCCAGTTTGACTACGAGGCAGTTGCTAA
CAGACTGTTTTGAAAATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAA
GCTGCAGGACCTGGCAGGAGGCATTTTCCCTGAAGATGAGATCCCAGAGAAGGCCTGCAGGCGCCTGCTTGAAGG
GAGGCGGCAGAAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGA
GCCCCCGAGCCCCGGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCCGAGGCGCGGGCAGA
GGCTGGTGAGCAGCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTGGCCAGAGAGGGGC
TCGCCAGAGAAGGAGGACACCTCGGCCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAA
GAAGAAGAAACGCAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGACCCGC
GGGACGAGGCTGACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAAAG
GGCGGCCTGGAGAGATGGGCCCATCATTAGGGGCCAGCATCCCAGGAAGTGGACCTTTCCCCAGAGCCTCCGCC
TGTGGCTGTGATGACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGCCGCC
CCTGCTGTGGGGGGTTTCAAAAATAAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTGCTTCAGGTGTGCTCTA
CGGACGTGTGGGAGGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTATGTTTGTGGAAAAATCTT
GCAAGACATTTCTCCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCC
TCAATCTGGGGTCTAGAGTTGTGCAAGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCGGGGTGAGCGTGTGTGT
GGTGGGAAGACCTGGCTTCCGCGAGAGCCTTGTTCCCTGGAGGCAGGAGCGCCCGCCATCCTGGGTACCCGCGGG
TCCGACAGGCTGCGCACCTCTTTCCCTCAGCCAGGTACCCCTCAGCGTCTCCTGCCCTCTCCCCCTCACACCT
GCTGGAGCCTGTGAGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCCAGGGCTTTCCACC
TGCATGGAACAAGGGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTG
GGTTTTGCCCCGATCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCT
TGGAGTGGGCCTGGGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCCTGGACTGCATCCGGTTC
CCCAAAGCCCTGCTGCATTGAGTGTCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCAC
TCAGCTGGGCGGCCGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAG
GGGTTAGGGTTCTTTCCCCAAAGGAAGTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCGAGGTGGCCAGATCACCTGAGGTGAGGAGTTTGAGACCAGACTGACCAACATGGAGAAA
CCCCATCTCTACTAAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTTGTGGTGGTGAAGATCACGCCATTGCACTCCAGCCTGG
GCAACGAGAGGGAACTCTGTTTC

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FIGURE 5908

TCTATGAAACCAACATACATGGCGTTTGCATCACAGTTGGAGTCAGATGTGAGCCCGGAGGGCAGGTGTCTGGCT
TGTCCACCCGGAAGCCCTGAGGGCAGCTGTTCCCACTGGCTCTGCTGACCTTGTGCCTTGGACGGCTGTCCTCAG
CGAGGGGCCGTGCACCCGCTCCTGAGCAGCGCCATGGGCCTGCTGGCCTTCTGAAGACCCAGTTTCGTGCTGCAC
CTGCTGGTCGGCTTTGTCTTCGTGGTGAGTGGTCTGGTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGG
CCGGTCAGCAAGCAGCTCTACCGCCGCCTCAACTGCCGCCTCGCATACTCACTCTGGAGCCAAGTGGTCATGCTG
CTGGAGTGGTGGTCTTCACGGAGTGTAAGTGTACACTGTTACGGACCAGGCCACGGTAGAGCGCTTTGGGAAGGAGCAC
GCAGTCATCATCTCAACCACAAGTTCGAGATCGACTTCCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTG
CTGGGGAGCTCCAAGGTCTCGCTAAGAAGGAGCTGCTCTACGTGCCCTCATCGGCTGGACGTGGTACTTTCTG
GAGATTGTGTTCTGCAAGCGGAAGTGGGAGGAGGACCGGGACACCGTGGTCTGAAGGGCTGAGGCGCCTGTCGGAC
TACCCCGAGTACATGTGGTTTTCTCTGTACTGCGAGGGGACGCGCTTCACGGAGACCAAGCACCGCGTTAGCATG
GAGGTGGCGGCTGCTAAGGGGCTTCCTGTCTCAAGTACCACCTGCTGCCGCGGACCAAGGGCTTCACCACCGCA
GTCAAGTGCTCCGGGGGACAGTCGCAGCTGTCTATGATGTAACCCTGAACCTCAGAGGAAACAAGAACCCGTCC
CTGCTGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTTCTCTGGAAGACATCCCG
CTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAGAAGGACGCGCTCCAGGAGATATATAAT
CAGAAGGGCATGTTTCCAGGGGAGCAGTTTAAGCCTGCCCGGAGGCCGTGGACCCTCCTGAACTTCCTGTCCTGG
GCCACCATTCCTCTCTCCCTCTTCAGTTTTGTCTTGGGCGTCTTTGCCAGCGGATCACCTCTCCTGATCCTG
ACTTTCTTGGGGTTTTGTGGGAGCAGCTTCCTTTGGAGTTCGCAGACTGATAGGAGTAACTGAGATAGAAAAAGGC
TCCAGCTACGGAACCAAGAGTTTAAGAAAAAGGATAATTAATGGCTGTGACTGAACACACGCGGCCCTGACGG
TGGTATCCAGTTAACTCAAAACCAACACACAGAGTGCAGGAAAAGACAATTAGAACTATTTTTCTTATTAAGT
GTGACTAATATTAACAAAAGTTCAGCCAAGAGTAAAGAAATTCAGAAGGCCTGTCAGGTGAAGTCTTCAGCCTCCC
ACAGCGCAGGGTCCCAGCATCTCCACGCGCGCCCGTGGGAGGTGGGTCCGGCCGGAGAGGCCTCCCGCGGACGCC
GTCTCTCCAGAACTCCGCTTCCAAGAGGGACCTTTGGCTGCTTTCTCTCTTAACTTAGATCAAATTTTAAAAA
AAAAAAAAA

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FIGURE 5909

MGLLAFLKTQFVLHLLVGFVFVVSGLVINQVQLCTLALWPVSKQLYRRLNCR LAYSLWSQLVMLLEWWSCTECTL
FTDQATVERFGKEHAVIILNHNFEIDFLCGWTMCERFGVLGSSKVLAKKELLYVPLIGWTWYFLEIVFCKRKWEE
DRDITVVEGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMEVAAAKGLPVLKYHLLPRTKGFTTAVKCLRGTVAAV
YDVTILNFRGNKNPSLLGILYGKKYEADMVRRFPLEDIPLDEKEAAQWLHKLYQEKDALQEIYNQKGMFPGEQFK
PARRPWTLNFLSWATILLSPLFSFVLGVFASGSPLLLITFLGVGAASFGVRRLLIGVTEIEKGSSYGNQEFKKK
E

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FIGURE 5910

GCGGCACACGTGCGACGGCCGTGATGAAGTTCGCTTACCGGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTG
GGAACCTAAATTTTACCTGCAATGGAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATTTGACCTTA
AAAACAACAAATCTGACACGCTGCCCCTGGCCACTCGGTACAACGTCAAGTGCGTGGGGCTGTCCCCGGATGGCC
GCCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCTGCACCACT
TCCACTTCAAGGGCTCTGTGCACAGTGTGTCTTCTCCCCTGATGGCAGGAAGTTTGTGTGCACAAAGGGTAACA
TTGCCCAGATGTATCATGCCCCCTGGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTATTTTGGGC
CCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGACATGTCCA
CCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACTGGGGGGACATAAGGATGCCATCGTGG
CCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGCTGTGCATGTGGCAGTGTG
ACACGCCCCCGAGGGCTTGCGGGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGAGGAGGAAG
AGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGAGGAGGAGA
AGACAGGAAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAACAACCTGACAG
CTGCAGCATTTTCATAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCATGAGCTGC
CAGAGTTTAACCTCATCCACTCCCTGAGCATTTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAGCTCGGGGG
ACTGGATTGCTTTTGGCTGTTTCAGGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTACGTGCTCA
AGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCGACGGACAGTACATCGTGACTGGCGGGG
ACGACGGCAAGGTCAAGGTGTGGAACACCCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTCCAGCGGGG
TGACCGGTGTGACCTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCGAGCCTTTG
ACCTTCACAGGTACCGAAACTTCCGCACCTTCACCTCTCCACGCCCCACCCAGTTCTCCTGTGTGGCGGTGGATG
CGAGCGGTGAGATCGTCTCTGCAGGGGCGCAGGACTCCTTTGAGATTTTTCGTGTGGTCCATGCAGACAGGCAGGC
TCCTTGATGTTTTGTCTGGACACGAAGGGCCCATCAGTGGTCTGTGTTTTTAACCCAATGAAGTCCGTCTGGCCA
GTGCCTCCTGGGACAAGACAGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCTGGCCCTGA
CCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGCAGGAGCTGGCTGTGGCCACACTGAACTCACAGATCA
CCTTCTGGGACCCTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGGCAGGAAGG
AGCTGGACAAGATTACAGCCAAGCACGCGGCCAAGGGGAAGGCCTTCACCGCCCTGTGCTACTCTGCAGACGGCC
ACAGCATCCTGGCGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCATGAAGAGGT
TCGAGATCTCTTGCAACCTGTCTTTGGACGCCATGGAGGAATTTTTGAACCGAAGAAAAATGACAGAGTTTGGCA
ACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTTCGCGATACCCTGCCAGGCGTCAGGAAAGGTG
ACATGAGTTCTCGGCACCTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTGGGCGCTGCTGGG
CGGCCACCACCACGGAGGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGAGCTGGACA
CCAGCGTCACCCCCGGGAGGGTGCGCGAGGCACTGCGCCAGCAGGACTTCACCAGGGCCATCCTCATGGCCCTCC
GGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCAGGGGCGAGATTGAAGTGGTCACCTCCT
CCCTTCCTGAACTGTATGTGGAGAAAGTGCTGGAGTTTTTAGCTTCCTCCTTTGAAGTGTCTCGCCACCTGGAAT
TCTACCTCCTCTGGACTCACAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCCGGGACGCTGCTGC
CTGTCAATTCAGTTCTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTCGAAACTCTGTAGCTGGAACCACT
ATAACATGCAGTACGCACTAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGGAAGTGAGG
AGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGAAGAGATGC
TGGCCTAGAGCCAGCCGGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCCTTGTGCCA
CCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGACTTGCTTTTCTG
TGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTACGCCAGGGGCCGACGCACCTGGCACCTGGCCCC
AGGAGCGGGGCCGTGTGAACGGTGATGAATGTTGAAAATGCGTCTCAGAGAGGTATTCACATGAACCTTTGTATGA
GACTTATTTATATCTTTAACATAAAGGTTTGATAAAGAACTTAGGGATTAAAAAAAAGATGGAGTTTTCTAACGT
GAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

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FIGURE 5911

CCCATCTCCACCCCTCCCCTGAACCCCACTCCCCACTGAGGTCCCCAAACCCACCCCTCACTCCACCCTGAGGG
CCCCATCCTCTGAACCCCAATCCCCAGCCCCACTGAGCTCTTAACCCTCCCCACCTGAGGGTTCCTTTCCCTG
CCCGTCCCCCAGCTTCCTAGCTCCCCACCCCAAGTGACCCCCCGCAGCTCCTCGCCCCCTCCCACTGCAAACCGGC
ACTGAAGGGCTGCCCCGCCCCGCCCCCTCCCCGCCCCCGCGGGACACGCCAGATTCTTTGCCCCCATAGCCTGG
TGACCTCTGGCCACCCGCTGTCCCAGGTGGGCCTGGATCCTTCCAGCTCATTCTTTGCCTGCGCCGTCCCTCGTT
CCATGGCCCAGTCCTCCCCGGGGACCCTGAGCCTGGAAGCCCCGGACCACTGGAACCTTGAACCCACCAGCTGGC
TGTACCCGGAGCCGTGGCAGCAGCCCTCATCCCCATGCGCGGCCATCCCAGCCCTGGACCCAGAGGCCGAGCCCAG
CATGGACGTGATTTTGGTGGGATCCAGTGAGCTCTCAAGCTCCGTTTACCCGGGACAGGCAGAGATCTTATTGC
ATATGAAGTCAAGGCTAACCAGCGAAATATAGAAGACATCTGCACTGCTGCGGAAGTCTCCAGGTTACACACACA
GCACCCTCTGTTTGAGGGAGGGATCTGCGCCCCATGTAAGGACAAGTTCTGGATGCCCTCTTCTGTACGACGA
TGACGGGTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCTGATTGCAC
CCGATGCTACTGCTTCGAGTGTGTGGATAGCCTGGTCGGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAA
CTGGGTGTGCTACCTGTGCCTGCCGTCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCT
CAAGGCCTTCTACGACCGAGAGTCGGAGAATCCCCCTTGAGATGTTTCGAAACCGTGCCTGTGTGGAGGAGACAGCC
AGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGAGTTTGGGCTTTTTTGAAAGTGGTTCTGA
CCCGGGACAACCTGAAGCATGTGGTTGATGTACAGACACAGTGAGGAAGGATGTGGAGGAGTGGGGACCCTTCGA
TCTTGTGTACGGCGCCACAGCTCCCCTGGGCCACACCTGTGACCGTCTCCAGCTGGTACCTGTTCCAGTTCCA
CCGGTTCCTGCAGTACGCACGGCCCCAAGCCAGGCAGCCCCAGGCCCTTCTTCTGGATGTTTCGTGGACAATCTGGT
GCTGAACAAGGAAGACCTGGACGTGCGATCTCGCTTCTTGAGATGGAGCCAGTCACCATCCCAGATGTCCACGG
CGGATCCTTGCAAGATGCTGTCCGCGTGTGGAGCAACATCCAGCCATAAGGAGCAGCAGGCACCTGGGCTCTGGT
TTCGGAAGAAGAATTGTCCCTGCTGGCCCAGAACAAGCAGAGCTCGAAGCTCGCGGCCAAGTGGCCCAACAAGCT
GGTGAAGAACTGCTTTCTCCCCCTAAGAGAATATTTCAAGTATTTTTCAACAGAACTCACTTCTCTTTATTAAT
GAGTCACTATACTGTGAAGAAAAAGACTTTTCTAGAACAAAGGCAACTTTCCTC

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FIGURE 5912

MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEGGICAP
CKDKFLDALFLYDDDGYQSYCSICCSGETLLICGNPDCTRCYCFECVDSL VGPGTSGKVHAMSNWVCYLCLPSSR
SGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTS LGFLESGSDPGQLKHVVDVT
D TVRKDV EEWGPF DLVYGATAPLGHTCDRPPSWYLFQFHRFLQYARPKPGSPRPFFWMFVDNLVLNKEDLDVASR
FLEMFPVTIPDVHGGSLQNAVRVWSNIPAIRSSRHWALVSEEELSLLAQNKQSSKLA AKWPTKL VKNCFLPLREY
FKYFSTELTSSL

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FIGURE 5913

GC GAC GCG GCG CAG GCG GCG GAG TGC GAG CTG GGC CCG TGT TTC GGC CCG CCG CAT GGC CGG TGG ACC TGG A
GAAG CTG CCG GCG TCG GCG CCG GCA AGG CCA TCG GCG TCT GAC CAG CGG CGG CAG CGC CAAG GTCCC CTG AC
AAG CCC ACC AGG CCCC TGT GAT GGT GTG ACC CTG GGT GAC CCG CCG CAG TGG CAC ATT GACT CCG CCT GG
AG CTG GGG AGA CCA GAG AGG CCT GTG GTT GGA CCG TGG CCG TGG GTG CGT GCT CCG TCC CTG CCG TGC
CTC AGT GCT GCG TGC CAG AGG CCG TGG CAC CTG CAC CTG CAC CCG TGC TCC TGT GAG CCCC AC GCA AG CTG
GAG AG CCG ATG AGA AGC ATGT GTA ACC AGG GTAG AGG TCG AG AGT CCT CTC GTG GGG GTCTCC ATG TTCA AGG GA
GCTGCC GAG GCTT GAG CAG GAG CCCCC AG CAG GAA ACTGG CTTT GCA AGG CCCCC GCTGG GAC AGA CTG TTTCT
TTCA CTG CAG TCTG GAG CCG AGG GCA AGG GAC AGG AAG AGG AAG TGA CCTC AG AGC CTGG TGG CAC CAG CA
TCATGT CCA GGTG GGG GGCATGA ACG CTGCTGTCC GGG CTGTGAC GCG CATGG GCATTTAT GTGG GTGCC AAAG
TCTT CCTCATCTAC GAG GGTATG AGG GCTCG TGG AGG GAG GTG AGA ACATCA AGCAG GCAACTGG CTGAG CG
TCTCCA ACATCATCC AGCTGG GCGGC ACTATCATTGG CAG CGCTCG CTGCA AGG CCTTTACC ACCAGG GAG GGGC
GCC GGG CAG CGG CCTACA ACCTGG TCCAG CAC GGCATC ACCAAC CTGTG CGTCATCG GC GGG GATGG CAG CCTTA
CAG GTGCC AACATCTTCC GAG CGAG TGG GGCAG CCTGCTGG AGG AGCTGG TGG CGAA AGGTAAG ATCTCAG AGA
CTACAG CCGGACCTACTCG CACCTGA ACATCG CGGG CCTAG TGG GCTCCATCG ATAAC GACTTCTG CCG CACCG
ACATG ACCATCG GCAC GGA CTG GGCCTCC ACCGCATCATGG AGGT CATCG ATGCC ATCACC ACCACTGCC CAGA
GCC ACCAG AGGACCTTCGTGCTGGA AGTGATGG GCGGC ACTGCG GGTACCTGG CGCTGG TATCTG CACTGG CCT
CAG GGG CCGACTGG CTGTT CATCCCC GAG GCTCC ACCCGAGGAC GGTGG GAGA ACTTCATGTGTG AGAG GCTGG
GTGAG ACTCG GAG CCGTGG GTCCCG ACTGA ACATCATCATCATCG CTGAG GGTGCC ATTGACC GCAACGG GAAGC
CCATCTCG TCCAGCTAC GTGA AGGACCTGG TGGTT CAG AGG CTGG GCTTCGAC ACCCGTGTAA CTGTGCTGG GCG
ACGTG CAG CGGG GAGGAC GCGCTCTG CCTTCG ACCGATCCTGAG CAGCAAG ATGGGCATGG AGGCGGTGATGG
CGCTGCTGGA AGCCAC GCTGACAC GCGG CCTGCG TGGTCA CCTCTCG GGAAC CAGTCA GTGCG GCTGCCCC
TCATGG AGTGC GTG CAGATGACCA AGGAAGTGC AGAAAGCCATGG ATGACA AGAG GTTTGAC GAGGCC ACCCAGC
TCCGTGG TGGGAGCTTCG AGAACA ACTGGA ACATTTACA AGCTCCTCG CCCCAC CAGAAG CCCCCCAAGG AGAAGT
CTAA CTCTCC CTGGCCATCCTGA ATGTGG GGGGCCCC GCGGCTGG CATGAATGCG GCGCTGCG CTGCG CGGTGC
GGACCG CATCTCCC ATGGACACACAGTATACGTGG TGCACGATGG CTTCGA AGGCCTAGCCA AGGGTCAG GTGC
AAGAAGTAG GCTGG CACGACGTGG CCGGCTGG TTGGGG CGTGG TGGCTCCATGCTGG GGACCAAGAGG ACCCTGC
CCAAGGG CAGCTGG AGTCCATTGTGG AGAACATCCGCATCTATGG TATTACG CCGCTGCTGG TGGTCCGTGG GT
TTGAG GCTATGA AGGGGTGCTG CAGCTGG TGGAGGCTCG CGGGCGCTACGAGGAGCTCTG CATCGTCATGTGTG
TCATCCC AGCCACCATCAGCA ACAACGTCCCTGG CACCGACTTCAG CCGTGGGCTCCGACACTGCTGTAAATGCCG
CCATGG AGAGCTGTGACCGCATCAA ACAGTCTGCCTCG GGGACCAAGCG CCGTGTGTT CATCGTGG AGACCATGG
GGGGTTACTGTGG CTACCTGG CCAACCGTGA CTGGCATTGCTGTGG GGGCGGACG CCGCCTACGTCTTCGAGGACC
CTTTCA ACATCCACGACTTAAAGGTCAACGTGG AGCACATGACG GAGAAGATGAAGACAGACATT CAGAGGGGCC
TGGTGTGTCG GGAACGAGAAGTGCCATGACTACTACACCAGGAGTTCCTGTACA ACCTGTACTCATCAGAGGGCA
AGGGCGTCTTCGACTGCAGGACCAATGTCTTGGGCCACCTGCAGCAGGGTGG CGCTCCAACCCCCCTTTGACCGGA
ACTATGGGACCAAGCTGG GGGGTGAAGGCCATGCTGTGG TTGTGCGAGAAGCTGCG CGAGGTTTACCGCAAGGGAC
GGGTGTTG CCAATGCCCCAGACTCG GCCTGCGTGATCG GCCTGAAGAAGAAGGCGGTGG CCTTCAGCCCCGTCA
CTGAGCTCAAGAAAGACACTGATTTTCGAGCACC GCATGCCACGGGAGCAGTGG TGGCTGAGCCTGCGGCTCATGC
TGAAGATGCTGG CACAATACCGCATCAGTATGG CCGCTACGTGTGAGGGGAGCTGGAGCACGTGACCCGCCGCA
CCCTGAGCATGG ACAAGGGCTTCTGAGGCCAGCATGCCACGCCCCCTCCCCAGCCCCCACCATGCCAGCGCAG
CGCCAGGGCTCAGATGG GGCCTGGGCTGTTGTGTCTGG AGCCTGCAGGCAGGTGGGGGCTGCGTCCCTGCTCAGC
CCATCCCC TGCCTCTATCCCTGG CCACTGCCAGGCCTCCCTCG GGTGGTGTCTTGAGACCAGCCTGCCAGGCC
CTCCAGCAGGAGGACAGAGTGC CCTGGGGCATCCACCTTCTGCCCAGGGGACGTGG CGCTGTCGGTGTGTTGGAG
GCTGCTGCCCCCTGG CTTTGGCGCCCCATGG GCCCTCAGCGTCTCCCCATGCTGGGCTCACTACATGGGCCAGCC
CTTGCTCTACCTGG CCGGTAGGCTGCTGG CGCCTAGGTTGTGTTGAGAGGGGGATGCC CCTGGCCCTGCCTCACT
GTGACCTGCTCCTGCC CACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTGTGGGGTGCATC
GGTCTCCGG

6406/6881
FIGURE 5914

GTGGCACGGGCAGGGCCAGTGACAGGGATCTGGGCATGGCGAGGGGATGAGAAGCTGTGGATAACAAGCCCAGG
ACATGGGGTGGCCCCGCGGGGGCTGGGAAGGCTGGCAGATGTTGGGTGTGGGTACCACCCCCCTGCAGGCGTCCT
GGCGGCCGGGTCAGGCTGGATTGGACGTCTGGGTTCCCATGCGTGCCTCCACCCGCTACCAAGGTGGCCAACCCT
CCCTTGAGCTGGATGCCGGCCACGTGCTTTGCTGCACGGGCTGGCGTGGCCTCGTGTTGTGTTGGGGGTCTCGCA
CCTTCTGTGGAAGGTGCCCTGCCTGGCATGCGCGGTGTCTGCTGCCTCATGGCTGAGCTTCCATCGGGCCGTGTG
CCTGTGACCAGCCTCCTGGGCTCTGTACGGCTGCGCTGTGGCTGTACGCCGTGGCGCTGCAGGGCTGTGCATGG
TGTGACCCGAATCCCTTCCAGGAGCTTCGAGAACAAC TGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCC
CAAGGAGAAGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGTGGCATGAATGCGGCCGTGCG
CTCGGCGGTGCGGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCCAA
GGGTGAGGTGCAAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAA
GAGGACCTGCCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTACGCCCTGCTGGT
GGTCGGTGGGTTTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCAT
CGTCATGTGTGTCATCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGC
TGTAATGCCGCCATGGAGAGCTGTGACCGCATCAAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGT
GGAGACCATGGGGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCGGACGCCGCCTACGT
CTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACAT
TCAGAGGGGCCTGGTGCTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCTGTACAACCTGTACTC
ATCAGAGGGCAAGGGCGTCTTCGACTGCAGGACCAATGTCCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCC
CTTTGACCGGAATATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGAGAAGCTGCGCGAGGTTTA
CCGCAAGGGACGGGTGTTTCGCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTT
CAGCCCCGTCACTGAGCTCAAGAAAGACACTGATTTTCGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCT
GCGGCTCATGCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCACGT
GACCCGCCGCACCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCCCTCCCCAGCCCCACCCA
TGCCAGCGCAGCGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGT
CCCTGCTCAGCCCATCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAG
CCTGCCAGGCCCTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCTGCCCAGGGGACGTGGCGCTGTC
GGTGTGTTGGAGGCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTAC
ATGGGCCAGCCCTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGC
CCTGCCTCACTGTGACCTGCTCCTGCCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTG
TGGGGTGCATCGGTCTCCGG

6407/6881
FIGURE 5915

CCGCGCAGTCGTCACCCGCCCGGGATCAGGAGGCCGGGGGCGCCCGCCGGTCGGGCCTGGGCGGCCGC**ATGA**AGC
TGACGCGGAAGATGGTTCTGACCCGAGCCAAGGCCTCGGAGCTGCACAGCGTGCGCAAGCTCAACTGCTGGGGCA
GCCGCCTCACAGATATCTCCATTTGCCAGGAGATGCCAGCCTGGAGGTGATCACGCTCAGTGTCAACAGCATCT
CCACCTTGGAGCCTGTGAGCCGGTGCCAGCGCCTGAGTGAGCTGTACCTGCGGAGGAACCGCATCCCCAGCCTGG
CTGAGCTCTTCTACCTGAAGGGGCTGCCGCGTCTGCGGGTGCTGTGGCTGGCCGAGAACCCGTGCTGCGGCACCA
GCCCCACCGCTACCGCATGACCGTGCTGCGCACCCCTGCCGCGCCTACAGAAGCTGGACAACCAGGCTGTGACGG
AGGAGGAGCTGTCCCGTGCACTGAGTGAGGGAGAGGAGATCACTGCGGCCCCAGAGAGAGAGGGGCACAGGCCACG
GCGGCCCAAGCTATGCTGCACACTGAGCTCCCTCAGCTCCGCTGCTGAGACTGGCCGGGACCCGCTGGACAGCG
AGGAGGAGGCAACCAGCGGCGCCAGGATGAACGTGGCCTGAAGCCGCCTTCCCGGGGCCAGTTTCCTTCCCTCT
CAGCCAGGGATGCCTCGAGCAGCCACAGGGGCAGGAACGTCTGACTGCCATCCTGCTGCTGCTGCGGGAGCTGG
ATGCAGAGGGGCTGGAGGCCGTGCAGCAGACTGTGGGCAGCCGGCTGCAGGCCCTGCGTGGGGAAAGAGGTGCAGG
AGCACGCCGAG**TGA**ACCGCAGGACCTGAACGCCGCTCCAGCCTCCACGGGGACCCAGCGTCTTCCCCAGCCCCCG
GGAGCTGGAGGGTGGCTGCCATGGCCGCAGCCCCGGCCCCACACAAAAGCCTCCCCGGTTTGCCACATCGGCCGA
GGGCAGGAGTGGGTGTTAGGTACTGGCTAACCGGGGCGGTGGAGATGCCTGTCTACACCAGTCTGTCCCCAGGA
CTCCCCTTCTGTGGTCTGGAGGTTCTAGGCTGGCCTGGGCTCTTAAAGGGAGGATTTTGCAGGCTGTCTCCCTA
ATAAAAAGATTTTCCCAAGGTTGATCTGGAGGTGACGTTTCCCAAGGCATGGTTGTGACAGTCTTCTGAAAGCAA
GGGCCGTTTCTCCACAGAATGAGGAGGTCTTCACGGATGGCTTTGCCGATTCCAGCCCTTGGTCCTTGGATAGAT
TTCTGTGGGCAAGGGAGACTTCGAGAATGCTGGCACCCATAGCGACATCTGCCCTGAGCTGCTCAGCAGGCAGG
CAGCAGCCTCCCGCACCCATGGGAGAGAGTTTTGTCTTCTGGCCGGGCTGGGCAGGTGCGCCTTCCTTTCTCTC
TCCTGTGAAGAACTGCAGGAGGGCCCTCAGCTGTGAGGTTGTGGATGAACAGGCCTGTTTCGCCCTGGGGTCCGGG
CCTGGCACAGGAAGCAGCTAGACTAGGGGAGTCCTTGGAGCATCTGAGAGGGGTTTTCTTTCTCTGGGAAGAGT
CGCAAGTCTTATGAGGATGCCACAATCTGGGCAGTGACCCGTGGCCCTGGGGACCTTCCTAGTGCCCCCAAAC
CAAGGAAGCATTACGTGAGATGGGGAGTCAGCCTTCCAGCTGGTGTGTAGGAAAGCCAGGTCCCTGGGCCCTTG
TCCCATGTGGGGTTGAGATCCAGATCTCCATGAGATATTCCATCCTCCGCCGAGCGGTGATGCGTGACCGTGTG
TGCAGGCCGCTGTTCTCCCAAGCTCGGGGCCATGCCGTGCCACCGTCACCAGAGCCAGCTGCAGCACTGGGGCAG
CCACTGTCGCCGACTTGGGGAAGCCCAGGGTGAAGACAGTCACTCATCCGTGCAAGCTCTCCAGAAGGGATGCA
AGCTCTCCAGAAGGGGTGTGATCTCTGAGCAGTGGGGAGTGGAGTCACCACTCGGGACATAGAGGGTGGACAGTT
CAGGCCTGTGTCTGCCCTCCTTGGGACTGTGGAGTGGGTGCCCTCAGTAAAGCGCTTTGTTGGAATGGTAAAAAA
AAAAAAAAAAAAAAAA

6408/6881
FIGURE 5916

MKLTRKMVLTRAKASELH SVRKLNCWGSRLT DISICQEMPSLEVITLSVNSISTLEPV SRCQRLSELYLRRNRIP
SLAELFYLKGLPRLRVLWLAENPCCGTSPHRYRMTVLRTLPR LQKLDNQAVTEEEELSRALSEGEEITAAPEREGT
GHGGPKLCCTLSSLSSAAETGRDPLDSEEEATSGAQDERGLKPPSRGQFPSLSARDASSSHRGRNVLTAILLLLR
ELDAEGLEAVQQT VGSRLQALRGEEVQEHA E

6409/6881
FIGURE 5917

CGCGCGGCTGAGGCGAGGTGCGCTCGGCGCAGCTGTTGCGGGGCC**ATG**GCGGGGACCGCGCTCAAGAGGCTGATGG
CCGAGTACAAACAATTAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCCAGAAGACACCTGCTTTGAGTTTGGTGTTTTTCTGCCATCCTGAGTTTCC
CACTTGATTACCCGTTAAGTCCCCCAAAGATGAGATTTACCTGTGAGATGTTTTCATCCCAACATCTACCCTGATG
GGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGA
GTCCTGTGCAGAGTGTGGAGAAGATCCTGCTGTGCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAG
CTAACGTGGATGCGTCCAAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGA
AGTCTCTGGGACTG**TGAG**ACCTGGCCTCGCACAGGCGCGCACACACCGCCAAGCAGCTCAGCATTCTCCCCGGC
ACACTTAGTGACAGTGTGCTCTGTGCTGGTACCAAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTTT
TTTCAAACCTTTCTACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTGGAATATTGACAGCTTACTG
CAGTTTTACAGTATTCCCTCACAAGGGCTTCAGGTAGATTATCAGAGCTGTCAGCACTACCTCTCCCCGCTGAAA
CCAGCAGTTTATGGCTTCCCTGTGGATTCCCTCCCTCCCTGGAGTGTTGAGGGGGTTGTACCTGCCAGACTTCCAG
GGGACGATGGAATACCCAGAACGCTCCTTCTGAAGAAATGGGGCCCTGTAGCTGCAGCACAGGGGAAGGGCCCGG
CACCCTTTCTGGGTCTTCTGTTCCCTGTGGGGCCCCATGAGGAGTCCATTACTTCCCTTTCTTCTTCATATTT
TACAGGCAGATGCTTTTCTTATAATCTAATTACATCTTTTCATTTGTTATATATTACAAACCATCACACTTAGAA
ATACTTCCAGGAAATGCTTTTTTTGAAGTGTGAATTAATAAGAAATGGGGTAAATAGAAAAAGAAATTTATTGCTGA
TTGGCCAGGTGCGGTGGTTTCGTGCCTGTAATCCCAGCTCTTTGGGAGGCCAAGGCAGGTAGATCACAAGGTCAGG
AAATTGAGACCATCCTGGCTAATACAGTGAAACCCCATGTCTGCTAAAAATTACAAAAAATTAGCTGGGCGTGGTG
GTGCACGCCTGTAGTCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTAGCA
GTGAGCTGAAGTCCCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCAGTCTCAAAAAAGAAAAAGAAAT
TTATTGCTGATCACAAGGACAGACAGTTTTTTCCCGACCATACTCATCAAAGATTTACGTTTGTATATTAGTAAC
TAGTGCACTTACTAGAGCAGGTGCAGGTGAGGTCTTTAAAGTTTCAATGAAAGTTTCTTCTGGATCTACAGAAAAA
ATTTTTTTTTTTTCAATCTAAAAACTGGAAATTCTAGGGTTTTTGTACATTTTGATGCACTGGGAATTTATTAGC
ACAAAATCATTCTTTGCAACTCAAAATTCAGAAGGGACTCTACCATATCTTAGCTCAGAGCACAGAGGAGTGCCCT
TATCCCCACACTTGACTGGGCTGTGGAGGTGGGCATGTGGGCCCTGGGCCCAGGCTGGGGACAGAGCCCTTGTT
TTGTGACTTAGGATTTTGATGTGGTTCCCATGTTCTCTAACAGGGCCAGCTGAGCAGCACAGGCCAGGAGGCCAC
AGTGTAAAGCAATAACAGATCTGCCACATGCAGAAGCAAATATCAGGCCTGTCGCACACGGGCGGCATTTAAATAG
GAATTTCTATTTTTGAAATAAGGGATGGTCTATGAGGCATACAGTAGATTGATGTGATCCTTTTCTCCCTCCCT
TCCATAATGGATCGTGGTCTGTGTGACTGAACCCACACAGAGTGTGATGGGTGACAGTTTCTGGTTGAAGTAGCT
CCACGCCCTGGCTTCTGTGGACAGCAGATTCTTTTCTTCTCACAAGGGGCTCATTTAAAAATTTGGAGGCTGGGTG
CTGTGGCTCACGCCTGCAATCCCAGCACTTTGGGAGACTGAGGCGGGCGGATCATGAGGTGAGGAGATCGCGACC
ATCCTGGCTAACAGTGAAACCCCTGTCTCCACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTA
GTCCCAGCTACTCTGAAGACTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCTGAGATC
ACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAATGGAACGCAG
GGCAAGAACTCGTATTTGGAAGGAGATGGGGGAAAGGAGCGGTATTATACCTATGTTGTATTTGCAGGCAAATGA
GATGGAGCCCTCTCTGTAAAGAAGAGTCATTTGTGCAAGTAGACGGGGTCTGTGGGTGCAGGCCCTGGAGGGGCA
CACAATTGCCTGGAGGCTTCTGTGAGATCGGGAGAGGGAGGAGAGGCAGTCTCTTGACAAAATAAAGTATTTTAA
TTCATTTGTATTTATTAAATGAAAAACAATCCCATGGTGTCCCTGTTGTGTGGTGGAACCTAATGACTGTTGAA
ATAAAGTTCTGTGTTTTCCCTGCCCTGC

6410/6881
FIGURE 5918

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWALIMGPEDTCFEFGVFPAILSFPLDYPLSPPKMRFTC
EMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQ
FYKIAKQIVQKSLGL

6411/6881
FIGURE 5919

AGCCACGTGACCCCCGTGCCGGCCAACGGGTGCGCCGGGATTTGGGGGATAAAGCGCGGCCCCGCGCACAGTTGC
GGCGGGAGAGCGGCGGGGGCCGAGAGCGTGACTCGCCCGCTCCGCGCTGCTTCCCCCGCGCCGCTCCCCGCGCCG
CTCGCGCAGCCATGTCCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGG
CCGGGCAGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACT
GCGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTTCAGGTTTCGACGGGCAGCCAATCAATGAAACTGACACTC
CAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGGAGAGCA
GCCTGGCAGGGCACAGTTTCTAGAGGGCCCGTCCCCAGCCCCGGGCCGTCCATCCTCGCATTGCTGTTGAATGGTG
AGCACGTGACCATGCCGACCACAAAGGTGTCTGCGGAAACTCGAGGACATTCACCACGATGATTTTCTCTCTTT
GATGTACTTCAAGTGCAACTCAAACTATATCTGCAGGGATGAATCTGTAACCTAAATTGGGCCAATCAGAATTG
TTATCTTTGTTTCAGGTAAAATGAGTTGCAAGATATTGTGGGTACTTTTGTGTGCTCATTGTGTTTTCCCCCCT
CCTACAACATTTTTTTAACCCCAAATATAGCCTGAATGTTTCGCTTTTAGTCTGGCCAGGGATCTGACTCCTGA
GTTGGTTGCCTCTCCCCTGCTCACTCCAGTCACATAGAGAATTGGTGTTTCCCGCAGTGGGGATGCAGCTGTTGG
ACAGGTATTGGGGGCAAGGTTGGTAGGGAGGACAGACTGTCACCTGCTGTTACAGGCACAGGTGATTAAAATGCT
AAATATTGCAAATTTAAGCTTTGTCAGTATATGGAAAAGTTGAAGGGAAAATACTGGAATGCTTCTTCAAAGGTT
AAAAAATAACCGAGTCTTTTGGTAATTTGACCCACGTGCTCTCTGGCCCTCAAGCATGTAACCTCGGGGTCTGA
GGCCCAGGACCCACCCCTGCCACCCCTCCACCCCACTCCCTGCTCAGTACCTGGCGTTGGTACACAGGCAAG
GATTGGCACAACCAAAATTGGCCTTTTTCTCCCTCTTAATATTGAAGAAATTTCCACATTTCTCATTGTTGTAATG
GTGTTGTGGCCTCAGATTTCTTCTAGTATTTGCTTCTGATGAATGATTATGGTCTATACATAAAAAAGTAAGACT
AAGTATTGCTGAATTTGCAGTTATGTTGTCGTGTATAAGAGCTACTTCCAAGTGTGGTTACAAATGAACCCATGG
AATGATGACTTCATGTTCTTCTCGTGGGTTTGTGCCGTGCTGCTTTCCAAATAGGTATTGAATTTATGCATTAGT
CTGGTGATTTTCAGTTCTGTGAAATATTTTGGGATCTATACCAATTAAACATTTTCATAGTTCTGCCTATTGTCCCT
TCCCTGAGGCTCCATTGCTGCTTGGTGGCCATTCTCTGCCTTTTTTACAGTCACCTGAACAATGACCCATCATCTC
TTGCTTGCTTGAAATCTTGCTGAAATGTTCTCATTTCTGTTTGTGCTGATGGGCTCGGGTGGGATGTTTGTGGC
TCTGTTGTGTTTATTCACCAATTTGTACATTATTTGTTGTCTTTACTACTGTAAACAGTAAATATAGTTTGGT

6412/6881
FIGURE 5920

MSEKPKKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQL
EMEDEDTIDVFQQQTGGVPESLAGHSF

CTGAACCTCTAGCCGCGCCGGGAGGCGAGCCCGTTGGCGAGGGCGGGGCAGATGGCGAGGGAGCGGGGCGAGCTG
CTTTTTTGAAGGCTGCGCACTCGCATGGCCCCACCTCGCAGGTCCACTTCCGGCGCCGCGGCTGTTCCGGGCGGAGA
CCGCTTGTGCTGGAGTCGGAGTTGTAACGCTCCACTGACTGATAGAGCGACCGGCCGACCATGGCGCCCGGAGTG
GCCCCGCGGGCCGACGCCGTACTGGAGGTTGCGCCTCGGTGGCGCCGCGTGTCTCTGCTGCTCATCCCCGTGGCC
GCCGCGCAGGAGCCTCCCCGAGCTGCTTGTCTCAGAACACAAACAAAACCTGTGAAGAGTGCCTGAAGAACGTC
TCCTGTCTTTGGTGCAACACTAACAAGGCTTGTCTGGACTACCCAGTTACAAGCGTCTTGCCACCGGCTTCCCTT
TGTA~~AA~~ATTGAGCTCTGCACGCTGGGGAGTTTGTGGGTGAACCTTGAGGCGCTGATCATCACCATGTCGGTAGTC
GGGGGAACCTCCTCCTGGGCATTGCCATCTGCTGCTGCTGCTGCTGTCAGGAGGAAGAGGAGCCGGAAGCCGGAC
AGGAGTGAGGAGAAGGCCATGCGTGAGCGGGAGGAGAGGCGGATACGGCAGGAGGAACGGAGAGCAGAGATGAAG
ACAAGACATGATGAAATCAGAAAAAATATGGCCTGTTTAAAGAAGAAAACCCGTATGCTAGATTTGAAAAACAAC
TAAAGCGCTCCAGCACATCAGTCCCCGACGCTTCCTGTGAGGTGCACGCTCCGCAGCCCAGCCCAGCCGGGAGACC
ACGTGGCCATTGCGGTCTCCTGACCTTGGCCAGTGAACCTGCCAGCCTTCCAGGACAGGCGGCCGGAGAGCTGCC
CCTGAAGGACAGTCTCTCGTCTTGACAGTGGTGACCTTCTATTCCCTGTTTCATCTCTGTTTCTAGATTTAGTC
ACTTGA~~AA~~ATAAGAAATCTTTGGGGTTTGGGCTTTTTTATACTCTTCTCAGTTTGTGAAACGCTAACTGCACACGA
AGCCGCTTGACGGCACCCAGCGCTGTGGCTGTCACTTCTCCAGGGCAGAACCCTGCGTTTCTCTCTGTCCACTAA
CAAGCTTCACACGCAACACAGGGAAGTCGGTTTGACTTTTGTCATGAGGAGAACTGACCAGCCCTCATCATTCCC
CATAAAACCACGGACAGCGTCTGTGTGCGCATCTTGAGTCTTCACACCTGTTGACTCACACGGCTTTTGCTGATG
ACACGGGGCTCCAGTACACAGTCTGATAAGGACTTAACGTCTTAACCTCAATTGTATTAAATAGCATTGGGGAAT
AGCTAAACCTTTTTTAAAAAAATTTATTGGATTTTCTCCCTGCTTAAAAGATTTACCAGAAAACCTTCATATAA
AAATTTCAGGCCCTTTTTTGACAATTTTTTAAAAATTTGTATCTTTACTAGAACATGAGAATCTTTTTCCCTTGGAAG
CTTGAATTATAAATGTGGTGTTTTGGCCTGCCTCAGCAGCACCCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAG
GACGGGGCAGGACGCTGCAGCTCTCTCCAGCCCTGTTGGCATCCTCAGTGCCTGCAGGCCTCTCGCTGCCTGTTG
GGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAGAAAGAAAGGCCCGTCCACA
GGCCCCGGCTCTGGGCCACGTGCCCCGGAAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAG
CAGGCGCTGGTGCTCCTTCTGCCTCATGGGACCAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGAGCA
CTTCCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCACGTTTCTGTAA~~AA~~ATCAGG
ATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGGGAAAGCAGCGTGGGGGAAGTCACTGAAAAGTGC
TGCCTAAGGAAGTTTGGA~~AA~~ATAGTCCCCGTTCCAGATTGCCTTGAATTTTAA~~AA~~ACATTTTGCTTTGGGAAAGTAG
GTCAGCAGCACCTAAGATCAAGGATGCGTTCCATTTTACACTTCACAGTCATGAA~~AA~~CTGAGAAGACTGTCTTC
AGCGTGA~~AA~~CTAAAGTTACAGGCAGATCACTGATCCAGAACACTTCAAGAACTCGTCAAACAGCTCGATAAGCCT
TTTTGACTGTGTACATCTGTACCGGGAATAACATTCTAGGCTGAAATTTCCACAAAGAATAGAACCTGTACCCA
GTTCTTCAGGCTGATTTCCCTGACCTCTTGGGCATTTGTATTTGTAGTAAAGTATTGCAGAGATTCTAAGTATT
TTATAGCAGCCATCAA~~AA~~ATTGGACTTTGTATTGTTTATTATAAAAGACACTTGGTAATAGACTTCAGTGA~~AA~~CTC
TGTATGAATGCAGTAGTGTGCGTGCAAAATCCGCTTCCTGAGCGTAGGGTGCTGAGCTGGCGCTAGGGCTCGGTT
GTGA~~AA~~ATACAGCGTAGTCAGCCCTTGCGCTCAGTGTAGAAACCCACGTCTGTAAGGTCGGTCTTCGTCCATCTGC
TTTTTTCTGAAATACACTAAGAGCAGCCACAAA~~AA~~CTGTAACTCAAGGAAACCATAAAGCTTGGAGTGCCTTAAT
TTTTAACAGTTTCCAATAAAACGGTTTACTACCTGA

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FIGURE 5922

MAPGVARGPTPYWRLRLGGAALLLLLIPVAAAEPPGAACSQNTNKTCEECLKNVSCLWCNTNKACLDYPVTSVL
PPASLCKLSSARWGVWVNFEALIIITMSVVGTTLLLGIAICCCCCRRKRSRKPDRSEEKAMREREERRIRQEER
RAEMKTRHDEIRKKYGLFKEENPYARFENN

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FIGURE 5923

TGTCAGGACTTTACGACCCGCGCCTCCAGCTGAGGTTTCTAGACGTGACCCAGGGCAGACTGGTAGCAAAGCCCC
CACGCCCAGCCAGGAGCACCGCCGAGGACTCCAGCACACCGAGGGACATGCTGGGCCTGCGCCCCCACTGCTCG
CCCTGGTGGGGCTGCTCTCCCTCGGGTGCGTCTCTCTCAGGAGTGCACGAAGTTCAAGGTCAGCAGCTGCCGGG
AATGCATCGAGTCGGGGCCCCGGCTGCACCTGGTGCCAGAAGCTGAACTTACAGGGCCGGGGGATCCTGACTCCA
TTCGCTGCGACACCCGGCCACAGCTGCTCATGAGGGGCTGTGCGGCTGACGACATCATGGACCCACAAAGCCTCG
CTGAAACCCAGGAAGACCACAATGGGGGCCAGAAGCAGCTGTCCCCACAAAAGTGACGCTTTACCTGCGACCAG
GCCAGGCAGCAGCGTTCAACGTGACCTTCCGGCGGGCCAAGGGCTACCCCATCGACCTGTACTATCTGATGGACC
TCTCCTACTCCATGCTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGGCCCTCAACGAGA
TCACCGAGTCCGGCCGCATTGGCTTCGGGTCTTCGTGGSACAAGACCGTGCTGCCGTTTCGTGAACACGCACCCTG
ATAAGCTGCGAAACCCATGCCCCAACAAGGAGAAAGAGTGCCAGCCCCCGTTTGCCTTCAGGCACGTGCTGAAGC
TGACCAACAACCTCCAACCAAGTTTCAGACCGAGGTGCGGAAGCAGCTGATTTCCGGAACCTGGATGCACCCGAGG
GTGGGCTGGACGCCATGATGCAGGTGCGCCGCTGCCCGGAGGAAATCGGCTGGCGCAACGTCACGCGGCTGCTGG
TGTTTGCCACTGATGACGGCTTCCATTTGCGGGGCGACGGGAAGCTGGGCGCCATCCTGACCCCCAACGACGGCC
GCTGTCACCTGGAGGACAACCTTGTACAAGAGGAGCAACGAATTCGACTACCCATCGGTGGGCCAGCTGGCGCACA
AGCTGGCTGAAAACAACATCCAGCCCATCTTCGCGGTGACCAGTAGGATGGTGAAGACCTACGAGAACTCACCG
AGATCATCCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCCAGCAATGTGGTCCAACCTCATTAAGAATGCTT
ACAATAAACTCTCTCCAGGGTCTTCTTGATCACAACGCCCTCCCCGACACCCTGAAAGTCACCTACGACTCCT
TCTGCAGCAATGGAGTGACGCACAGGAACCAGCCCAGAGGTGACTGTGATGGCGTGACAGATCAATGTCCCGATCA
CCTTCCAGGTGAAGGTCACGGCCACAGAGTGATCCAGGAGCAGTCGTTTGTATCCGGGCGCTGGGCTTCACGG
ACATAGTGACCGTGACGGTTCTTCCCCAGTGTGAGTGCCGGTGCCGGGACCAGAGCAGAGACCGCAGCCTCTGCC
ATGGCAAGGGCTTCTTGAGTGCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAAACTGTGAGTGCCAGA
CACAGGGCCGGAGCAGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACCTCCATCATCTGCTCAGGGCTGG
GGGACTGTGTCTGCGGGCAGTGCCGTGTGCCACACCAGCGACGTCCCCGGCAAGCTGATATACGGGCAGTACTGCG
AGTGTGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGGCGGCCCGGGGAGGGGGCTCTGCTTCTGCG
GGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCCTGAACC
CGCGGCGTGTTGAGTGAGTGCTGCTGGCCGGTGCCGCTGCAACGTATGCGAGTGCCATTACAGGCTACCAGCTGC
CTCTGTGCCAGGAGTGCCCCGGCTGCCCCCTACCCCTGTGGCAAGTACATCTCCTGCGCCGAGTGCCCTGAAGTTTCG
AAAAGGGCCCCCTTTGGGAAGAACTGCAGCGCGGCGTGTCCGGGCTGCAGCTGTGCAACAACCCCGTGAAGGGCA
GGACCTGCAAGGAGAGGGACTCAGAGGGCTGCTGGGTGGCCTACACGCTGGAGCAGCAGGACGGGATGGACCGCT
ACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCCAACATCGCCGCCATCGTCGGGGGCACCGTGG
CAGGCATCGTGCTGATCGGCATTCTCCTGCTGGTCATCTGGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGT
ACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCCAGTGGAACAATGATAATCCCCTTTTCAAGAGCGCCACCACGA
CGGTATGAACCCCAAGTTTGCTGAGAGTTAGGAGCACTTGGTGAAGACAAGGCCGTCAGGACCCACCATGTCTG
CCCCATCACGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAATCCAGTTATTT
TCCGCCCTCAAAATGACAGCCATGGCCGGCCGGGTGCTTCTGGGGGCTCGTCGGGGGGACAGCTCCACTCTGACT
GGCACAGTCTTTGCATGGAGACTTGAGGAGGGAGGGCTTGAGGTTGGTGAGGTTAGGTGCGTGTTCCTGTGCAA
GTCAGGACATCAGTCTGATTAAAGGTGGTGCCAAATTTATTTACATTTAACTTTGTGAGGGTATAAAATGACATCC
CATTAATTATATTGTTAATCAATCACGTGTATAGAAAAAAATAAACTTCAATACAGGCTGTCCATGG

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FIGURE 5924A

AGCTCCAGCCGCACTGCCCCGATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTG
GCGGCTGCCCCGGGCCAACCTGCTGAACCTGAACTGGCTTTGGTTCAATAATGAGGACACCAGCCATGCAGCTACC
ACGATCCCTGAGCCCCAGGGGCCCCCTGCCTGTGCAGCCACAGCAGATACCACCACACACGTGACCCCCCGAAT
GGTCCACAGAGCCAGCGACAGCCCCCTGGCAGCCCTGAGCCACCCTCAGAGCTGCTGGAAGATGGCCAGGACACC
CCCCTTCTGCCGAGAGCCCCGACGCGCCAGAGGAGAACATTGCCGGTGTTCGGAGCCGAGATCCTGAACGTGGCC
AAAGGCATCCGGAGCTTCGTCCAGCTGTGGAATGACACTGTCCCCACTGAGAGCTTGGCCAGGGCGGAAACCCTG
GTCCTGGAGACTCCTGTGGGCCCCCTTGCCCTCGCTGGGCCTTCAGCACCCCCCAGGAGAATGGGACCCTCTC
TGGCCCAGCCGTGGCATTCTAGCTCTCCGGGCGCCACACAACCGAGGCTGGCACCTTGCTGCACCCACCCCA
TCGCTCCCTCCCTGGGCAGGCCCTGGGCACCACTCACGGGGCCCTCAGTGCCACCACCATCTTCAGAGCGCATC
AGCGAGGAGGTGGGGCTGCTGCAGCTCCTTGGGGACCCCCCGCCCCAGCAGGTACCCAGACGGATGACCCCGAC
GTCGGGCTGGCCTACGTCTTTGGGCCAGATGCCAACAGTGGCCAAGTGGCCCGGTACCACTTCCCCAGCCTCTTC
TTCCGTGACTTCTCACTGCTGTTCCACATCCGGCCAGCCACAGAGGGGCCAGGGGTGCTGTTGCCATCACGGAC
TCGGCGCAGGCCATGGTCTTGCTGGGCGTGAAGCTCTCTGGGGTGCAGGACGGGCACCAGGACATCTCCCTGCTC
TACACAGAACCAGGTGCAGGCCAGACCCACACAGCCGCCAGCTTCCGGCTCCCCGCCTTCGTGCGCCAGTGGACA
CACTTAGCCCTCAGTGTGGCAGGTGGCTTTGTGGCCCTCTACGTGGACTGTGAGGAGTTCCAGAGAATGCCGCTT
GCTCGGTCTTCACGGGGCCTGGAGCTGGAGCCTGGCGCCGGGCTCTTCGTGGCTCAGGCGGGGGGAGCGGACCCT
GACAAGTTCCAGGGGGTGATCGCTGAGCTGAAGGTGCGCAGGGACCCCCAGGTGAGCCCCATGCACTGCCTGGAC
GAGGAAGGCGATGACTCAGATGGGGCATCCGGAGACTCTGGCAGCGGGCTCGGGGACGCCCCGGAGCTTCTCAGG
GAGGAGACGGGCGCGGCCCTAAAACCCAGGCTCCCCGCGCCACCCCCCGTACCACGCCACCCTTGCTGGAGGC
AGCAGCACGGAAGATTCCAGAAGTGAAGAAGTGCAGGAGCAGACCACGGTGGCTTCGTTAGGAGCTCAGACACTT
CCTGGCTCAGATTCTGTCTCCACGTGGGACGGGAGTGTCCGGACCCCTGGGGGCCGCTGAAAGAGGGCGGCCTG
AAGGGGCAGAAAGGGGAGCCAGGTGTTCCGGCAGGGCCTCCGGGGAGGGACGGCACCCCTGGAAGGGACGGCGAG
CCGGGCGACCCCCGGTGAAGACGGAAAGCCGGGCGACACCGGGCCACAAGGCTTCCCCGGGACTCCAGGGGACGTA
GGTCCCAAGGGCGACAAGGGAGACCCTGGGGTTGGAGAGAGAGGGCCCCCAGGACCCCAAGGGCCTCCAGGGCCC
CCAGGACCCTCCTTCAGACACGACAAGCTGACCTTCATTGACATGGAGGGATCTGGCTTCGGGGGCGATCTGGAG
GCCCTGCGGGGTCTTCGAGGCTTCCCTGGACCTCCCGGACCCCCCGGTGTCCAGGCCTGCCCCGGCGAGCCAGGC
CGCTTTGGGGTGAACAGCTCCGACGTCCAGGACCCGCGGCCCTTCTGGTGTGCTGGGCGCGAGGGTCCCCC
GGGTTTCTGGCCTCCCGGGACCCCCAGGCCCTCCGGGAAGAGAGGGGGCCCCCAGGAAGGACTGGGCAGAAAGGC
AGCCTGGGTGAAGCAGGCGCCCCAGGACATAAGGGGAGCAAGGGAGCCCCCGGTCTGTGCTGGTGTCTGTGGGGAG
AGCGGCCTGGCAGGAGCCCCGGACCTGCTGGACCACAGGCCCCCTGGGCCCCCTGGGCCCCCAGGACCAGGA
CTCCCCGCTGGATTGTGATGACATGGAAGGCTCCGGGGGGCCCTTCTGGTCAACAGCCCGAAGCGCTGATGGGCCA
CAGGGACCTCCCGGCCTGCCGGGACTTAAGGGGGATCCTGGCGTGCTGGGCTGCCGGGGGCGAAGGGAGAAAGTT
GGAGCAGATGGAGTCCCCGGGTTCCTCGGCCTCCCTGGCAGAGAGGGCATTGCTGGGCCCCAGGGGCCAAAGGGA
GACAGAGGCAGCCGGGGAGAAAAGGGAGATCCAGGGAAGGACGGAGTCGGGCAGCCGGGCCTCCCTGGCCCCCCC
GGACCCCCGGGACCTGTGGTCTACGTGTGCGAGCAGGACGGATCCGTCTGAGCGTGCCGGGACCTGAGGGCCGG
CCGGGTTTTGCGAGGCTTTCCCGGACCTGCAGGACCCAAGGGCAACCTGGGCTCTAAGGGCGAAGCAGGCTCCCCG
GGACCCAAGGGTGAGAAGGGTGAACCGGGCAGCATCTTCAGCCCCGACGGCGGTGCCCTGGGCCCTGCCAGAAA
GGAGCCAAGGTGAGGGCCGGGCTTCCGAGGACCCCCGGGTCCATACGGACGGCCGGGGTACAAGGGAGAGATTGG
CTTTCTGGACGGCCGGGTGCCCCGGGATGAACGGATTGAAAGGAGAGAAAGGGGAGCCGGGAGATGCCAGCCT
TGGATTTGGCATGAGGGGAATGCCCGGCCCCCCCAGGACCTCCAGGGCCCCCAGGCCCTCCAGGGACTCCTGTTTA
CGACAGCAATGTGTTTGCTGAGTCCAGCCGCCCCGGGCCTCCAGGATTGCCAGGGAATCAGGGCCCTCCAGGACC
CAAGGGCGCCAAAGGAGAAGTGGGCCCCCCCCGACCACCAGGGCAGTTTCCGTTTGACTTTCTTCAGTTGGAGGC
TGAAATGAAGGGGGAGAAGGGAGACCGAGGTGATGCAGGACAGAAAGGCGAAAGGGGGAGCCCGGGGGCGGCGG
TTTCTTCGGCTCCAGCCTGCCCCGCCCCCCCCGGCCCCCAGGCCCCCAGGCCACGTGGCTACCCTGGGATTCC
AGGTCCAAGGGAGAGAGCATCCGGGGCCAGCCCGGCCACCTGGACCTCAGGGACCCCCCGGCATCGGCTACGA
GGGGCGCCAGGGCCCTCCCGGCCCCCCCAGGCCCCCCAGGGCCCCCTTCATTTCTGGCCCTCACAGGCAGACTAT
CAGCGTTCCCGGCCCTCCGGGCCCCCCCTGGGCCCCCTGGGCCCCCTGGAACCATGGGCGCCTCTCAGGGGTGAG
GCTCTGGGCTACACGCCAGGCCATGCTGGGCCAGGTGCACGAGGTTCCCGAGGGCTGGCTCATCTTCGTGGCCGA

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FIGURE 5924B

GCAGGAGGAGCTCTACGTCCGCGTGCAGAACGGGTTCGGGAAGGTCCAGCTGGAGGCCCCGACACCACTCCCACG
AGGGACGGACAATGAAGTGGCCGCCTTGACGCCCCCGTGGTGCAGCTGCACGACAGCAACCCCTACCCGCGGCG
GGAGCACCCCCACCCACCGCGCGGCCCTGGCGGGCAGATGACATCCTGGCCAGCCCCCTCGCCTGCCCGAGCC
CCAGCCCTACCCCGAGCCCCGCACACAGCTCCTACGTGCACCTGCGGCCGCGCGACCCACAAGCCCACCCGC
CCACAGCCACCGCGACTTCCAGCCGGTGCTCCACCTGTTGCGCTCAACAGCCCCCTGTGAGGCGGCATGCGGGG
CATCCGCGGGGCCGACTTCCAGTGCTTCCAGCAGGCGCGGGCCGTGGGGCTGGCGGGCACCTTCCGCGCCTTCCT
GTCTCGCGCCTGCAGGACCTGTACAGCATCGTGCGCCGTGCCGACCGCGCAGCCGTGCCCATCGTCAACCTCAA
GGACGAGCTGCTGTTTCCAGCTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCGCTGAAGCCCGGGGCACGCAT
CTTCTCCTTTGACGGCAAGGACGTCTTGAGGCACCCACCTGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCC
CAACGGGCGCAGGCTGACCGAGAGCTACTGTGAGACGTGGCGGACGGAGGCTCCCTCGGCCACGGGCCAGGCCTC
CTCGCTGCTGGGGGGCAGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCACGCCCTACATCGTGCTCTGCATTGA
GAACAGCTTCATGACTGCCTCCAAGTAGCCACCGCCTGGATGCGGATGGCCGGAGAGGACCGCGGGCTCGGAGGA
AGCCCCACCGTGGGCAGGGAGCGGCCGGCCAGCCCCTGGCCCCAGGACCTGGCTGCCATACTTTCCTGTATAGT
TCACGTTTTATGTAATCCTCAAGAAATAAAAGGAAGCCAAAGAGTGTATTTTTTTAAAGTTTAAACAGAAGCC
TGATGCTGACATTACCTGCCCCAACTCTCCCCTGACCTGTGAGCCCAGCTGGGTGAGGCAGGCTGCAGTATCAT
GCCCTGTGCAACCTCTTGGCCTGATCAGACCACGGCTCGATTTCTCCAGGATTCCTGCTTTGGGAAGCCGTGCT
CGCCCCAGCAGGTGCTGACTTCATCTCCACCTAGCAGCACCGTTCTGTGCACAAAACCCAGACCTGTTAGCAGA
CAGGCCCCGTGAGGCAATGGGAGCTGAGGCCACACTCAGCACAAGGCCATCTGGGCTCCTCCAGGGTGTGTGCTC
GCCCTGCGGTAGATGGGAGGGAGGCTCAGGTCCCTGGGGCTAGGGGGAGCCCCCTTGCTCAGCTCTGGGCCATT
CTCCACAGCAACCCAGGCTGAAGCAGGTTCCCAAGCTCAGAGGCGCACTGTGACCCCCAGCTCCGGCCTGTCTCT
CCAACACCAAGCACAGCAGCCTGGGGCTGGCCTCCCAAATGAGCCATGAGATGATACATCCAAAGCAGACAGCTC
CACCTTGGCCGAGTCCAAGCTGGGAGATTCAAGGGACCCATGAGTTGGGGTCTGGCAGCCTCCCATCCAGGGCCC
CCATCTCATGCCCCCTGGCTGGGACGTGGCTCAGCCAGCACTTGTCCAGCTGAGCGCCAGGATGGAACACGGCCAC
ATCAAAGAGGCTGAGGCTGGCACAGGACATGCGGTAGCCAGCACACAGGGCAGTGAGGGAGGGCTGTCATCTGTG
CACTGCCCATGGACAGGCTGGCTCCAGATGCAGGGCAGTCATTGGCTGTCTCCTAGGAAACCCATATCCTTACCC
TCCTTGGGACTGAAGGGGAACCCCGGGGTGCCACAGGCCGCCCTGCGGGTGAACAAAGCAGCCACGAGGTGCAA
CAAGGTCTCTGTGAGTCACAGCCACCCCTGAGATCCGGCAACATCAACCCGAGTCATTGTTCTGTGGAGGGAC
AAGTGGACTCAGGGCAGCGCCAGGCTGACCACAGCACAGCCAACACGCACCTGCCTCAGGACTGCGACGAAACCG
GTGGGGCTGGTTCTGTAATTGTGTGTGATGTGAAGCCAATTCAGACAGGCAAATAAAAGTGACCTTTTACACTG

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FIGURE 5925

GGCCGTTGAGGAGGTGCAGGGAGAGGAGCGGGAGGGCTCTGGGTGGCTGCCAAGGGGGAGCTCTGCGCTCAGACC
CTCAACTAAGACCAGGAGGTGCCTGATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGGAAGAGGAAATGAGGC
ATGCTCCATTCATTCGGAGGTACGAACGAGATCACGCCGGTGCTGTCGTACTCCTACCTGGCCGTGCTGGTGCC
CGTGTTCTTGCTCACCGACTACCTGCGCTACACGCCGGTGCTGCTGCTGCAGGGGGCTCAGCTTCGTGTCGGTGTG
GCTGCTGCTGCTGCTGGGGCACTCGGTGGCGCACATGCAGCTCATGGAGCTCTTCTACAGCGTCACCATGGCCGC
GCGCATCGCCTATTCCTCCTACATCTTCTCTCTCGTGCGGCCCGCGCGCTACCAGCGTGTGGCCGGCTACTCGCG
CGCTGCGGTGCTGCTGGGCGTGTTACACAGCTCCGTGCTGGGCCAGCTGCTGGTCACTGTGGGCCGAGTCTCCTT
CTCCACGCTCAACTACATCTCGCTGGCCTTCCTCACCTTCAGCGTGGTCCTCGCCCTCTTCTGAAGCGCCCCAA
GCGCAGCCTCTTCTTCAACCGCGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCTGGAGCGCATGAATCC
TGGCCCAGGCGGGAAGCTGGGACACGCCCTGCGGGTGGCCTGTGGGGACTCAGTGCTGGCGCGGATGCTGCGGGA
GCTGGGGG

6419/6881
FIGURE 5926A

CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGCGGCGGCCCCACTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCCAGACATGAGGGCGGCGCGTGTCTGTCTGCCCTGTCTGTGCAGGCCTGCTGGACAGC
CGCGCAGGATGAGCCGGAGACCCCGAGGGCCGTGGCCTTCCAGGACTGCCCCGTGGACCTGTTCTTTGTGCTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCCCTTACCAAGCG
CTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCCAAGGCCTCACGCGCATGCCTGGCGGCCGCGACGCACTCAAAAGCAGCGTGGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACACCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCCACCTGAAGGAGAATAAGTACCTGATTGTGGTGACCGACGGGCACCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCACCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACACGTACCGGCGCAACTTCACGGCGGCTGACTG
GGGCCAGAGCCGCGACGCGAGAGGAGGCCATCAGCCAGACCATCGACACCATCGTGGACATGATCAAAAATAACGT
GGAGCAAGTGTGCTGCTCCTTCGAATGCCAGCCTGCAAGAGGACCTCCGGGGCTCCGGGGCGACCCCGGCTTTGA
GGGAGAACGAGGCAAGCCGGGGCTCCCAGGAGAGAAGGGAGAAGCCGGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCCAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGGACGGCGTGAAGGGGGAGATGGGGTACCCAGGCCTGCC
AGGCTGCAAGGGCTCGCCCGGGTTTGACGGCATTCAAGGACCCCTGGCCCCAAGGGAGACCCCGGTGCCCTTTGG
ACTGAAAGGAGAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCGGGGAGACCAGGGAGCTCGGGACCATCTGGAGA
CGAGGGCCAGCCGGGAGAGCCTGGGCCCCCGGAGAGAAAAGGAGAGGGCGGGCGACGAGGGGAACCCAGGACCTGA
CGGTGCCCCCGGGGAGCGGGGTGGCCCTGGAGAGAGAGGACCAGGGGGACCCAGGCACGCGGGGACCAAGAGG
AGACCCTGGTGAAGCTGGCCCGCAGGGTGATCAGGGAAGAGAAGGCCCGTTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCGACCCCTGGAGACCCGGGGCTGATGGGTGAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCGGGCAACAGGGGCGCTCCCGGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGGAGACGATAACAACGACATTGCACCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGGTCCCGAGGGCCCCCAGGGACCCCGAGGACACCAAGGACCGCCTGGGCCGGACGA
ATGCGAGATTTTGGACATCATCATGAAAATGTGCTCTTGCTGTGAATGCAAGTGCGGCCCCATCGACCTCCTGTT
CGTGCTGGACAGCTCAGAGAGCATTGGCCTGCAGAACTTCGAGATTGCCAAGGACTTCGTGCTCAAGGTTCATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTTCGAGCCAGGGCAGTCTGACGCGGTGTGGTGCAGTACAGCCACAG
CCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGCAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACAGCTGCTGCCGCCCAG
CCGAACAACCGCATCGCCCTGGTTCATCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTACTTCATCCAGGCTCAGACCA
GCTCAATGTCAATTTCTTGCCAAGGCCTGGCACCATCCAGGGCCGGCCCGGCTCTCGTGGTCAAGGAGAACTA
TGCAGAGCTGCTGGAGGATGCCTTCTCTGAAGAATGTACCCGCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCTCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCCTCACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCAGAGCGGGCGTCTGCTGAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGGCGTCGATGCCATGGACTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCCGTGCCATCGAGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGA
GATCTTCGTGGTGGTCTGTTGGGCCCGCAGGTGAATGAGCCCCACATCCGCGTCTGGTACCAGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCACCCCTGCACGCGGGCACCAAACCCCTGTCTCTCCACCCC
TCCCCACTCATCTAAACAGAGTAAATGTGATGCGAATTTTCCCGACCAACCTGATTGCTAGATTTTTTTTA
AGGAAAAGCTTGAAAGCCAGGACACAACGCTGCTGCCTGCTTTGTGAGGGTCCCTCCGGGGCTCAGCCCTGAGT
TGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTAGTGTACCTGCACAGGGCCCTCTGAGGCTCA
GCCCTGAGCTGGCGTCACCTGTGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTGGCCTCACCTGGGTTCCCCACCC
CGGGCTCTCTGCCCTGCCCTCCTGCCCCCTCCCTCCTGCCTGCGCAGCTCCTTCCCTAGGCACCTCTGTGCT

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FIGURE 5926B

GCATCCCACCAGCCTGAGCAAGACGCCCTCTCGGGGCCTGTGCCGCACTAGCCTCCCTCTCCTCTGTCCCCATAG
CTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAAACTCAAAGCAAGCTCTTCTCCTCAGCTTG
GGGCAGCCATTGGCCTCTGTCTCGTTTTGGGAAACCAAGGTCAGGAGGCCGTTGCAGACATAAAATCTCGGCGACT
CGGCCCCGTCTCCTGAGGGTCCTGCTGGTGACCGGCTGGACCTTGGCCCTACAGCCCTGGAGGCCGCTGCTGAC
CAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGACCCTCGAGATTAACGGTGCT
AACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAGCCCCCTTGGTGCCACAGAGGG
CTGTGCTTACTAGAAACAACGCAAACCTCTCCTTCCTCAGAATAGTGATGTGTTGACGTTTTATCAAAGGCC
CCTTTCTATGTTGTTAGTTTTGCTCCTTCTGTGTTTTTTTTCTGAACCATATCCATGTTGCTGACTTTTCAA
ATAAAGGTTTTCACTCCTC

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FIGURE 5927

TGCTGTGGAAACTCTTCTGGGGCCCCGGGGGGACTACCCTGCCTGCCGTGTGCATTGCAGGAGTGTGACGTCATG
ACCTACGTGAGGGAGACCTGCGGGTGCTGCGGTGAGGCACTGCCCACGGCAGGGTCGGGGCCCCATGCACCGGGTG
GAGGGCGGGAGTGCAGCAGGGCTGGGTTCATCGCTGGGTCTTGCATGTGCACGTGACCCTAGGGTCTGAGGTCTCC
CCGGTACCCCCCGATGACCCTGCCACCCCCCAGACTGTGAGAAGCGCTGTGGCGCCCTGGACGTGGTCTTTCGTC
ATCGACAGCTCCGAGAGCATTGGGTACACCAACTTCACACTGGAGAAGAACTTCGTTCATCAACGTGGTCAACAGG
CTGGGTGCCATCGCTAAGGACCCCCAAGTCCGAGACAGGTACGCGGGGCAGGGGCGGGTGACGATTGCGGGGGGC
CGGGCGGGGCGTGGGAGGCGATGAGATGGGAGAAGTCCAGACGCGTCCCTCCAACGAGGGCCTCTGCATGGCTGG
GGATGCCCCAGACCCCCGAGGCCCTCTGGCAACGACCTACGCGTGGCGCTTGACGGGACGCGTGTGGGCGTGGTGC
AGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGCTGGACGACGAACGTATCGACTCCCTGTGAGCTTCAAGG
AGGCTGTCAAGAACCTCGAGTGGATTGCGGGCGGCACCTGGACACCCTCAGCCCTCAAGTTTGCCTACGACCGCC
TCATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTTTTCGGTGGTTCATCACGGACGGGCGCCACGACCCTCGGG
ACGATGACCTCAACTTGCGGGCGCTGTGCGACCGCGACGTACAGTGACGGCCATCGGCATCGGGGACATGTTCC
ACGAGAAGCACGAGAGTGAAAACCTCTACTCCATCGCCTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGT
TCTCCGACCTGGTTCGTGAGAAGTTCATCGATGACATGGAGGACGTCTCTGCCCCGGGTGAGCGTGTGGGCGCGG
GGCAGTCGGCCGAGGAGCAGCAGGCCCCAGCCGCTGTCTAGCGTGAGCCCCAGGGACACCCCTCACCTGAGGGAT
GAATGTGCAGCCCAGGATCTTGGGCTGTGGGTGGGAAGGGGTGCGGCCCTCTCGGGGCTGCAGGGCAGAGGCCAG
CTGCACCCTGAGCCTGTCTAGGCAGATCAGTGAACGGCCGCTGAGGGTTGCTAGGGACTGACCCTGGCCTGGCC
CGGCCTCTCTCTCTCTTCCAGACCCTCAGATCGTGTGCCAGACCTTCCCTGCCAAACAGGTAATGCAGGGCAC
CCTGAGCCACCACCCCAGACTAGCAAAGCAGCCCTGGTGTCTTCTCTCTCGAGGGCCGGGCTGGGGGAGGGGCC
GTGCAGGGACCCGGGGGGCGGCGGAGCCACTGCGGAGGCTGCTCCTTAGGGAGATGGCCCCAGGATGGCAGCACA
GGGGAGGAGGGGCTTGGGGAAGGCAGGCTCCCAGGAACGCAGGAACAGCATCACGAGGCCATGAGGTGGGTGCTG
CTAGCCTGGCGCTGTGCTCGGCATGTGGCCACTGGTCTTGAAGGCCACCATGGGCCTTGACGTCTCCCTCAGCT
GCCGCCAGCTCCCATGGGCTGGCCGTGCATGTGCCACTCGGAGGAAGCCCTGGATTGAGTGAGTGAAACCATCC
CGGGGTGGAAGCACTGACACCCCCAGCACCAGCAGGTCTTGCTCCAACCCCTGGCCTGCCTCGGAGCTGCAGCTG
CGGCTCTCACATCTCTGGGAGTGGGGGAGCCCATGTCCCGATGTGGCCACGTGGGTGTGAAGCTGGAGCTGGG
GGTGCCGTCCAGGCTCTGCTGGACGTGGTGTGCCCCATGGTGCACGTGCTGCACCGTACCTGGGCCCACAGGAG
GTCCCCGGGGCGTTAGGAGCTGAGTCCCCCTCAGTGAGCCGTCCCTCCAGGAGTGTGAGGGTAGGGATGCCAT
GGAGACAGGGTGGGAGGGTCCGACCTGGAGGACCACAGGGAGGAAACCTCAGGGTCTGCGGTACGAAGTCAGCGC
TTCCTCAGCACGCGGGTCGCGGTGTGCGTTTCGGGCGTTCCATGGGGAG

6422/6881
FIGURE 5928

GCAGTGAAAATGTTATTAGTTTTGAGGGGGTTTGGGAAGCCCAGCGGTACCTGAGGAGTTTCTGGACATTTAAGC
CGGTTCCCTAGGTGTGGCCTTAACAGGGAGGCTGCCCTTCCTTTCACTGAATGAGCTGCGTCACTCATAAGCTCAC
TGAGGGAACCCCATCTGCCAGCTCGTGCGTGCTCAGACGGCGTCCATGTCTCAAGCGTTCTGTGAAGGCTGCGGT
GCAGCGTGAGGTACCCCTGCTGTGTTTCAAGCTTTGCTCACTGCCTGCGGGGCTGGACCGTTGCACCTCCAGGGC
CCCCAGAAACCGAGTTTCGGGTCAAGGTCCTCTGTGTGCATTCTGGGGGTCCATGTACCAGCTGTGACGACGTC
CAGGGGTGAGGCTGAGAAGCAGACACCCTTGGGGAACTGGCTCTGTCCCTCCCCTCCCCATCCCAGGAGCTGA
GGTCTTGGTGAGGCCACAGGGCCAGGTCCACGCAAGGACTGTCCGTGTCTGTCTGTGGTCTCTGGCCCCACGT
GACACCCACACGTGTGGTAGGCAGCCTGGCCTGGGTTGTGGCTATGGCCAGGCCCCCAAGCTGTCCCCGATGCCC
AGGGCTGGTGACCACCCAGGCAGGTGGGGGCCCCACTTGGTAACAGAGTCATAGGGCAGAACCCACCTGGGCTGC
CACAGAAGGTCTGGCTGCCCCCTGTGCCCCACTGCTCCCCACCATGGCCAATCAGAAGAGTCAGGGGCTCCTGGTCT
TTCCGGGAGGGACGTGGCCAGCCAGCTCTAGGTGTTCTGAGCAGCTCTGGGACCCAGCGATTGAGGGGTCAAGGC
TGGGGGTGTGAGAGCCAGGGTCCTCCTTAAGTACCTCCCACACTACACAGACAGTGGCCCTTTTGTGGGCAGCAA
ATTCTTGAGCCATGAAAGGATGCTTTGGGCCCCCTTCCCTCCCAGGAGGGCAGCCTGTGCAGGGATGGTGCTCAGC
AGGTGGACAGGGCCTGGGGCCTGTGTGAGGGTCTCAGGCCTGGGAGCACCAGCAGAGGAGATGGCGGCTCCCAGC
AGTGCCGCTGAAAGTGTCTTGGGCTAAGGACCCACACCCAGGGCTGCCCTGCAGAAACGCCCCCGCAGAGCCCA
GTGGTCTGTGAGGTTGCAGGCAGGGTGCGAATGGAAGGGCACAGGTGCGGGGCTGGCACCTGCCCCGTCTGCC
ACCTCCCCTCCGCCCAGCCCGCACCTGCGTCTCCCCACAGAGCTGTCCGTGGCACAGTGCACGCAGCGGCCCGTG
GACATCGTCTTCCTGCTGGACGGCTCCGAGCGGCTGGGTGAGCAGAACTTCCACAAGGCCCGGCGCTTCGTGGAG
CAGGTGGCGCGGCGGCTGACGCTGGCCCGGAGGGACGACGACCCTCTCAACGCACGCGTGGCGCTGCTGCAGTTT
GGTGGCCCCGGCGAGCAGCAGGTGGCCTTCCCGCTGAGCCACAACCTCACGGCCATCCACGAGGCGCTGGAGACC
ACACAATACCTGAACCTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAATGCCATCGTGCGCAGCCCG
CGTGGCGGGGCCCCGAGGCACGCAGAGCTGTCTTCGTGTTCTTCTCACGGACGGCGTCACGGGCAACGACAGTCTG
CACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATG
GACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCGGTGTTCCACGAGAAGGACTATGACAGCCTGGCGCAA
CCCGGCTTCTTCGACCGCTTCATCCGCTGGATCTGCTAGCGCCGCGCCCGGGCCCCGAGTCGAGGGTCTGTGAG
CCCACCCCGTCCATGGTGCTAAGCGGGCCCCGGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTG
GGCCTGCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCAGCCCCAGGTCTCCCCAGGC
CCTCCGAGGCTGCCCCGGCCTCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTG
GAGCAAGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5929

CACGAGGCGCTGGAGACCACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAAT
GCCATCGTGCGCAGCCCGCGTGGCGGGGCCCCGGAGGCACGCAGAGCTGTCCTTCGTGTTCCCTCACGGACGGCGTC
ACGGGCAACGACAGTCTGCACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTG
GGCAGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCCGTGTTCCACGAGAAGGAC
TATGACAGCCTGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACC

6424/6881

FIGURE 5930

CCGGAGGCACGCAGAGCTGTCCTTCGTGTTCCCTCACGGACGGCGTCACGGGCAACGACAGTCTGCACGAGTCGGC
GCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATGGACGTGCCCAC
CCCGTCCATGGTGCTAAGCGGGCCCGGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTGGGCCT
GCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCAGCCCCAGGTCTCCCCAGGCCCTCC
GCAGGCTGCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5931

CCCTTGCTACTGCTCATGGGTGTGGAGACTGATATTCTGGAAGACTGATAGGCAGATTTACTATTAAACAAACAC
ATAGTCTGTGGCCCAGCAAAGCCACCCCAATCCCTGCACAAGGGTAAAAGGCCAGCATTAGAGCACTGCAGCAGC
AATGACGGAGGGCACGTGTCTGCGGCGCCGAGGGGGCCCTACAAGACCGAGCCGCCCACCGACCTCGGCCGCTG
GCGACTCAACTGCGAGAGGGGCGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGGCCGAGCAGACCGG
CCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCCCCACACCGCCTTTGA
GGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACTGGACGGGTGATTATGGTGG
CCCACTTTTCTCCTGCCAGGCCTCCTGATCACTTGCCACGTGGCACGCATCCCTCTGCCAGCCGGATACAGAGA
AGAGATTGTGCGGTACCTGCGGTACGTGCAGCTCCCTGACGGTGGCTGGGGCCTGCACATTGAGGATAAGTCCAC
CGTGTTTGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTTGGGCCTGACGATCCTGACCTGGTACG
AGCCCGGAACATTCTTACACAAGAAAGGTGGTGTGTGGCCATCCCTCCTGGGGGAAGTTCTGGCTGGCTGTCT
GAATGTTTACAGCTGGGAAGGCCTCAATACCCTGTTCCCAGAGATGTGGCTGTTTCTGACTGGGCACCGGCACA
CCCTCCACACTCTGGTGCCACTGCCGGCAGGTGTACCTGCCCATGAGCTACTGCTACGCCGTTTCGGCTGAGTGC
CGCGGAAGACCCGCTGGTCCAGAGCCTCCGCCAGGAGCTCTATGTGGAGGACTTCGCCAGCATTGACTGGCTGGC
GCAGAGGAACAACGTGGCCCCGACGAGCTGTACACGCCCCACAGCTGGCTGCTCCGCGTGGTATATGCGCTCCT
CAACCTGTATGAGCACCACCACAGTGCCACCTGCGGCAGCGGGCCGTGCAGAAGCTGTATGAACACATTGTGGC
CGACGACCGATTACCAAGAGCATCAGCATCGGCCGATCTCGAAAACCATCAACATGCTTGTGCGCTGGTATGT
GGACGGGCCCCGCTCCACTGCCTTCCAGGAGCATGTCTCCAGAATCCCGGACTATCTCTGGATGGGCCTTGACGG
CATGAAAATGCAGGGCACCAACGGCTCACAGATCTGGGACACCGCATTGCCATCCAGGCTCTGCTTGAGGCGGG
CGGGCACACAGGCCCCGAGTTTTCTGCTCCTGCCTGCAGAAGGCTCATGAGTTCTGAGGCTCTCACAGGTCCCAGA
TAACCTCCCCGACTACCAGAAGTACTACCGCCAGATGCGCAAGGGTGGCTTCTCCTTACGTACGCTGGACTGCGG
CTGGATCGTTTTCTGACTGCACGGCTGAGGCCTTGAAGGCTGTGCTGCTCCTGCAGGAGAAGTGTCCCCATGTCAC
CGAGCACATCCCCAGAGAACGGCTCTGCGATGCTGTGGCTGTGCTGCTGAACATGAGAAATCCAGATGGAGGGTT
CGCCACCTATGAGACCAAGCGTGGGGGGCACTTGCTGGAGCTGCTGAACCCCTCGGAGGTCTTCGGGGACATCAT
GATTGACTACACCTATGTGGAGTGCACCTCAGCCGTGATGCAGGCGCTTAAGTATTTCCACAAGCGTTTCCCGGA
GCACAGGGCAGCGGAGATCCGGGAGACCCTCACGCAGGGCTTAGAGTTCTGTGCGCGGCAGCAGAGGGCCGATGG
CTCCTGGGAAGGCTCCTGGGGAGTTTGCTTACCTACGGCACCTGGTTTGGCCTGGAGGCCTTCGCCTGTATGGG
GCAGACCTACCGAGATGGGACTGCCTGTGCAGAGGTCTCCCGGGCCTGTGACTTCTGTGCTGTCCCGGCAGATGGC
AGACGGAGGCTGGGGGGAGGACTTTGAGTCTGCGAGGAGCGCGTTATTTGCAGAGTGCCAGTCCCAGATCCA
TAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTCCGGCATCCTGACATCGAGGCCCAGGAGAGAGGAGTCCG
GTGTCTACTTGAGAAACAGCTCCCCAATGGCGACTGGCCGCAGGAAAACATTGCTGGGGTCTTCAACAAGTCCTG
TGCCATCTCCTACACGAGCTACAGGAACATCTTCCCCATCTGGGCCCTCGGCCGCTTCTCCCAGCTGTACCCTGA
GAGAGCCCTTGCTGGCCACCCCT**TG**AGAACATGCCTACCTGCTGGGTGCCGTCTGTGCGTTCCAGTGAGGCCAAGG
GGTCTTGCCGGGTTGGGGAGCCCTCCCATAAACCTGTCTTGGGCTCCAACCCCTCAACCTCTATCTCATAGATG
TGAATCTGGGGGCCAGGCTGGAGGCAGGGATGGGGACAGGGTGGGTGGCTTAGACTCTTGATTTTACTGTAGGT
TCATTTCTGAAAGTAGCTTGTGCGGCTTGGGTGAGGAAGGGGGCACAGGAGCCGTGACCCCTGAGGAGGCACAGC
GCCTTCTGCCACCTCTGGGCACGGCCTCAAGGTAGTGAGGCTAGGAGGTTTTTCTGACCAATAGCTGAGTTCTT
GGGAGAGGAGCAGCTGTGCCTGTGTGATTCTTAGTGTCGAGTGGGCTCTGGGCTGGGGTCCGCCCTGGGCAGGC
TTCTCCTGCACCTTTTGTCTGCTGGGCTGAGGGACACGAGGGCAACCCTGTGACAATGGCAGGTAGTGTGCATCC
GTGAATAGCCCAGTGCGGGGTTGCTCATGGAGCATCCTGAGGCCGTGCAGCAGGGAGCCCCATGCCCTGGGTC
GTGAGCTTGCCGTATGGGGTGGTGTGCATGGAGCCTCATGCCCCTGGGTGCTGAGCTCGCCTGAGTATGGGGT
GGTGTGCATGGAGCCGCATACCCCTGGGTTGTGAGCTCGCCTGCATATGCAGGGTCTGTGCATGGAACATCCCAAGT
CTGTGCAGCAGGGAGCCCCATGCCCTGGGACATGAACCCACCTGCGTGGAATGCTGTTTGTGAGGTGTCTACAG
GGTTTATAGTAGTCTTGTGGACACAGAAATGCACAGGGGACACTTACGGACACAGA

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FIGURE 5932

MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKDLPKAHTAFE
GALNGMTFYVGLQAEDGHWTDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKST
VFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGNLTLFPEMWLFPDWAPAH
PSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL
NLYEHHSALHRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDG
MKMQGTNGSQIWDTAFAIQALLEAGGHRPEFSSCLQKAHEFLRLSQVPDNPDPYQKYRQMRKGGFSFSTLDCG
WIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLELLNPSEVFGDIM
IDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMG
QTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYLSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVR
CLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP

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FIGURE 5933A

GTAATACTTAATTACCTTCTAATAATTGGAGCAGAAGATGAACCCAACTAATCCTTTTCAGTGGGCAGCAGCCTAG
TGCTTTTTTCGGCGTCTTCTAGTAATGTAGGAACACTTCCATCTAAGCCGCCATTTTCGATTTGGTCAACCTTCTCT
TTTTGGACAAAACAGTACCTTATCTGGGAAGAGCTCGGGATTTTCACAGGTATCCAGCTTTCCAGCGTCTTCTGG
AGTAAGTCATTCTCTTCAGTGCAAACATTAGGGTTCACCCAAACCTCAAGTGTGGACCTTTTCTGGACTTGA
GCACACTTCCACCTTTGTGGCTACCTCTGGGCCTTCAAGTTCATCTGTGCTGGGAAACACAGGATTTAGTTTTAA
ATCACCACCAGTGTGGGGCTTTCCCAAGCACTTCTGCTTTTGGACAAGAAGCTGGAGAAATAGTGAACCTCTGG
TTTTGGGAAAACAGAATTCAGCTTTAAACCTCTGGAAAATGCAGTGTTCAAACCAATACTGGGGGCTGAATCTGA
GCCAGAGAAAACCCAGAGCCAAATTGCTTCTGGGTTTTTTACATTTTCCACCCAATTAGTAGTGCACCTGGAGG
CCTGGCCCCCTTCTCTTTTCTCAAGTAACAAGTAGTTCAGCTACCACTTCAAATTTTACCTTTTCAAACCTGT
TAGTAGTAATAATTCATTATCTGCCTTTACCCCTGCTTTGTCAAACCAAAATGTAGAGGAAGAGAAGAGAGGACC
TAAGTCAATATTTGGAAGTTCTAATAATAGCTTCAGTAGCTTCCCTGTATCATCTGCGGTTTTGGGCGAACCTTT
CCAGGCTAGCAAAGCAGGTGTGAGGCAGGGGTGTGAAGAAGCTGTTTCCAGGTGGAACCACTTCCAGCCTAAT
GAAAGGACTGAAAAGGAAGGAGGACCAGGATCGCTCCCCAAGGAGACATGGCCACGAGCCAGCAGAAGATTCGGA
TCCTCTGTCCCGGGCGATCATCTCCAGACAAACGACCTGTCCGCTGAATCGACCCCGGGGAGGTACTTTATT
TGGTCGGACGATACAGGATGTTTTCAAAGCAATAAGGAAGTAGGTGCTCTGGGCAACAAGGAGGCCAAAAAGGA
AACTGGCTTTGTTGAGTCTGCAGAAAAGTGACCACATGGCTATCCCAGGAGGGAATCAGTCTGTCTGGCACCTTC
CCGGATTCCAGGTGTGAATAAAGAGGAAGAACTGAAAGTAGAGAGAAGAAAGAAAGATTCTCTAAGAGGAACCTC
GGCGCGTCAGAGTAACAGAAGCGAGAGCACAGACAGTCTTGGGGGCTTGTCTCCCTCTGAAGTCACAGCCATCCA
GTGCAAGAACATCCCTGACTACCTCAACGACAGGACCATTCTGGAGAACCATTTTGGCAAAATTGCTAAAGTGCA
GCGCATCTTTACCAGGCGCAGCAAAAAAGCTTGCAGTGGTACATTTCTTTGATCATGCATCTGCAGCCCTGGCTAG
AAAGAAGGGGAAAAGTTTTGCATAAAGACATGGCTATCTTTTGGCACAGGAAGAAAATAAGCCCCAATAAGAAACC
CTTTTCCCTGAAGGAGAAGAAACCAGGTGACGGTGAAGTCAGCCCCGAGCACAGAGGATGCACCTTTTCAGCACTC
TCCTCTTGGCAAGGCCGCGAGGGAGGACTGGTGCTAGCAGCCTCCTGAATAAAAGCTCTCCAGTGAAGAAGCCAAG
TCTTCTAAAGGCCACCAATTCGAGGGAGACTCTTTTGAAGTACAGCTCCGAGGGCTCCGAGGGCCTCGGGCCATG
TGTGCTCTCCCTCAGTACCCTGATAGGCACCTGTGGCTGAGACATCCAAGGAGAAGTACCGCCTGCTTGACCAGAG
AGACAGGATCATGCGGCAAGCTCGGGTGAAGAGAACCAGTCTGGACAAAGCGAGGACTTTTGTGGCACCTGCCT
GGATATGTGTCTGAGAAGGAGAGGTACATGCGGGAGACCCGTAGCCAGCTGAGCGTGTTCGAAGTGGTCCCAGG
GACTGACCAGGTGGACCACGCAGCAGCTGTGAAAGAGTACAGTCGGTCTCGGCGGATCAGGAGGAGCCCCCTGCC
CCACGAGCTGCGGCCCTTGCCAGTGCTCAGCAGGACCATGGACTACCTGGTGACCCAGATCATGGACCAGAAGGA
GGGCAGCCTGCGGGATTGGTATGACTTCGTGTGGAACCGCACGCGTGGCATAACGAAGGATATCACGCAGCAGCA
CCTCTGTGACCCCTGACGGTGTCCCTGATTGAGAAGTGCACCCGGTTTCACATCCACTGTGCCCACTTCATGTG
TGAGGAGCCCATGTCTCTTTGATGCCAAGATCAATAATGAGAACATGACCAAGTGCTGTCAGAGCCTGAAGGA
GATGTACCAGGACCTGAGAAACAAGGGTGTCTTCTGTGCCAGCGAAGCGGAGTTCCAGGGCTACAATGTTCTGCT
CAGTCTCAACAAGGGAGACATCCTAAGAGAAGTACAACAGTTCATCCTGCTGTTAGAACTCATCTGAGGTGAA
ATTTGCTGTTTCAGGCTTTTGTGTCATTGAACAGTAATAATTTTGTGAGATTTTCAAACCTGGTCCAGTCAGCTTC
TTACCTGAACGCTTGTCTTTTACACTGTTACTTCAGTCAGATCCGCAAGGATGCTCTCCGGGCGCTCAACTTTGC
GTACACGGTGAGCACACAGCGATCTACCATCTTTCCCCTGGATGGTGTGGTGCAGTGTGCTGTTTCAGAGACTG
TGAAGAGGCCACCGACTTCTCACCTGCCACGGCCTCACCGTTTCCGACGGCTGTGTGGAGCTGAACCGGTCTGC
ATTCTTGAACAGAGGGGATTATCCAAGACCAGGAAGTCCGTGTTTATTACTAGGAAGCTGACGGTGTGAGTCGG
GGAAATTGTGAACGGAGGGGCCATTGCCCCCGTCCCTCGTCACACCCCTGTGTGCAGCTTCAACTCCCAGAACAA
GTACATCGGGGAGAGCCTGGCCGCGGAGCTGCCCCTCAGCACCCAGAGACCCGGCTCCGACACAGTGGGCGGAGG
GAGAGGAGAGGAGTGTGGTGTAGAGCCGGATGCACCCCTGTCCAGTCTCCACAGTCTCTACCAGCCCCCTGCGCC
CTCACCAGTGCTCTGCTCCTGTCTGGCACTGACCCCGTCTGTGGCGCCAGCCTCTTCCAGCTGTCTGTGCA
GCCTGAACCAACCGCCTCCAGAGCCCGTGGCCATGTACTCTGACGAGGACCTGGCGCAGGTGGTGGACGAGCTCAT
CCAGGAGGCCCTGCAGAGGGACTGTGAGGAAGTTGGCTCTGCGGGTGTGCTACGCAGCTGCCGCCCTGGGTGT
TTCTAATGCTGCTATGGAGGATTTGTTAACAGCTGCAACCACGGGCATTTTGAAGGCACATTGCAGCTGAAGAAGT
GTCTAAGGAAAGAGAGCGAAGGGAGCAGGAGAGGCAGCGGGCTGAAGAGGAAAGGTTGAAACAAGAGAGAGAGCT
GGTGTAAAGTGAGCTGAGCCAGGGCCTGGCCGTGGAGCTGATGGAACGCGTGTGATGAGGATTTGTGAGGGAAAC

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FIGURE 5933B

CTGCTCCCAGGAGTTGAAGAATGCAGTAGAGACAGACCAGAGGGTCCGTGTGGCCCGTTGCTGTGAGGATGTCTG
TGCCCACTTAGTGGA CTTGTTTCTCGTGGAGGAAATCTTCCAGACTGCAAAGGAGACCCCTCCAGGAGCTTCAGTG
CTTCTGCAAGTATCTACAGCGGTGGAGGGAAGCTGTACAGCCCCGCAAGAACTGAGGCGCCAAATGCGGGCTTT
CCCTGCTGCGCCCTGCTGCGTGGACGTGAGCGACCGGCTGAGGGCGCTGGCGCCCAGCGCAGAGTGCCCCATTGC
TGAAGAGAACCTGGCCAGGGGCCTCCTGGACCTGGGCCATGCAGGGAGATTGGGCATCTCTTGCAACCAGGTTAAG
GCGGCTCAGAAAACAAGACAGCTCACCAGATGAAGGTTTACGCACTTCTACCAGCAGCTGCTGAGTGATGTGGCATG
GGCGTCTCTGGACCTGCCATCCCTCGTGGCTGAGCACCTCCCTGGGAGGCAGGAGCATGTGTTTTGGAAGCTGGT
GCTGGTGTGTCGGGATGTAGAGGAGCAGTCCCCAGAGAGTTGTGGCAGAATTCTAGCAAATTGGTTAAAAGTCAA
GTTTCATGGGAGATGAAGGCTCAGTGGATGACACATCCAGCGATGCTGGTGGGATTACAGACGCTTTCGCTTTTCAA
CTCACTTAGCAGCAAAGGGGATCAGATGATTTCTGTAACTGTGTATAAAGGTGGCCCATGGCGCCCTCAGTGA
TGGTGCCATTGATGCTGTGGAGACACAGAAGGACCTCCTGGGAGCCAGTGGGCTCATGCTGCTGCTTCCCCCAA
AATGAAGAGTGAGGACATGGCAGAGGAGGACGTGTACTGGCTGTGGCCTTGCTGCAGCTCAAGCAGCTCCTGCA
GGCTAAGCCCTTCCAGCCTGCGCTTCTCTGGTGGTTCTTGTGCCTAGCCCAGGAGGGGACGCCGTTGAGAAGGA
AGTAGAAGATGGTCTGATGCTACAGGACTTGGTTTACGCTAAGCTGATTTACAGATTACACTGTTACCGAGATCCC
TGATACCATTAAATGATCTACAAGGTTCAACTAAGGTTTTGCAAGCAGTGACAGTGGCTGGTTTTCCCACTGCCCCCA
TTCCCTTGACCTCTGCTGCCAGACTCTCATTACGTACGTCGAAGACGGGATTGGCCATGAGTTTAGTGCCGCTT
TTTCCATGACAGAAGAGAGAGGCGTCTGGGCGGTCTTGCTTCTCAGGAGCCTGGCGCCATCATTGAGCTGTTTAA
CAGTGTGCTGCAGTTCTGGCTTCTGTGGTGTCTCTGAACAGCTGTGTGACCTGTCTGGCCTGTCACTGAGTT
TGCTGAGGCAGGGGGCAGCCGGCTGCTTCTCACCTGCACTGGAATGCCCCAGAGCACCTGGCCTGGCTGAAGCA
GGCTGTGCTCGGGTTCCAGCTTCCGCAGATGGACCTTCCACCCCTGGGGGCCCCCTGGCTCCCCGTGTGCTCCAT
GGTTGTCCAGTACGCCTCCCAGATCCCCAGCTCACGCCAGACACAGCCTGTCTCCAGTCCCAGGTGGAGAACCT
GCTCCACAGAACCTACTGTAGGTGGAAGAGCAAGAGTCCCTCCCCAGTCCATGGGGCAGGCCCCCTCGGTTCATGGA
GATCCCATGGGATGATCTTATCGCCTTGTGTATCAACCACAAGCTGAGAGACTGGACGCCCCCCCCGGCTTCTGT
TACATCAGAGGCGCTGAGTGAAGATGGTCAGATATGTGTGTATTTTTTTTAAAAACGATTTGAAAAAATATGATGT
TCCTTTGTCTGTTGGAACAAGCCAGGTTGCAGACGCAGAAAGGAGCTACAGCTGAGAGAGGGACGTTTGCCAATAAA
GCCTTTTTCATCCTTCTGCAAACAATTTTCCCATACCATTTGCTTCACATGCACCGTAACCTGGAAGAGGAGCACAGA
GTGTGCTCAAGAGGGGAGGATTCCAGCACAGAGGATCTGATGCGAGGAGCTTCTGCTGAGGAGCTCTTGCGCGCA
GTGTTTGTGCGAGCAGTCTGCTGCTGGAGAAAGAAGAGAACAAGAGGTTTGAAGATCAGCTTCAGCAATGGTTGTC
TGAAGACTCAGGAGCATTTACGGATTTAACTTCCCTTCCCCTCTATCTTCTCAGACTCTAGTGTCTCTTTCTCA
CACTATTGAACCTGTGATGAAAACATCTGTAACTACTAGCCCACAGAGTGACATGATGAGGGAGCAACTGCAGCT
GTCAGAGGCGACAGGAACGTGTCTAGGCGAACGACTAAAGCACCTGGAAAGGCTGATCCGGAGTTCAAGGGAAGA
GGAAGTTGCCTCTGAGCTCCATCTCTCTGCGCTGCTAGACATGGTGGACATTTCAGCAGCCTGACCTGTGGGGAG
GGGGTCTCTCCCGAAGAGTTTCTGTTTTTACTCAAATAATGTTATTCTCAGATGCTTGATGCACTGTTGGAAAT
GTGATTAAATTTAATCATGCAGATAAACCATTTAAATGTC

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FIGURE 5934

MNPTNPFSGQQPSAFSASSSNVGTLPSPKPPFRFGQPSLFGQNSTLSGKSSGFSQVSSFPASSGVSHSSSVQTLGF
TQTSSVGPFSGLEHTSTFVATSGPSSSSVLGNTGFSFKSPTSVGAFPSTSAFGQEAGEIVNSGFGKTEFSFKPLE
NAVFKPILGAESEPEKTQSQIASGFFTFSSHPISSAPGGLAPFSFPQVTSSSATTSNFTFSKPVSSNNSLSAFTPA
LSNQNVEEEKRGPKSIFGSSNNSFSSFPVSSAVLGEFPQASKAGVRQGCEEAVSQVEPLPSLMKGLKRRKEDQDRS
PRRHGHEPAEDSDPLSRGDHPPDKRPVRLNRPRGGTLFGRTIQDVFKSNKEVGRLGNKEAKKETGFVESAESDHM
AIPGGNQSVLAPSRIPGVNKEEETESREKKEDSLRGTPARQSNRSESTDLSLGLSPSEVTAIQCKNIPDYLNDR
ILENHFGKIAKVQRIFTRRSKKLAVVHFFDHASAAALARKKGKSLHKDMAIFWHRKKISPNNKPPSLKEKKPGDGE
VSPSTEDAPFQHSPGLGAAGRTGASSLLNKSSPVKKPSLLKAHQFEGDSFDSASEGSEGLGPCVLSLSTLIGTVA
ETSKEKYRLLDQDRIMRQARVKRTDLDKARTFVGTCCLDMCPEKERYMRETRSQLSVFEVVP GTDQVDHAAVKE
YSRSSADQEEPLPHELRLPVL SRTMDYLV TQIMDQKEGSLRDWYDFVWNRTRGIRKDI TQQHLCDPLTVSLIEK
CTRFHIHCAHFMCEEPMSF DAKINNENMTKCLQSLKEMYQDLRNKGVCASEAEFQGYNVLLSLNKGDILREVQ
QFHPAVRNSSEVKFAVQAFAALNSNNEFVRFFKLVSASYNACLLHCYFSQIRKDALRALNFAYTVSTQIRSTIFP
LDGVVRMLLFRDCCEEATDFTLCHGLTVSDGCVLELNRSFAFLEPEGLSKTRKSVF ITRKLT VSVGEIVNGGPLPPVP
RHTPVCSFNSQNKYIGESLAAELPVSTQRP GSDTVGGGRGEECGVEPDAPLSSLPQSLPAPAPSPVPLPPVLALT
PSVAPSLFQLSVQPEPPPPPEPVPMYSDEDLAQVVDELIQEALQRDCEEVGSAGAAAYAAAALGVSNAAMEDLLTAA
TTGILRHIAAAEEVSKERERREQERQRAEEERLKQERELVLSELSQGLAVELMERVMMEFVRETCSQELKNAVETD
QRVRVARCCEDVCAHLVDLFLVEEIFQTAKETLQELQCFCKYLQRWREAVTARKKLRRQMRAPPAAPCCVDVSDR
LRALAPSAECPIAEENLARGLLDLGHAGRLGISCTRLRRLRNKTAHQMKVQHFYQQLLSDVAWASLDLPSLVAEH
LPGRQEHVFWKLVLVLPDVVEEQSPESCGRILANWLKVFMGDEGSVDDTSSDAGGIQTL SLFNSLSKGDQMISV
NVCIKVAHGALSDGAIDAVETQKDILGASGLMMLLPPKMKSEDMAEEDVYWLSALLQLKQLLQAKPFQPALPLVV
LVPSPGGDAVEKEVEDGLMLQDLVS AKLISDYTVTEIPDTINDLQGSTKVLQAVQWL VSHCPHSLDLCCQTLIQY
VEDGIGHEFSGRFFHRRRERRLGGLASQEPGAI IELFNSVLQFLASVVSSEQLCDLSWPVTEFAEAGGSRLPLPHL
HWNAP EHLAWLKQAVLGFQLPQMDLPPLGAPWLPVCSMVVQYASQIPSSRQTQPVLQSQVENLLHRTYCRWKS
PSPVHGAGPSVMEIPWDDLIALCINHKL RDWTPPRLPVTSEALSEDGQICVYFFKNDLKKYDVPLSWEQARLQTO
KELQLREGR LAIKPFHP SANNFP IPLLHMRNWK RSTECAQEGRI PSTEDLMRGASAEELIAQCLSSSLLLEKEE
NKR FEDQLQQLS EDSGAFTDLTSLPLYLPQTLVSLSHTIEPVMKTSVTTSPQSDMMREQLQLSEATGTCLGERL
KHLERLIRSSREEEVASELHLSALLDMVDI

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FIGURE 5935

TGCCGCCCAGGACCCGCAGCAGAGACGACGCCTGCAGCAAGGAGACCAGGAAGGGGTGAGACAAGGAAGAGGATG

TCTGAGCTGGAGAAGGCCATGGTGGCCCTCATCGACGTTTTCCACCAATATTCTGGAAGGGAGGGAGACAAGCAC
AAGCTGAAGAAATCCGAACCTCAAGGAGCTCATCAACAATGAGCTTTCCCATTCTTAGAGGAAATCAAAGAGCAG
GAGGTTGTGGACAAAGTCATGGAAACACTGGACAATGATGGAGACGGCGAATGTGACTTCCAGGAATTCATGGCC
TTTGTGTCATGGTTACTACTGCCTGCCACGAGTTCTTTGAACATGAGTGAGATTAGAAAGCAGCCAAACCTTTC
CTGTAACAGAGACGGTCATGCAAGAAAGCAGACAGCAAGGGCTTGAGCCTAGTAGGAGCTGAGCTTTCAGCCG
TGTTGTAGCTAATTAGGAAGCTTGATTGCTTTGTGATTGAAAAATTGAAAACCTCTTCCAAAGGCTGTTTTAA
CGGCCTGCATCATTCTTTCTGCTATATTAGGCCTGTGTGTAAGCTGACTGGCCCCAGGGACTCTTGTTAACAGTA
ACTTAGGAGTCAGGTCTCAGTGATAAAGCGTGCACCGTGCAGCCCGCCATGGCCGTGTAGACCCTAACCCGGAGG
GAACCCTGACTACAGAAATTACCCCGGGGCACCCTTAAACTTCCACTACCTTTAAAAAACAAAGCCTTATCCAG
CATTATTTGAAAACACTGCTGTTCTTTAAATGCGTTCCCTCATCCATGCAGATAACAGCTGGTTGGCCGGTGTGGC
CCTGCAAGGGCGTGGTGGCTTCGGCCTGCTTCCCGGGATGCGCCTGATCACCAGGTGAACGCTCAGCGCTGGCAG
CGTCCTGGA AAAAGCAACTCCATCAGAACTCGCAATCCGAGCCAGCTCTGGGGGCTCCAGCGTGGCCTCCGTGAC
CCATGCGATTCAAGTCGCGGCTGCAGGATCCTTGCCCTCCAACGTGCCTCCAGCACATGCGGCTTCCGAGGGCACT
ACCGGGGGCTCTGAGCCACCGCGAGGGCCTGCGTTCAATAAAAAG

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FIGURE 5936

MSELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINNELSHFLEEIKEQEVVDKVMETLDNDGDGECDFQEFM
AFVAMVTTACHEFFEHE

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FIGURE 5937

CGGCGACGGCCGG**ATG**GCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTTGCTGGCGGGCGGC
GCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCCCCGAGGTGCTATGCTGTGGGCCCCGCTCAGAGCCCACCCAC
CTTTGGGTTCTGTGGACATCGATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTGCTCTGAAAGCCTT
CCGAAGGCTGGTGAACCTCCAGGGGCAGCTGCGGGTGCCCGTGGTTTTTGTACAAATGCTGGGAACATCTTACA
ACACAGCAAAGCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTATCCTCTCTCACAG
CCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCGTGATGGAAAATGC
CCAGGGACTGGGCTTCCGAAATGTCGTCACCGTGGATGAGCTGCGGATGGCCTTTCTCTGCTTGACATGGTGGAA
CCTGGAGCGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGGTGCTCCTCCTAGG
GGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCCTCCTCAGCAATGGGAGCCCTGGGGCTGG
CCTGGCAACACCCCCCTACCCCCACCTCCCCGTCCTAGCCAGCAACATGGATCTCCTGTGGATGGCTGAAGCCAA
GATGCCCAGGTTTGGACATGGCACCTTTCTGCTGTGCCTGGAAACCATTACCAGAAAGTGACGGGCAAGGAGCT
GAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGATCAGGCGACAGGC
GGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCTATGTCTGACGTATACGG
CGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGGCCGGGGGCACACG
GCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACAATCCAGGAACCC
ACAGTCCACGGAGCCTGTCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTATGCTTCAGTCCAGG
GCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCAAGGAGGGCTGGGC
TTTGGAG**TGA**GGGCAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCATTGGCTGGGCTCT
GGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCTTCTTGCTGCCCCATGAGTGTGGCATTAC
TGGTCACTTGGGAAGAAGACAGTGACTCTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGGTTGGAATTTTCTG
GGCCCAGTTCCACGTGCCTTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTGCCTCAGTGTCTT
CTCATTTTCAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGCAGAGCCTTTGCCG
GCACTGAAGGCATGCAGCCTGTGGCAGAGTGCTTAACACCAGATGCTACTTTTTTACTGTATTGTAGTTTATTG
CCCGGAGATGTGGGGCTTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGACTCTTGTGA

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FIGURE 5938

MAAWGCVAALGAARGLCWRAARAAAGLQGRPARRCYAVGPAQSPPTFGFLDIDGVLVRGHRVIPAALKAFRRLV
NSQGQLRVPVVFVTNAGNILQHSKAQELSALLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLG
FRNVVTVDELRFMAFPLDMVDLERRLKTTPLPNRNDFPRIEGVLLLGEFVRWETSLQLIMDVLLSNGSPGAGLATP
PYPHLPVLASNMDLLWMAEAKMPRFHGHGTFLLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRQAERRG
WAAPIRKLYAVGDNPMSDVYGANLFHQYLQKATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTE
PVLGGGEPPFHGHRDLCFSPGLMEASHVVNDVNEAVQLVFRKEGWALE

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FIGURE 5939

GTGCACGTGCGCACGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTT
GCTGGCGGGCGGCGCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCGCAGGTGCTATGCTGTGGGCCCCGCTC
AGAGCCCACCCACCTTTGGGTTCCCTGTTGGACATCAATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTG
CTCTGAAAGCCTTCCGAAGGCTGGTGAACCTCCAGGGGCAGCTGCGGGTGCCCGTGGTTTTTGTACAAATGCTG
GGAACATCTTACAACACAGCAAAGCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTA
TCCTCTCTCACAGCCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCG
TGATGGAAAATGCCAGGGACTGGGCTTCCGAAATGTCGTACCGTGATGAGCTGCGGATGGCCTTTCCTCTGC
TTGACATGGTGGACCTGGAGCGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGG
TGCTCCTCCTAGGGGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCCTCAGCAATGGGA
GCCCTGGGGCTGGCCTGGCAACACCCCCCTACCCCCACCTCCCCGTCTAGCCAGCAACATGGATCTCCTGTGGA
TGGCTGAAGCCAAGATGCCCAGGTTTGGACATGGCACCTTCTGCTGTGCCTGGAAACCATTTACCAGAAAGTGA
CGGGCAAGGAGCTGAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGA
TCAGGCGACAGGCGGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCCTATGT
CTGACGTATACGGCGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGG
CCGGGGGCACACGGCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACA
ATCCCAGGAACCCACAGTCCACGGAGCCTGTCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCCGAGACTTAT
GCTTCAGTCCAGGGCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCA
AGGAGGGCTGGGCTTTGGAGTGAGGGCAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCA
TTGGCTGGGCTCTGGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCCTTCTTGCTGCCCCATG
AGTGTGGCATTACTGGTCACTTGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGG
TTGGAATTTTCTGGGCCCAGTTCCACGTGCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTG
CCTCAGTGTCTTCTCATTTTCAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGC
AGAGCCTTTGCCGGCACTGAAGGCATGCAGCCTGTCGGCAGAGTGTCTTAACACCAGATGCTACTTTTTACTGTA
TTGTAGTTTATTGCCCGGAGATGTGGGGCTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGAA
AAAAAAAAAAAAAA

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FIGURE 5940

MYAWFFLPFSFSQSPPTFGFLLDIDGVLVRGHRVIPAALKAFRRLVNSQGQLRVPVVFVTNAGNILQHASKAQELSA
LLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLGFRNVVTVDLRLMAFPLLDMVDLERRLKTF
LPRNDFPRIEGVLLLGEPPVRWETSLQLIMDVLLSNGSPGAGLATPPYPHLPVLASNMDLLWMAEAKMPRFGHGT
LLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRAERRGWAAPIRKLYAVGDNPMDSVYGANLFHQYLQ
KATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTEPVLGGGEPPFHGHRDLCFSPGLMEASHV
DVNEAVQLVFRKEGWALE

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FIGURE 5941

AGGAACCGGAACCCGCGGTTATAAAGTAAAGGAACCCGAGATCTGCGCAGGGGTTCCCTTTGCCGATTTCTCTCA
CCTCACCTTTCAAACCTAAACTCGAGCCTACTGTTTACCGGCCCTAGCATTGCTCTCGCCATGGCTCTCAGCGATG
CTGACGTGCAAAAGCAGATAAAGCATATGATGGCTTTCATTGAACAAGAAGCCAATGAGAAAAGCAGAAGAAATAG
ATGCAAAGGCAGAAGAAGAGTTCAACATAGAGAAAGGTCGGCTTGTGCAAACCCAAAGACTAAAGATTATGGAAT
ATTATGAGAAGAAAGAGAAACAGATTGAGCAGCAGAAGAAAATTTCAGATGTCCAATTTGATGAATCAAGCGAGAC
TCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAACAGAGACTCAGCAAGGTGG
TAAAAGATAACAACCAGGTACCAAGTGCTGCTGGATGGACTGGTTCTCCAGGGTTTGTACCAGTTGCTGGAGCCCC
GAATGATTGTTTCGTTGCAGGAAACAAGATTTCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACA
AAATTGCCACCAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTACCTGCCTGAAGACATAGCTGGTGGAG
TTGAGATCTATAATGGAGATCGTAAAATAAAGGTTTCCAACACCCTGGAAAGCCGGCTGGATCTCATAGCCCAGC
AGATGATGCCAGAAGTCCGGGGAGCCTTGTTTGGTGCAAATGCCAACAGGAAGTTTTTGGACTAAGCCTTCAGGA
GGTGGAGCTCGTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTA
GCTTCCTCTTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCTCTGTCACTCATGCCTTGCCTAATT
GTTCACAATGGTGGAAAGCTTCATGTAATATGATCAGGACCCACCTCCAGTTCTTCTGAAAGTGTGACAGTGTCC
AGCCGGTTCTGCAGCACTAGGGGAGGGGGCAGATGGTGGTTGCATGGGCTTCCCTGGGTCTCCACTCTCCGTCTGG
CCTAAAGGTGATGTATTTGGTGTGTTGGCCCTGCAGTCCCCACTCTTGAGGCTTAAGGCGCATGTGGCACACCACT
CCTTCCAGCAGTAGTCGCTTTACTGTTACCTGTTTAGGCCTAGAAGTTTTCCCTCATCTGTAAATGTGATTTAA
ATCTAAGCCATGAATATGCTTTATTTATTAAAAGAGTTATGCGGATTTAATGTGA

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FIGURE 5942

MALSDADVQKQIKHMMAFIEQEANEKAEEDAKAEFEFNIEKGRVQTQRLKIMEYYEKKEKQIEQQKKIQMSNL
MNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQDFPLVKAQVQK
AIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMMPEVRGALFGANANRKFL
D

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FIGURE 5943A

GAAGAGTCCAGTGAAGCCGGGAACCAGAGGCTCCAGCAGGTC**ATG**CACGCGGCGGATCCTCTGGAGATCCAGGCT
GACGTGCACTGGACTCATATCCGTGAGAGAGAGGAGGAAGAGAGGATGGCGCCGGCCTCTGAGTCCTCTGCTTCC
GGAGCCCCATTGGATGAGAATGACCTAGAGGAAGATGTGGACTCAGAACCAGCCGAGATAGAAGGGGAGGCAGCA
GAGGATGGGGACCCAGGGGACACTGGTGCTGAGCTGGATGATGATCAGCACTGGTCTGACAGCCCCGTGGATGCT
GACAGAGAGCTGCGTTTGCCGTGCCCAGCTGAGGGGGAAGCAGAGCTGGAGCTGAGGGTGTCGGAAGATGAGGAG
AAGCTGCCCCCCTCACCAGACCAAGAGAGAGGTCCCTCCCAAGCCACCAGCCCCATCCGGTCTCCCCAGGAA
TCAGCTCTTCTGTTCAATTCCAGTCCACAGCCCCCTCAACAGAGGGGGCCCCAACTCCACCTGTCCCTGCCGCCACC
CAGGAGAAATCACCTGAGGAGCGCCTTTTCCCTGAGCCTTTGCTCCCCAAAGAGAAGCCCAAAGCTGATGCCCCC
TCGGATCTGAAAGCTGTGCACTCTCCATCCGATCACAGCCAGTGACCCTGCCAGAAGCTAGGACTCCTGTCTCA
CCAGGGAGCCCGCAGCCCCAGCCACCCGTGGCGGCCTCCACGCCCCCAGCCAGCCCACTCCCCATCTGCTCCAG
CCCCAGCCTTCCACCGAGGCCACTGTCCATCCCTACCCAGTCCCCCATACGCTTCCAGCCTGCCCCGGCCAAA
ACATCCACCCCACTGGCCCCCTCTCCCTGTCCAAAGCCAAAGTGACACCAAGGACAGACTGGGCAGCCCCCTTGCT
GTGGATGAGGCCCTCAGACGGAGCGACCTGGTGGAGGAGTTCTGGATGAAGAGTGCGGAGATCCGCCGCAGCCTC
GGGCTCACACCTGTGGACCGCAGCAAGGGGCCGAGCCAGCTTCCCCACGCTGCTTCAGGCCAGTGTCCCTC
AAATCCTATTCCGTTGAAAAGTCCCCCAGGATGAGGGACTCCACCTTCTCAAGCCTCTGTCCATCCCCAAAAGG
CTGGGCCTGCCAAAGCCGGAAGGCGAGCCGTTGTCCCTGCCAACCCCCCGGTCCCCGTCCGACAGAGAGCTACGC
AGCGCCAGGAGGAGCGCAGGGAGCTGTCCAGCAGCTCTGGCCTGGGCCTGCACGGGAGCTCCTCCAACATGAAG
ACACTGGGCAGCCAGAGCTTCAACACCTCGGACTCCGCCATGCTCACGCCCCCTCCAGCCCGCCCCCACCGCCA
CCCCCGGGCAGGAGCCCCGCCACCTTGCGGAGGAAGCTCAGGGAGGCCGAGCCCAATGCCTCGGTGGTCCCGCCG
CCCTTGCCCGCCACCTGGATGCGGCCCCCCCCGGGAGCCTGCTCAGCCCCCAGAGAGGAGGTGCGGAAGTCGTTT
GTGGAGAGCGTGAGGAGATTCCCTTTGCTGATGATGTGGAGGACACCTATGACGACAAGACTGAGGACTCAAGC
CTGCAGGAGAAATTCTTCACGCCCCCGTCTGCTGGCCGCGCCCCGAGAAGCCTCGCCACCCGCCCCCTGGCCAAG
GAGAACGGGAGGCTGCCTGCTCTGGAGGGGACGCTGCAGCCACAGAAGAGGGGGCTGCCCTTGGTGTCCGCGGAA
GCCAAGGAGTTGGCCGAGGAGCGCATGCGAGCCAGGGAGAAGTCCGTGAAGAGCCAGGCGCTGCGGGACGCCATG
GCCAGGCAGCTGAGCAGGATGCAGCAGATGGAGCTGGCCTCAGGCGCCCCCAGGCCCCGCAAGGCGTCTCAGCA
CCCTCCAGGGCAAGGAGCGCCGGCCTGACTCCCCACACGCCCCACTCTCAGGGGCTCCGAGGAGCCACCCTG
AAGCATGAAGCCACCAGCGAGGAGGTCTCTCCCCGCCGTGGACTCAGGGGGCCAGATGGCTCTTTCACTTCA
TCCGAGGGCTCCAGTGGGAAGAGCAAGAAGAGGTGCTCACTCTTCTCCCCCGCAGAAACAAGAAGGAGAAGAAG
TCCAAAGGCGAGGGCCGCCCCCGGAGAAGCCCAGCTCCAACCTCCTAGAAGAAGCCGCCGCCAAACCCAAGTCC
CTGTGGAAGTCCGTCTTCTCCGGGTACAAGAAGGACAAGAAGAAGAGGCCGACGACAAGTCTGCCCCAGCACC
CCCTCCAGCGGGGCCACGGTGGACTCTGGAAGCACAGGGTGCTTCCCGTCGTAAGGGCAGAGCTGCAGCTCCGG
CGCCAGCTGAGCTTCTCCGAGGACTCAGACCTCTCCAGCGACGATGTCTTGAGAAGTCTCACAGAAGTCCCGG
CGAGAGCCAAGAACCTACACGGAGGAGGAAGTGAATGCCAAGCTGACCCGGCGTGTGCAAAAGGCAGCTCGGAGA
CAGGCCAAGCAGGAGGAGCTTAAGCGGTGCATCGAGCCAGATCATCCAGCGGCAGCTGCAGCAGGTGGAGGAG
AGGCAGCGGCGGCTGGAGGAAAGGGCGTGGCTGTGGAGAAGGCGCTCCGGGGCGAAGCAGGCATGGGCAAGAAG
GACGACCCCAAGCTGATGCAGGAGTGGTTCAAGCTAGTGCAGGAGAAGAAGCCATGGTGCCTACGAGTCGGAG
CTGATGATCTTTGCCCGGGAGCTGGAGCTGGAAGACCGGCAGAGTCGACTGCAGCAGGAGCTCCGGGAACGCATG
GCAGTGGAAGATCACCTTAAGACTGAGGAGGAGCTGTGAGAAGAGAAGCAGATTCTCAATGAGATGCTGGAGGTG
GTGGAGCAGAGAGACTCACTGGTGGCGCTGCTGGAGGAGCAGCGGCTCCGGGAGAGAGAGGAGGACAAGGACCTG
GAGGCTGCCATGCTGTCCAAGGGCTTACGCCTTAAGTGGTCC**TGAG**CTCCCAACCAACGCTCCATTTTCTGTGG
CATCCGCTGGCCAGGCAGTGGCATCCAAACCACCCGGAGCCGCGATCTGAGGAGGCCTGGCACCTCCTTGGAGT
TTACGCTCAGATGCCCCGTGTGCTGCTTGGAAAGTGGTTCGAGTCCCGCGTGCAGTGGGGAGCCCCAGGTGACAGTG
GTTATCTGAGACGGCTCCACCTCCTGGGAGGAGGCCACCTGGACCTCCCACTCAGAGGAGCAGCACGGCGTGTA
TGGCATGACGCAGGGGACCACCCCGCGCGCTCCCTGAGGATGTGCTGGCTGTGCCCTTTTTTCCACTGGCACAT
TTGGTAAGAGAGGGAAGCTGCTCCCCGTGAGAACCACAGTGCGCCGTGCGAGGGGCACTGTCTTCTTCATGCTCC
CTGGAGCACCAACAAAGAAACGTAACAATAACCCACGAAAGCAGGGTCAGGGGTGCGATCGAGACCCA
GGATGGGGGCGTCCAGTCATGCCACCCAGCATCACAGGAGACATGGAGGTGCGGGCAGGCTCCTGAATTATTA
TGCAAAATTAGGAGGACGCAGGAGGGGTCTGCCCTCCAGCCGAACACCACACACTGGACCCTAAGTGGCCAAATGC

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FIGURE 5943B

CTGGGCCGCTTGCTGGCTGTGGCCTGAGGCTTGTGGGTTGCTGCATTTTGCTTGTAGTTTACAACCATTTTGACA
CTGGAAAAATGCTGACTTTGGGGGACAGGATGAGGCCCTACATTCTAAGCCCCAGTTGGCAGACAGGCATTGTCC
CTGTTCCACATTTATGTCGGGACAGGAGATGACCTTTTCCCTCCGTGTTTTTCTGTGTTTGCACGTTGAAATGAA
GCTGACAACCTGGCAAGACGCTCAGCCGCTTCAAACCTTTTTGTCAATTAACCTATTTTTTAATACTTGAAAAG
AAGTAACTTCGTTTGTGTATCTTTACTAGAGGAACTGATCACCTGCGCCCGGTGCGGGAGCCACAGCGGCATCT
GGTGCCTCCTACGCGACCTGGTCCGGGGCTGCCCCGTGCTCCTCACGTGCATCTATTTATTAGCCTTTCTCTTCG
TATCACTGGCCTGGCTGGCATCAGGGAGCTGCCCAGAACCCCTGTGTGGGTCTCCTCACAGCTTTCTGTCCCT
CCTCCACCCGGTGCCTGCCTCACCCTGGCGCTAGACCATCTGGACCACTCATGTGATGAGGGTGCATTTCCGTTC
TGTTTTGGGCCAGGCCAACAGCAGAGCTGCCACTCTCACCCTCCCAGTGAGAATTCGGGCTCTGCAGAACTCGCC
CTTGCTCAGTTTGGGGGCCAGGGCATCACCTTCCCTCCGCACATATGTTAAAGAAGGTTTCAGGATGGGCCCTCA
TCCACACAGGCCAAGAGGGTGCAAGGTGGGACCTTGAATCATGTGGCTGGTGAGAATTCCTCTCCAGCCTA
AGATTCACCCAGACGGAACGCGAGTGCTGCAGTGGATGCTGGGATGCAGGCTGGTGCCTCTCAAGCAGATCAGC
GACTCCCGCCCTTCCCTCCGAAGGCGACGGGCACCTGCCTTGTGCCGATCTTCATGGGGACATAAAGGGCGAGC
CCGAATCACTAGCTCCTATAGCCAACTGTTCCCTTCTCACGGTTCCGCACCAGCCTGGCTGTGTACAGCTCAT
CAAGCCACTGAGCTAATCGGGGTGGGGTGCTTGTCCATCAAAGCAGTCAGCACATAGCCAGCGAGGAGCCATCC
GGACCAGACCCGCTGCCAGGGGCGCTCCAGCCGCTGCCGCTCCGTGGGCTGGGGCCAGCTGGGAGCAGAGGC
CTGGCCCCCTCCAAGGCGTCCCGCAGTGGAGCAGGCTGAGTGGCTGTGCTGACCTTGGGCTTTCCATGGGAACAC
ACTGTGCTTCAACTTGAACATTTCATCCCAGCTGCAAAGGAGCAAAGAACCTGTGTCTATCCTTGTCTGTCCAGAAG
CTGCCATCTCTCTCCCATGCACATCCGGGAGATAACGCCGCTAGTGGCCGCCACAGCGCTGATTCTCCACCTGTT
CTCACGTGAGGCAAAGGTCTCCTTTTCTTTTCTCTTTACTTAAAAAAGGGGAGAGGAGGGTTTCTAGATTCCATC
TTCAAACCCCAAGTCGTCCCATAAAAATTGGACGTGGGAAAAGACCTTCACTGCCTGCGTGGCCTTTCCAGACCTC
TCCTCGAATGCCACAAAACCGGTCCAGCCCCGGCAGAGCCGCTTCCGGCCCTTGTAAGTGGCCAGACGTAGCAGG
CAGGGAAACAGTTTGCAAAGTGCTTGAAGGAGTGTGGCCTAGGGATCTGCTGTAAAGTGGCCAGACGTAGCAGG
AGAGCCCAAGTGTACCTTCTGGTCTGGTCAGCCTTAACACTGTGGCATCCTCCACAGCACACACGGCAGCCTGC
AGTCTGGAAGGTGGACCCGAGCCTTTCAGAGAGGCGCCGAGAGCCGAGGCTGCGCCCCAGCCTTCTGCTCC
CGACTGTGAGGACACCCAGTTCTAGTAGAGCACTTTTTTTAAAGCTCCCATTTTGTAACCACTAGTTTGCGGTTG
ACTTGAGTACTCTGGTGACTTCCCTGCGTCAAGCGTTCTCAAGCTGTGAGAATGTGCGCAGCTCCAGGCAGGTTTT
CTCTCGGAGAGTTAAGTCTTCCCTTGAAGGCAGGGAAGCAGGATGGATACACATATATCACACGCATAAAACACC
AGGTGCGGGAGCAGCCAGACTCAAGGCTGACTAACTGGAGGCTGAATACCGTGGAGGTCCACATGCAGCTTCC
CTGGAGGGCAGGCCGGAGGCGCTCCCGCCCTGGGCTTGAGGATGCTGCACCCCGTGGGCTTCCAGGCCTGCCCA
GATGATGCCTTCAGGCCTCTGTCCCTGGCGGCCATCCTCAGGCCGATTTTGACCAGCAATGATAGACTCTTCTTA
ACCCTTTCAAATAAAATTTTTTTCAGTGGGACAGAAAGGAGAGTTAAAAAACATTTTTTTAAAGGTGGTAACATCTG
ACCCACAAAGGGAATGGGTCTGTTTTATGCAAATAAAAGTTTTTCAAAT

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FIGURE 5944

MHAADPLEIQADVHWTHIREREEFERMAPASESSASGAPLDENDLEEDVDSEPAEIEGEAAEDGDPGDTGAELDD
DQHWSDSPSDADRELRLPCPAEGEAELELRVSEDEEKLPA SPKHQERG PSQATSPIRSPQESALLFIPVHSPSTE
GPQLPPVPAATQEKSP EERLFP EPLLPKEKPKADAPSDLKAVHSP IRSQPVTLP EARTPVSPGSPQPQPVAAST
PPPSPLPICSQPQPSTEATVPSP TQSP IRFQPAPAKTSTPLAPLPVQSQSDTKDRLGSPLAVDEALRRSDLVEEF
WMKSAEIRRS LGLTPVDRSKGPEPSFPTPAFRPVSLKSYSVEKSPQDEGLHLLKPLSIPKRLGLPKPEGEPLSLP
TPRSPSDRELRS AQEERRELSSSSGLGLHGSSSNMKT LGSQSFNTSDSAMLTPPSSPPPPPPPGEEPATLRRKLR
EAEPNASVVPPLPATWMRPPREPAQPPREEVKRSFVESVEEIPFADDVEDTYDDKTEDSSLQEKFFTPPSCWPR
PEKPRHPPLAKENGR LPALEGTLPQPKRGLPLVSAEAKELAEERM RAREKSVKSQALRDAMARQLSRMQQME LAS
GAPRPRKASSAP SQGKERRPDSPTRPTLRGSE EPTLKHEATSEEVLSPPSDSGGPDGSFTSSEGSSGKSKKRSSL
FSPRRNKKEKKS KEGEGRPPEKPSSNLLEEA AAKPKSLWKS VFSGYKKDKKKKADDKSCPSTPSSGATVDSGKHRV
LPVVRAELQLRRQLSFSEDS DLSSDDVLEKSSQKSRR EPRTYTEEELNAKLTRRVQKAARRQAKQEELKRLHRAQ
IIQRQLQQVEERQRRLEERGVAVEKALRGEAGMGKKDDPKLMQEWFKLVQEKNAMVRYESEL MIFARELELEDRO
SRLQQELRERMAVEDHLKTEEELSEEKQILNEMLEVVEQRDSLVALLEEQR LREREEDKDLEAAML SKGFSLNWS

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FIGURE 5945

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGAGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCTCAACAAAAGAAGCTACA
GGAGGAACCTTTCTGACTTATCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCGTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTTCCA
CATTTGAAAACAACCTCTTTTATAATTATTCAGTGCTTTTTGTGTCAGTGAAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTTGTACAGCCAAAATAATGTATATATGGAAAATGACAGACAAATCTCTAATCTC
TTTGGTATCTATAAATTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTTAATATGGTTTTTCACTGCTAAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGAAACTCCTTTCAGGTTTTTGCAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCCAGTGCCTCACACTATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5946

GGGGCCTGGCTCGGACCACGCGGGGCGGGACCTGGAGCTGACGCGGCCGCCCCGCCCCTGGGACCATAACCGGCC
GCCGCCGCCACCGCGGACCGAGCGCGGAGTTCTGGAGTCTCGGACCCGAAGCCGCCACAGGGCGCCCCGCCTCCC
GCCCCGCATGCCCGCGCCCCGCGCCCCGCGCTCTGGCGGCCGCCGCGCCGCGTCCGGGAAGGCCAAGCTGAC
GCACCCGGGGAAGGCGATCCTGGCAGGCGGCCTGGCGGGTGGCATCGAGATCTGCATCACCTTCCCCACCGAGTA
CGTGAAGACGCAGCTGCAGCTGGACGAGCGCTCGCACCCGCCGCGGTACCGGGGCATCGGGGACTGCGTGC GGCA
GACGGTTCGCAGCCATGGCGTCTGGGCCTGTACCGCGGCCTTAGCTCCCTGCTCTACGGTTCCATCCCCAAGGC
GGCCGTGAGGTTTGGAATGTTTCGAGTTCTCAGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCG
TGGGCTGCTGTGCGGCCTGGGCGCTGGCGTGGCCGAGGCCGTGGTGGTCTGTGTGCCCCATGGAGACCATCAAGGT
GAAGTTCATCCACGACCAGACCTCCCCAAACCCCAAGTACAGAGGATTCTTCCACGGGGTTAGGGAGATTGTGCG
GGAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCTGAAGCAGGGCTCGAACCAGGCCATCCG
CTTCTTCGTATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCCATGAACCCTCTGATCAC
TGGGGTCTTCGGAGCTATTGCAGGCGCAGCCAGTGTCTTTGGAAACACTCCTCTGGATGTGATTAAGACCCGGAT
GCAGGGCCTGGAGGCGCACAAATACCGGAACACGTGGGACTGCGGCTTGAGATCCTGAAGAAGGAGGGGCTCAA
GGCGTGAGTGGGGGAGGGGAGGGGCTATTGTCCCCACCTCAAACCTTTCCCGGCCTACCTGGCCTGCCCCACTCTG
TCCCCTTCAGGCCTCTGTGCCTCTCACTTCAGTATCTGGGGATTGCCCTGTGCAGGGACACTGTGCTGACCTGCC
TTCCTCTCCCCGCCCCCTCCTCCACCCAGATTCTACAAGGGCACTGTCCCCCGCCTGGGCGGGTCTGCCTGGAT
GTGGCCATAGTGTTTGTCTATCTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGGAAGACGGACTAAGCCTAG
AGAGGCCGCAAGGGGACCGCCCCAGGCACCGCCAGAGTGTCTGCTACCTTTGTCTCACGATTCCAGTGCAGTAG
TGCCAAAAGGCCCTTCCACGTCCCTCGAGCTCTGTAGCCTGGTCTGTGCAATTGTGGCTGTCAAATCCATGTGT
CCCCCTGTGGTCTGTGTGTGACACCACCACTGTGTCCAGTGTCTGGCCCAGCCATGGCTGGATGTGCATCTGG
CCTATGACCCTGTGCCTGTGTTTCATGTTCTGTGTACGTGACCCTGTGCCCCGCCTCCCGGGGTGCCCGTGTGG
CCTGGGTCTTCGGCCCTGTAGCCCTGGCCCGGTCCAGTCCGGTGCCTTCCACCCTGCCCTGGCCTACCACAGCT
GCCTCCGGGCCTCGGCCTGGCTTCACCGCATTCAGGGGCTGCAGCCCCCTGCTTCTCCCGCCATTGGCCTTAAC
TGGCCCTCGGGCCCTCTCTCCGCCCCGACAGGGTGGCACCCACCACTCTCAGGACCACCCTGCCAAGGCAGAAT
AAACCGGATCCTGTTGC

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FIGURE 5947

AGTAAGCCGGGCTGCCGTCTTCTCGCC**ATG**GGCTCCGGGCCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTG
GCCCCGCCGAGCCGCCCGGCCGCGAGGTTGCCCGGCCCTGTAGCTGCGCGGGGACGCTCGTGGAAGTGCAGGGCGC
CGCGGGCTGACTTGGGCCTCGCTGCCGACCGCCTTCCCTGTGACACAACCGAGCTGGTGCTGACCGGCAACAAC
CTGACGGCGCTGCCGCCGGGGCTGCTGGACGCGCTGCCCCGCGCTGCGCACCGCACACCTGGGCGCCAACCCCTGG
CGCTGCGACTGCCGCCTTGTGCCGCTGCGCGCCTGGCTGGCCGGCCGCCCGAGCGTGCGCCCTACCGCGACCTG
CGTTGCGTGCGCCCCCAGCGCTGCGCGGCCGCTGCTGCCCTATCTGGCCGAGGACGAGCTGCGCGCCGCTTGC
GCTCCCGGCCCGCTCTGCTGGGGGGCGCTGGCGGCGCAGCTTGCGCTGCTGGGCCTTGGGCTGCTGCACGCGTTG
CTGCTGGTGCTGCTGCTGTGCCGCTGCGGAGGCTGCGGGCCCGGGCCCGCGCTCGCGCCGAGCCCCGGCTGTCG
CTGACCGACCCGCTGGTGGCCGAGCGAGCCGGAACCGACGAGTCC**TGA**GGAGAGAACCGGTGCGTCCTGAGGAGA
GAACCGGCGCTGGGCAACACGGGCCTGCAAACTCGACAGGACCCTGCCCGAGGGGCCCTCGCGCCAACCTGGACC
GGTCCCCGCCTCCTCCGCTGCCCAATCTCTCAGACCCACCCACCTGCAGGCCAGACCACGTGGGACAGAACTC
CTGCCCACCCTACCCCGAGGGAGGCGAACCCGCACTTCCAGGCTTGGGAGGACCATGGGGACAATGCGGTCCAG
ACCCTGCTGCGTCTCCCTTCCAACTCTGGTGCTGAATAAACCTTCTGATCTGG

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FIGURE 5948

MSGGPRGALSLLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRGLTWASLPTAFPVDTTTELVLTGNNLTALPPGLL
DALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVAPPALRGRLLPYLAEDDELRAACAPGPLCWGA
LAAQLALLGLGLLHALLLVLLLCRLRRLRARARARAAARLSLTDPLVAERAGTDES

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FIGURE 5949

CCCAAGATGCCAAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCTGGCCCCTGCTGTCATGAAGAAGCAGGAG
GCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATCGGACAGGACATCCAGCCCCAAA
AGAGACCTCACCCACTTTGTGAAATGGCCCCGCTATATCAGGCTGCTGGCAAACGGGACGTCCCCACCAAGAGAC
CACCTGTCTCTTCGAGCAGGAGTTAACATCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTG
CAGACGACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCCTGCCTTGTGTCTGTAATAATGGGGGTCCCTTACTGCA
TTATCAAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTACCTTCACATAGGTGA
ACTCGGAAGACAAAGGCACCTTTGGCTAAGCTGATGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGA
TCCGCCGTCCTGTTGGGCGCAACATCCTGGGTCTTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGG
CTAAAGAACTTGCCACTAACTGGGTAAATGTACACTGTTGAGTTTCTGTACATTAAATAATTAAATAATA
CAAATTTTCCTTC

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FIGURE 5950

CTGCCGTGTGTCTGAGGGCCAGTCATGCAGCATCCACCTAGGCAGGCTTGAGAGTCCTTGGGAGAGTCCAGGTGA
CCTGGTTTTTAATTAAAACGCGTCCTGTTTATTGTGGTTGGGCTCTGCCCAGAAAGGAAGGTAGGGCCTTGAAGT
GGTGATGTCCAGGTTTCCTGCACAGGTAGGGTGGAGGCAACGATGGACTCTGGCATGGCCTTCCAGACAGGCAGT
GCACACAGCTCCTTTCAGAGTGGCTTTGTTGCCAGCTGCTGCAGCACCTGCTTTCAGACAGATGATGACCAAGCT
GCTTTCCTGCTGGGGGAAGGAGGCATTCCCCCTGGGTGTGTTTTCTCTTCTGGCCCCACACACTGGCAGACCCG
AAGGCAGGGTGCTCAGGAGCTGCAGAGCCTGGCAGGGTTTGCTGGACATGCTCAGGGACGGGCCATGGTGCTGGC
TCTGCTTTCATCATGGTGTGAGTCCTTCACTTCCCTTGGAATATCCAGAGATTTTATTTCCTGAAGATAGGA
CATGATGGGTGCTGTGAGATGGTATTTAAAGTACCTGTCTGCAAGGAAAACCTTTAAAATAGGAAGTACTAAGGAT
AAGGTCCTATGGGATATTGGAATATTTTATAAAGCCACAATAGTTAAAGCACTTAGATGTGGACAGATGAGCAGA
GAATAGAGGACTTTGAAACGGGCCAAATAAATATGGAATTTAGTACAGGCTAGAGGTGTTTCCAATTAACGAGT
AAAATGGATTATTCACTAAAAGCAGTTGGCCCTCTGGAATATAGTAAAGCCATGTATGTGCCTCACTCTTTATGC
CAGTACATATTCCAGATTAAAGATTTCAATGTTACAATTATGAAAGTACTAGAGGAAAATATGGGTGAATTTTTT
TTTTTTTTTTTTTTTTGCGCTATGATTCCAGGATTTTAAAAGTTTTAGATGCCAGAGTTGTGGAGGTATGGAGAAG
TGGACCTTCTCATACTGTTGGTGGGAATACACAATAATATAATTTGACCACGTAACAATTCTAGGCACATGCATG
CTGTGACTACTTGCTAGGTGCATGAAGGCTCTTGCCAGGGGTGGTCATGGTTCGGTACCACTACATGGGGGTTTTA
GAGCAGGGACTGGAGGTTGGCCTTGCCCTCCTCCCTCCCGCATGAGCTGAGGGTCCTTACCTGACCTTTTTTGAG
CTGTGACCAGAGTTTTTCTCATGGGGTGGTTAGAAGGGTTGAATGAGAATGATGCCCATGCAGTGCCTTGGCTG
GGGTCTGGGGCCTCTAACACCCACCTCATGGGTGTCACTGTTTTTTGAACAGCAGAAGTGGAAAAGCCCAAAGAT
CCAGCAATAAAGGAGCAAGGCAAATAAAGCTGTTACCCTGCAGGATCAGTCAGCATGAGCCAGATTGTGCTGCAG
TAACAAAGATCTCCAACAGCGCAGCGGCTACAGTTGGCACTGCTTATTTCTTGCTTGACCTGTGGGCCACCGTG
GCTGGGGCCTGTGAGACCTGTGCTGACGACAGCCTACCTGGACATATTTCTCCATGCTCACTGAGGCAGGGGAAA
GGCCACAGCAGGCCACAAGTAATGTGTGTCAACCCACTTCCATTTCTGTGGCCAAAGGAAGCCACAGAGCCACAC
CTGAGTTCCATAGGACGGCAGCAGCTGATCATCCTATGGGCTGGGGTGCTCAGTATGGAGAAGTACAAGCAGCCA
CCCAGCGTGGGGCTGGTTGGTGCTGCTGAGGATGGGAGGATGGGAGGGCCTGCATCCATCCCAGGGCAACATAC
CTGTTTGTCTGCTGGGGCTGCCTGACAAAGGACCGCAGGCTAGGGGACTTAAACAACAGACATTTCTCATGATT
CTGGAGCTAGAAGCCTGAGATCAAGGTGTGGGCAGGGTTGGTTTTCTCCTGAGGCCTCGCTCCTTGGCCTGCAGAT
AGCCATCTTCTTGCCGTGTCCCTGTCTGTGTCTGTGCTTAATCTCTCATAAGCTCACTAGTCTATTGGATCAGG
GCCACCCCTCATGACCTCATTTAACCCCTGAATTACCTCTTTAAAGACCCTGTCTTCAAATGTAAAGTACTAGGGGT
TAGGACTTGAACATAAAAAATATTGAAGGGACATAGTTCTGCCCACAGCGGTGCCCGCATAGGCTTCTCTGGTTT
TGTCTTTGCTGTTTCTGGCAGCGCTATATTGGGCAGGCTTCTGTGGTCTCCACATGCCTGTGTGCAGAGTCCCCC
AGGCCCTGGGTTCTGGGGCCATACTGAGGAGTGGGGATGGCCAAGCCTTGGCTGTTGAGTAGGCAGTGCCAGT
TGTGCTGTATGGGATGCTGTTTCTCACTTAAGAAATCTTCCCTACCTGGGGGTACAAAGGCATTATCCTGTAT
TCCCAGGTTGTAACCTTCTGCCTTTGACATTCAACCTTGAGTCCACCTGTAAGTGTAAGTGCAGGAGGAGG
GGTCTGCTGTATCCTTGATAGCCTGTGATGAGCAGAGCCCTCTGCCGACCGCGATGCACATGTAATATGAGCA
AGAAATAAATTTTTGATGTGCGAAGCCACTG

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FIGURE 5951

GGCACGAGGCTCCCCTGTGCTCCCAGCATGCCTCGTGGCCGGTGCCGTGAGCAGGGCCCTCGCATTCCTCATCTGG
GCAGCCGCCAATTATGCCAACGCACATCCATGGCAGCAGATGGACAAGGCGTCTCCTGGGGTGGCATAACACCCCC
CTTGTGGATCCCCTGGATTGAGCGGCCCTGCTGTGGGGACACCGTGTGTGTGCGAACGACC**ATG**GAGCAGAAGAGC
ACAGCTAGTGGCACTTGTGGCGGTAAACCTGCAGAAAGGGGTCCCCTAGCTGGGCACATGCCCAGCTCCCGACCC
CACAGGGTGGACTTCTGCTGGGTACCAGGCTCAGACCCAGGCACCTTTGATGGCTCCCCGTGGCTACTGGACCGC
TTCTTGGCCCAGCTGGGCGATTACATGTCTTCCACTTTGAGCACTATCAGGACAACATCAGCCGTGTCTGCGAG
ATCCTCAGGCGCCTAACAGGCCGAGCCCAGGCCTGGGCAGCCCCCTACCTTGATGGGGACCTGCCCTGCCTGAC
GATTACGAGCTCTTCTGCCAGGATCTCAAGGAAGTTGTTCAAGACCCGAACAGTTTTGCTGAGTACCATGCTGTG
GTTACCTGTCCCCTGCCCTGGCCCTCCAGCCAGCTGCCAGTGGCCCCCTCAGCTGCCTGTGGTGAGGCAATACTTA
GCTAGGTTCTTAGAGGGCCTGGCACTCGACATGGGTACTGCCCCAGGTCTTTACCAGCCGCCATGGCCACCCCT
GCTGTGTCTGGGTCCAACCTCTGTATCTAGAAGTGCTCTGTTCGAGCAGCAGCTGACCAAGGAGAGCACCCCTGGG
CCCAAGGAGCCCCCAGTCTGCCCAGTTCTACATGTAGCTCCAAGCCTGGTCTGTGGAACCAGCCTCTTCCAG
CCAGAGGAGGCAGCCCCCACACCTGTCCCTAGACTGTGCGAGTCAGCTAATCCTCCTGCCCAGAGACCAGACCCA
GCTCATCCAGGAGGTCCAAAACCCAGAAAACAGAGGAGGAGGTTTTGGAGACAGAGGGAGACCAGGAGGTGTCC
TTAGGTACCCACAGGAGGTGGTGGAGGCCCGGAGACCCAGGAGAGCCACCACTTTCTCCTGGGTTCT**TGA**ACA
CAGCCCAGGTGGGAACAATGCTGCCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCCCCAGTC
AGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCTGCGCTG
AGCAGAACCAGCTCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCTCTCTGC
TGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCCAGGCCTGCTCCACGAGGGGGTCGTTTTGTAGATCAA
CTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCCATAAAACACCCCCCTTGGTGTCTTCCCACTGG
CTGGGACTGAACTGGGTCTGCCACGTCTGCCCTGTGGGACCTCGTTCCTGTATGGGGTTTTCTGTGTCTGTCCCC
CTAGCCCCACCCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATGTGAGGAAGGCTGCCTGGAGGAAGTGGC
CACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGATGTTTCTGTGGGATTACCAGCAGTTC
TGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCCTTGCCAGGCTCAGCTGCAGGCATTGCCCC
TTTGTGTGTTAACACTGTAGCTCTAATCGTGCCCTGGTGTTCTGAAGCAGGCTCCTCTTCCCTGCTGCTGTGCTGC
CATCCCCCTGCTCACTCCGCACTCGCATGCATTGCGGATTTCAGCACTTAAGCCCTAGTGTGTAAATGACTTGGATC
TCCCTCCTGGCAGACTGTGACCCTCAGCACAGGGGCTCTGTCTTAGTCAGCTCTGTGGCCTGGTACACAATTGGT
GCTCATTAACACGTGTTGGATTACTGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5952

MEQKSTASGTCGGKPAERGPLAGHMPSSRP HRVDFCWVPGSDPGTFD GSPWLLDRFLAQLGDYMSFHFEHYQDNI
SRVCEILRRLTGRAQAWAAPYLDGDLPLPDDYELFCQDLKEVVQDPNSFAEYHAVVTCPLPLASSQLPVAPQLPV
VRQYLARFLEGLALDMGTAPRSLPAAMATPAVSGSNSVSR SALFEQQLTKESTPGPKPEPPVLPSSC SSKPGPVE
PASSQP EEAAPTVPRLSESANPPAQRDP AHFGGPKPKQTEEEVLETEGDQEVS LGTPQEVVEAPETPGEPPLS
PGF

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FIGURE 5953

TGAACACAGCCCAGGTGGGAACAATGCTGCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCC
CCAGTCAGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCT
GCGCTGAGCAGAACCAGCTCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCT
CTCTGCTGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCCAGGCCTGCTCCACGAGGGGGTTCGTTTTGTA
GATCAACTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCCATCGTCTGCCCTGTTGGGACCTCGTTC
CTGTATGGGGTTTTCTGTGTCTGTCCCCCTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATG
TGAGGAAGGCTGCCTGGAGGAAGTGGCCACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGA
TGTTTCCTGTGGGATTACCAGCAGTTCTGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCTT
GCCAGGCTCAGCTGCAGGCATTTCGCCCTTTG

[illegible]

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FIGURE 5955

MAAMAVLRGLGGRFRWRTQAVAGGVRGAARGAAAGQRDYDLLVVGGSGLACAKEAAQLGRKVAVVDYVEPSP
QGTRWGLGGTCVNVGCIPKKLMHQAALLGGLIQDAPNYGWEVAQPVPDWRKMAEAVQNHVKSINWGHVQLQDR
KVKYFNIKASFVDEHTVCGVAKGGKEILLSADHII IATGGRPRYPHTHIEGALEYGITSDDIFWLKESPGKTLVVG
ASYVALECAAGFLTIGIGLDTTIMMRSIPLRGFDQQMSSMVEIHMASHGTRFLRGCAPSRVRRLPDQQLQVTWEDST
TGKEDTGTFTDVLWAIGRVPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPIAIMAG
RLLVQRLFGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHVEVYHAHYKPLEFTVAGRDASQCYVKM
VCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYAQMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGCRV

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FIGURE 5956

CACCGCCATTGCCGCCATCGTCGTGGGGCTTCTGGGGCAGCTAGGGCTGCCCGCCGCGCTGCCTGCGCCGGACCG
GGGCGGGTCCAGTCCCGGGCGGGCCGTGCGGGGAGAGAAATAACATCTGCTTTGCTGCCGAGCCAGAGGAGACCC
CAGACCCCTCCCGCAGCCAGAGGGCTGGAGCCTGCTCAGAGGTGCTTTGAAG**ATG**CCGGAGGCCCCGCCCTCTGCT
GTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGCTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGGCCT
GTGCCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCAGCG
CATCCTGAACCACGTGCTGCAGCATGCGGAGCCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTACTG
CGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGAACGCCGTGATTGAGGAGCACCA
GCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCCGCCTGCTGTCACCAGG
GGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCCAGCGGATGGTGGATTTGCTGGCGT
GAAGGACAAGGTCACCCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGTGGA
CACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTTGAGGAATGTGG
CCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCAGGTGCGCCAGACTTCCTAGCACACGT
GCGCGGGAGCAGCTGCTTTGAGTGCACACACTACCAATCGTTCCTGGAATACAGGGAGGTGGTGGACGGCCTGGA
GAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCC**TGAC**TGCCCCCCCCGGCCCCCTCTCGGGCTCTCTC
ACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATGCAA
AGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTTTAA
GACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAATAT
AAAATAGAAATTAA

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FIGURE 5957

MPEAPPLLLLAAVLLGLVLLVLLLLLRHWGWGLCLIGWNEFILQPIHNLLMGDTKEQRILNHVLQHAEPGNAQSV
LEAIDTYCEQKEWAMNVGDKKGKIVDAVIOEHQPSVLLELGAYCGYSAVRMARLLSPGARLITIEINPDCAAITQ
RMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPG
APDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGEAGP

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FIGURE 5958

GCTGTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGG
CCTGTGCCTTATCGGCTGGAACGAGTTTCATCCTGCAGCCCATCCACAACCTGCTC**ATG**GGTGACACCAAGGAGCA
GCGCATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTA
CTGCGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTTCAGGAGCA
CCAGCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACC
AGGGGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCCAGCGGATGGTGGATTTCGCTGG
CGTGAAGGACAAGGTACCCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGT
GGACACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTTGGAGGAATG
TGGCCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCAGGTGCGCCAGACTTCCTAGCACA
CGTGCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTCTGGAATACAGGGAGGTGGTGGACGGCCT
GGAGAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCC**TGACT**GCCCCCCCCGGCCCCCTCTCGGGCTCT
CTCACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATG
CAAAGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTT
TAAGACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAA
TATAAAATAGAAATTAA

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FIGURE 5959

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLELGAYCGYSVR
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPD
TLLLEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGEAGP

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FIGURE 5960A

GGCGGTCGGTCGGTGAGGCTTTCCCGGCTGTGGTTTGGCTGCGGGCGGCTTGGGCAGCCCGCGGGCGCCTCAGGT
AGAAGAAGAAAGGTGCCACTCCGGCATGAAGACAGACTCGCTTAGTCGCCAGTCACTTAAGCTGAGTGCAATTGTG
ATTTCCAATAATTGAGGCAGTGGTTCTAAAAGCTGTCTACATTAATGAAAAGAGCAATGTGGCCAGCTTGACTAA
GCCGCCAGCGCACAGCGCGGCAGGACGCGCCCCGGGTCTCAGCGGACTTGTGCATGTTAGCTGTGTAGATTTATGT
GAGGGCTTGTA AAACTCTGGTCTTGTA AAACTAGTCTTAAGCGCTTTTAATATGGAGACAGATGAGAGCCCCCTCTC
CGTCCCCGTGTGGGCCCCGAGGAGAAGCGGTGATGGAGAGCCGAGCTCGCCCCCTTCCAAGCGCTGCCCCGTGAGC
AGTCTCCACCACCTCCCCCTGCAAACGTCCAGTGGTGACAGAGTAATGGACGTTGGCTCTGGTGGTGATGGACAGT
CCGA ACTCCCTGCTGAGGACCCCTTCAACTTCTACGGAGCTTCTCTTCTCTCCAAAGGATCCTTCTCTAAGGGCC
GCCCTCTCATAGACCCGA ACTGTAGTGGCCACAGCCCGCGCACCCGCCCGGCACGCACCTGCGGTCCGGAAGTTCT
CCCCTGACCTTAAGTTGCTTAAGGATGTAAAGATTAGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGA
AGGTGCTGTACACAGGAGCAGAGCGCGACGTGCGGGCGGAGTGCGGTCTGCTCCTTAGCCCTGTCAGTGGGGACG
TGCATGCTTGTCCCTTTGGCGGGAGTGTTGGTGACGGGGTAGGCATAGGGGGTGAGAGTGCTGATAAGAAGGATG
AGGAGAATGAGCTGGATCAGGAAAAGAGAGTGGAGTATGCAGTGCTCGATGAGTTAGAAGATTTTACTGACAATT
TGGAGCTAGATGAAGAAGGAGCAGGCGGGTTACGGCTAAAGCAATCGTTCAGAGAGACAGAGTGGATGAAGAGG
CCTTGAATTTCCCTACGAGGATGACTTTGACAACGATGTGGATGCTCTGCTGGAAGAAGGCCCTTTGTGCCCCCA
AAAAGAGGCGAACAGAGGAAAAATATGGCGGAGACAGCGACCATCCGTCCGATGGAGAGACAAGTGTGCAGCCGA
TGATGACCAAGATTA AAACAGTGCTCAAAAGTACGTGGCCGCCACCTACAGAGCCGCTGCCCCAGGGGTGGATC
ATGACATTCCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGTCACCTGGTCCAGGCCATAC
TTCTTGGAACGGGAAGCATAACGAAACACGACCCTCCTCTGAGTAGCATCCCTTGTCTGCATTATAAGAAAATG
AAGGACAACGAGGAACGGGAGCAAAGCAGTGACCTCACCCCTAGTGGGGATGTGTCCCCCGTCAAGCCCCCTGAGC
CGATCTGCAGAGCTGGAGTTTCCCTGGATGAGCCTGACTCTATGGGTGCTGACCCGGGGCCCCCGGACGAGAAA
GACCCACTAGGGGCTGAGGCAGCCCCCTGGGGCCCCGGGGCAGGTGAAGGCCAAAGTCGAGGTGTGCAAAGATGAA
TCCGTTGATCTCGAGGAATTTGAAAGCTACCTGGAGAAGCGTTTTTGACTTTGAGCAAGTTACTGTGAAAAAATTC
AGGACTTGGGCTGAGCGGCGGCAATTCAATCGGGAAATGAAGCGGAAGCAGGCGGAGTCCGAGAGGCCCATCTTG
CCAGCCAATCAGAAGCTCATTACTTTATCAGTGCAAGATGCACCCACAAAGAAAGAGTTTGTATTAAACCCCAAC
GGGAAATCCGAGGTCTGCATCCTGCACGAGTACATGCAGCGTGTCTCAAGGTCCGCCCTGTCTATAATTTCTTT
GAATGTGAGAACCCAAGTGAGCCTTTTTGGTGCCCTCGGTGACCATTGATGGTGTGACTTACGGATCTGGA ACTGCA
AGCAGCAAAAAACTTGCGAAGAATAAAAGCTGCCCCGAGCTACACTGGAAATCCTCATCCCTGACTTTGT TAAACAG
ACCTCTGAAGAGAAGCCCAAAGACAGTGAAGAACTCGAGTATTTTAACCACATCAGCATCGAGGACTCGCGGGTC
TACGAGCTGACCAGCAAGGCTGGGCTGTTGTCTCCATATCAGATCCTCCACGAGTGCCTTAAAAGAAACCATGGG
ATGGGTGACACGTCTATCAAGTTTGAAGTGGTTCCTGGGAAAAACCAGAAGAGTGAATACGTCATGGCGTGTGGC
AAGCACACAGTGC GCGGGTGGTGTAAAGACAAGAGAGTTGGAAAGCAGTTAGCCTCACAGAAGATCCTTCAGCTG
CTGCACCCACATGTCAAGAACTGGGGTCTTTACTGCGCATGTATGGCCGTGAGAGCAGCAAGATGGTCAAGCAG
GAGACATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGAAGAACAAAGCCCAACCTGCACATCCTCAGC
AAGCTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGAGGAGACTCGAAAGAAGCCCAAGATGTCCATTGTG
GCGTCCGCCCAGCCTGGCGGTGAGCCCCCTGTGCACCGTGGACGTGTGAGGGAGGTGGCACGGGCCAGGGCGCGGG
GGCCGCCAGCCGCACTTCTGAGGAGACCAGCAGTCATGCATCGTGACCACAGTGTGAGGCCTCCAACCCACGCT
CCTTCCCTGTGGCCAACCTGTGGGCCCCGGCCTTAGGGTGGAGGCTTTAGTGTACAGGGACAGCCATGGCCACACA
GCACACATGTGGAGCAGCGGCTCTCCCTGGAAAGCTCCAGGCCTGAATGGATGGACTCAGCGACTGCACCAGTGG
CAGCTGGTGACTGTGGACAGTGGTGGACCCTGCTTCTGTGCACCTGCTGCAGGCTCTTTTATGAAGGCTTTCAT
GAATTTTAGTATGTAATACGCACTGACGACACATGATGCTTGGATGACAGATGAGAGGGGATGGCTGAGTCTGT
GGCTGGCCCCGTGATGCCAGGTGGCCCATGTGCCCAGGGCGCCTGCAGGGCTGCTACAGGGACCTGGT CAGGAGGT
GCACATGGTGGCCTGCCCTCACCCACCTCTGTGTTTCCCTTCTTTGAAAAGGTAGAAGAGAAAGGAATATTTT
AAACCTTTTTGGCTTAAACAGAAATTTTAGCATCAGAACTAGCTTTCTGGGATTGGAGGCAAAACCATCAAGGTGGT
CCCTCTCCAGTCTGGACACGATGCCAGCAAGGATGACGTCTCTGCCACCTCCTGGAGTTACCTTGGCCTCCTAGGG
TCCCTTTTTCTGATGAAGTCTTAATTCCCTAAAAGCGCCTCTTTGGACACTGAGGCCCTCTCTGCCTTTCTGGC
CTCCGGCAACAGTTTTTTTTACAAAGATTTTTTGCAGTCTGAGTCCATATGTCCACCCATTGATTTTTTAAAGCTTTTG
TGATATTTTAGCATTTTGAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCATGCATTTTAGCAAGTG

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FIGURE 5960B

GACTTGTTGAAACAGGAAGCAAGGGCCTTCAGTGTAGCCCATTCCTTGATCCAGAGCTGTTGCCTGTGACAGCGGT
TTCTCTGGATGTCAAAGGCAGCTGCCTGGTGCCAGCTTGCTTCTCGACTGGTGGCCCCATATGGGTGGGTGTGCG
ATGGAAATGTGTTCCCTGCCGGAGTCTGAGGCACCAGGGTGTGCTCAAAGGCTGGCCCTGGTGGTGGACTGGCACC
TGTGCAGAGTGCCGTGTGCTTGTGGTGCGCCATCTGAAGCAAGAGTCCAGCGTTCTGCCGTGTCTGTCCCCCACC
ATGCCCCCTACAGGCGGTACTGATGGCGCTTTTTTTTTTTTTTCTGTTCAGGAAAACAATGTTGGCCTGTGGGCCG
CCCACAACATATCCTTCCCTCACTACCTGTGTGACCAAGGTTGGCTTCTGTTGACCTTTAAAAAAGAAACCTCA
ACTCAAATTGCTATAAATTAGACACTTGCTTCTGTCTTGCCCTCCTGTCTGCAGCTGTGAATAGTCATTTGACTGTG
ACTGTTGCCCTTAGCCAGCCAGATGCGCCTGTGAACCAAAGCTTCGTGCACATGTGTTCCCTAAAGGTTGGGGA
GCCTCGCTGTGCTTGTGTTCCCAGGCACCACCACAGCAGGTGCTGCCATACTCTTGTGGTCTCTGTGCGCCCC
CCCCCCCCCCCCACCCGTCTGCCAAGCATGGGTATGAATCGTGCACACAGCCATGCTTCAAGGCCGGGGCAGGGG
AGCCTGTGCTGATGCCATCCAGGGCACTGGGCTGTGCTGGAAGGCGAGCCTTGATTGTCTGAACACATAAAGCA
AACTGTCCAG

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FIGURE 5961

GTTGCCAGAAGCCAGGATCATAGAGACGCTCGGCCCTCCGCCGCACGCGCTGGCGGACTAAGAGTGGCTGGCGAAG
CGAGCGGCCGGCGCGGGCCCCCTGGCGGGCGGGCGGTACAGCCCCAAGCCTGAGACCCGGACCTGAGCATCGCAGG
TTCGAGTCCCGCCCCGCCTGGGGCGAAGCCGGGGGTGGCGGCGACCTCGCGGCGTTGCACCGGCTCTGTGAGCAC
CTCCCCCTCTGAGCACTTCCCTTGTGACAGGCCACTTCCCTTGTGACAGGCCCAGGACGAGGTGGCCAGGCGGCCCC
CCATGGCGTCCCTGGTCTAGGCGGAGAACCGCCTGGGCGATGAGTGAGAACCTCGACAACGAGGGCCCCGAAGCCC
ATGGAGAGCTGTGGCCAGGAGAGCAGCAGTGCCCTGAGCTGCCCTACCGTCTCGGTGCCCCCTGCAGCCCCGGCA
GCCCTGGAGGAGGTGGAGAAAGAGGGCGCTGGGGCGGCTACAGGGCCGGGGCCTCAGCCCCGGGCTCTACAGCTAC
ATCAGGGATGACTTGTTTACCTCTGAGATCTTTAACTGGAGCTGCAGAACGTGCCTCGCCACGCCAGCTTCAGC
GACGTCCGGCGCTTCCCTGGGCCGCTTGGTCTGCAGCCCCACAAAACCAAACTCTTTGGGCAACCACCCCTGCGCC
TTTGTGACATTCCGCAGCGCTGCAGAGAGGGACAAGGCCCTGCGCGTTTTGATGGTGGCCTCTGGAAAGGCCGC
CCACTCAGTGTGCGCTGGCCCCGGCCCAAGGCCGACCCCATGGCCAGGAGGAGCGACAGGAGGGTGAGAGTGAG
CCACCAGTAACACGAGTGGCCGACGTGGTGACCCCTCTATGGACAGTGCCTATGCTGAGCAGCTTGAGCGGAAG
CAGCTGGAGTGCAGACAGGTGCTGCAGAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCTTGCTGCCCTGG
CTGCTCGAGCAGAGGCACAAGCACAACAAGGCCCTGCTGCCCGCTGGAGGGGGTCAGGCCATCACCCAGCAGACT
GAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGGTGAGTGGGGAGGATAACACCGTGGGCTGTGCGCTC
GGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGCACATCCCCGAAGCCACCAAGCAG
GTGGTGAAGGCCTTCCAGGAGTTCATCCGGTCCACTCCATACTCGGCATACGACCCAGAGACGTACACAGGCCAC
TGGAAGCAGCTGACTGTGCGCACCCAGCCGCCGCCACCAGGCCATGGCCATTGCCTACTTCCACCCCCAGAAGCTG
AGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCGCAGCACTTCACAGCAGGGCCAGGCAGGGCCAGTGGA
GTGACCTGCCTCTACTTCGTGGAGGAGGGACAGCGAAAGACTCCTAGCCAGGAGGGCCTGCCCTGGAGCATGTG
GCTGGGGACCGGTGCATCCACGAGGACCTGCTAGGGCTGACCTTCCGGATCTCTCCACACGCCTTCTTCCAGGTG
AACACACCCGCAGCCGAGGTGCTCTACACAGTCATCCAGGACTGGGCCCAATTGGATGCGGGGAGCATGGTGCTG
GACGTGTGCTGTGGCACCGGCACCATTGGCCTGGCCCTGGCCCCGAAGGTAAAGAGGGTCAATTGGGGTCGAGCTA
TGCCAGAGGGCTGTGGAGGACGCCCGGGTGAACGCCACAGGACAATGAGTTGAGTAATGTGGAGTTCCACTGCGGG
AGGGCCGAGGACCTGGTGCCACCCCTGGTGGGCAGACTGGCCTCCAGCACCTCGTGGCCATCCTGGACCCACCC
CGTGCTGGCTTGCAATTCCAAGGTGATCCTGGCCATCCGGAGAGCTAAGAACCCTCAGGCGGCTGCTGTACGTCTCA
TGCAACCCCCGGGCAGCCATGGGCAACTTTGTGGACGCCCCCTTTTCCCCCACAGCCTCTGCAGAGCCCCATC
TAACCGGGTGAAGGGCATTCCTTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTTCCCGCAGACCCCGCACTG
TGAGATGCTCATCTGTTTGAGAGGGTGGAGACCCCCAATGGCACAGGGGTCTTGGGGCCCCACAGCCCTCCAGC
TCAACCCACACCAGGACCCCCAGATAACACCCTACAAGAACTGGGACCTTCCCCTCATCCTAGGCCCAGGACCC
ATTATGGGGACAGGAGCTGAAGGGCTCCCAGGGCCCCAGGGCGGGGAAGGCATGGCTTGCTGGCCAGGATATTC
AGAGGTAGGCAGCCAAAGGGCACAGAACCCTGTGCCCCACCAGGATTGGCCTGCTGCTAGGGGCCAGGGGCCCTG
ACCAGGAAGACAGGTGGGTTCCTGTAGCCTGTTGCCCATCCCCAGGGCCTTTGTGGACTAGCCAAGGCTGTGAGG
GCCAGAATAAACTGCTCAAC

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FIGURE 5962

MSENLDNEGPKPMESCGQESSALSCTVSVPPAAPAALEEVEKEGAGAATGPGPQPGLYSYIRDDLTSEIFKL
ELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRSAAERDKALRVLHGALWKGRPLSVRLARPKADP
MARRRRQEGESEPPVTRVADVVTPLWTVPYAEQLERKQLECEQVLQKLAKEIGSTNRALLPWLLQQRHKHNKACC
PLEGVRESPQQTEYRNKCEFLVGVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVHIPEATKQVVKAQEFIRSTP
YSAYDPETYTGHWKQLTVRTSRRHQAMAIAYFHFQKLSPEELAELKTSLAQHFTAGPGRASGVTCLYFVEEGQRK
TPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAAEVLYTVIQDWAQLDAGSMVLDVCCGTGTIGLAL
ARKVKRVIGVELCPEAVEDARVNAQDNELSNVEFHCGRAEDLVPTLVGRLASQHLVAILDPPRAGLHSHKVLAIR
RAKNLRRLLYVSCNPRAAMGNFVDAPLFPPQPLQSPI

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FIGURE 5963

CAGTGGCTCACACAGGTCACCTGCACGCCAGGGCCTGCCCTCCCCGCCCGGCACTCCCCACTCACCAGGGCCCTC
TGCCAGCCCTACACGGCACACGCTGGTTAAGAAGGTGTCCGGCGTGGGTGGGACCACCTACGAGATCTCGGTGTG
AGGACTGACTGCCACACATCCGCCATGGTGCCACGGGGACCAGGACCCACAGCGCACCCCCCTCCCCACCAAC
TTCTCTGCCCCAGGGACCCGAGGCCACCCCAGCCTGGTGTGGACCCATCGGCGGGAGAGAGTGCCACGCCTCCAC
AGCTTGCCCCAAGCGCTCTGCCTGCCCCGTCCACTCATCTGCCCATGGGGAAGTCGGCTCACTGGGACAAGGGCCA
CTGGGCTGGTCTGTGTCTGGGCCTGTCCCATGGCTGGGGCAGTGAGGGGGCCCAGTCAGCCTCTTTGGGGCACCC
TCTCTCAGCCAGGCTTGGCCCACTGCCATCAGCCAGCACCCAGATCACCGCCAGGCCAGCCCCAATGGTCCCC
TTACGGACAGGTCCAGAGATGGACAGAGGCACCCAGGGCCCCCACCCTCCTTCTGACACAGCCTGTGGGCTCCC
GGACCGAGTGTCCCCGCCAGGCTACTCCTAACTAACGCGTTGCCTTTACGGACCCCGCTGGAAGCTTGTAGCT
TGGCAAGGCTGATGCTTCTGCCCTGGCCTGCTCTGGGTGGTGGTGGA

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FIGURE 5964

TCTTCTCGAGGCCTCCGTTGCCTCGTCTGTGCCCCGGGCGGTGGTGCTTACCCGGCGGGGTCGCAGGGAGGTCTCG
TGGCGGCGCGTGTGGGTCTGCGTTTCCCCCTCTGGGGTGCTTGGGCAGCATGAGCCCAGGGCTGTGGACAGCCTG
GTGCTCACGGGTTTGTGGCTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAACTGC
CAGCGGCTGGACCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACACTTT
GAGGAGGACTGACCGAGGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGG
TGCCATAATAAAGCGGATTCTAGACGGAG

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FIGURE 5965

CGTGAGTGCCGCTGACAGAAGTCAAGAGAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGGACCCG
ACAGGCCAGAGCCCCTTGGGGAGGAGCGGCGGCTGGAGGCGCGAGGCTCCTCCGGATGCCCGGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCAGATGCGCGCTCACTGCTCCGCCGCCGGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGGACAACCAAGACCAAGGACACAGTTACCCACCTGGCCCCCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCCACAACCTCCATTTTCTCCACCTCCACC
TGCTGATGTCACCTGCTTTTCTGTGGAAGAGGCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCTTTTCAGACCTACTGGGCCCTTGGGTGCCCAGGCAGATGAAGCAGGCTGCAG
CGCCCAGCCTTACCAGAGCGGCAGCCCTCCCCTCTCGAACCACGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACC CGCGGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCCAGCGCCAGCTGCAGGCCTGCAAGCGGCGGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCACGGGAGAAGCGGGCACAGGCAGATGCCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGCTGCTGGACTGACCGA
GGGCTGCCCAGCAAGACTGCAGCCTCTTCTCCCTCAGATCCCACCAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5966

MPRHCSAAGCCTRDTRNTRNGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEYIYFCSKHFEEDCFEL
VGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPPEVSRLRRCRKRCSEGRGPTTPFSPPPPADVTCFPV
EEASAPATLPASPAGRLEPGLSSPFSDLLGPLGAQADEAGCSAQPSPERQPSPLEPRPVSPSAYMLRLPPPAGAY
IQNEHSYQVGSALLWKRRAEAAALDALKQAQRQLQACKRREQRLRLRLTKLQQERAREKRAQADARQTLKEHVQDF
AMQLSSMA

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FIGURE 5967

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCAGAGGGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCCTTTTATAATTATTCAGTGCTTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAAGTGACAGACAAATTCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTTAATATGGTTTTTCACTGCTAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCAATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTTCAAGTTTTTGAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAACAAAAAA

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FIGURE 5968

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCCGGCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAAATGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTTCCA
CATTTGAAAACAACCTCCTTTTATAATTATCACTGCTTTTTGTGAGTGAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGAAAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTTAATATGGTTTTTCACTGCTAAAT
TGGAGTCAGATACTTCTTGGTTTTTAAGCTGTCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTTCAAGTTTTTGAAGTAGATTTTGTAAATGTTTGTGATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACCTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTCAATACTGTTACATCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA

CAAGGACGTCCTTAGCCGCCAGCAGCATCTATTTCCTAGTCCCTGGTCTCTGCACGACAACCTCATCAACCTGGACAC
AGACATGGTCAGCTCCACAGTGTTCCAGCAGATCTTGGACTTCATCTACACAGGCAAGCTGCTGCCCAGCGACCA
GCCAGCCGAGCCCAACTTCAGCACCCCTCCTCACTGCCGCCAGCTACCTCCAGCTGCCCGAGTTGGCAGCCCTCTG
CCGCCGCAAACCTCAAGCGAGCCGGCAAGCCCTTTGGCTCTGGGAGGGCGGGGTCCACTGGCATGGGGCGCCCCC
CCGCAGCCAGCGGCTGTCCACGGCCTCTGTTCATCCAAGCTCGGTATCAGGGGCTCGTGGATGGGCGCAAGGGGGC
CCACGCCCCCAGGAGCTCCCCAAGCCAAAGGCTCAGACGATGAACTCTTTCTTGGTGGCTCTAACCAGGATAG
CGTGCAAGGTCTGGGCGGGGCTGTCTGCCAGCTGGCGGGGAGCGGGTCTGGGGGGCTGCAGCAGCAGCACCAA
CGGGAGCAGCGGGGGCTGCGAGCAGGAGCTGGGCTTGGACCTGTCCAAGAAAAGCCACCCTTGCCCCCTGCCAC
CCCAGGTCCCCACCTCACTCCCGATGACGCAGCCAGCTGAGCGACAGCCAACATGGCTCGCCCCCTGCGGCCCTC
TGCTCCTCCCGTTGCCAACAGTGCTCTTATTCTGAGCTGGGGGGCACCCCTGATGAGCCCATGGATCTGGAGGG
GGCCGAGGACAACCACCTGAGCCTGCTGGAGGCGCCTGGTGGGCAGCCTCGGAAGAGCCTCCGGCACTCCACTCG
GAAGAAGGAGTGGGGCAAGAAGGAGCCTGTGGCTGGCTCCCCCTTTGAGCGGAGAGAAGCAGGGCCCCAAGGTCC
CTGCCCCGGGAGAGGAGGGTGGAGGGGTCGGGGACAGGGTTCCCAATGGCATCCTGGCTAGTGGGGCTGGCCCTAG
CGGGCCCTATGGGGAGCCCCCTACCCCTGCAAGGAGGAGGAGGAGAACGGCAAGGATGCAAGTGAAGACAGTGC
GCAGAGCGGGAGCGAGGGGGGCAGCGGCCATGCCAGCGCCCACTACATGTACCGGCAGGAGGGCTACGAGACGGT
GTCCTACGGGGACAACCTTGTATGTGTGCATTCCCTGCGCCAAGGGCTTCCCCAGCTCTGAGCAGCTCAATGCGCA
CGTGGAGACTCACACGGAGGAAGAGCTGTTTCATCAAGGAAGAGGGGGCTACGAGACAGGCAGTGGGGGTGCCGA
GGAGGAGGCCGAGGACCTGTCAGCACCCAGTGGCGCTACACGGCTGAGCCCCGGCCCTTCAAGTGTTCGGTCTG
CGAGAAGACCTACAAGGACCCAGCGCAGCTGCGGCAGCACGAGAAGACGCACTGGCTGACACGGCCCTTCCCTG
CAACATCTGTGGCAAAATGTTACGCAGCGCGGCACCATGACGCGTCACATGCGGAGCCACCTGGGCCTGAAGCC
CTTCGCCTGCGATGAGTGTGGCATGCGCTTACCCGTCAGTACCGCCTCACGGAGCACATGCGTGTGCACTCGGG
CGAGAAACCTTACGAGTGCCAGCTGTGCGGGGGCAAGTTCACCCAGCAGCGCAACCTCATCAGCCACCTGCGCAT
GCACACCTCCCCCTCCTAGAAGCCAAAGACCCGCGGGCGCCCTCTGCCACCTTGCTCCCCGGGAACCCATGGAAG
GAGAAGCGAGGTGATGCAGCAGCAGGGGCAAGACCCTGGGTCCAGTGGAGGCTCCGGGTGGCCCCCTCTGGCCCCC
CATGCCCAACACCCAGAGCTTTAATGGACAGTCCGTACCAAGCAGAGCCGAGAGGAGGGAAGCCAGGGGTCCCAGC
CCGTCTACCTCCCCATCCCACCCAGGCCCCAGCTCCCCGCGGGGGCCACCGCAGGGCCTGTGGGTGGGTACG
TGGGTCTCGCTGGGACCTGGTCCCTTTGTTGAGGCGGCTTGGAGAAAGGGCAGTGGGACGCTGGCCACGGCCAG
GGTGCTGTGCGGAGCAGGCCTCACCCCGCTGGCCGTGTCTGTGTGTGTGCACGTGTGCTTGTGTCTGTGCGGGCG
CGTGCAGCCCTGGTTCTGCAGGGAACAGGTGCTGGGGGTGCAGATCCCTCCCTCCTTGAGCCAGGGTGGCACTGT
TCACTGGCGCTGGGACAGTCAAGGTGACCCCCACCGCCTACCTCTCTACATCTAAAGAGCCCTCTGGGCCTGTGTT
GCTGTTATTCTACTGATCTGTTCCCTCTGTTTTTCTTTTTGATTTTTGTTTTTAAACCAAACAGACAATAGCT
TATTTTCTTTCCGCCCCCTCCGGGGCTGAGCCTGGGTCTGAAGACTGAATGTAACAGGGGGCGCTGGCACTCCTG
CGCGTCCCCCGGCTCTGGCGCTGCAGGGGTGTGCGCGCGCCACCTCTCCAGGCCCCAGAAGCCCTTCTTGCCAA
AGGCTTCCCTGGTCCCTGAGCCCTGCCTCGGCTGCCTCAGGGGAGAGTGCTTTTCTGTAGTTTCCAAGGAATAT
TCTTTGTTTAGAGGTACTTGTTTTTTATTAAGAGAAAAACCAAGTGTAAAGCTTTATGTGACTGTTTGAAGTGAAG
GTCTGGGGTTCCGGGGGGTGGGGGGAGGCTAGACTCAATGCCGGGGCCGTGGGTACTCTTGTTTTTCAATTTGTGTG
TGCGTGCCTGTGTGTGTGTGTATGTGCGTATGTGTGTGTCTATGTGTGGTGTGTGCCGTATGCATGGGCAGATGT
TTCGCTTTCCCTCCTTCCCTCGCTGAACAAGGTGGAGACTTCTGACCTTTTGCTACCTCTTGAATTCATGACAACG
ATATGTTGGTGAAGTGGCAGTGGAAGCCCTTGACACTCTTGTTTTCTTTCGCTTAGCACCTAGGAAGTCTGTGTGCA
GGAGCCAGCAGGGCGCCAAGTGGCCAGTGCCTGCAGCTCACCTGTGGGTTTTCCCTTTGAGCCTTTGGCCACAT
CCACCTCGAGGGGACCTTGGCACCCCGGGCACACAAACCTCTGTGGTATAGGTGAGGGGTGTGAGGCCCCAGCCT
GGAGCCAGGCACTGGGTGCTGACAGGGGAACCATGAGGAGGGTGGCAGGTCTTTCAGCTCCCGGCCAGGGTGAAG
GCGGAAGTGAGCCCTCATCTGCCACTCCTATCTCCATTCTGCAAGAGTTTTAAGCTTGAGAGAGCTGACCAC
AGGGCCCCCGGGGAACAGGGATGGCACTTCCCTGAGCAGTCTGGCCCCCGGCCACTGTCTCGGGGGCCACCTC
TCGCCCCCTCATCTTGGTAATTAGCCAGCCTCAGATACTTCTGTGGGCCCTGAAGTGGGCTCTCAAGGTGAGACCA
AGGTTGCTGATCTCAGTCCCAGTGTCTTCAGCCAGCTGAAGCTGTGGGGCTGGGCTGGCAGCCTTTATTGTGATC
TTGCTTACCAATTTTTTTTTTCTCTCTCTTTTTCATTCTATTTTAAAGTTTAGACCAAAAAATACAGAGTCATCCCC
TACCCCCACCCCTCTAGAGACCCTCCAGCTAAAAACAGAGCCTGAGTTCAGGGACCCAAGTGGTGAGCGGCGTCT

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FIGURE 5969B

TTTGGGGGTGAGGGAGCTTGGGTAGATGAGGCTCCTGGCTGAGCCCTCCCTGTGGTGATCCCAGCCTAAGATGGC
CCCTCTTCCCTCCTGGTGGGAGACAGAGGACTGGACCCTGGGTCTCAGGTTCAGCAAGTCAGGCTAGGGACCTG
GGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCTGACGCCACCCCGCCCCATC
AGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAATGTTACGCGCCTGGCCGTGTGCATGGCCTCC
CGGGCTGTGGGCAGCCGCATCTGTGAGGTGACTCGTGAAAGTAGGTGATTCTTTTGAGAACTTCAGGGACTGGG
AGCAGAGGCCCCCTCACTCAACGACGTTTGTGCGACATAGTATTGTATCCACCTTAGTATTGTATCGAGCCTTTTC
TGTGTTTTAATGAGAAAGCAGAACACTAGTTTCTATTTAAGACTTTAAGGGTTTGTGGGGCGGGCGGGATTAA
CACAACATTTGGCTTTGTTTTCTTTTTCTTTTGATTTCACATCAGGTGTGTGCGAGTGTGTGTGTGTGGAGATG
TTAAGAGCCTCACAAGGAACTGGGTTATTGGAGGCCAAGGCGGCTTACAGTTCTCTGCGTTTCGTCACTTAATTC
CTGAATGTTTCAGAGAAACAGGAATCAGAAAATAGCAGATATCATGTAGGAAAGAGAGGATAAAACAAAGAAAAA
GAAAAAAAATAAGCTCATACCCAAATTCACAAAGCCTATTTTTTAAACCAAGCACATTTTGAATGAGTATGGA
ACCTCCATGGGCTCAGAAAAAGATGCTAATATATTTATCTCATTGTTTACATAAGCTTTTACAGTTTCAGACCT
CAGCAGCTGTAAGGCCAGTCCAGGGAACCTCCCCCTGCTGCTGGAACCCCTCTGAGTTGGCCCTGGAGTGGCTC
ACGGGCAGAGAAGGGTAGCCCTGGGGCTGGGGGAGGGATTGGAAGCCTCCCTGGAGTCACCTGAGCCCTCGTCCC
CATTCCCAGGGCCCCCTCCAAGCCCAGCTGGCACCAAGAGCTTGGGCCCGTGCTGACCAGCCCCCAAGGCCCTCT
GGCCGGACCATGCTGGTCTGACCAGCTAGCCTACGCGGGGATGGCCGTGAGTTCTGGCCACAGGACCCGAGTCT
GGGCTTGGGTCCCCCTGCTGCTCTGCCCCGTGACCCTTGGGGATGGGTTGATGCGAGGGTCCCCTCAAGCCAAAA
AGCCGGGACCTTTGCGCAGCTCTGTGCACTCTGGTGGGTCCCCACTCCTGGGGCCCCCTAACCCACCCACAGGCA
GCGGAAGGGGCTGACTGGGTCTGGTCTTACCAACATAGACGGTGCAAACACTCTTAACAGTGTGTTTTTGTAT
CAATATGTTTGTGAGTGATGAATGTATTTATTTCTCAGACTTGGGGCGAGTGAGCGGGTGGCAGGCCGGGCTCC
GCCACTGCATGCTCCCGCCGGACCGAGCCCCAGCAAGGGCTCCTCCAGGATTGCAAAAAAAAAGGAAGAGAAAA
GATGAACCTTTAAGCAAATAAGAATCTCAGAGACTCGCAGCATAGCCATACACCTCAGCCTGTGAAATGAACGAT
CCGGACCTCACCAACTTTCCCCACCTCAGGCAGCCCTGTGTGTTTACCGTTCATCACCCTCGGGGGCACCGGG
CCGCCCCACCACTCCCAAAATCCGTGAGTATTCAGTGGACCTCAGGCCCTGTGCAAGGAGTGCGATCCGGGCTGGG
CCGCTGGGCAGGCTGACCCCTGCCCTCCTGCGGCCATCCTGAGTTGGGGTGAGGCCTGGGCAGCCGGAGGGCAG
GGCTCAGGGAGCAGGAGGCTGCATCCGTCCACCCCCAGGCGTGGGGGACAAAAGCCAAAGGTGCCAGGCCTTAGA
GCAGACAAGGGCTCTCAGCCCTGGCATGCCCCCTAAAGGGACCAAGGTCTCTATTTCCAGAACCCCGTTGGG
GCAGATGTTACTGAACCTGTGAATCAGACGCCAGGAGTGAGGGCTGGGGAGGGACCTAAGTGGAGCCTCAGTCTG
ACATTCCACGCCGGGGTGGGGGTGGGCATGAGCGGTGGGAAGTGGGGCTGCCCAGGACCCCTTCTAGGATGCC
CCGGCTTCAGTCACCCCACTTTAACTTTCTACCAGGACCCCTCCCCCTACCTCACCTTGCTATTTATTGCTGTA
ATTTATTGACCTCAAAAATGCTGCATAACAGACCTCACTGGGGCAGGGAGGATCCCCAGGGCTCCCACCTCCAC
TTGGCGGGCCCCGTGGGGCCAGGTGCTGAGGGGAGCCTCTCTACCCACCCATCACTAGCTTCCCTCTGCCCTCT
CCCACCCCGGGGGGACCCAGGTGGGCCTGGCTCATTTCTCGCAAATACCTCGAAGGGGAGGGGGGAGGGATG
GGGTTATAGCTGTTTTGTTAATTGGAAGAGGGATCATGTTTTGTTTTATGCCCTTCCAGAAAGGGGGG
AGGGACACCGGGATCGCACTCCTGTACTGGCCACCGCCGCTGTCACTTGTACATTGAGTTCATGTCCCTTGAGA
GTTTGTATAAATTCAGGTCAGAGCTGCAGCTACACAGCTGCCAGTGTATAGAAAAGCAATTCACCAACGACTG
ATCTCTCCATTGAGAGTGTGCAGTCTTAAATGTACAGCGATAAGAACTGTTATTTTATGATCTTTTCATTAAA
AGCTTGATTG

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FIGURE 5970

MVSGPLALRWCAWAGRGDMGPDMELP SHSKQLLLQLNQORTKGFLCDVIIMVENSIFRAHKNVLAASSIYFKSLV
LHDNLINLDTDMVSSTVFQQILDFIYTGKLLPSDQPAEPNFSTLLTAASYLQLPELAALCRRKLKRAKPFSGSR
AGSTGMGRPPRSQRLSTASVIQARYQGLVDGRKGAHAPQELPQAKGSDDFLGGSNQDSVQGLGRAVCPAGGEA
GLGGCSSSTNGSSGGCEQELGLDLSKKSPLPPATPGPHLTPDDAAQLSDSQHGSPPAASAPPVANSASYSELGG
TPDEPMDLEGAEDNHLSSLLEAPGGQPRKSLRHSTRKKEWGKKEPVAGSPFERREAGPKGPCPGEEGEGVGDRVN
GILASGAGPSGPYGEPPYPCKEEEEENGKDASEDSAQSGSEGGSGHASAHMYRQEGYETVSYGDNLYVCIPCAKG
FPSSEQLNAHVETHTEELFIKEEGAYETGSGGAEEEEAEDLSAPSAAYTAEP RPFKCSVCEKTYKDPATLRQHEK
THWLTRPFPCNICGKMFTQRGTMTRHMRSHLGLKPFACDECGMRFTROYRLTEHMRVHSGEKPYECQLCGGKFTQ
QRNLISHLRMHTSPS

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FIGURE 5971

GGGCTGTCCGGCCCACTCCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCC**ATG**TCCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGCCACGGAGAGCGCGGCGGAGCTGGCCCCGAGGCACAGCATC
CCCACGGGCCTCCACGCCAACCTGTCCGAGGGCCGCCCGTGGGTCCGGCCCGCGTGGCGCCTCATCGCTGCTC
GGCCCCGAAGGCTTCTTCCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTTGCCTCAG
GTGCGGAGCCGCAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCCGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTGCTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGCCCCAACTAAGCT
GCTTCCGGGAGCTGCTGGGCAGGGCCCCACGCACGCGGACGGGCACCAGCACGTGCACGTGCTCCCAGGTGGAC
AGACGCCTTCGTGGGCCTGAGCACTTGCGGCCGGCACATGTCCGCTCACCGCGTGTCCGGGGCCCTGGCGCGGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGGCTACCCCACTGTGCCTCC
CACCGGCGGTGCGGTGAAGCCCCGACGCTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCTCTCAC
CGCGCCACGCTGCGGGCCAGCTTGCCAGGATGGCGTGCAGCTTTGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGGTCCCCTGTGAGCCCACTCTGGAACCCTTCCTGGAACCCTCCCTACTCTGACCCCTACAGA
CAACCAAGCACTAATCCCCTTAGTACCAAGAAAGGGGAGCCAGGATTTAGTCCTGGCCCAGCCAGAGCTGGGAC
CTGGAGCACGATCTGTTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCCCTCATGCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGCTGCAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCGCAGAGCAT
TTGGTGCCCTCCATGTTGCAATGCAAACACCTTCACCACTGGGGCAGTGGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGTCTTTC

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FIGURE 5972

MSRPRMRLVVTADDFGYCPRRDEGIVEAFLAGAVTSVSLLVNGAATESAAELARRHSIPTGLHANLSEGRPVGPA
RRGASSLLGPEGFFLGKMGFREAVAAGDVDLPQVREELEAQLSCFRELLGRAPTHADGHQHVHVLPGVCQVFAEA
LQAYGVRFTRLPLERGVGGCTWLEAPARAFACAVERDARAAGPFSRHGLRWTDADFVGLSTCGRHMSAHRVSGAL
ARVLEGTLAGHTLTAELEMAHPGYPSVPPTGGCGEGPDADFSCSWERLHELRLVLTAPTTLRAQLAQDGVQLCALDDLD
SKRPGEEVPCEPTLEPFLEPSLL

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FIGURE 5973

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCGAATAGCTACTGGCGGATCCGCGGCGGGCTCGGAGGGCGGGTGCCCGT
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTACAGCATGTGGGCACCTCTG
TGTTCTGTTCAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTGGAGCCCTCTGCAGGTCACG
ATGAACTCTGAGTGTGTGGATGGATGGGTGGATGGAGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACTTTGGGTTTGTAGGGGTCCTCAAGTGCCTTTGTGATTAAAGAATGTTGGTCTATGA

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FIGURE 5974

MWSAGRGGAAWPVLLGLLLALLVPGGGAAKTGAELVTCGSVLKLLNTHHRVRLHSHDIKYGSGSGQQSVTGVEAS
DDANSYWRIRGGSEGGCPCGSPVRCGQAVRLTHVLTGKNLHTHHFPSPLSNNQEVSAFGEDGEGDDLDLWTVRCS
GQHWEREAAVRLQHVGTSVFLSVTGEQYGSPIRGQHEVHGMPSANTHNTWKAMEGIFIKPSVEPSAGHDEL

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FIGURE 5975

GCTTCAGGGTACAGCTCCCCGCAGCCAGAAGCCGGGCTGCAGCGCCTCAGCACCGCTCCGGGACACCCACCC
GCTTCCCAGGCGTGACCTGTCAACAGCAACTTCGCGGTGTGGTGAACCTCTCTGAGGAAAAACCATTTTGATTATT
ACTCTCAGACGTGCGTGGCAACAAGTGAAGTGAAGCTGAGACCTAGAAATCCAAGCGTTGGAGGTCTGAGGCCAGCCTAAG
TCGCTTCAAAATGGAACGAAGGCGTTTGTGGGGTTCCATTGAGAGCCGATACATCAGCATGAGTGTGTGGACAAG
CCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGCTGAAGGATGAGGCCCTGGCCATTGCCGCCCTGGAGTT
GCTGCCCAGGGAGCTCTTCCCGCCACTCTTCATGGCAGCCTTTGACGGGAGACACAGCCAGACCCCTGAAGGCAAT
GGTGCAGGCCTGGCCCTTCACCTGCCTCCCTCTGGGAGTGCTGATGAAGGGACAACATCTTCACCTGGAGACCTT
CAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGCCAGGAGGTTTCGCCCCAGGAGGTGGAACTTCAAGTGCT
GGATTTACGGAAGAACTCTCATCAGGACTTCTGGACTGTATGGTCTGGAAACAGGGCCAGTCTGTACTCATTTC
AGAGCCAGAAGCAGCTCAGCCCATGACAAAGAAGCGAAAAGTAGATGGTTTGAGCACAGAGGCAGAGCAGCCCTT
CATTCCAGTAGAGGTGCTCGTAGACCTGTTCTCAAGGAAGGTGCCTGTGATGAATTGTTCTCCTACCTCATTGA
GAAAGTGAAGCGAAAGAAAAATGTACTACGCCCTGTGCTGTAAGAAGCTGAAGATTTTGCATGCCATGCAGGA
TATCAAGATGATCCTGAAAATGGTGCAGCTGGACTCTATTGAAGATTTGGAAGTGAAGTGTACCTGGAAGCTACC
CACCTTGGCGAAATTTTCTCCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCACATCCATGC
ATCTTCCTACATTTCCCGGAGAAGGAAGAGCAGTATATCGCCAGTTACCTCTCAGTTCCTCAGTCTGCAGTG
CCTGCAGGCTCTCTATGTGGACTCTTTATTTTCTCCTTAGAGGCCGCTGGATCAGTTGCTCAGGCACGTGATGAA
CCCCTTGGAAACCCTCTCAATAACTAAGTCCCGGCTTTTCGGAAGGGGATGTGATGCATCTGTCCAGAGTCCAG
CGTCAGTCAGCTAAGTGTCTGAGTCTAAGTGGGGTCATGCTGACCGATGTAAGTCCCGAGCCCCCTCAAGCTCT
GCTGGAGAGAGCCTCTGCCACCCTCCAGGACCTGGTCTTTGATGAGTGTGGGATCACGGATGATCAGCTCCTTGC
CCTCCTGCCTTCCCTGAGCCACTGCTCCCAGCTTACAACCTTAAGCTTCTACGGGAATTCATCTCCATATCTGC
CTTGAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTGACCCACGTGCTGTATCCTGTCCCCCTGGAGAG
TTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGCTTGCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTG
TGAGTTGGGGCGGCCAGCATGGTCTGGCTTAGTGCCAACCCCTGTCTCACTGTGGGGACAGAACCTTCTATGA
CCCGGAGCCCATCCTGTGCCCTGTTCATGCCTAAGTGGGTGCACATATCAAATGCTTCATTCTGCATAC
TTGGACACTAAAGCCAGGATGTGCATGCATCTTGAAGCAACAAAGCAGCCACAGTTTCAGACAAATGTTCAAGTGT
GAGTGAGGAAAACATGTTCAAGTGAAGGAAAAACATTGAGACAAATGTTCAAGTGAAGGAAAAAAGGGGAAGTTGGG
GATAGGCAGATGTTGACTTGAGGAGTTAATGTGATCTTTGGGGAGATACATCTTATAGAGTTAGAAATAGAATCT
GAATTTCTAAAGGGAGATTCTGGCTTGGGAAGTACATGTAGGAGTTAATCCCTGTGTAGACTGTTGTAAAGAAAC
TGTTGAAAATAAAGAGAAGCAATGTGAAGCAAAAAAAAAAAAAAAAAAAAA

6474/6881
FIGURE 5976

MERRRLWGSIQSRYISMSVWTSPRRLVELAGQSLKDEALATAALELLPRELFPPLFMAAFDGRHSQTLKAMVQA
WPFTCLPLGVLMKGQHLHLETFKAVLDGLDVLLAQEVPRRWKLQVLDLRKNSHQDFWTVWSGNRASLYSFPEPE
AAQPMTKKRKVDGLSTEAEQPFIPVEVLVDLFLKEGACDELFSYLIEKVKRKKNVLRCLCKKLKIFAMPMDIKM
ILKMOVQDSIEDLEVTCTWKLPTLAKFSPYLGQMINLRRLLLSHIHASSYISPEKEEQYIAQFTSQFLSLQCLQA
LYVDSLFFLRGRLDQLLRHVMNPLETSLITNCRLESGDVMHLSQSPSVSQLSVLSLSGVMLTDVSPEPLQALLER
ASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLSFYGNSISISALQSLLOHLIGLSNLTHVLYPVPLESYED
IHGTLHLERLAYLHARLRELLCELGRPSMVWLSANPCPHCGDRTFYDPEPILCPCFMPN

6475/6881
FIGURE 5977

AACGCCAGCGCCTGCGCACTGAGGGCGGCCTGGTCGTCTGCGGCGGCGGCGGCGGCTGAGGAGCCCGGCTGA
GGCGCCAGTACCCGGCCCCGGTCCGCATTTCCGCCTTCGGGCTTCGGTTTCCCTCGGCCACGACGCCCCGGCCCCG
CCCCAGCCCTCCTGATCCCTCGCAGCCCCGGTCCGGCCGCCCGCCTCTGCCGCCGCA**ATG**ATGATGATGGCGCTG
AGCAAGACCTTCGGGCAGAAGCCCGTGAAGTTCCAGCTGGAGGACGACGGCGAGTTCTACATGATCGGCTCCGAG
GTGGGAAACTACCTCCGTATGTTCCGAGGTTCTCTGTACAAGAGATACCCCTCACTCTGGAGGCGACTAGCCACT
GTGGAAGAGAGGAAGAAAATAGTTGCATCGTCACATGATCACGGATACACGACTCTAGCCACCAGTGTGACCCTG
TTAAAAGCCTCGGAAGTGAAGAGATTCTGGATGGCAACGATGAGAAGTACAAGGCTGTGTCCATCAGCACAGAG
CCCCCACCTACCTCAGGGAACAGAAGGCCAAGAGGAACAGCCAGTGGGTACCCACCCTGCCAACAGCTCCAC
CACTTAGATGCCGTGCCATGCTCCACAACCATCAACAGGAACCGCATGGGCCGAGACAAGAAGAGAACCTTCCCC
CTTTGGTGTGGATGCATCGCTGCACTCACCTCCGTGCTGATTCCGCCTTAGTTCTCCACTTTGATGACCATGAC
CCAGCTGTGATCCATGAGAACGCATCTCAGCCCCGAGGTGCTGGTCCCCATCCGGCTGGACATGGAGATCGATGGG
CAGAAGCTGCGAGACGCCCTTACCTGGAACATGAATGAGAAGTTGATGACGCCTGAGATGTTTTAGAAATCCTC
TGTGACGATCTGGATTTGAACCCGCTGACGTTTGTGCCAGCCATCGCCTCTGCCATCAGACAGCAGATCGAGTCC
TACCCACGACAGCATCCTGGAGGACCAGTCAGACCAGCGCGTCATCATCAAGCTGAACATCCATGTGGGAAAC
ATTTCCCTGGTGGACCAAGTTTGTGAGTGGGACATGTCAGAGAAGGAGAACTCACCAGAGAAGTTTGGCCTGAAGCTG
TGCTCGGAGCTGGGGTTGGGCGGGGAGTTTGTACCAACCATCGCATACAGCATCCGGGGACAGCTGAGCTGGCAT
CAGAAGACCTACGCCTTACGCGAGAACCCTCTGCCCACAGTGGAGATTGCCATCCGGAACACGGGCGATGCGGAC
CAGTGGTGGCCACTGCTGGAGACTCTGACAGACGCTGAGATGGAGAAGAAGATCCGCGACCAGGACAGGAACACG
AGGCGGATGAGGCGTCTTGCCAACACGGCCCCGGCCTGG**TAA**CCAGCCCATCAGCACACGGCTCCCACGGAGCAT
CTCAGAAGATTGGGCGCCTCTCCTCCATCTTCTGGCAAGGACAGAGGCGAGGGGACAGCCCAGCGCCATCCTGA
GGATCGGGTGGGGGTGGAGTGGGGGCTTCCAGGTGGCCCTTCCCGGCACACATTCCATTTGTTGAGCCCCAGTCC
TGCCCCCACCCACCCCTCCCTACCCCTCCCCAGTCTCTGGGGTCAGGAAGAAACCTTATTTTAGGTTGTGTTTT
GTTTTTGTATAGGAGCCCCAGGCAGGGCTAGTAACAGTTTTTTAAATAAAAGGCAACAGGTCATGTTCAATTTCTT
C

6476/6881
FIGURE 5978

MMMALSKTFGQKPVKFQLEDDGEFYMGSEVGNLYLRMFRGSLYKRYPSLWRRLATVEERKKIVASSHDHGYTTL
ATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQAKAKRNSQWVPTLPNSSHHLDVPCSTTINRNRMG
KKRTFPLWCGCIAALTLRADSALVLHFDDHDP AVIHENASQPEVLVPIRLDMEIDGQKL RDAFTWNMNEKLTPE
MFSEILCDDLDLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNHVGNISLVDQFEWDMSEKENSPE
KFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMKKIR
DQDRNTRRMRRRLANTAPAW

6477/6881
FIGURE 5979

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGGCGCGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATCATGCCGATGTTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCTCTCCGAGCTCAGCCAGCAGCTGGCGCAGGCCACCGCAAGCCCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACCTCCACCTTCGCCTTAAGAGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCCGCCGCACGCTGTGTTCTAGGCCCCGCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

6478/6881
FIGURE 5980

MPMFIVNTNVPRASVPDGFELSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNR
YSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA

6479/6881
FIGURE 5981A

TTGGGCGAGAGGGTGGGGCCACTCAACGCTGAGGCGGCGAATGGCCGGAGCAGACTTAAATCAAGAGGCTGGGGA
CCTCTAAGATCAAAGTTTGGGGCGGGGCCTAAGGAGGGGGCGGGGCCTCCAGATTCGAGACCTGGAAGGGCTGGG
GCGGCGCTTGGGGCGGGCCAGCCGCCCGCTCCCGTTCTCTCCTCCGCAGCGGGCGGGTGGCGGAGAAGGAACTC
GACACGCACCGACCGCCCTCCCCGCCCCAGCCGAAGCGGAAGCTGTAGCCCGCTCTGGGCCGGGGCCATGGGCGCC
CCGCGCCCGCCGGGTTCATGAGGACGGAGGCGGAGGCAGCGGGGCCCGCTCGAGCCCGGGGACTTTGTGCAACT
GCCTGTGCCCCTCATCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGTGCTGCAGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGAGCATCTGGACCATCG
ACCTGGCCTACCTG**ATG**CACCACCTTTGGCGTGAGGCACCGCTTCTGTACCCAGACCCTGGGTGTGACAAGGGCT
ACAAGAACCAGTCCTTCTACAGGAAGCACTTTGACACAGAAGAGACCCGGGTGAATCAGCTGTTTGACAAGCAA
AGGCCTGCAAGGTGCTGGTGGAGAAATGCACAGTGAGTGTGAAGGACATCCAGGCGCACCTGGCTCAGGGCCATG
TGGCCATCGTGCTGGTGAACCTCGGGGTGCTGCACTGTGACCTGTGCTCCAGCCCTGTCAAGTACTGCTGCTTCA
CCCCAGTGGCCACCACCTGCTTCTGCCGCACTCCTGACTACCAGGGCCACTTCATCGTGCTGCGTGGCTACAACC
GGGCCACTGGCTGCATCTTCTACAACAACCCAGCCTATGCCGACCCAGGAATGTGCAGCACCAGCATCAGTAACT
TTGAGGAGGCCAGAACCAGCTATGGCACAGATGAGGACATCCTCTTTGTCTACTTGGACAGCT**TGAC**AGCAGGAGC
CTGGTGCCTTAGGCCCTCGGACCCCATCCCCACCCAGCCGGGCCCGCTCAGGATGCCCTGGCCCAGGCTTGGG
GCTGCTGGGGTTGGAATGTGGAACCTGCAGCCTCAGCCCATCTGGCAGAGTCCAGGAACCTCGGAGACTGGCACAG
CTGCTTTGTCTGCCAGTGCCGTGTGTTGTCTGCTACTCACCCCAAGCACCTGCTGGCTGCTGGAAGCATACCCC
AAGACCCCAAGCCTTGACTCCAGCTGCGCCACAGGAAGTCCAGTCCCGACAGTGCCCTTGTGCTTTGAGCCA
GATCCATGGCAATGGTCTCCCCACAGACCGCAGGACTGAGCCTGGAGAGAGAAAGTTGCTTGACGGATGCCACTTG
TCAGGACAGTATGTGAGTGTCTGGAGACAGCATAGCTGACCCCAATCCCCCAGGGCTGAGGACCCCTCCAGGCCC
CTCTCTCCTGGAAGTGCTGCATATGCCCTGTGCCAGTGGTTGATGATAACCACCACCCTGCCTACCCATGGG
CCCAAGTTTCTGTGGCTCATTACAGGGCATCTGACCCCTGCCACCCAGCATAGACACACCTCACAGCTGCCCTGC
CATGCAGAGCCCTGGCCGCTGGAGACTCTTAAAGCCCCACAGCCCTCCAGGTCTCCAGCTCTGTGATGGAG
GGCTCTCGGGCCTAGATCCCACTGGTAGGCCTCGTGGCTGGCAGCAGTGCTCTGGGAATAAACAGCTGCCCTAGC
CCCAGAGGGATCCCTGCACCCAGGAGGCCTCCTGACACCAGCCAAAATCCTGACAGCAGGGTCTGCCCTCTTGAG
TGTGGGGAGCCCCCTAGTCCTTTAAGGTTGGCTGCTAAGGCCTGTGCTCCAAAGCAACGGGCTGGGGCAGCCTGCA
GCTGCCCACCCAACCTGGTCTTACACCAGATTGCACAGGATACTGGGTCTTGTCTATCTTGATGGAGAAGAGGG
GTTCTTGCCCAGGATCTTACAACACAGCAAGTAGCATAGAGCTCTTCTCTCTCTTTTTTGGGGAGGTTGGGGT
CAGGGGTGTTTTCTTTGAGATTTAAGTTTTCATTTTTGAGGGGTAATCACCTTCAAGTAAACAGTAATAGCAAG
AGTGAAGGTACTTTGGAACCACTAACACCTCTGCACAGGGCAGTTAGCCAGCTCAAGTTCTTTTTTCAGAGAAAGG
GACTTGGCCAGTGGTTAAGTACCTGCCCTTACCTCTCAGACGAGGCAGCTGACGAGGCAGCTGGCCCAGTCT
TGGGAGTCTGCTCAGGACAGTGGTGGAGCTGGGTCTTGAACCCAGTCTGCACCTAAAAAACTAAAGGAAATGGA
TTTTTTTTTTTTTTTTTGGAGACGGAGACTCACTCTGTTGCCAGACTGGAGTGCAGTGGCACGATCTTGGCTTAC
TACAACCTCCGCCTCCTGGGTTCAAGCGATCCTCCTGCCTCAGCCCCCACTAGCTGGGACTACAGGCACATGCC
ACCATGCCCCGGCTAATTTTTTTGTATTTTTAGTAGAGACCAGGCTTCGCCATGTTGGCCAGGCTGGTCTCGAACC
CCTGAGCTCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGGGAAATGGGTCATTTTCAAAGGGGCAACAGTGAT
ACCATCCCTGCACTCCTGGGTCTGCTCTTCCAATGCCCAAGGCATGGCATGGTGGCAGCTGTGCCCCCGCCAT
TGCTTTGGAGCACAGATGACTCTGGGGGCAGAGGTGGGCTCTGTTAGGAGGGCAGTGAGACCACCCAGCCAAAT
TGCTTCTCAACCCTAGACAAAGCCTTTGGCCAAGAGGGAGGTGCTGTAGTTGGGCAGCCCTTCTGGGTTTCA
GACCGGTGTTGGCTCTAGACTGGTCTCATCTCCATTGCCTTAATGCCAGGTGGCCCAGGAGTACCCATGCACAGC
AGCTGTGGGGTGTGGGCATCTTCAAGGTGGTGTCTGGTAAAAATGTTAGAAATAGCTGTATGAAGGAAACAGTG
GAGGAAATGAAGTTTTTCAAGGATGGTGGGATGTGATTTAGACAGTGACATGCTGTTAGGGCTGTCACTAGGGAGT
GGCCTTCATGGAGGGTGGTAACAGCACCTCAGTCCAGCCAAAATGTTAGAAACACTCAGTCTCTGGTCCCAGAG
GATGGCTTCTCAGGGCATGCCACAAGTTAAAGGTACCTTCCTGAAAGATGAATGAGAAAGCTGCCCATTCTCAA
GACTCATCTGCCTAGGGAGGGTCACAGAGGCAGGATGTAAGACACACTGTGTTGCATTCTTGACAAGTCATGAA
AATGGAGCCAGAGAGCCTGGACATCAGGGACTTTTGCCACAGCACATGACACCGACAGCTGCCCAGCCTGTTCA
CATGCTGGGGACCAGCACAGCACCTGAAGCCATGTGGGACAGTTGGGCTTTGTTCAATTCTAGCCACGGGGATGAA
AGGGATCTTTGCATTGCAGAGATTTTATATATATTTTGTGTTGTAATGAGCCATTCTCAATAAACATTATTCTCA

6480/6881
FIGURE 5981B

CTGC

6481/6881
FIGURE 5982

MHHFGVRHRFCTQTLGVDKGYKNQSFYRKHFDTEETRVNQLFAQAKACKVLVEKCTVSVKDIQAHLAQGHVAIVL
VNSGVLHCDLCSSPVKYCCFTPSGHHCFCRTPDYQGHFIVLRGYNRATGCIFYNNPAYADPGMCSTSI SNFEAR
TSYGTDEDILFVYLD S

6482/6881
FIGURE 5983

TCTTGACTCACGCCTTCGCCGTAGCATCTTTCGCAGCGGACCGAAGAGAAGAAAAGTAGGCCAGAGCCGAACCTCT
CTTCCTGCCAAGATGTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAAGCGAAGATAATTTTTCTAAGTTGAACAGAACTTTGTCCTTTTTTCTTTTCAGGTTATCTGAGTTCATTG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTTGTTCTG

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FIGURE 5984

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQSGAGRGKAAILKAQVAARGRGRGMGRGNIFQKRR

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FIGURE 5985

CATTGCAGTACACTGAGCTCCACAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTGTGCC
TCGCTGAGGAAAAATAACTAAACATGAGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCACATGCAT
TTTTTGGGCAAACCTGTCTGGGAGGCGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACCTCTCAGAGTTTTCTA
AGAAGTGCCCATACGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCAAGGAT
CCGAATGCACCCAAGAGGACTCCTTCGGCCTTCTTCCTGTTCTGCTCTGCGTATCGCCCCAAAAATCAAAGGAGAA
CATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCCGCAGATGACAAG
CAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGA
AAGCCTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAG
GAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGATGATGAATAAGTTGGTTCTAGC
GCAGTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAATTG
AAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGATGGTATTTTCAATAGCCGCTAACCTTGCCTGGTACAGTATGGGGGCTGTAA
ATTGGCATGGAAATTTAAAGCGGGTTCTTGTTGGTGCACAGCACAAATTAGTTATATATGGGGATGATAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTATTCTGTAACTGAATACCACTCTGTAATTGCAA
AAAGAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTAG

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FIGURE 5986

ATGGGTGCATACAAGTACATCCTGGAGCTATGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTC
CGCTGCTGGCAGTACCGCCAGCTATCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAAGTGCACCGA
CTGGGCTACAAACAAGGCCAAGCAAGTGACAGTGAGTCGTGTGGACCTGGTAAAAATCACCAACTTCTCTGATTCT
CCTTATCTTGAAAACAGGGATGATAATGCTCCCCCTACCCACAGATGCTGTGACGTTCCAAGCAGACATCTAA

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FIGURE 5987

GGCGCTGGGCGGCTGCGGCGCGGGTGC GCGGTGCGTAGTCTGGAGCT**ATG**GTGGTGGTGGCAGCCGCGCCGAAC
CCGGCCGACGGGACCCCTAAAGTTCTGCTTCTGTCGGGGCAGCCCGCCTCCGCCGCGGAGCCCCGGCCGGCCAG
GCCCTGCCGCTCATGGTGCCAGCCAGAGAGGGGGCCAGCCCGGAGGCAGCGAGCGGGGGGCTGCCCCAGGCGCGC
AAGCGACAGCGCCTCACGCACCTGAGCCCCGAGGAGAAGGCGCTGAGGAGGAAACTGAAAAACAGAGTAGCAGCT
CAGACTGCCAGAGATCGAAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGATTAGAAGAAGAGAAC
CAAAAACTTTTGCTAGAAAAATCAGCTTTTACGAGAGAAAACCTCATGGCCTTGTAGTTGAGAACCAGGAGTTAAGA
CAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCGGAAGCCAAGGGGAATGAAGTGAGGCCAGTGGCC
GGGTCTGCTGAGTCCGCAGCACTCAGACTACGTGCACCTCTGCAGCAGGTGCAGGCCCAAGTTGTACCCCTCCAG
AACATCTCCCCATGGATTCTGGCGGTATTGACTCTTCAGATTGAGAGTCTGATATCCTGTTGGGCATTCTGGACA
ACTTGGACCCAGTCATGTTCTTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACC
CAGAAGGACCCAGTTCCCTTACCAGCCTCCCTTTCTCTGTGAGTGGGGACGTCATCAGCCAAGCTGGAAGCCATTA
ATGAAC**TAA**TTTCGTTTTGACCACATATATACCAAGCCCTAGTCTTAGAGATAACCTCTGAGACAGAGAGCCAAG
CTAATGTGGTAGTGAAAATCGAGGAAGCACCTCTCAGCCCTCAGAGAATGATCACCTGAATTCATTGTCTCAG
TGAAGGAAGAACCTGTAGAAGATGACCTCGTTCCGGAGCTGGGTATCTCAAATCTGCTTTCATCCAGCCACTGCC
CAAAGCCATCTTCCCTGCTACTGGATGCTTACAGTGACTGTGGATACGGGGGTTCCTTTCCCCATTGAGTGACA
TGTCCTCTCTGCTTGGTGTAACCATTTCTGGGAGGACACTTTTGCCAATGAACCTTTCCCCAGCTGATTAGTG
TCTAAGGAATGATCCAATACTGTTGCCCTTTTCCTTGACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGTACTTCATTCAAAAAGCCAAAATAGAGAGTATACAGTCCTAGAGAATTCCTCTATTTGTTTCAGATCTCATAGA
TGACCCCCAGGTATTGTCTTTTGACATCCAGCAGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTA
CTATAATTGAGAACTACAGCTTTTAAAGATTGTACTTTTATCTTAAAGGGTGGTAGTTTTCCCTAAAATACTTAT
TATGTAAGGGTCATTAGACAAATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCTTTATCATTTCTCTTCCC
CCTTTTGGCATCCTGGCTTGCTCCAGTTTTAGGTCCTTTAGTTTGCTTCTGTAAGCAACGGGAACACCTGCTG
AGGGGGCTCTTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTTGTGAAATTATAGAAATTTACTATGTA
AATGCTTGATGGAATTTTTTCCCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAACTACCCATG
CAATTAAAAGGTACAATGCAAAAAAAAAAAAAAAAAA

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FIGURE 5988

MVVVAAAPNPADGTPKVLLLSGQFASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQRLTHLSPEEKALR
RKLKNRVAAQTARDRKKARMSELEQQVVDLEENQKLLLENQLLREKTHGLVVENQELRQRLGMDALVAEEEEAEA
KGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNISPWILAVLTTLQIQSLISCWAFWTTWTQSCSSNALPQSLP
AWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWKPLMN

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FIGURE 5989

AGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAA**ATG**CGTCCACGGATTACAGTACCTATAGCCA
AGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATA
TGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGACCACTGCAACCTA
TGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTCCCCCAGGCATA
CAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCAACCAACCCAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACC
TACAAGACCGCAGGATGGAAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACAGCC
CAGCCTAGGATATGGACAGAGTAACCTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGC
ACCTCCATCCTACCCTCCTACCAGCTATTCCCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCA
GAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCC
TCCCACTAGTTACCCACCCCAAACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCAGCTA
CGGGCAGCAGAGTTTATTCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTC
CGGACCAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACCGGGGCAGGGGAAGAGGGGGATTGATCGTGGAGG
CATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCC
TGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGATGAAGACTCTGACAACAG
TGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGT
TGTTAAGATGAACAAGAGAACTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCCAAGG
CGATGCCACAGTGTCTTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCA
AGGGAGCAAACCTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCCG
TGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCAGGAGGTCTGGGGGACCCATGGGTCTG
CATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTCCTCGAGGGAACCCCTCTGG
AGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTGTGGAAACAGAACTTCGCCTG
GAGAACAGAGTGCAACCAGTGTAAGGCCCCAAAGCCTGAAGGCTTCTCCCGCCACCCTTTCGCCCCCGGGTGG
TGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGG
AATGTTTCAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCATGGACCGAGGTGGCTTTGG
TGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGAAGAGGAGGACG
TGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCCCTAC**TAG**ATGCAGAGACC
CCGCAGAGCTGCATTGACTACCAGATTTATTTTTTAAACCAGAAAAATGTTTTAAATTTATAATTCATATTTATA
ATGTTGGCCACAACATTATGATTATTCCTTGCTGTACTTTAGTATTTTTTACCATTGTGAAGAAACATTAAAA
CAAGTTAAATGGTAGTGTGCGGAGTTTTTTTTTCTTCTTTTAAAAATGGTTGTTTAAGACTTTAACAATGG
GAACCCCTTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCCTCTTAAGTGAACAATGTTTCATGGTT
GTGATGTTTTTTTTTTTTTTTTTAAATAAAATTCAAATGTTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5990

MASTDYSTYSQAAAQQGYSAytaQPTQGYAQTTQAYGQQSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPQDGNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAAPPSPPTSYSSSTQPTSYDQSSYSQQNTYGPSSYGQQSS
YGQQSSYGQQPPTSYPPTGSGYSQAPSQYSQQSSSYGQQSSFRQDHPSSMGVYGQESGGFSGPGENRSMSPDNR
GRGRGGFDRGMSRGRGGGRGGMGSAGERGGFNKPGGPMDEGPDLDLGPPVDPDESDNSAIYVQGLNDSVTLD
DLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVLARKKPP
MNSMRGGLPPREGRGMPPPLRGGPGGPGGPGGPMGRMGGRGGDRGGFPFPRGPRGSRGNPSGGGNVQHRAGDWQCP
NPGCGNQNFARTECNQCKAPKPEGFLPPFPFPPPGGDRGRGGFPGMRGGRGGLMDRGGPGGMFRGGRGGDRGGFR
GGRGMDRGGFGGRRGGPGGPPGFLMEQMGGRRGGRGGPGKMDKGEHRQERRDRPY

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FIGURE 5991

GGACGCATAGAGCTGCGGCTCGGGCGGGCGCCTCCCTGCGGCGGCCCGGCCCGGCTCCGGCCCCCGCTGGGGCAAT
GCTCCCCGGGGCCCGCGGGATGAGCCAGCGATCCTGAACTGTGTTCCCTGCCACAGTGACTCGGCCGGTCCGGGCA
TGGCAGACCCAGTGCGGGGCATCGCGGGTTCCGGCGGCCAAGAGCGTGCGGGCCATTTTCGCTCCAGTGAGGCCTACG
TGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGTACGGCCTGGGTCTCCCGGGTGGTGGCGATG
GCTTCTTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACCGAGGCTGCCCGTGCAT
TGGCAGCCGCCCGCCCGGCCCGAGGTGTGGCCTTCCAGGCGCACAGTGTAGTGCCTGGCTCCTTCATGGCGCGCG
ACAAQGTGGCCACCTTCATCGGCTGGTGCCGCTGGAGCTGGGTGTGCCGGAGGTGCTCATGTTTGAGACTGAGG
ACCTGGTGCTGCGCAAGAACGAGAAGAGCGTGGTGCTGTGCCTGCTGGAGGTGGCGCGGCGTGGGGCACGCCTGG
GCCTGCTGGCCCCACGCCTCGTGCAATTTGAGCAGGAGATTGAGCGGGAGCTGCGTGCTGCACCCCCAGCCCCA
ACGCCCCCTGCCGCTGGGGAGGACACCACTGAAACCGCCCCCGCACCAGGGACTCCTGCCCGCGGCCCGCCGCATGA
CACCCAGCGACCTGCGCAACCTCGACGAGCTGGTGAGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCAGTTTC
CCATGATCAAGGTCTCAGAGGGGAAGTACCGTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGCTGAGGA
GCCACGTGATGGTGCGAGTGGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCT
GCTCCTCCACTGCTCATCGCCACCCAGCCGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTCGCCACCACCA
GTCCCCGCCCTGCTAGCCAGTCCCTGGGAGTGAGCGCCGGGGCTCCCGGCCTGAGATGACTCCCGTTAGCTTAC
GAAGCACAAAGGAGGGGGCCGAGACCCACCCAGGCCCGGGATCAGCTGCCCCCATCCCCGCTCCCGCCGCT
ACTCCGGGGACAGTGACTCCTCAGCCTCCTCCGCCAGAGCGGCCCTTGGTACCCGAGTGATGACACAGGCA
CTGGCCCCCGGAGGGAGCGACCCAGCCGGCGGCTGACCACAGGCACCCCGGCCTCTCCGAGACGGCCTCCTGCC
TGCGCAGCCAGTCCCAGACCGGCTGGATCGCGGCCGGCCCCGGGGGGCCCCAGGAGGCAGGGGAGCCAGCTGT
CGGTCCCCAGCCCTGCCCGGCGGGCCCCGAGCCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATC
GAGACGGGCAGCACTCATGGGTGCCAAGGGGCAGGGGCAGTGGGGGCTCGGGCAGGAGCACCCCCAGACTCCCC
GTGCCCGCAGCCCTGCAGCACCCCGGCTTTCCCGGGTCTCCAGCCCCAGTCCAGAGTTGGGCACCACACCGGCCA
GCATCTTCCGCACACCCCTGCAGCTCGACCCGACGAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCC
TGGCCAATGCCCCGGGCCCTTGAGGCTGTTGCTAGCGTGACCCCACTGGACCAGCCCTGACCCAGCTCGGGCCC
CCGACCCCTCCAGCTCCTGACTCTGCCTATTGTTCTCCTCAGTTCCTCCTCTTCGTCCCTCAGCGTCCCTGGGTGGCA
AATGTGGCCAACCTGGGGACTCTGGCCGACGGCCAATGGGCTGCCTGGGCCCCGAAGCCAAGCCCTTTCCAGCT
CCTCCGATGAAGGCAGCCCTGCCCTGGCATGGGGGGGCCACTAGATGCACCTGGGAGCCCCCTGGCTTGCACTG
AACCCTCGAGGACCTGGGCACGGGGTGGATGGACACACAGCCAGACCGTAACCCCTCACGTATCCCCACGCCTC
GGGGCCCCCGCCGCCCTCCGGACCCGACAGCTGGGGACATGGCATGCCCTGCACTCAGTCACCCGAGGGCTG
AGCCAGATTCTGGATGTGATGGACCAGCTCAGCTGTCCCAGACCCCATCCCTTCTCCTTTTCTTTTGTGGCCT
TAACCCTTCTGCATCAGGGAGCCCCCTCTGCCTCTTGAGTACCAGACCTCATGGGACCAGACCCCTTGGGACCAC
ATGGCACAAATGGGACCTCTGTTGTACATTCCGGTTGGGGGATGAGCGTTGCTATTTAATTACTAATATTATTGAA
TGCTTAGAGGAGGCCGGGCGAGCCCGGTGTTCTGAAGACCTGTGGCCAGCAGAGCCTCTGACAGTAAAGTTTT
GCTCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5992

MADPVAGIAGSAAKSVRPFRSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGF LTGLATGTTLCQHANA VTEAARA
LAAARPARGVAFQAHSVVPGSF MARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEKSVVLC LLEVARRGARL
GLLAPRLVQFEQEIERELRAAPPAPNAPAA GEDTTTETAPAPGTPARGPRMTPSDLRNLD ELVREILGRCTCPDQF
PMIKVSEGKYRVGDSSLLIFVRVLRSHVMVRVGGGWD TLEHYLDKHDPCRCSSSTAHRPPQPRVCTFSPQRVSP TT
SPRPASPVPGSERRGSRPEMTPVSLRSTKEGPETPPRPRDQLPPHPRSR RYSGDSDSSASSAQSGPLGTRSDDTG
TGPRRERPSRRLTTGTPASPRRPPALRSQSRDR LDRGRPRGAPGGRG AQLSVPSFARRARSQSREEQAVLLVRRD
RDGQHSWVPRGRGSGGSGRSTPQT PRARSPAAPRLSRVSSPSPELGTT PASIFRTPLQLDPQQEQQLFRRL EEEF
LANARALEAVASVTPTGPAPD PARAPDPPAPDSAYCSSSSSSSSSLSVLG GKCGQPGDSGRTANGLPGPRSQALSS
SSDEGSPCPGMGGPLDAPGSPLACTEFSRTWARGRMDTQPDRKPSRIPTPRGPRRPSGPAELGTW HALHSVTPRA
EPDSWM

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FIGURE 5993A

ACCACTTGAAGAGAGGTTCTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACCTAAATGTGTAGTTCCAGTCCTTCTATGCAGAGTCTCTCCTGCCCTCCCTCCTTCCCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGCTCCGCGCTGAGCTTCCGGCCTCTACGCCTCGCTTCCGGTCGGCCGCCCTTCC
TTACTTCCGGTTCTCTATGGTGC GCGGGCAAGCTTTGCTCCGCCTCCGGCAGTGGCTTACTCCCGGTGCCAGGTT
CTTGAGCTGTGAGGAGGAACAACCATGTCTATCAGAATCGAGCAAAAAACGGAAGCCCAAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTTCATGACTCTAAAGAAGCTTAACCGATTAGCCACATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAAATGTTTGGAGTTTAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTAGAGGAGTTTTATAA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCACCATGGGAGACCTCACCAGCAAACACTGGCACGTCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCCTATCTAACAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCCTCCAGCCCCGCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTGACCAGGCTCACAAGCAGTATGAGACAGCCAGACACCTGCCGCTCC
CCTCTATGTCCTCTTTGTTTTCAGGCCACTGCGTATGGGCAGGCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGAAGTCAAGTGCCTG
GGAGGAGCAGACTACGAAGCGCCGGAGACCCACACTGGGGGTTTCAAGTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGTCTATGCTCGACCTGAAGTGCAAAGATGACAGTGTGCTTCACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACAAGTGCCTATGGAGCTGATCACCCCATCAGTGCAGG
TGACTTGCTGTCTCCTGACTCAGTCTGAGTTGCTTGTATCCTGGGGATCATGGAAAGAAAACCTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCCTGACTTTGAGCGACTATGTACTTGAGCTAGGTACCCCTATTTT
GTGGGTGCAGAAGCTGGGTGGCCTCCACTTCCCCAAAGAGCAGCCCCAGCAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAAACTTCTGAAGACCAGGGTGCAGTCCCGCCTGGCCCTCCACAAACA
GTTTGCATCCCTAGAACATGGCATTGIGCCAGTTACCAGTGATTGCCAGTACCTCTTCCCTGCCAAGGTTGTCTC
TCGCCTGGTGAAATGGGTGACAGTTGCCCATGAGGATTACATGGAGCTGCACTTCACCAAAGACATTGTGGATGC
GGGACTGGCTGGGGACACCAATCTCTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAACTGCAGGCCGCTGT
GGTGTGTAACCTGGCTACTCTCTCCATCCACCTGTTTTCCAGCTCTGTTTGAAGTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAACATTCGGGCCAIGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGCCAAGGAATTTCCCAGGAGAAGATGTGTCTGCGGCTCTTCAGGGGTCTTAGCAG
GATGAAGCCATTTAAATACAACCATCCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTTC
CCCCAAGGCCTCACCCTGAGCACTGGGCTTCTGCTTCTGCTCTGGCCACATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTAAGGCGTCACCTGACCAGTGGCCTTTGTCTGTGGTTTCTGGCAAGGTGGCTTTGCAGTC
TGGAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGAAAAAGATTCCAATTCTGCAGAGAGATGCTCACCTCTTGCTACGCACACCCTATTTGTGCTTTG
CGGGGTGAGGTCTCATGATCTTGATTTTATTATCCCAAGTTTCTGCTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAAGCAAACTCTTCCCTCCCCACCCGCTCTTCCCATTAGTCTGTGAGGGTTGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGCAACAGAAAGACAAACTCAGTTGATC
CTTGAACAACTCAGGGGTTAGGGGCACCAACACCCCTGCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAAACTTAATAATAGCCTGCTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTTTCAGTATATATTTTGTATCTTATACACTGTATTCTTACAATACAGTAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTCACAAGGGGGCCTGAGTGCAGTGGCTCACGTCTGTAATCCAGCACTTTGGGAGGCCAA
GGCGGGTGGATCACTTGAGGTGAGGAGTTTGGAGACCAGCCTGGCCGACATGGTGAAACCCTGTCTCTACTAAAAA
CATGGAAATTAGCCAAGCGTGGTGGCGCATGCCTGTAGTCCAGTTACTCAGGAGGCTGAGGCAGAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGGCGAGAGTGAGACTCCGTC
TCAAAAATAAATAAATAAGAAAGCCATAAGGAAGAAAATATATATCTACTATTAAGTAGAAGTGGATCACCATAA
AGGTCTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGGAGGGTTGGTCTTGGTGTCTCAGGGATGGC

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FIGURE 5993B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAGTGAGAGACCCCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAAGGTAGCAGTGAGCTATTC
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAGAAATC
TGCATATAATAGACCCACAGAGTCCAACTATTGTTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTTCATGGAGATGGCGAGAGTGGTGTGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAATATTTTTTTTTTTATTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCCTCAACCTCTCCTGGGTTCAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTTCTGGCTAATTTTTTAAATTTTTTGTAGAGGCGGGATCCCACTATTTTTTC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAATGATCCTCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCCTCAAAATATAATTATTTGATTAA
GAGAAGTCTTGGAAGATAGGTAACAACCTTTAAAATGTTTATAAAATTACATCCTTTGTAATACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGGACAGTTTTGTCAAAAAGTGATCTTGACCCCAACATCAGTACTC
CATTCTTCATTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCTTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGCGCGCCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTGG

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FIGURE 5994

ACGGCAGCCGTCAGGGACCGTCCCCCAACTCCCCTTTCCGCTCAGGCAGGGTCCTCGCGGCCCATGCTGGCCGCT
GGGGACCCGCGCAGCCCAGACCGTTCCCGGGCCGGCCAGCCGGCACCATGGTGGCCCTGAGGCCTGTGCAGCAAC
TCCAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCAGGGTCCCAGGCTGAGCCCCGCGCC**ATGGCC**
GGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCGTGAGGATCGTC
ACCATGGACGCCGAGATGGAGTTCAATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTTTGATTTGGTGTGCCGG
ACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATG
GACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAAATTTTATCCT
GAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTACAGGTAAAGAAGCAGATTTTA
GATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGAC
TACGACCCAGTGTTTACAAGCGGGGATTTTTGGCCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTAT
CAGATGACTCCGGAAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAA
GCTGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAAGTACTTTGCAATCCGGAATAAA
AAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTACATTTATGACCCTGAGAACAGACTGACCCCC
AAGATCTCCTTCCCGTGGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGAT
AAGAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGG
AACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGAG
GAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACG
AGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCACTGATGCGGTCT
GAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCCAGATCACCGAGGAGGAGGCCAAACTTCTGGCCCAGAAGGCC
GCAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAGGAGGAGAAGCGCCTGATGGAG
CAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGAT
CAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACC
AAGCCCACGTACCCGCCCATGAACCCAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGT
GACAGCCTGTCTTTTCGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGGAA
TACATGAAAAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAAACTGAAA
GAGAGGGAGACAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAAATACCATT
AAAAAGCTCACCTTGCAGAGCGCCAAGTCCCGAGTGGCCTTCTTTGAAGAGCTC**TAG**CAGGTGACCCAGCCACCC
CAGGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTG
GCTGGGGGTTTCCGTGGGAGCTCCAGAATTTCCCCAGCTGAGTGAAGAGCCCAGCCCCTCTTATGTGCAATTGC
CTTGAACACGACCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTTAAGAAGTA
TTTGTCT

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FIGURE 5995

MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKDTVAVL
KMDKKVLDHVDVSKEEPVTFHFLAKFY PENAEELVQEITQHLLFFLQVKKQILDEKIYCPPEASVLLASYAVQAKY
GDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIR
NKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVKNKLILQLC
IGNHDLFMRRRKADSLEVQQMKAQAREEKARKQMERQRLAREKQMREEAERTRDELEERRLLQMKEEATMANEALM
RSEETADLLAEKAQITEEEAKLLAQKAAEAEQEMQRIKATAIRTEEEKRLMEQKVLEAEVLALKMAEESERRAKE
ADQLKQDLQEAREEAERRAKQKLLIATKPTYPPMNPAPLPPDIPSFNLIGDSLSDFKDITDMKRLSMEIEKEK
VEYMEKSKHLQEQLNELKTEIEALKLKERETALDILHNENS DRGGSSKHNTIKKLTLQSAKSRVAF FEEL

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FIGURE 5996

GGCACGAGGCCGGAAGTGCGGGCGCTCAGGGAGCTGTACCGTGGTCGGCGGGCGGCGGGCGGGCGGGCACAG
AGCCGGTGGTGGAGCCGCGGAGGAGGGTCACGCAGCACA**ATGCC**AGCTCTGCCCCCTGGACCAACTCCAGATCACC
CACAAGGACCCGAAGACAGGAAAGCTGAGGACTTCACCAGCGCTGCACCCGAGCAGAAGGCAGACCGGTATTTT
GTGTTATACAAAACCGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTA
GCCAATGACCTCGACTGGCTCCTGGCCTTGCCCTCACGATAAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTA
CAGAAGTGCTGGACTCCTACCTGCGCTATGTCCCCCGCAAATTCGACGAGGGGGTGGCCTCAGCCCCCTGAGGTT
GTTGACATGCAGAAGCGCTCCATCGAAGTGTTTTTCTCACCTTCCTCCGATGTCCACTCACAAGGAATCCAAA
GATCACTTCATTTCCCTTCTGCGTTTGGAGAAATCCTCTACAATAACTTCCTCTTTGACATTCCAAAGATCCTG
GACCTCTGCGTGCTCTTTGGAAAAGGCAACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAG
CCAAGTTACTACAGTGACCTGGATGAAACCTGCCTACCATCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGT
GGTTTGCAAGGGGACGGGGCCAATACCACACCCCGAGAAGCTTGAGGAGAGGGGCGGATTGACCCCCAGTGACATG
CCTCTCCTGGAATTAAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCTTTCTGGATATC
TTCCCTTTGGCTTGCCAGACCTTCAGAAGCAGCACTTTTGTTACAGACTAGCTTCCTTCTACGAAGCAGCAATT
CCCGAAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGTTGACCTGTGGCAGAGGCTC
TCCCATTCCAGGAAGAAGCTAATGGAGATTTTCCACATCATCCTGAACCAGATCTGCCTCCTTCCCATCCTAGAA
AGCAGCTGTGACAACATTACAGGGCTTCATCGAAGAGTTCTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGG
TTCTCCGGGACTATGATGCACTCTTCCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCCTCATCAGTCTTG
GACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGCATGGGAAGGGGTGGACAGACGGAAAGCCACA
GATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTCACGGTGACAGCAGAGGCAGTC
AGTCAAGCATCATCACATCCGGAGAACTCGGAGGAAGAGGAGTGCATGGGAGCAGCCGCGGCTGTGGGGCCCTGCC
ATGTGTGGGGTGGAAGTGGACTCTCTCATCTCCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATC
CTGGCCTGCCTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCC
ACCCCTCAGCCAGCTGGACCGCAACCTAGACAGAGAAATGAAACCAGACCCTACACCCCTGCTGACGTCTCGCCAC
AACGTCTTCCAGAATGACGAGTTTGATGTGTTTACGAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAG
AGCACCAGGAAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGCAGTGGCGGCACAGCGGCAGCGCTAC
GAGCAGTACAGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTAC
GAGGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGTCTATC
AGCCGCAGGCCATTACCATCCCTCAGGTGCTGAGAACCAGAGTGCCTAGAGAAGGGCAGGAGGAGGATGACGAC
GATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACATTTTGTTCAGGACCCTGCAGTGCTGAGAGAG
AAGGCAGAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGCTCAACAGCAGTGCCCGGC
AGCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGA
GCCAACCACAACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCCT**TGAG**ACCTGGTGCA
GGCAGTGGGGAGGCAGCGGCACCAGACTCACCAGCCGTGCTCCCATCGCTGGGGCCTCCTCACTAGGGGGCCC
CAAGTTCAACTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCCTGAGAAGGCCGCTCTCATCTACCAGCCAGCC
ATGAGCGCCTTCCTGCAGAACACACAGTGCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGGCAAGCAGGCACC
TTCCCCCAGCTGCGCTAGCGGGAAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCCAAACCTCGGGCCACAAG
ACACCACTTCCCCTTTACCTTGGACAGCAGGAAACCTGTATATTCAAAAACACAAAAGTCTGCTAATAAAATT
TTTGACCTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5997

MPALPLDQLQITHKDPKTGKLRTPALHPEQKADRYFVLYKPPPKDNIPALVEEYLERATFVANDLDWLLALPHD
KFWCQVIFDETLQKCLDSYLRVPRKFDEGVASAPEVVDMQKRLHRSVFLTFRLMSTHKESKDHFISSAFGEIL
YNNFLFDIPKILDLCVLFKGKNSPLLQKMIGNIFTQQPSYYSDLDETLPTILQVFSNQLQHCGLQGDGANTTPQK
LEERGRLLTPSDMPLLELKDIVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEAAIPEMESAIAKKRRLE
DSKLLGDLWQRLSHSRKKLMEIFHIILNQICLLFILESSCDNIQGFIEEFLQIFSSLLQEKRFRLDYDALFPVAE
DISLLQQASSVLDETRTAYILQAVESAWEGVDRRKATDAKDPVIEEPNGEPNGVTVTAEAVSQASSHPENSEEE
ECMGAAAAGVGPAMCGVELDSLISQVKDLLPDLGEGFILACLEYYHYDPEQVINNILEERLAPTLSQLDRNLDREM
KPDPTPLLTSRHNVFQNDDEFDVSFSDVLSRVHKGKSTRKEENTRSLLNDKRAVAAQRQRYEQYSVVVEEVPLQ
PGESLPYHSVYYEDEYDDTYDGNQVGANDADSDELISRRPFTIPQVLRTKVPREGQEEDDDDEEDDADEEAPKP
DHFVQDPAVLREKAEARRMAFLAKKGYRHDSSSTAVAGSPRGHGQSRETTQERRKKEANKATRANHNRRTMADRKR
SKGMIPS

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FIGURE 5998

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAAACTCATGTAG

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FIGURE 5999

GGCACGAGGCCGCAACTCGCTCGGCCGCCGCGCCATCTTGCGAGCTCGTCGTACTGACCGAGCGGGGAGGCTGTCTT
GAGGCGGCACCGCTCACCGACACCGAGGCGGACTGGCAGCCCTGAGCGTCGCAGTCAATGCCGGCCGGACCCGTCG
AGGCGGTGCCCCCGCCGCCGCCCGTGGCCACGGAGCCCAACAGCCACAGAAGAAGAAGCATCTTCAAAGGAGG
ATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCCCTCCTCCAGAGGTCAGAAATATTGTTGACAAGACTG
CCAGCTTTGTGGCCAGAAACGGGCCTGAATTTGAAGCTAGGATCCGACAGAACGAGATCAACAACCCCAAGTTCA
ACTTICTGAACCCCAATGACCCCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTC
AGGAGCCGTCCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGACCACCCAGCAGCAGCTGCCCCAGAAGG
TCCAAGCCCAAGTAATCCAAGAGACCATCGTGCCCAAGAGCCCTCCTCCTGAGTTTGAGTTTCAATTGCTGATCCTC
CCTCTATCTCAGCCTTCGACTTGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTC
TGACCCAGCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCACAGCACAGCCTCTTCAACT
ACTTCACGAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTTCAAAGCTCAAGAAAG
AGGCTGAAAACCCCGAGAAGTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCAAATTCCAGGAACGTGAGA
GGAAGAAGGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGACTGGCATGATTTTGTGGTGG
TGGAACAGTGGACTTCCAACCCATGAGCAAGGGAACCTTCCCTCCCCCACCACGCCAGAGGAGCTGGGGGCC
GAATCCTCATTAGGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGAAGTTGAGATGGAGGTGAGTCTGATGAGG
AGGATGACAAACAGGAGAAGGCGGAGGAGCCTCCTTCCCAGCTGGACCAGGACACCCAAAGTACAAGATATGGATG
AGGGTTTCAGATGATGAAGAAGAAGGGCAGAAAGTGCCCCACCCCCAGAGACACCCATGCCTCCACCTCTGCCCC
CAACTCCAGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCCCTCCAGCCCCCTGCTC
CAGATGAGTATCTTGTGTCCCCATTACTGGGGAGAAGATCCCCGCCAGCAAAATGCAGGAACACATGCGCATTG
GACTTCTTGACCCCTCGCTGGCTGGAGCAGCGGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACG
CACCAGGTCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAA
CAGCCATTGGTAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAG
GCAGCATGGCCCCGACCCAGCAGGCTGCCCAGGCCAACATCACCCCTCCAGGAGCAGATTGAGGCCATTCAACAAG
CCAAAGGCCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGC
CACCGCCACCATCTTCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACTTCAGTGCCCCGACCCACCAAA
TGCCACCTCCAGTTCGTACTACAGTTGTCTCCGCGAGTACCCGTCATGCCCCGGCCCCCAATGGCATCTGTGGTCC
GGCTGCCCCCAGGCTCAGTGATCGCCCCCATGCCGCCCATCATCCACGCGCCAGAATCAACGTGGTGCCCATGC
CTCCCTCGGCCCCCTCCTATTATGGCCCCCGCCACCCCCCATGATTGTGCCAACAGCCTTTGTGCCTGCTCCAC
CTGTGGCACCTGTCCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCACCTCCCATGGAAGATGAGCCCACCT
CCAAAAAAGTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCTTGCAGAAAACAAGGTTCCAGTGTCCA
TCAAAGTCCAGGTGCCCAACATGCAGGATAAGACGGAATGGAACTGAATGGGCAGGTGCTGGTCTTCAACCTCC
CACTCACGGACCAGGTCTCTGTCTTAAGGTGAAGATTTCATGAAGCCACAGGCATGCCTGCAGGGAAACAGAAGC
TACAGTATGAGGGTATCTTCATCAAAGATTCCAACCTACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCC
ACCTGGCCCTCAAGGAGAGAGGCGGGAGGAAGAAGTAGACAAGAGGAACCTGCTGTCAAGTCCCTGCCATTTTGC
CTCTCCTGTCTCCACCCCTGCCCCAGACCCAGGAGCCCCCTGAGGCTTTGCCTTGCCCTGCATATTTGTTTGC
CTCTTACTCAGTTTGGGAATTCAAATTGTCTGCAGAGGTTCAATCCCTGACCCCTTCCCCACATTGGTAAGAG
TAGCTGGGTTTTCTAAGCCACTCTCTGGAATCTCTTGTGTTAGGGTCTCGATTTGAGGACATTCATTTCTTCAG
CAGCCCATTAGCAACTGAGAGCCCAGGGATGTCCTACAGGATAGTTTTCATAGTGACAGGTGGCACTTGCTAATA
GAATATGGCTGATATTGTCTAATCATTTTGTACCTTGACATGGGTTGTCTAATAAACTCGGACCCTTCTTGT
GAAAAAAAAAAAAAAAAA

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FIGURE 6000

MPAGPVQAVPPPPVPTEPKQPTEEEASSKEDSAPSKPVVGIIYPPPEVRNIVDKTASFVARNGPEFEARIRQNE
INNPKNFNLNPNPDYHAYYRHKVSEFKEGKAQEPSAAIPKVMQQQQQTTOQQLPQKVQAQVIQETIVPKEPPPEF
EFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQLMQKEQRNYQFDFLRPQHSLFNYFTKLVEQYTKILIPPKGL
FSKLLKEAENPREVLDQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVVVETVDFQPNEQGNFPPPTT
PEELGARILIQERYEKFGESEEVEMEVESEDEDDKQEKAEPPSQLDQDTQVQDMDEGSDDDEEGQKVPPPPETP
MPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQ
SDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGEEIIQKPEEKVTWDGHSGSMARTQQAAQANITLQEQ
IEAIHKAKGLVPEDDTKEKIGPSKPNEIPQQPPPPSSATNIPSSAPPITSVPRPPTMPPPVRTTVVSAVPVMPRP
PMASVVRLPPGSVIAPMPPIIHAPRINVVPMPPSAPPIMAPRPPPMIVPTAFVPAPPVAPVPAPAPMPPVHPPPP
MEDEPTSKKLKTEDSLMPEEEFLRRNKGPVSIKVQVPMQDKTEWKLNGQVLVFTLPLTDQVSVIKVKIHEATGM
PAGKQKLQYEGIFIKDSNSLAYYNMANGAVIHLALKERGGRKK

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FIGURE 6001

ATGAGGTGGGCGAGGCTTTCCGCTCTCTTGTGCCAGCGGCGGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCC
TACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCAGCCCTGAAGCAGGCCGCAGCGCC
AGGGTGA CTGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATC
AACCGCGTGTGTGCTGCCTCTCTCTATGTCCTGGGCACTGCCACCCGCTGGCCCCCTGGCTGTCCGCAAGTGGACC
ACCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATTGACAGGTCGGTGGATTTCCTCCTGGAC
TCCAGCCTGCGCAAGTCTACCCAACAGTGGGGAAGCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTGA

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FIGURE 6002

MRWARLSALLCQRRVVWLSYGVASSYVLADAIDKGGKAGEVPSPEAGRSARVTVAVVDTFVWQALASVAIPGFTI
NRVCAASLYVLGTATRWPLAVRKWTTTALGLLTIPIIIHPIDRSVDFLLDSSLRKSTQQWGSPPDPHTLVPGLC
IGLLLVNLLLLPGNVDTWLPGVQRPWHLGGFELDRSLETKASRSSGCRESQKGRT

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FIGURE 6003

CACGAGGAAGTGGAGCTGCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCGATGGGAGGCCTTGAGAA
GAAGAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCCGGAAGAAGCTCCAGCTGAGCTT
GGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGAACCCAAACACAAGAAGAAGGTTAACAA
GGGTTCTACAGCAGCCCGAACGTTTTACCTTATCAAAGACATCAGGTTTTCTCCTCCACGAACCCATTGTCAACAA
GTTCCGTGAATACAAGGTGTTTCGTCCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCG
TTTAAAGGACAATAAGCCCAACTACAAACTCGACCACATCATCAAGGAACGGTATCCACGTTTCATCGATGCCCT
GCGGGACCTGGACGATGCCCTCTCCATGTGCTTCCTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCA
GACCATTAGCTGTGCCGCCGGCTCACTGTGGAGTTTATGCACTACATTATCGCTGCCCGTGCCCTGCGCAAGGT
CTTCCTGTCCATCAAAGGCATTTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGC
CTTCTCCCATGACCACCCGACAGACGTGGACTACAGGGTCATGGCCACCTTCACCGAGTTCTACACCACGCTGCT
GGGCTTTGTCAACTTCCGCCTTTACCAGTTGCTCAACCTCCACTATCCCCCGAAGCTCGAGGGTCAGGCCCAAGC
AGAGGCAAAGGCCGGTGAGGGCACCTACGCGTTGGACTCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGTGC
CAGCCTGGCCCGCTGGTGGTGCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATGGGGAGAT
GTCAGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAGAAGCTTTTTGAGGGCCTGAA
GTTCTTCTGAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTTGGTGGGGAAGTGTCTTG
GGACAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCCATCAGATTGTGACCGGCC
TGGGCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTTGACTCAGTGAACGCCAGGCT
CCTTCTCCCCGTGGCAGAGTACTTCTCTGGGGTGCAGCTGCCCCACACCTTTCACCTTTGTGACCGAGAAGGA
AGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGGAGAGGACCCAGGAAACCTGAATGA
GTCAGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGATGAAGAGGGAGAAAATGAGGAGGAGGA
GGAAGATGCAGAGGCTGGTTCAGAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGG
GAAGAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCCAGGAGGAGGAGAGTGA
GGCCAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGCAAGAG
GCGAAAAATCCGAGAGGCCAACAAAGCTGGCGGAGAAGCGGAAAGCCCACGATGAGGCGGTGAGGTCTGAGAAGAA
GGCCAAGAAGGCAAGGCCGGAGTGAGTGCTGCGGCCCTCACAGGGCTGAGGCCAGCCCCTAGCAGCTGGATGT
GGCAGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTCCTTTCTCCAGCCAGCCCTG
ACCCCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCCTGG
TCAGAGAAGAGGCCTCTGTGCCAGCCTGATTCTCTGCTCCAGGAGCCAGTGACATGAGGTGCAGAGGCCACC
CAGCCCCCTACCTACTGCCCCCATTCATCCTGGCTTTCACAGCCCCCTCCACACAGTTGGACCCGTGATTCTC
AGGGTGCTGTGATGGGGTGAGGGTAGGGGAGCATTGTATTATAATGACTGGACTTTTGAAAAAAAAAAAAAA
AAAAAA

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FIGURE 6004

MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKKVNGKSTAARTFYLIKDIRFLLH
EPIVNKFREYKVFVRKLRKAYGKSEWNTVERLKDKNPNYKLDHIIKERYPTFIDALRDLDALSMCFLFSTFPRT
GKCHVQTIQLCRRLTVEFMHYIIAARALRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHDHPTDVDYRVMATFTE
FYTTLLGFVNFRLYQLLNLHYPPKLEGQAQAEAKAGEGTYALDSESCMEKLAALSASLARVVVPATEEEAEVDEF
PTDGEMSAQEEDRRKELEAQEKHKKLFEGCLKFFLNREVPREALAFIIRSFGGEVSWDKSLCIGATYDVTD SRITH
QIVDRPGQQT SVIGRCYVQPQWVFDSVNARLLL PVAEYFSGVQLPPHLSPFVTEKEGDYVPPEKLKLLALQRGED
PGNLNESEEEEEEDDNNEGDGDEEGENEEEEEDAEAGSEKEEEARLAAL EEQRMEGKKPRVMAGTLKLEDKQRLA
QEESEAKRLAIMMMKKREKYLYQKIMFGKRRKIREANKLAEK RKAHDEAVRSEKKAKKARPE

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FIGURE 6005A

CGAGACTCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTTATGACAT
AGTTCCTTCCAAAATATTACATCATAAAATCATTGAGAAGATTAAAAAAAACACTTGAAGAAAATTGTAGTTTTAA
ACATCTCTGCAATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCATTAAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTTACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCAGTAACCTCGTTTCTTGATATTATATGGAAATCGTTTCC
CCAGAAAATTTTGTCTTTTCACTTTTGGAGATGTATCCCACTGGAGTGAAATGTGTCACTGGATATCTTGAGCTC
TGTATTGAAGAACTGAGATCAGTGAAATACTTGTGTGTAATCCAGAAGAATCTGATTTTTGTTTATTGGATCAAA
ATTTTCTAAATGCAAACCTTAGTTATTTGAAGTCAATATGTTGAGTTGTTTCATTCAAGTGTTTATAGGAATCCA
ACAAATACTGCTCTATTGGATCGCCAAATGTTGGACTATTTTAGTATCAACCGTTTCCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTCTTCTTCTAACAAGAAAACAGAAGACATTTAAATGACAACCTTTCA
AGAAGAAAATTTTATTTTTTTCAGAAAGTTGGCATTATCTTCTGGCAGATTGCTCACATCCAATATTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTTTATATCTCTATTTAGATAGTCTTTCCCCAAAATTTCCACAGAAACATA
CAGTGTTCATGGTTCTTGAGTTTATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCACTCTCTTGGAGGCTGTCCAGTAGCGTCAAAACCTTAGTGTTTAAATACATTACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGGATCACATGCAAGGATGTTTAGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGCTGTGGCTCACGCTGTAAATCCAGCACCTTGGGAGGCCGAGAACCACTCACGAATTCTTGTTTGGTGCTC
TTGCTGAAGTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAATAGATATTTATGCAGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGTGATCC
AGTTTGGGAAGTCGGCCAAGCGAACACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTAAATCGGGCT
CAATGCGCATTGGGAAGGATTTTATCCTGTTTACCAAGAAGGAAGACACCATGACGTGCCTCTTCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCACTGCCACCTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAATGTAGAGAAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCTTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACCTCATGG
ATAATGGAGAGCCAGAAGTAGACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCCCCAGAGGGCA
CGAAGCCAGAGCGGCGCTCGTTCCGTGCCTATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCATCC
ATGGGCACAAGGTGCAGACCAAGAGGCTCTCCTGCTGCCTGTACAAGCCAGGATGTACAAGTACACGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCACGTAGCAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGGTGGAGACCTCACGCGGGACTCCAGGGTGATGTTGC
GACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAACCTGAATTTGTTTTGTTTGGTGTCACATTTGAACACCGGGATCTGGATGGCATGT
TCATCTACAACCTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTTGGAGCCTACACACAACAAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTTCTGGGATGAGTTTGGCTACCTCTCTGCCAACTGGAACCAGCCCCCGTCCAGTGAGC
TGCGTTACAAACGCCGGAGAGCTATGGAAATCCCCACCACCATCCAGTGCGATTTGTGTCTGAAATGGAGAACCC
TCCCCTTCCAGCTGAGTTCTGTGGAAAAAGATTACCCTGACACCTGGGTTTGTCTCCATGAACCTTGATCCTGAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGTTCCCCTGGGAACATTTCAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACCACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATTGCCCTTGGAAAGTGACCACCAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCTCTCGGTGCCCCCTTTACCTGCTGTGATCAGGAACGCCCCAGCAGACCCCTTCTTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCGGGAGGAGGCCAGCACATCTAGGCTGCTCCAGCCACCTGAGGCAACCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCCGACCTGCCCTCTGGTGCAGCAACTGTCAACATCTTTACTGCCAACTCCAAGAGCCCTCGGG
AGGTTCTTCTTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTCACCCATCAAACCTCTCCCCGGCTA
CCCCTAGTCGGAAGCGGAGTGTGCGAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGA
GGTGCAAGCGGGCAGATTTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGACAGTGCTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGTT

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FIGURE 6005B

ACACGGGCCGTGTACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGCAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCAATCACGAGACCA
TCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCCTGCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCACTCCTGCAAAAGG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAAGGGGGACT
GAAGGCAGGAGAGAGAGCAGCTCCCCTGCCACCTGCCCCCTCAACCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTTCGCACCTTGGTTTGACTTACACGGGACATTTGTGTTTTTGGAGGAAAAGATACCCTGATT
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAG

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FIGURE 6006

MLCFLDDGAGMDPSDAASVIQFGKSAKRTPESTQIGQYGNGLKSGSMRIGKDFILFTKKEDTMTCLFLSRTFHEE
EGIDEVIVPLPTWNARTREPVTDNVEKFATETELIYKYSFRTTEEEVMTQFMKIPGDSGTLVIIFNKLMDNGEP
ELDIISNPRDIQMAETSPEGTKPERRSFRAYAALYIDPRMRIFIHGHKVQTKRLSCCLYKPRMYKYTSSRFKTR
AEQEVKKAEHVARIAEKAREAESKARTLEVRLGGDLTRDSRVMLRQVQNRAITLRRADVKKRIKEAKQRALKE
PKELNFVFGVNIEHRDLGDMFIYNCSRLIKMYEKVGPQLEGGMACGGVVGVDVPYLVLEPTHNKQDFADAKEYP
HLLRAMGEHLAQYWKDIAIAQRGLIKFWDEFGYLSANWNQPPSSELRYKRRRAMEIPTTIQCDLCLKWRTLPLFQL
SSVEKDYPDTWVCSMNPDPEDRCEASEQKQKVPLGTFRKDMKTQEEKQKQLTEKIRQQQEKLEALQKTTPIRSQ
ADLKKLPLEVTTRPSTEPPVRRPQRPRSPPLPAVIRNAPSRPPSLPTPRPASQPRKAPVISSTPKLPALAAAREEA
STSRLLPPEAPRKPAANTLVKTASRPAPLVQQQLSPSLLPNSKSPREVPSPKVIKTPVVKKTESPIKLSPATPSRK
RSVAVSDEEEVEEEAERRKERCKRGRFVVKEEKKDSNELSDSAGEEDSADLKRAQKDKGLHVEVRVNREWYTGRV
TAVEVGKHVVRWKVKFDYVPTDTPRDRWVEKGSSEVRLMKPPSPEHQSLDTQQEGGEEVGPVQAQAIABAEP
TSECLRIEPTTALSTNHETIDLLVQILRNCLRYFLPPSFPISKQLSAMNSDELISFPLKEYFKQYEVGLQNL
NSYQSRADSRKASEESLRTSERKLRTEEEKLQKLRTNIVALLQKVQEDIDINTDDELDAYIEDLITKGD

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FIGURE 6007

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAACTGCAGCGGCAGGAGCTGGAGCGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCTTACAG
CTGAGGTTCCAGGCAGCCAGAGCCACCCCCAGCCACCCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGCC
CCACCAGAGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCTGCCAACGCTCCCTGTGGTGC
TCAGCCCCCGCAACCAGCCAGAACCGAGAGTCCACCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCTTGACCCCGCAAGGCTCCTGGGCCCTCCCTCACCAGCACCACCCCTGCCTCCTCT
CCAGCGGCTCCTCTCTCGGGGCCCCAGTGATACCTCCTCCCGTTTACGCAAGGAGCAACGAGGAGTAGCCAGC
CCCTGGCCCAGCTTCGAAGCTGCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCTTGAAA
ACAGAGCAGGGGGGCTGTGGCACGTTTACAGGAGCCTGGTGGCCGCTGCCCGTGGCCGTGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCTACTCAGCACCAGTA
GTGGGGGAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCTGGCTCGGCTGGGCACTGCTCACTCATGTCA
CCAGCTTACCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGCTGCTGCTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAGG
CCAGCCACGGGCGCGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCAAGACCTCAGCCTCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTGACATCCAGAACTTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACCTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCGACCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGATGCTGGTGGACTGTGTGCCCTGGTGG
AGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATGTGCAGTCGCTCTACA
ACCACCTGCGACGCCACGAAGTGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGCATGGCCAGCCAGTGG
CAAGCTGCCGCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCACCGCTGCCCTGTCTGTTGCGAC
ACCCTCCCCCCCCACATACACAGCAGCGTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6008

MADEALAGLDEGALRKLLLEVTAADLAERRRRIRSAIRELQRQELEREEEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRGSKGLAA
HRLEQCEVPEREEQEQQAEVSKPTPTPEGTSQDVTTVTLLLRAPPGSTSSSPASPSSTPTPASPEPPLEPAEAQC
LTAEVPGSPEPPSPPKTTSPEPQESPTLPSTEGQVVKLLSGPKETPAAQSPTRGSPDTKRADVAGPRPCQRS
SVLSPRQPAQNRESTPLASGPSSFQAGSVRDRVHKFTSDSPMAARLQDGTQQAALSPITPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRGNTATETTTTRHSQRAADGSVSTVTKTERLVHS
NDGTRTARTTTTVESSFVRRENGSGSTMQTTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEEKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFQVFNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFPEAFDYGQLSPQNRNQNFVAFSSAEMLVDCVPLVEVDDMMIMGKKPDKCVFTYVQS
LYNHLRRHELRLRGKNV

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FIGURE 6009

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTGCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACCTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGGCCAGCGAG**ATGG**CGG
ACGAGGCCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCCACCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCCAGAGCC
CCACCAGAGGCCCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCTGCCAACGCTCCCTGTGCGGTGC
TCAGCCCCCGCCAACCAGCCCAGAACCAGAGTCCACCCCTTGCCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCTGACCCCGCAAGGCTCCTGGGCCCCCTCCCTCACCAGCACCACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGGTTTACGCAAGGAGCAACGAGGAGTAGCCCAGC
CCCTGGCCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCCTTGAA
ACAGAGCAGGGGGGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTGT
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCAGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTCTAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTGACATCCAGAACTTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACCTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCGACGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCCGAGCTCCTGG
ATACAGAGGACATGGTGCGGCTTCGAGAGCCTGACTGGAAGTGCGTGTACACGTACATCCAGGAATTCTACCGCT
GTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAAGTCC**TAA**CCCCCTGCTCGGGGCCCCACGGATGCTGGTGGACT
GTGTGCCCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCTGACCCCAAGTGTGTCTTACCTATG
TGCAGTCGCTCTACAACCACCTGCGACGCCACGAAGTGCACCTGCGCGGCAAGAATGTCTAGCCTGCCCCGCCGC
ATGGCCAGCCAGTGGAAGCTGCCGCCCCACTCTCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCCACCGCTGC
CCTGTCTGTTGCGACACCTCCCCCCCCACATACACACGACGCTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6010

MADEALAGLDEGALRKLLLEVTAADLAERRRIRSAIRELQRQELEREEEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRGSKGLAA
HRLEQCEVPEREEQEQQAEVSKPTFTPEGTSQDVTTVTLRLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPPEPPSPPKTTSPEPQESPTLPSTEGQVVNKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQORSL
SVLSPRQPAQNRESTPLASGPSSFQRAGSVRDRVHKFTSDSPMAARLQDGTQAALSPITPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSEKQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTSFSHAPPSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGPGEGRGNTATETTTTRHSQRAADGSADVSTVTKTERLVHS
NDGTRTARTTTTVESSFVRRSENGSGSTMQTKTFSSSSSSKKMGSIQDREDQASPRAGSLAALEKRQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFQVFNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYQQLSPQNRQNFVAFSSAETHADCPQLLDTEDMVRLREPDWKCQVYTYIQEF
YRCLVQKGLVTKKKS

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FIGURE 6011

GCGGTGGCAGTTTGCCGCGGGTGTGTGAAGGGAGACAGTGTGGAGGCCACAGGGTACTCGCCACGATGAGCAGCA
CCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCGGACTCAAAGAACAAGGCCACAGCACACCACTTAG
GGCTGCTTAAGGCTCGTCTTGCTAAGCTTCGTCGAGAACTCATTACTCCAAAGGGTGGTGGTGGTGGAGGTCCAG
GAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTTGTTGGTTTTCCATCTGTGGGGAAGTCAA
CACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCATACTCTGACCACTGTGCCTG
GTGTCATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCCAGGTATCATTGAAGGTGCCAAGGATGGGA
AAGGTAGAGGTCGTCAAGTCATTGCAGTGGCCCGAACCTGTAACTTGATCTTGATTGTTCTGGATGTCCTGAAAC
CTTTGGGACATAAGAAGATAATTGAAAATGAGCTGGAAGGCTTTGGCATTGCTTGAACAGCAAACCCCCCAACA
TTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCACAGCCACTTGCCCCCAGAGTGAGCTGGATGCTGAAA
CTGTGAAGAGCATTCTGGCTGAATACAAGATTCATAATGCCGATGTGACTCTACGTAGTGATGCTACAGCTGATG
ACCTCATTGATGTGGTGGGAAGGAAACAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAATCT
CCATTGAGGAATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCCCATCACCGCTGGAATTTTG
ATGACCTATTGGAAAAGATCTGGGACTATCTGAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACCAG
ATTACACATCCCCAGTGGTGCTTCCTTACTCCAGGACCACAGTGGAGGATTTCTGCATGAAGATTACAAAAATC
TTATCAAAGAATTTAAATATGCTCTGGTCTGGGGTCTCTCTGTGAAACACAATCCTCAGAAAAGTGGGTAAAGACC
ATACGTTGGAGGATGAGGATGTCATTCAAATTGTGAAGAAGTGAACCTTTCCCTTTTCCCATCTGCCGGACGAA
CCACAACAGCGTTCCCATGATCAAGCACCCCTACCCAGTTCTTTCTGGTTTTGGCAGTCACTGGATCAGGATCC
AGGGGAGGGAGATGGAGGCACCCAACTGGAACCTTCATTGTCTTACCTTGGTGTACCTTGTATGTCGAACCTGC
ATAAAAGATCTGGTAGGCTGGTCAGCTACATGC

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FIGURE 6012

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGGPGEFVDVAKTGDARIGFVGFPSV
GKSTLLSNLAGVYSEVAAYEFTTLTTVPGVIRYKGAQIQLLDLPGIIEGAKDGKGRGRQVIAVARTCNLILIVLD
VLKPLGHKKIIEENELEGFGIRLNSKPPNIGFKKKDKGGINLTATCPQSELD AETVKSILAEYKIHNA DVTLRSDA
TADDLIDVVEGNRVYIPCIYVLNKIDQISIEELDIYKVP HCVPI SAHHRWNFDDLLEKIWDY LKLVRIYTKPKG
QLPDYTSPVVL PYSRTTVE DFCMKIHKNLIKEFKYALVWGLSVKHNPQKV GKDHTLEDEDVIQIVKK

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FIGURE 6013

GTGAGCGGAGCCGGCGCCCCGGCCCTGCCGGGAGCCCCAGGTGACTTCTCAGGGAGGCGCCCCACCCTGCCCGCT
CAGAGGGCCAGTGCCGGGTGGGGGTGCCCTTCTAGGGCCTTCGGTCGCAGGTGGGCTCTCCCAGCTGTGACGACG
CGGCCCCGGCCTGAGGAGCCCCGCGGACAAGGTTGAGCGAGTCGTGGGCTTTTTTTCCGTCCCCACGTGGGCACG
GCCCCGGGCTGCGTGAGCTCACTTCCTCCACATCTTATCTCCTGCCGGGCGCGGGCGCTTCCCATCAGACAGCAGG
AGCCAGTTCTCAGGGTCCTTGGCTGAACACACAAGCTGCAAAGCTACATATACTCCGGCAGAGCTGGCTGCGGGC
TGCAGACTGCAGGGCCGGTCACTCCGCGCAAGTTTGGGTTCTGTTTTAGAACTGCCACCTAAGCCCCCTCTTATT
TCATCTTTCCTGTGGTGGAACCCCTGCCCCCACC GGAGTGTGAGGTTGACTTTTTGGAAAGAGAGCCCTGACCC
TCTATTCTGCACCCTGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGGCGCCACCAACCAGCCTCGCAGAGG
CAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGCTGGCTCGGGGGAAGGGGA

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FIGURE 6014

CTCTTTTACCAAGGACCCGCCAACATGTGCCGCGTTTGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCATA
GAAAAGTACTACACACGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCAAGGAGATCGCCATTATCCCC
AGCAAGAAGCTCCGCAACAAGATAGCAGGCTATGTCACGCATCTGATGAAATGGATTGAGAGAGGCCAGTAAGA
GGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAAGGAGAGACAATTATGTTCTGAGGTCTCAGCCTTGGAT
CAGGAGATAATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTG
CAGGTCACCTCAGCCTACAGTTGGGATGAACTTCAAAATGCCTCGGGGACCTGTTTGAATTTTTCTGCAGTGCTG
TATTATTTTCAATAAATCTGGCACAACAGC

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FIGURE 6015

GCTCTGAGAAGCCGGACTACGCGGCAGCGGCTCTTCAAAGCGGAGCCGGGAGTTTTTGCTACAGTTTTCGCCACC
ATGAGTCGCAGCTATAATGATGAGCTGCAGTTCTTGGAGAAGATCAATAAAAACTGCTGGAGGATCAAGAAGGGC
TTCGTGCCCCAACATGCAGGTTGAAGGTGTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTA
AGGAATGCCTGTGCGAGGTGGTGGTGTGGTGGCTTCCTGCCAGCCATGAAACAGATTGGCAATGTGGCAGCCCTG
CCTGGAATTGTTCAICGATCTATTGGGCTTCCTGATGTCCATTGAGGATATGGGTTTGCTATTGGGAACATGGCA
GCCTTTGATATGAATGACCCTGAAGCAGTAGTATCCCCAGGTGGTGTGCGGTTTGACATCAACTGTGGTGTCCGC
TTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGAAGGAGCAACTTGCCCCAAGCTATGTTTGACCAC
ATTCTGTGGGGTGGGGTCAAAGGTGTATCCCAATGAATGCCAAAGACTTGAGGAGGCCTTGGAGATGGGG
GTGGACTGGTCTTAAGAGAAGGGTATGCCTGGGCTGAAGACAAGGAGCACTGCGAGGAGTACGGAAGGATGCTG
CAGGCTGACCCCAATAAAGTTTCTGCAAGGGCGAAGAAAAGAGGCCTTCCTCAGTTGGGGACCCTGGGAGCAGGC
AACCATTATGCAGAAATCCAGGTTGTGGATGAGATTTCAATGAGTATGCTGCTAAAAAATGGGCATCGACCAT
AAGGGACAGGTGTGTGTGATGATCCACAGTGGAAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTA
GCTATGGAGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTCGAATCGCTTCC
CCAGAGGGTCAAGACTATCTGAAGGGAATGGCAGCTGCTGGGAACTATGCCTGGGTCAACCGCTCTTCCATGACC
TTCTTAACCCGTCAGGCTTTCGCCAAGGTCTTCAACACAACCCCTGATGACTTGGACCTACATGTGATCTATGAT
GTTTCTCACAACATTGCCAAAGTGGAGCAGCATGTGGTGGACGGAAAGGAACGGACACTGTTAGTACACAGGAAG
GGATCCACCCGCGCTTTCCTCCTCACCATCCCCCTCATTGCTGTTGATTACCAACTCACTGGACAGCCAGTGCTC
ATTGGTGGCACCATGGGAACCTGTAGTTATGTTCTTACTGGCACTGAACAGGGCATGACTGAGACCTTTGGAACA
ACCTGTCATGGAGCGGGCCGTGCATTGTCCCGAGCAAAAATCTCGACGTAATTTAGATTTCCAGGATGTCTTAGAC
AAATTGGCAGATATGGGAATTGCGATCCGTGTTGCCTCACCCAAACTGGTTATGGAAGAGGCTCCTGAGTCCTAT
AAGAATGTGACAGATGTGGTAAATACCTGCCATGATGCTGGAATCAGCAAGAAAGCCATTAACTGAGACCAATT
GCTGTGATCAAAGGAT**AGA**ACCTTGGACAGCAGGGCTGCCTGACACCACCAACCCTCTCTGAAGTGAAGTGGAC
TGACATGCTCTTCTGACATCAGACTCAAGGCGGGACAAGTTGCAAAGTGTGCAGCTGTAAGTCTCACGCCAAAA
TGGCTGATGGGGAGGCTGCTGCTTTCAGGGGCCCCGTGCTTGTAATAACCTTCCAGGAAGAGGCACATTGCCCA
CCTTTGAAAAGGGAGGAATATGCCTTCTCCTTGGTTGTTCCACAGAGTTTTAGGAAATCTGTTAGGGATGGGTA
GATGTCAAACCTGCCTTACGCAGTCATACTGATCTTTAGCCATCAGATTGATCTTCTTACACCAAGCTCTGTTTA
CATTCCGAGAGGTGTCATGAAGAAAGTTCTGTTCAATAAGGTTTTGGAATGTTTC

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FIGURE 6016

MSRSYNDELQFLEKINKNCWRIKKGFVPMQVEGVFYVNDALEKLMFEELRNACRGGGVGGFLPAMKQIGNVAAL
PGIVHRSIGLPDVHSGYGFAIGNMAAFDMNDPEAVVSPGGVGFDINCGVRLLRNLDESDVQPVKEQLAQAMFDH
IPVGVGSKGVIPMNAKDLEEALEMVDWLSLREGYAWAEDKEHCEEYGRMLQADPNKVSARAKKRGLPQLGTLGAG
NHYAEIQVVDEIFNEYAAKMGIDHKGQVCVMHSGSRGLGHQVATDALVAMEKAMKRDKIIVNDRQLACARIAS
PEGQDYLGMAAAGNYAWVNRSSMTFLTRQAFKVFNTTPDDLDLHVIYDVSHNIAKVEQHVVVDGKERTLLVHRK
GSTRAFPPHHPLIAVDYQLTGQPVLIIGGTMGTCYVLTGTETQGMTETFGTTCHGAGRALSRAKSRRNLDFQDVLD
KLADMGIAIRVASPKLVMEEAPESYKNVTDVVNTCHDAGISKKAIKLRPIAVIKG

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FIGURE 6017

CCCCGAGAGGCCCGGTTTCCTTTAGGCCGCCTGCCCGCCTCCAGCTCTCGGGGTGCGCTCTAGGAGGCGCCCTCAG
GAGAGGGGCGGGCGCTCTATTCCAGAGACCGAGTGGCAGGGCGGCCACTGTGGCGGGGCTCTTCCCGTTTCGC
CTCAGCTACCCCTCAGCTCCGGTAGTCGCCAGTCCGGGGTTCGTGCGCGTTTGGGGCGGGAGCTGCTCGGCCCCGC
CGCCGTCCCGTCGCCGCTTCCGGGTCCAGGCCCTCGGGCCGCTGCCGCCGTCATGAGGCTGCGGGTGC GGCT
TCTGAAGCGGACCTGGCCGCTGGAGGTGCCCGAGACGGAGCCGACGCTGGGGCATTGTCGCTCGCACCTGAGGCA
GTCCCTGCTGTGCACCTGGGGGTACAGTTCTAATACCCGATTTACAATTACATTGAACTACAAGGATCCCCCTCAC
TGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTTCTGGGGACTTGATATGTTTGATTCTTCAAGATGACAT
TCCAGCGCCTAATATACCTTCATCCACAGATTGAGAGCATTCTTCACTCCAGAATAATGAGCAACCCTCTTTGGC
CACCAGCTCCAATCAGACTAGCATAACAGGATGAACAACCAAGTGATTCAATCCAAGGACAGGCAGCCCAGTCTGG
TGTTTGGAATGACGACAGTATGTTAGGGCCTAGTCAAAATTTTGAAGCTGAGTCAATTCAAGATAATGCGCATAT
GGCAGAGGGCACAGGTTTCTATCCCTCAGAACCCATGCTCTGTAGTGAATCGGTGGAAGGGCAAGTGCCACATTC
ATTAGAGACCTTGTATCAATCAGCTGACTGTTCTGATGCCAATGATGCCTTGATAGTGTGATACATCTTCTCAT
GTTGGAGTCAGGTTACATACCTCAGGGCACCGAAGCCAAAGCACTGTCCATGCCGGAGAAGTGGAAGTTGAGCGG
GGTGTATAAGCTGCAGTACATGCATCCTCTCTGCGAGGGCAGCTCCGCTACTCTCACCTGTGTGCCTTTGGGAAA
CCTGATTGTTGTAAATGCTACACTAAAAATCAACAATGAGATTAGAAGTGTGAAAAGATTGCAGCTGCTACCAGA
ATCTTTTATTTGCAAAGAGAAACTAGGGGAAAATGTAGCCAACATATACAAAGATCTTCAGAAACTCTCTCGCCT
CTTTAAAGACCAGCTGGTGTATCCTCTTTTGGCTTTTACCCGACAAGCACTGAACCTACCAGATGTATTTGGGTT
GGTCGTCTCCCATTTGGAAGTGAAGTACGGATCTTCCGACTTCTGGATGTTTCGTTCCGTCTTGTCTTTGTCTGC
GGTTTGTGCTGACCTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTTATATCTGCGTGATTTTCGAGA
CAATACTGTGAGAGTTCAAGACACAGATTGGAAAGAACTGTACAGGAAGAGGCACATACAAAGAAAAGAATCCCC
GAAAGGGCGGTTTGTGATGCTCCTGCCATCGTCAACTCACACCATTCCATTCTATCCCAACCCCTTGCACCCTAG
GCCATTTCCCTAGCTCCCGCCTTCCCTCCAGGAATTATCGGGGGTGAATATGACCAAAGACCAACACTTCCCTATGT
TGGAGACCCAATCAGTTCATCTCATTCCCTGGTCCTGGGGAGACGCCCAGCCAGTTTCCCTCCACTGAGACCACGCTT
TGATCCAGTTGGCCCACTTCCAGGACCTAACCCCATCTTGCCAGGGCGAGGCGGCCCAATGACAGATTTCCCTT
TAGACCCAGCAGGGGTCGGCCAACCTGATGGCCGCTGTCAATTCATGTGATTGATTGTTGTAATTTCAATTTCTGGAGC
TCCATTTGTTTTTGTCTTAACTACAGATGTCAACTCCTTGGGGTGCTGATCTCGAGTGTTATTTTCTGATTGT
GGTGTGAGAGTTGCACTCCAGAAACCTTTTAAGAGATACATTTATAGCCCTAGGGGTGGTATGACCCAAAGGT
TCCTCTGTGACAAGGTTGGCCTTGGGAATAGTTGGCTGCCAATCTCCCTGCTCTTGGTTCTCCTCTAGATTGAAG
TTTGTCTTCTGATGCTGTTCTTACCAGATTAAAAAAAAGTGTAATTAATAAAAAAAAAAAAAAAAAA

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FIGURE 6018

MRLRVRLKRTWPLEVPEPETLGLHLSHLRQSLCTWGYSSNTRFTITLNYKDPLTGDEETLASYGIVSGDLIC
LILQDDIPAPNIPSSTDSEHSSLQNEQPSLATSSNQTISIQDEQPSDSFQGGAAQSGVWNDDSM LGPSQNFEAES
IQDNAHMAEGTGFPSEPMLCSESVEGQVPHSLETLYQSADCS DANDALIVLIHLLMLES GYIPQGTEAKALSMP
EKWKLSGVYKLQYMHPLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLLPESFICKEKLGENVANIYKD
LQKLSRLFKDQLVYPLLAFTROALNLPDVFGLVVLPLELKLRIFRLLDVRSVLSLSAVCRDLFTASNDPLLWRFL
YLRDFRDNTVRVQD TDWKELYRKRHIQRKESPKGRFVMLLPSSHTIPFY PNPLHPRFPSSRLPPGIIGGEYDQ
RPTLPYVGDPISSLIPGPGETPSQFPPLRPRFDPVGPLPGPNPILPGRGGPNDRFFFRPSRGRPTDGRLSFM

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FIGURE 6019A

CTTGCCCCAGAGCTGATCCTTGTCTTTGTCCACTTCTCAGCGAGGATGGCACTTCAGGGAGCCCTTCCCTTACTA
TCGCAGAGAGAGCAGGCCCTCCCCAGTCATGTCCAACCCAGAACTCTGTTTTGTTTTCTTCATAGCCCTAGCATC
ACAGAAAATCACCTGTGCATTTCATGGATGTCCACGGGGGCAAGGGCTTTGTGTTGCTTAACCCAGCATCCTGAA
CCGTGTTTTGTTGAATGAATACAGAACCCCGTTTGCTCTGGGAGAGCACAGAAAACAGTCTTCTATCATATATCAT
AGCCAGCTGCAAACAGCAGATGGCTTCCCATATCCCAGAGAGTAAGAACCAGAGAGAGAGAGAAAAGAGAGAGAGT
TTGGGTCTTTCTCCTCTGTGCCTGCTCTCTCCAGAGAACTGGAGGGGTAGCAGTTAGCATTCCCCCGCTGGTTC
CACCAAGCACAGTCAAGGTCTCTAGGACATGGCCACCCCTCACCTGTGGAAGCGGTCTGCTGGGGTGGGTGGGT
GTTAGTTGGTTCTGGTTTGGGTCAGAGACACCCAGTGGCCCAGGTGGGCGTGGGGCCAGGGCGCAGACGAGAAGG
GGCACGAGGGCTCCGCTCCGAGGACCCAGCGGCAAGCACCGGTCCCGGGCGCGCCCCAGCCACCCACTCGCGTG
CCCACGGCGGCATTATTCCCTATAAGGATCTGAACGATCCGGGGGCGGCCCCGCCCCGTTACCCCTTGCCCCGG
CCCCGCCCCCTTTTTGGAGGGCCGATGAGGTAATGCGGCTCTGCCATTGGTCTGAGGGGGCGGGCCCCAACAGCC
CGAGGCGGGGTCCCCGGGGGCCAGCGCTATATCACTCGGCCGCCAGGCAGCGGCGCAGAGCGGGCAGCAGGCA
GGCGGCGGGCGCTCAGACGGCTTCTCCTCCTCCTTGTCTCCTCCAGCTCCTGCTCCTTCGCCGGGAGGCCGCC
GCCGAGTCTTGCGCCAGCGCCGAGGCAGCCTCGCTGCGCCCCATCCCGTCCCGCCGGGCACTCGGAGGGCAGCGC
GCCGGAGGCCAAGGTTGCCCCGCACGGCCCCGGCGGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGGCGCG
CACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGCGGCAGCAGCGGCAATGACCCCTTGGCTCGGGCT
CATCGTGCTCCTGGGCAGCTGGAGCCTGGGGGACTGGGGCGCCGAGGCGTGACATGCTCGCCCAGCCACCCCCA
GGACGCCTTCTGCAACTCCGACATCGTGATCCGGGCCAAGGTGGTGGGGAAGAAGCTGGTAAAGGAGGGGCCCTT
CGGCACGCTGGTCTACACCATCAAGCAGATGAAGATGTACCGAGGCTTCACCAAGATGCCCCATGTGCAGTACAT
CCATACGGAAGCTTCCGAGAGTCTCTGTGGCCTTAAGCTGGAGGTCAACAAGTACCAGTACCTGCTGACAGGTGCG
CGTCTATGATGGCAAGATGTACACGGGGCTGTGCAACTTCGTGGAGAGGTGGGACCAGCTCACCCCTCTCCAGCG
CAAGGGGCTGAACTATCGGTATCACCTGGGTTGTAAGTCAAGTCAAGTCTGCTACTACCTGCCTTGCTTTGT
GACTTCCAAGAACGAGTGTCTCTGGACCGACATGCTCTCCAATTTGCGTTACCCCTGGCTACCAGTCCAAACACTA
CGCTTGCATCCGGCAGAAGGGCGGCTACTGCAGCTGGTACCGAGGATGGGCCCCCCCCGATAAAAGCATCATCAA
TGCCACAGACCCCTGAGCGCCAGACCCCTGCCCCACCTCACTTCCCTCCCTTCCCGCTGAGCTTCCCTTGGACACT
AACTCTTCCCAGATGATGACAATGAAATTAGTGCCTGTTTTCTTGCAATTTAGCACTTGGAACATTTAAAGAAA
GGTCTATGCTGTATATGGGGTTTATTGGGAAGTATCCTCCTGGCCCCACCCCTGCCCTTCTTTTTGGTTTTGAC
ATCATTCAATTTCCACCTGGGAATTTCTGGTGCCATGCCAGAAAGAATGAGGAACCTGTATTCTCTCTCTCGTGA
TAATATAATCTCTATTTTTTTAGGAAAACAAAAATGAAAACTACTCCATTTGAGGATTGTAATTCCCACCCCTC
TTGCTTCTTCCCCACCTACCATCTCCCAGACCCCTTCCCTTTGCCCTTCTCCTCCAATACATAAAGGACACAG
ACAAGGAACCTTGCTGAAAGGCCAACCATTTCAGGATCAGTCAAAGGCAGCAAGCAGATAGACTCAAGGTGTGTGA
AAGATGTTATACACCAGGAGCTGCCACTGCATGTCCCAACCAGACTGTGTCTGTCTGTGTCTGCATGTAAGAGTG
AGGGAGGGAAGGAAGGAAGTACAAGAGAGTGGAGATGATGCAGCACACACACAATTTCCCAGCCCAGTGATGCT
TGTGTTGACCAGATGTTCTGAGTCTGGAGCAAGCACCCAGGCCAGAATAACAGAGCTTCTTAGTTGGTGAAGA
CTTAAACATCTGCCTGAGGTCAGGAGGCAATTTGCCTGCCTTGTACAAAAGCTCAGGTGAAAGACTGAGATGAAT
GTCTTTCCTCTCCCTGCCTCCCACCAGACTTCTCCTGGAACCGCTTTGGTAGATTGGCCAGGAGCTTCTTTT
TATGTAAATTGGATAAATACACACACCATACTATCCACAGATATAGCCAAGTAGATTGGGTAGAGGATACTA
TTTCCAGAATAGTGTTTAGCTCACCTAGGGGGATAGTTTGTATACACATTTGCATATACCCACATGGGGACATA
AGCTAATTTTTTTTACAGGACACAGAATCTGTTCAATGCTGTTAAATATGCCAATAGTTTAATCTCTTCTATTTT
GTTGTCGTTGCTTGTGTTGAAGAAAATCATGACATTCCAAGTTGACATTTTTTTTTTTCATTTTAATTAATTTGAA
ATTCTGAACACCGTCAAGCACCCCTCTCTCCCTATCATGGGTCTATGACCCCTGTCCGCTCCTTGTCCCTGCTT
CATGTTTGGGGGCCCTTTCTTTAACTGCCTTCCTGGCTTAGCTCAGATGGCAGATGAGAGTGTAGTCAAGGGCCTG
GGCACAGGAGGGAGAGCTGCAGAGTGTCTGCCTGCCTTGGCTGGAGGGACACCTCTCCTGGGTGTGGAGACAGC
TTGGTTCCCTTTCCCTAGCTCCCTGGTGGGTGAATGCCACCTCCTGAGATCCTCACCTCTTGGAAATTAATTTGT
TGGTCACTGGGGAAAGCCTGAGTTTGCAACCAGTTGTAGGGTTCTGTTGTGTTTTTTTTTTTTTTTTTGAATA
AACTATAATATAAATTTCTCCTATTAAATAAAATTATTTTAAGTTTGTAGTGTCAAAGTGAGATGCTGAGAGTAG
GTGATAATGTATATTTTACAGAGTGGGGGTTGGCAGGATGGTGACATTGAACATGATTGCTCTCTGTCTCTTTTT
TCAGCTTATGGGTATTTATCTTCTATTAGTATTTGTATCTTCAGTTTCATTCCACTTTAGGAAACAGAGCTGCCAA

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FIGURE 6019B

TTGAAACAGAAGAAGAAAAAAAAAAAAAGCAGCAGACAACACACTGTAGAGTCTTGACACACACAAGTGCCAG
GCAAGGTGCTTGGCAGAACCGCAGAGTGGGAAGAGAGTACCGGCATCGGGTTTCCTTGGGATCAATTTCAATTACC
GTGTACCTTTCCCATTTGTGGTCATGCCATTTGGCAGGGGGAGAATGGGAGGCTTGGCCTTCTTTGTGAGGCAGTG
TGAGCAGAAGCTGATGCCAGCATGTCACTGGTTTTGAAGGGATGAGCCCAGACTTGATGTTTTTGGGATTGTCCTT
ATTTTAACCTCAAGGTCTCGCATGGTGGGGCCCCGACCAACCTACACAAGTTCCCTCCCACAAGTGGACATCAG
TGTCTTCTCTGTGAGGCATCTGGCCATTGCACTCCCTGGTGTGGTCAGCCTCTCTCACACAAGGAGGAACCTGG
GTGAAGGCTGAGTGTGAGGCACCTGAAGTTTCCCTGCGGAGTCGATAAATTAGCAGAACCACATCCCCATCTGTT
AGGCCTTGGTGAGGAGGCCCTGGGCAAAGAAGGGTCTTTCGCAAAGCGATGTCAGAGGGCGGTTTTGAGCTTTCT
ATAAGCTATAGCTTTGTTTATTTACCCGTTCACTTACTGTATAATTTAAAATCATTATGTAGCTGAGACACTT
CTGTATTTCAATCATATCATGAACATTTTATTTTGCTAAATCTTGTGTCATGTGTAGGCTGTAATATGTGTACAT
TGTGTTTTAAGAGAAAAATGAAACCCACATGCCGCCATTTTCCTGAATCAAATTTCTGCAGTGGAATGGAGAGGAAA
ATACTTCTAGGCAAGCAGCTAGACTGGTGAATTGGGGGAAATAGAAGGAAGTAGTAAGTGAAGTCTCTCCAGCCT
CCTCCCTATTGGAATCCCAATGGCTCCTGGAGTAGGAAAAAAGTTTAAACTACATTATGTTCTTGTCTGTGTC
ACTCGGCCCTGGGTAGTCTACCATTTACTTCACCCCAAGTCCCTGCTGCCCATCCAGTTGGGAAGCCATGATTTTC
CTAAGAATCCAGGGCCATGGGAGATACAATTCCAAGTTCTCGCTTCCTCCTTTGGGCATCTCTTCTGCCTCCCAA
TCAAGGAAGCTCCATGCTCAGGCTCTCAGCTCTCGGGCCAGTGCTCTGCTCTGTCCAGGGTAGGTAATACTGGGA
GACTCCTGTCTTTTACCCTCCCCTCGTTCCAGACCTGCCTCATGGTGGCAACATGGTTCTTGAACAATTAAAGAA
ACAAATGACTTTTTTGAATAGCCCTGTCTAGGGCAAAGTGTGGCCCCCAGGAGACACTACCCTTCCATGCCCCAG
ACCTCTGTCTTGCATGTGACAATTGACAATCTGGACTACCCCAAGATGGCACCCCAAGTGTGTTGGCTTCTGGCTAC
CTAAGGTTAACATGTCACTAGAGTATTTTTATGAGAGACAAACATTATAAAAATCTGATGGCAAAAAGCAAAACAA
AATGGAAAGTAGGGGAGGTGGATGTGACAACAACCTTCCAAATTGGCTCTTTGGAGGCGAGAGGAAGGGGAGAAGT
TGGAGAATAGTTTTTTGCTTTGGGGGTAGAGGCTTCTTAGATTCTCCCAGCATCCGCCTTTCCCTTTAGCCAGTCT
GCTGTCTTGAAACCCAGAAGTATGGAGAGAAACCAACAAGAGATCTCGAACCTGTCTAGAAGGAATGTATTTG
TTGCTAAATTTCTAGCACTGTTTACAGTTTTTCTCCATGTTATTTATGAATTTTATATTCCGTGAATGTATATT
GTCTTGTAATGTTGCATAATGTTCACTTTTTTATAGTGTGTCCTTTATTCTAAACAGTAAAGTGGTTTTTATTCTA
TCAC

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FIGURE 6020

TCAACGCCTGCCTCCCCTCGAGCGTCCTCAGCGCAGCCGCCGCCGCGGAGCCAGCACGAACGAGCCCAGCACCG
GCCGGATGGAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTCAGAGGCCCTGAAGGAGGCCACCAAGGAGG
TGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACTTTCAGAAGGGCCAGGTGACCCGAGACGGCTTCAAGC
TGGTGATGGCCTCCCTGTACCACATCTATGTGGCCCTGGAGGAGGAGATTGAGCGCAACAAGGAGAGCCCAGTCT
TCGCCCCCTGTCTACTTTCCAGAAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGGC
CCCGCTGGCAGGAGGTTCATCCCCTACACACCAGCCATGCAGCGCTATGTGAAGCGGCTCCACGAGGTGGGGCGCA
CAGAGCCCAGCTGCTGGTGGCCCCACGCCTACACCCGCTACCTGGGTGACCTGTCTGGGGGCCAGGTGCTCAAAA
AGATTGCCCAGAAAGCCCTGGACCTGCCCAGTCTTGCGCAGGGCCCTGGCCTTCTTCACCTTCCCCAACATTGCCA
GTGCCACCAAGTTCAAGCAGCTCTACCGCTCCCGCATGAACTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGGG
TGATAGAAGAGGCCAAGACTGCGTTCTTGCTCAACATCCAGCTCTTTGAGGAGTTGCAGGAGCTGCTGACCCATG
ACACCAAGGACCAGAGCCCCCTCACGGGCACCAGGGCTTCGCCAGCGGGCCAGCAACAAAGTGCAAGATTCTGCCC
CCGTGGAGACTCCCAGAGGGAAGCCCCCACTCAACACCCGCTCCCAGGCTCCGCTTCTCCGATGGGTCTTACAC
TCAGCTTTCTGGTGGCGACAGTTGCTGTAGGGCTTTATGCCATGTGAATGCAGGCATGCTGGCTCCAGGGCCAT
GAACTTTGTCCGGTGAAGGCCTTCTTTCTAGAGAGGGAATTCTCTTGGCTGGCTTCCTTACCGTGGGCACTGAA
GGCTTTCAGGGCCTCCAGCCCTCTCACTGTGTCCCTCTCTCTGGAAAGGAGGAAGGAGCCTATGGCATCTTCCCC
AACGAAAAGCACATCCAGGCAATGGCCTAAACTTCAGAGGGGGCGAAGGGGTCAGCCCTGCCCTTCAGCATCCTC
AGTTCCTGCAGCAGAGCCTGGAAGACACCCTAATGTGGCAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAAG
TATCCTTGTTGACACGGCCATGACCACTTTCCCCGTGGGCCATGGCAATTTTTACACAAACCTGAAAAGATGTTG
TGTCTTGTTGTTTTTGTCTTATTTTTGTGGAGCCACTCTGTTCTGGCTCAGCCTCAAATGCAGTATTTTTGTTG
TGTCTGTTGTTTTTATAGCAGGGTTGGGGTGGTTTTTGTAGCCATGCGTGGGTGGGGAGGGAGGTGTTTAACGGC
ACTGTGGCCTTGGTCTAACTTTTGTGTGAAATAATAACAACATTGTCTG

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FIGURE 6021

MERPQPD SMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKESPVFA
PVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLSGGQVLKKI
AQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMTPAVRQRVIEEAKTAFLLNIQLFEELQELLTHDT
KDQSPSRAPGLRQRASNKVQDSAPVETPRGKPPLNTRSQA PLLRWVLTLSFLVATVAVGLYAM

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FIGURE 6022

TTTTCCCGCGAAACTCGGGCGCTGAGCGTGGAGGTTCTTGTCTCCCCTGGTTTGTGAAGTGCGGAAAACCAGAGG
CGCAGTCATGTCGGGATTTCGACGATCCTGGCATTCTTCTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGA
GGGGCAGGCCCCGAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTCTGCGGCAGTACCGAGTGGGCACCGACCG
CACGGGCTTCACCTTCAAATACAGGGATGAACTCAAGCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGA
GATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGCCGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCT
GCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGTGACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGA
CATCCAGGTTCATGCTCAAGTCGGACGCCAGCCCTTCCAGCATTTCGTAGCCTGAAGTCGGACATGATGTCACACCT
GGTGAAGATCCCTGGCATCATCATCGCGGCCTCTGCGGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCG
CAGCTGCCGCAACACCCTCACCAACATTGCCATGCGCCCTGGCCTCGAGGGCTATGCCCTGCCCAGGAAGTGCAA
CACAGATCAGGCTGGGCGCCCCAAATGCCATTGGACCCGTACTTCATCATGCCCCAGCAAATGCAAATGCGTGGA
CTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGCAGTCCCCACGGGGAGATGCCCAGACACATGCAGCTCTA
CTGCGACAGGTACCTGTGTGACAAGGTCGTCCCTGGGAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAA
GTTTGGCCTGACTACCAGCAGGGGGCCGTGACAGGGTGGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTCTGGG
CATCCAGGTGGACACAGATGGCTCTGGCCGCAGCTTTGCTGGGGCCGTGAGCCCCCAGGAGGAGGAGGAGTTCCG
TCGCCTGGCTGCCCTCCCAAATGTCTATGAGGTTCATCTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGA
CATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGGCTCCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGG
AGACATCAACCTGCTGATGCTAGGGGACCCTGGGACAGCCAAGTCCCAGCTTCTGAAGTTTGTGGAGAAGTGTTT
TCCCATTGGGGTATACACGTCTGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCCTC
GTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGTCCTGGCCGATGGTGGGGTCTGTCTGTATTGACGAGTTTGA
CAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGG
GATCACCACCACCCTGAACTCCCGCTGCTCCGTCTCTGGCTGCTGCCAACTCAGTGTTTCGGCCGCTGGGATGAGAC
GAAGGGGGAGGACAACATTGACTTTCATGCCCACCATCTTGTGCGGCTTCGACATGATCTTCATCGTCAAGGATGA
GCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCATGTTCATCACTCTGCACGTGAGCGCACTGACACAGACACA
GGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTACTGCCGAGTGAAGTGTGGCCCCCG
GCTGTGACGAGAGGCTGCAGAGAACTGAAGAACCGCTACATCATCATGCGGAGCGGGGCCCGTCAGCACGAGAG
GGACAGTGACCGCCGCTCCAGCATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCT
CAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCAC
GTTGGATGCTGCCTTGTCCGGTACCCTGTGAGGGGTGGAGGGCTTCACCAGCCAGGAGGACCAGGAGATGCTGAG
CCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCATTGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTT
CACCAAACAGAAATACCCGGAGCACGCCATCCACAAGGTGCTGCAGCTCATGCTGCGGCGCGGCGAGATCCAGCA
TCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAGTGAAGTTCGCGCCGCCTCACTGGACTCATGGACTCGCCACGC
CTCGCCCCCTCCTGCCGCTGCCATTGACAATGTTGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTT
CCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGCTGTAGTGTCTGCTGCCTCTGGGCGCCCGCCTCTAGCGC
GGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAATAAAGCCACGGTGTGTTACGGT

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FIGURE 6023

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPLDPYFIMPDKCKCVDFQ
TLKLQELPDVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFGGTDMKKAIACLLFGGSRKRLPDGLTRRGI
NLLMLGDPGTAKSQLLKVFVEKCSPIGVYTSKGKSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAKAGITTTLNSRCSVLAAANSVFGRWDETKGEDNIDFMPITILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSRI
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAIHKVLQLMLRRGEIQHRMQRKVLYRLK

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FIGURE 6024

GAGGTGCTGGGGAGCAGCGTGTGCTGTGCTTGATTGTGAGCTGCTGGGAAGTTGTGACTTTCATTTTACCTTT
CGAATTCCTGGGTATATCTTGGGGGCTGGAGGACGTGTCTGGTTATTATATAGGTGCACAGCTGGAGGTGAGATC
CACACAGCTCAGACCAGCTGGATCTTGCTCAGTCTCTGTCTCAGAGGAAGATCCCTTGGAGGAGGCCCCGCAGCGAC
ATGGAGGGAGCTGCTTTGCTGAAAATCTTTGTCGTCTGCATCTGGGTGCAGCAAAACCATCCAGGCTGGACAGTG
GCTGGACAGTTCCAAGAAAAGAAACGCTTCACTGAAGAAGTCATTGAATACTTCCAGAAGAAAGTTAGCCCAGTG
CATCTGAAAATCCTGCTGACTAGCGATGAAGCCTGGAAGAGATTTGTGCGTGTGGCTGAATTGCCAGGGAAGAG
GCAGATGCTCTCTATGAAGCTCTGAAGAATCTTACCCATATGTGGCTATTGAGGACAAAGACATGCAGCAAAAA
GAACAGCAGTTTAGGGAGTGGTTTTTGAAGTTTCCCTCAAATCAGATGGAAGATTGAGGAGTCCATAGAAAGGCT
TCGTGTCATTGCAAATGAGATTGAAAAGGTCCACAGAGGCTGCGTCATCGCCAATGTGGTGTCTGGCTCCACTGG
CATCCTGTCTGTCTATTGGCGTTATGTTGGCACCATTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGGT
AGGGCTGGGAATAGCATCTGCCACGGCTGGGATCGCCTCCAGCATCGTGGAGAACACATACACAAGGTCAGCAGA
ACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTGGAGGCATTAAGGGACATTCTGCGTGACATCAC
ACCCAATGTGCTTTCTTTTGCACCTTGATTTTTCGCGAAGCCACAAAAATGATTGCGAATGATGTCCATACACTCAG
GAGATCTAAAGCCACTGTTGGACGCCCTTTGATTGCTTGGCGATATGTACCTATAAATGTTGTTGAGACACTGAG
AACACGTGGGGCCCCCACC CGGATAGTGAGAAAAAGTAGCCCGAACCTGGGCAAGGCCACTTCAGGTGTCCTTGT
TGTGCTGGATGTAGTCAACCTTGTGCAAGACTCACTGGACTTGACACAAGGGGGCAAAATCCGAGTCTGCTGAGTC
GCTGAGGCAGTGGGCTCAGGAGCTGGAGGAGAATCTCAATGAGCTCACCCATATCCATCAGAGTCTAAAAGCAGG
CTAGGCCCAATTGTTGCGGGAAGTCAGGGACCCCAAACGGAGGGACTGGCTGAAGCCATGGCAGAAGAAGCTGGA
TTGTGAAGATTTTCATGGACATTTATTAGTTCCCCAAATTAATACTTTTATAATTTCCCTATGCCTGTCTTTACCGC
AATCTCTAAACACAAATTGTGAAGATTTTCATGGACACTGATCACTTCCCAATCAATACCCTTGTGATTTCTTAT
GCCTGTCTTTACTTTAATCTCCTAATCCTGTCTGAGCTGAGGAGGATGTATGTCACCTCAGGACCATGTGATAATTG
CGTTAACTGCACAAATTGTAGAGCATGTGTGTTGAACAATATGAAATCTGGGCACCTTGAAAAAGAACAGGAT
AACAGCAATTGTTTCAGGGAATAAGAGAGATAACCTTAACTCTGACCAACAGTGAGCCTGGTGGAAACAGAGTCAT
ATTTCTCTCTTTTCAAAGCAAATGGGAGAAATATCGCTGAATTCCTTTTCTCAGCAAGGAACATCCCTGAGAAA
GAGAATGCACCCCTGAGGGTGGGTCTATAAATGGCCTCCTTGGGTGTGGCCATCTTCTATGGTCGAGACTGTAGG
GATGAAATAAACCCAGTCTCCCATAGCGCTCCAGGCTTATTAGGAAGAGGAAATTCCTGCCTAATAAATTTTG
GTCAGACCGGTTGCTCTCAAACCCCTGTCTCCTGATAAGATGTTATCAATGACAATGGTGCCCGAAACCTCATT
GCAATTTTAAATTTCTCCCGGTCTGTGTTCTGTGATCTCGCCCTGCCTCCACTTGCCTTGTGATATTCTATTA
CCTTGTGAAGTAGGTGATCTTTGTGACCCACACCCACACCCATTTCATACACTCCCTCCCTTTTGAAAGTCCCT
AATAAAAACTTGCTGGTTTTGCGGCTTGTGAGGCATCACGGAACCTACCGATGTGTGATGTCTCCCTGGACACC
TAGCTTTAAAATTTCTCTCTTTTGTACTCTGTGCCTTTATTTCTCAAACCGGCCAACACTTAGGGAAAAATAGAAA
AGAACCTACGTGACCATCGGGGACAGGTTCCCCGATACCCAATGACCCAGAGCAGTGACGCCACCAGGGGAAGGTG
AGCCAGACACAGGCCGGGACAAAACGCAGACATTTTTTAGGGGAATAAAGAGGGCGAGGTAAAGTTTATGGAAC
CAGTGTTAGGAACCTTGGCATCTGTAGCTGAGCACAGCAGGGGAGGGGTTACTCAAGATGGCAAGTGCGCCAAGG
AGAAGGCAGAAATGCTGGGGCCTGGAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGAAAGAAGCAGT
TTACTCTAGACTAAAGAGTATATTGGGGGAGGAAGAGAGGGAGGCACGTAGGAACAAGCAATGAGAAGACCAGGA
AAAGAAAAGAGCTGAAAATGGAGAAAGCCACAGTTAGAAGCTTGGATACAGGAGAAGAAACAGCGGCTCCACTAA
AGACCCGCCCCCGGTTGGATGTCCTTCCAAGAATGGAATCCTTCCCTGGTGATGGTCTCTCACCCTGTCTTACC
AGCATCCACTCTCCCTTGTCTCCCGGGGGTGTATCTGAGTCAGCCAGTGGCTTCTTGATGATGGTGGTGGTGGT
TGTAAGTGTGACAGGTCCCTTTAGGTTATTTAAGGGTGCATGTCCCTGCTTGAACCTGAAGGCCGGGTAATGA
GCCATTTCCATGGTGCCAGCTGAGGACCAGGTGTCTCTGAGAATCCAAACATCCTGGAGAGTATCTGAGAACCA
ACCAAGTAAAAGTCTCGTTGCTCATATATAGTAGACAAAGAGCCAGAAAATTAAGTAAAAGCAGTTTAGACATT
GGGGGAGGCTGGATCTCTCGAGCTGTCTTGCTGAGTGCCCTGTGTGTAAGTCCTAATAAACTTAGCTACTCGCCA

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FIGURE 6025A

ATGGCACAGCAAGCTGCCGATAAGTATCTCTATGTGGATAAAAACTTCATCAACAATCCGCTGGCCCAGGCCGAC
TGGGCTGCCAAGAAGCTGGTATGGGTGCCTTCCGACAAGAGTGGCTTTGAGCCAGCCAGCCTCAAGGAGGAGGTG
GGCGAAGAGGCCATCGTGGAGCTGGTGGAGAATGGGAAGAAGGTGAAGGTGAACAAGGATGACATCCAGAAGATG
AACCCGCCCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACGAAGCCTCGGTGCTGCACAAC
CTCAAGGAGCGTTACTACTCAGGGCTCATCTACACCTATTTCAGGCCTGTTCTGTGTGGTCATCAATCCTTACAAG
AACCTGCCCATCTACTCTGAAGAGATTGTGGAAATGTACAAGGGCAAGAAGAGGCACGAGATGCCCCCTCACATC
TATGCCATCACAGACACCGCCTACAGGAGTATGATGCAAGACCGAGAAGATCAATCCATCTTGTGCACTGGTGAA
TCTGGAGCTGGCAAGACGGGAGAACACCAAGAAGGTTCATCCAGTATCTGGCGTACGTGGCGTCTCTGCACAAGAGC
AAGAAGGACCAGGGCGAGCTGGAGCGGCAGCTGCTGCAGGCCAACCCCATCCTGGAGGCCTTCGGGAACGCCAAG
ACCGTGAAGAATGACAACCTCTCCCGCTTCGGCAAATTCATTTCGCATCAACTTTGATGTCAATGGCTACATTGTT
GGAGCCAACATTGAGACTTATCTTTTGGAGAAATCTCGTGCTATCCGCCAAGCCAAGGAAGAACGGACCTTCCAC
ATCTTCTATTATCTCTGTCTGGGGCTGGAGAGCACCTGAAGACCGATCTCCTGTTGGAGCCGTACAACAAATAC
CGCTTCCTGTCCAATGGACACGTACCATCCCCGGGCAGCAGGACAAGGACATGTTCCAGGAGACCATGGAGGCC
ATGAGGATTATGGGCATCCAGAAGAGGAGCAAATGGGCCTGCTGCGGGTCATCTCAGGGGTTCTTCAGCTCGGC
AACATCGTCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCCGACAACACAGCTGCCAAAAGGTGTCC
CATCTCTTGGGTATCAATGTGACCGATTTACACAGAGGAATCCTCACCCCGCGCATCAAGGTGGGACGGGATTAC
GTCCAGAAGGCGCAGACTAAAGAGCAGGCTGACTTTGCCATCGAGGCCTTGGCCAAGGCGACCTATGAGCGGATG
TTCCGCTGGCTGGTGTGCGCATCAACAAGGCTCTGGACAAGACCAAGAGGCAGGGCGCCTCCTTCATCGGGATC
CTGGACATTGCCGGCTTCGAGATCTTTGATCTGAACTCGTTTGAGCAGCTGTGCATCAATTACACCAATGAGAAG
CTGCAGCAGCTCTTCAACCACACCATGTTTCATCTGGAGCAGGAGGAGTACCAGCGCGAGGGCATCGAGTGGAAC
TTCATCGACTTTGGCCTCGACCTGCAGCCCTGCATCGACCTCATTGAGAAGCCAGCAGGCCCCCGGGCATTCTG
GCCCTGCTGGACGAGGAGTGCTGGTTCCCCAAAGCCACCGACAAGAGCTTCGTGGAGAAGGTGATGCAGGAGCAG
GGCACCACCCCAAGTTCCAGAAGCCCAAGCAGCTGAAGGACAAAGCTGATTTCTGCATTATCCACTATGCCGGC
AAGGTGGATTACAAAGCTGACGAGTGGCTGATGAAGAACATGGATCCCCTGAATGACAACATCGCCACACTGCTC
CACCAGTCTCTGACAAGTTTGTCTCGGAGCTGTGGAAGGATGTGGACCGCATCATCGGCCTGGACCAGGTGGCC
GGCATGTGGAGACCGCACTGCCCGGGGCTTCAAGACGCGGAAGGGCATGTTCCGCACTGTGGGGCAGCTTTAC
AAGGAGCAGCTGGCCAAGCTGATGGCTACGCTGAGGAACACGAACCCCAACTTTGTCCGCTGCATCATCCCCAAC
CACGAGAAGAAGGCCGGCAAGCTGGACCCGCATCTCGTGCTGGACCAGCTGCGCTGCAACGGTGTTCTCGAGGGC
ATCCGTATCTGCCGCCAGGGCTTCCCCAACAGGGTGGTCTTCCAGGAGTTTCGGCAGAGATATGAGATCCTGACT
CCAAACTCCATTCCCAAGGGTTTCATGGACGGGAAGCAGGCGTGCGTGCTCATGATAAAAGCCCTGGAGCTCGAC
AGCAATCTGTACCGCATTGGCCAGAGCAAAGTCTTCTTCCGTGCCGGTGTGCTGGCCACCTGGAGGAGGAGCGA
GACCTGAAGATCACCGACGTATCATAGGGTTCCAGGCCTGCTGCAGGGGCTACCTGGCCAGGAAAGCATTGTC
AAGCGGCAGCAGCAGCTTACCGCCATGAAGGTCTCCAGCGGAAGTGCCTGCTGCTACCTGAAGCTGCGGAAGTGG
CAGTGGTGGCGGCTCTTACCAAGGTCAAGCCGCTGCTGCAGGTGAGCCGGCAGGAGGAGGAGATGATGGCCAAG
GAGGAGGAGCTGGTGAAGGTGAGAGAGAAGCAGCTGGCTGCGGAGAACAGGCTCACGGAGATGGAGACGCTGCAG
TCTCAGCTCATGGCAGAGAAATTGCAGCTGCAGGAGCAGCTCCAGGCAGAAACCGAGCTGTGTGCCGAGGCTGAG
GAGCTCCGGGCCCCGCTGACCGCCAAGAAGCAGGAATTAGAAGAGATCTGCCATGACCTAGAGGCCAGGGTGGAG
GAGGAGGAGGAGCGCTGCCAGCACCTGCAGGCGGAGAAGAAGAAGATGCAGCAGAACATCCAGGAGCTTGAGGAG
CAGCTGGAGGAGGAGGAGAGCGCCCGGCAGAAGCTGCAGCTGGAGAAGGTGACCACCGAGGCGAAGCTGAAAAG
CTGGAGGAGGAGCAGATCATCTGGAGGACCAGAACTGCAAGCTGGCCAAGGAAAAGAACTGCTGGAAGACAGA
ATAGCTGAGTTCACCACCAACCTCACAGAAGAGGAGGAGAAATCTAAGAGCCTCGCCAAGCTCAAGAACAAGCAT
GAGGCAATGATCACTGACTTGGAAGAGCGCCTCCGCAGGGAGGAGAAGCAGCGACAGGAGCTGGAGAAGACCCGC
CGGAAGCTGGAGGGAGACTCCACAGACCTCAGCGACCAGATCGCCGAGCTCCAGGCCAGATCGCGGAGCTCAAG
ATGCAGCTGGCCAAGAAAGAGGAGGAGCTCCAGGCCGCCCTGGCCAGAGTGGAAGAGGAAGCTGCCCAGAAGAAC
ATGGCCCTCAAGAAGATCCGGGAGCTGGAATCTCAGATCTCTGAACTCCAGGAAGACCTGGAGTCTGAGCGTGCT
TCCAGGAATAAAGCTGAGAAGCAGAAACGGGACCTTGGGGAAGAGCTAGAGGCTCTGAAAACAGAGTTGGAGGAC
ACGCTGGATTCCACAGCTGCCCAGCAGGAGCTCAGGTCAAAACGTGAGCAGGAGGTGAACATCCTGAAGAAGACC
CTGGAGGAGGAGGCCAAGACCCACGAGGCCAGATCCAGGAGATGAGGCAGAAGCACTCACAGGCCGTGGAGGAG

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FIGURE 6025B

CTGGCGGAGCAGCTGGAGCAGACGAAGCGGGTGAAAGCAAACCTCGAGAAGGCAAAGCAGACTCTGGAGAACGAG
CGGGGGGAGCTGGCCAACGAGGTGAAGGTGCTGCTGCAGGGCAAAGGGGACTCGGAGCACAAGCGCAAGAAAGTG
GAGGCGCAGCTGCAGGAGCTGCAGGTCAAGTTCAACGAGGGAGAGCGCGTGCGCACAGAGCTGGCCGACAAGGTC
ACCAAGCTGCAGGTGGAGCTGGACAACGTGACCGGGCTTCTCAGCCAGTCCGACAGCAAGTCCAGCAAGCTCACC
AAGGACTTCTCCGCGCTGGAGTCCCAGCTGCAGGACACTCAGGAGCTGCTGCAGGAGGAGAACC GG CAGAAGCTG
AGCCTGAGCACCAAGCTCAAGCAGGTGGAGGACGAGAAGAATTCTTCCGGGAGCAGCTGGAGGAGGAGGAGGAG
GCCAAGCACAACCTGGAGAAGCAGATCGCCACCCTCCATGCCCAGGTGGCCGACATGAAAAAGAAGATGGAGGAC
AGTGTGGGGTGCTGGAAACTGCTGAGGAGGTGAAGAGGAAGCTCCAGAAGGACCTGGAGGGCCTGAGCCAGCGG
CACGAGGAGAAGGTGGCCGCCTACGACAAGCTGGAGAAGACCAAGACGCGGCTGCAGCAGGAGCTGGACGACCTG
CTGGTGGACCTGGACCACCAGCGCCAGAGCGCGTGCAACCTGGAGAAGAAGCAGAAGAAGTTTGACCAGCTCCTG
GCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGAGGCGGAGGCCCGAGAGAAGGAG
ACCAAGGCTCTGTGCTGGCCCGGGCCCTGGAGGAAGCCATGGAGCAGAAGGCGGAGCTGGAGCGGCTCAACAAG
CAGTTCCGCACGGAGATGGAGGACCTTATGAGCTCCAAGGATGATGTGGGCAAGAGTGTCCACGAGCTGGAGAAG
TCCAAGCGGGCCCTAGAGCAGCAGGTGGAGGAGATGAAGACGCAGCTGGAAGAGCTGGAGGACGAGCTGCAGGCC
ACCGAAGATGCCAAGCTGCGGTGGAGGTCAACCTGCAGGCCATGAAGGCCAGTTTCGAGCGGGACCTGCAGGGC
CGGGACGAGCAGAGCGAGGAGAAGAAGAAGCAGCTGGTCAGACAGGTGCGGGAGATGGAGGCAGAGCTGGAGGAC
GAGAGGAAGCAGCGCTCGATGGCAGTGGCCGCCCGGAAGAAGCTGGAGATGGACCTGAAGGACCTGGAGGCGCAC
ATCGACTCGGCCAACAAGAACC GGGACGAAGCCATCAAACAGCTGCGGAAGCTGCAGGCCCAGATGAAGGACTGC
ATGCGCGAGCTGGATGACACCCGCGCCTCTCGTGAGGAGATCCTGGCCCAGGCCAAAGAGAACGAGAAGAAGCTG
AAGAGCATGGAGGCCGAGATGATCCAGTTGCAGGAGGAAGTGGCAGCCGCGGAGCGTGCCAAGCGCCAGGCCCAG
CAGGAGCGGGATGAGCTGGCTGACGAGATCGCCAACAGCAGCGGCAAAGGAGCCCTGGCGTTAGAGGAGAAGCGG
CGTCTGGAGGCCCGCATCGCCCAGCTGGAGGAGGAGCTGGAGGAGGAGCAGGGCAACACGGAGCTGATCAACGAC
CGGCTGAAGAAGGCCAACCTGCAGATCGACCAGATCAACACCGACCTGAACCTGGAGCGCAGCCACGCCCAGAAG
AACGAGAATGCTCGGCAGCAGCTGGAACGCCAGAACAAGGAGCTTAAGGTCAAGCTGCAGGAGATGGAGGGCACT
GTCAAGTCCAAGTACAAGGCCTCCATCACCGCCCTCGAGGCCAAGATTGCACAGCTGGAGGAGCAGCTGGACAAC
GAGACCAAGGAGCGCCAGGCAGCCTGCAAACAGGTGCGTCGGACCGAGAAGAAGCTGAAGGATGTGCTGCTGCAG
GTGGATGACGAGCGGAGGAACGCCGAGCAGTACAAGGACCAGGCCGACAAGGCATCTACCCGCTGAAGCAGCTC
AAGCGGCAGCTGGAGGAGGCCGAAGAGGAGGCCAGCGGGCCAACGCCTCCCGCCGAAACTGCAGCGCGAGCTG
GAGGACGCCACTGAGACGGCCGATGCCATGAACCGCAAGTCAGCTCCCTAAAGAACAAGCTCAGGCGCGGGGAC
CTGCCGTTTGTGCTGCCCCGCCGAATGGCCCGGAAAGGCGCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAA
GCGGATGGGGCTGAGGCCAACCTGCCGAATAA

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FIGURE 6026

MAQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKM
NPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLP IYSEEIVEMYKGKKRHEMPPHI
YAITDTAYRSMMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSKKDQGELERQLLQANPILEAFGNAK
TVKNDNSSRFGKFIRINFVNGYIVGANIETYLLEKSRAIRQAKEERTFHIFYLLSGAGEHLKTDLLLEPYNKY
RFLSNGHVTIPGQQDKDMFQETMEAMRIMGIPEEEQMGLLRVISGVLQLGNI VFKKERNTDQASMPDN TAAQKVS
HLLGINVTDFTRGILT P R I K V G R D Y V Q K A Q T K E Q A D F A I E A L A K A T Y E R M F R W L V L R I N K A L D K T K R Q G A S F I G I
LDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPA G P P G I L
ALLDEECWF PKATDKSFVEKVMQEQGTHPKFQKPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLL
HQSSDKFVSELWKDVDRIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPN
HEKKAGKLDPHLVLDQLRCNGVLEGIRICRQGFPNRVVFQEFQRQRYEILT P N S I P K G F M D G K Q A C V L M I K A E L D
SNLYRIGQSKVFFRAGVLAHLEEEERDLKITDVII GFQACCRGYLARKAF AKRQQQLTAMKVLQRNCAAYLKL RNW
QWWR L F T K V K P L L Q V S R Q E E E M M A K E E E L V K V R E K Q L A A E N R L T E M E T L Q S Q L M A E K L Q L Q E Q L Q A E T E L C A E A E
ELRARLTAKKQEELEEICHDL EARVEEEEEERCQHLQAEKKKMQQNIQELEE QLEEEESARQKLQLEKVTTEAKLKK
LEEEQIILEDQNC K L A K E K K L L E D R I A E F T T N L T E E E E K S K S L A K L K N K H E A M I T D L E E R L R R E E K Q R Q E L E K T R
RKLEGDSTDLS D Q I A E L Q A I A E L K M Q L A K K E E E L Q A A L A R V E E E E A A Q K N M A L K K I R E L E S Q I S E L Q E D L E S E R A
SRNKA EKQKRDLGEELEALKTELED TLDSTAAQQELRSKREQEVN I L K K T L E E E A K T H E A Q I Q E M R Q K H S Q A V E E
LAEQLEQTKRVKANLEKAKQTLENERGELANEVKVLLQKG D S E H K R K K V E A Q L Q E L Q V K F N E G E R V R T E L A D K V
TKLQVELDNVTGLLSQSDSKSSKLTKDFSAL ESQ L Q D T Q E L L Q E E N R Q K L S L S T K L Q V E D E K N S F R E Q L E E E E E
AKHNLEKQIATLHAQVADMKKKMEDSVGCLETAEEVKRKLQKDLEGLSQRHEEKVAAYDKLEKTKTRLQQELDDL
LVLDLHQRSACNLEKKQKKFDQLLAEKTI SAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNK
QFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEEELEDELQATEDAKLRLEVNLQAMKAQFERDLQG
RDEQSEEKKKQLVRQVREMEAELEDERKQ R S M A V A A R K K L E M D L K D L E A H I D S A N K N R D E A I K Q L R K L Q A Q M K D C
MRELDDTRASREEILAQAKENEKKLKSMEAEMIQLQEELAAAERAKRQAQQERDELADEIANS SGKGALALEEKR
RLEARIAQLEEELEEEQGNTELINDRLKKANLQIDQINTDLN L E R S H A Q K N E N A R Q Q L E R Q N K E L K V K L Q E M E G T
V K S K Y K A S I T A L E A K I A Q L E E Q L D N E T K E R Q A A C K Q V R R T E K K L K D V L L Q V D D E R R N A E Q Y K D Q A D K A S T R L K Q L
K R Q L E E A E E E A Q R A N A S R R K L Q R E L E D A T E T A D A M N R E V S S L K N K L R R G D L P F V V P R R M A R K G A G D G S D E E V D G K
ADGAEAKPAE

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FIGURE 6027

GAATTTCGGCACGAGCTAACGCGGTCCCCGGCACGCACCATCTGTTGCCATCCCGGCCGGCCGAGGCCATTGCAGA
TTTTGGAAG**ATGG**CAAAGTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCC
GAGCAGTTTCGGGATATGCCCTACCAGCCGTTTCAGCAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGGA
GCCACATACCAAGATAAGAGGTACACAAATAAGTACTCCTCTCAGTTTGGTGGTGGAAGTCAATATGCTTATTTT
CATGAGGAGGATGAAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAAGACGGCCCTACCAGCGGAATCGA
ATGAGATTTGCCAGAGGAACCTCCGCAGAGACAAAGATCGTCGGAACATGTTGCAGTTCAACCTGCAGATCCTG
CCTAAGAGTGCCAAACAGAAAGAGAGAGAACGCATTTCGACTGCAGAAAAAGTTCCAGAAACAATTTGGGGTTAGG
CAGAAATGGGATCAGAAATCACAGAAACCCCGAGACTCTTCAGTTGAAGTTCGTAAGTATTGGGAAGTGAAAGAG
GAAATGGATTTTCTCAGTTGATGAAGATGCGCTACTTGGAAGTATCAGAGCCACAGGACATTGAGTGTGTGGG
GCCCTAGAATACTACGACAAAGCCTTTGACCGCATCACACGAGGAGTGAGAAGCCACTGCGGAGCATCAAGCGC
ATCTTCCACACTGTCAACACCACAGACGACCCTGTCTATCCGCAAGCTGGCAAAAACCTCAGGGGAATGTGTTTGGC
ACTGATGCCATCCTGGCCACGCTGATGAGCTGTACCCGCTCAGTGTATTCTTGGGATATTGTCGTCCAGAGAGTT
GGGTCCAAACTCTTCTTTGACAAGAGAGACAACCTCTGACTTTGACCTCCTGACAGTGAGTGAGACTGCCAATGAG
CCCCCTCAAGATGAAGGTAATTCCTTCAATTCACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAAT
TTCTCCAGCAGTGCTTGAGAAATGGGGAAGGAAAGATACAACCTCCCCAACCCTAAACCCGTTTGTGGAGGACGAC
ATGGATAAGAATGAAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGGAGATGATATTGACCTTATT
GTCCGTTGTGAGCACGATGGCGTCATGACTGGAGCCAACGGGGAAGTGTCTTCATCAACATCAAGACACTCAAT
GAGTGGGATTCCAGGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTCATTGCC
ACGGAGCTGAAGAACAACAGCTACAAGTTGGCCCGGTGGACCTGCTGTGCTTTGCTGGCTGGATCTGAGTACCTC
AAGCTTGGTTATGTGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTCATCCTAGGCACCCAGCAGTTCAAG
CCTAATGAGTTTGGCAGCCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATTTTACGCTGCGTCATTGACATC
TGCATGAAGCTGGAGGAGGGCAAATACCTCATCCTCAAGGACCCCAACAAGCAGGTCTCCGTGTCTACAGCCTC
CCTGATGGCACCTTCAGCTCTGATGAAGATGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAAGAAGAGGAAGAA
ACT**TAA**ACCAGTGATGTGGAGCTGGAGTTTGTCTTCCACCGAGACTACGAGGGCCTTTGATGCTTAGTGGAATG
TGTGTCTAACTTGCTCTCTGACATTTAGCAGATGAAATAAAATATATATCTGTTTAGTCTTTTAAAAAAAAAAAA
AAAAAA

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FIGURE 6028

MAKFMTFVIQDNPSGWGPCAVPEQFRDMPYQPFSGDRLGKVADWTGATYQDKRYTNKYSSQFGGGSQYAYFHEE
DESSFQLVDTARTQKTAYQRNRMRFQQRNLRRDKDRRNMLQFNLQILPKSAKQKERERIRLQKKFQKQFGVRQKW
DQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPQDIECCGALEYDKAFDRIITRSEKPLRSIKRIFH
TVTTTDDPVIRKLAKTQGNVFATDAILATLMSCTRSVYSWDIVVQRVGSKLFFDKRDNSDFDLLTVSETANEPQ
DEGNSFNSPRNLAMEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDKNEIASVAYRYRRWKLGDIDDLIVRC
EHDGVMTGANGEVSFINIKTLNEWDSRHCNGVDWRQKLD SQRGAVIATELKNN SYKLARWTCCALLAGSEYLKLG
YVSRYHVKDSSRHVILGTQQFKPNEFASQINLSVENAWGILRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDG
TFSSDEDEEEEEEEEEEEEEET

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FIGURE 6029

GGGGGGCGGGAGGAGGGGACAGCTGCGGGCGCGGGGAGGGGGCGCCGCGCCGCGGGGGCCATGGCGGAGCCAGGA
AGCCGGGAGTCCGAGACCCGGGCCCCGAGCCCGAGTGTGCGCCGCC**ATGG**CCTTCGCCGCAGCTCTGCCGCGCGCTG
GTGTCGGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGCGCGCTGGGCAGCCTCTGCAGCTGCTGGACGCCTCC
TGGTACCTGCCGAAGCTGGGGCGCGACGCGCGACGCGAGTTCGAGGAGCGCCACATCCCCGGGCGCCGCTTTCTTC
GACATCGACCAGTGCAGCGACCGCACCTCGCCCTACGACCACATGCTGCCCCGGGGCCGAGCATTTCGCGGAGTAC
GCAGGCCGCTTGGGCGTGGGCGCGGCCACCCACGTCGTGATCTACGACGCCAGCGACCAGGGCCTCTACTCCGCC
CCGCGCGTCTGGTGGATGTTCCGCGCCTTCGGCCACCACGCCGTGTCACTGCTTGATGGCGGCCTCCGCCACTGG
CTGCGCCAGAACCTCCCGCTCAGCTCCGGCAAGAGCCAACCTGCTCCCGCCGAGTTCCGCGCTCAGCTCGACCCC
GCCTTCATCAAGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGGCGCTTCCAGGTGGTGGACTCCCGAGCC
ACTGGCAGGTTCGCGGCACCGAGCCCCGAGCCCCGAGACGGCATTGAACCTGGCCACATCCCAGGTACCGTGAAC
ATCCCCCTTCACAGACTTCCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCCAGGAG
AAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTCACAGCCTGCCACGTGGCACTAGGG
GCCTACCTCTGCGGCAAGCCAGACGTGCCCATCTACGATGGCTCCTGGGTGGAGTGGTACATGCGCGCCCCGGCCC
GAGGATGTCATCTCAGAGGGCCGGGGGAAGACCCAC**TGA**AGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCG
GCCACCAGCAATGCCTGGCCTGGTAGCTCCGCTTCTGCTTTACCAAGAGAGTGTTTCTTCACTCAACTCAGGTG
GCATTTGGGGTGACATCTCAAAGGCCAGGAATCCGTTGACTTGTTGGCTGCCAGTAGGGGCGGGAGGAAAGGCG
GAGGCGAGCCCTGGAGGAGGGAGGCCACAACCTCCGAGCTGCCACCTGGTGCTGAGCTGGGGCCCCGCCTCCTTT
CTGTTTTATTTTTGAGGAAATAAAATAACCAAGTGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6030

MASPQLCRALVSAQWVAEALRAPRAGQFLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQCSDRITSPYDHM
LPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLDGGGLRHWLRQNLPLSSGKSQPA
PAEFRAQLDPAFIKTYEDIKENLESRRFQVVD SRATGRFRGTEPEPRDGI EP GHIPGTVNIPFTDFLSQEGLEKS
PEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWYMRARPEDVISEGRGKTH

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FIGURE 6031

GCGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCGCCGCGCTGCAGACGACGAGTCCGCCCTCGTCCCGCGC
CCCCGGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGAGTTGCCGACCACCTCGGGGGTGCTTTCTCTGC
GCTTGAACATCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCCCTGGGAGAGACGAGCCATGAACCCCCACA
GCCTCTGCATTTGGGGACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCC
ATCCCAAGCCCAGCCCACCTCCCTCCCCGGCCCCCTGGTAGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGA
TGCCCGGCCCCCAGGGGGGAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCCA
GTTACAGGGAAGAGGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCATG
TGGGCCGTGGCGGGGATGTCTTCGGGGACACGTCTCTCCTCAGCAACCACGGGTGGCAGCTCCGGGAGCACCCATC
GCTCACCCCGCAGCTTCTGCGCAAGAAGCTGCAGCTGGTGCGGAGGGTGGGGGCGCCCCCGGAGGATGGCAT
CTCCCCCTGCACCCTCCCCGGCTCCACCGGCCATCTCCCCATCATCAAGAACGCCATCTCCCTGCCCCAGCTCA
ACCAGGCCGCCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTCGACAGCAGCCCCACCAGCTCCACGGACGGCC
ACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCTCCCGCTGCCCCGCTCGGAAAAGCCGCATGACCGAG
ACCGGGATGGTTCTTCCCCCTCTGAGCCCGGGCTTCGCCGCTCTGACTCTCTCTTGTCTTCCGCCTGGACCTCG
ACCTTGGGCCCTCACTCCTCAGCGAGCTGCTAGGGGTCTAGAGCTCCAGAAAGCCCCTGCAGCTGAGACTCCAG
CCCCCGCTGCAAACCCCCCAGCCCCCTACTGCAAACCCACGGGTCTCTGCTGCAAACCCCCCAGCCACTACTGCAA
ACCCCCAGCGCCTGCTGCAAACCCCTCAGCACCTGCCGCAACCCCCACGGGTCTCTGCTGCAAATCCCCCAGCCC
CTGCCGCAAGCTCCACACCCCATGGACACTGTCCCAATGGGGTAACAGCTGGGTTGGGCCCAGTGGCTGAGGTGA
AGTCCAGCCCAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGG
ATGGCGGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCCAAGCCCGGGCCTCCT
GGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGGCAGCAGGACCCAGTGCCAGCACAGTGCAAGCAA
ACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGAGGGGCTGGGGCACGGTCCAGGGCC
CCACCTAGGTGCAGAGCCGGCCCCCTCACCTAACAGCTGGTTCTTACCAGACCGGAGAGGGGAGAAGTCATGTTGC
CCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGAAGGCCAGGCTTGCTCTGGGACTT
TTAIGCTCCCAGAGGCCCTGCCAACTGACCACCTCCCCGACTGCCACTCTGGACCTAATAGCTGTTCTTAGG
CCCCACTCCATGCCACCCCCACCAGCTGGAGGACCCAGCCTCACAGTGTGTCTTTGTGCCAGACCAAGCGGCCC
GTGGGGGGTGGGGGGCAGGGAGTGTACCACACAGGGCCATTGTCTCACCTCCCAAAGGGACCGCCTGCCCCCAGC
TCATCCCAGAGCGTCCCTGCTGCAACCCTGACAGCCGTCTCCAGGCCGCTTCCCCAACATCCCCGCCCCAGCCT
CCCTCTTACCCAGAAAGGTCAGGTATGACCTCCCGGGAGGAATCCACCTGCCTGTATACCCAGACTTGCCCT
CTGGGGCCTGATTAAATAAGGCTGTTTTGAT

GGGGGCCGGTGGCGG**ATG**AGGACCCCGCATGGAGCGCGAGACTCTGGAGGCGCGAATCAATAGAGCCACGAACCC
 CTGAACAAGGAGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGGCCTCCA
 CTCGCCACCCGGCTGCTGGCCCAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTGACGGTGCTG
 GAAACATGCATGAAGAGCTGCGGCAAGCGGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGCTCATC
 AAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGAGAGCTCCTCTAC
 AGCTGGACAGTGGGCCTGCCCGAGGAGGTGAAAAATCGCAGAGGCCTACCAGATGCTAAAGAAGCAGGGGATTGTA
 AAGTCCGACCCCAAGCTTCCAGATGACACTACCTTTCCCCTTCTCTCCACGGCCGAAGAATGTGATCTTTGAA
 GATGAGGAGAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCCATCCCGAAGACCTCCGCGCAGCCAATAAG
 CTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAGATCTCGAAGAGGGTGAATGCCATCGAGGAG
 GTGAACAACAATGTGAAACTGCTCACGGAGATGGTGATGAGCCACAGCCAGGGCGGCGCAGCAGCTGGCAGCAGC
 GAGGACCTCATGAAGGAAGTGTACCAGCGCTGTGAGCGGATGCGGCCACGCTCTTCCGACTGGCGAGTGACACA
 GAGGACAATGATGAGGCCTTAGCGGAGATCCTGCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAAG
 CAGCTGGTGCGGGGTGAGGAGGTCAACGGTGATGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTG
 GATCTCTCAGGCCTGGATCTCCCGCTGCGGGCACCACTACCAGCTATGCCACCCGCCCTGGCGAGCAGGCC
 AGCCCTGAGCAGCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCCTCAGTGACCCCCACA
 CCCCCTTCAGGCCCAAGCCTGGATGGTACCAGGATGGAACAGCTTCCAGTCGTGGATGCCACTGAGCCCCCAGCC
 CTGCTCTGGCCCAGGCCCCCAGTATGGAAGCCGACCCCCAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
 GACGACCTAGACCTCCTGGGGAAGACCCTCCTGCAGCAGTCGCTGCCCCCGGAATCCAGCAAGTGCGGTGGGAG
 AAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCCAGCTCC
 AGCGCCACCAGCCTTCTCCACACCGTGTCCCCAGAGCCCCCAGGCCTCCGCAGCAGCCCGTACCAACCGAGCTC
 TCACTGGCCAGCATCACTGTGCCCTGGAGTCCATCAAACCCAGCAACATCCTGCCCGTGACTGTGTATGACCAG
 CACGGCTTCCGCATCCTCTTCCATTTTGGCCGGGACCCACTGCCAGGGCGCTCCGACGTGCTGGTGGTGGTGGT
 TCCATGCTGAGCACCGCCCCCAGCCCATCCGCAACATCGTGTTCCAGTCAGCTGTCCCCAAGGTTATGAAGGTG
 AAGCTGCAGCCACCCTCGGGCACGGAGCTGCCAGCTTTTAACCCCATCGTCCACCCCTCAGCAATCACCCAGGTC
 CTGCTGCTTGCCAACCCCCAGAAGGAGAAGGTTTCGCTCCGCTACAAGCTCACCTTCACCATGGGTGACCAGACC
 TACAACGAGATGGGGGATGTGGACCAGTTCCCCCACCTGAAACCTGGGGTAGCCTC**TAGA**ACAGAGGGGCTGGG
 GAGAGGAAGGGGCAGAGGGACCGGTCACTGTCCAGCCTGGAGGGAGGCATTGGTGGCCAAGGACACCCTTTGTTG
 CCAATGGCCATTACCCCCAGGCCTGGTGCTTCTCCCCACACCCTGTAGGCCTCAAGTGACTCTTCCCCCTCCT
 GCTCCGGCCCCGCCCTGCTGAGCCAAACCCAGTAGGAGGCTGGGCCCTGGGTTTGTGCCGCTGGGGTCTCCATCA
 CCGGGACCTGGAGAGGGAGGGGCTGTGTAGCCTTGGAAGAACTTGGGTGATGGGGAGGAAGCACAGCTGTTGGGG
 AAGGGCCAGGACCTCAGGCCAGCCCCAACCCAGCTGGGGTGGGGTCTTCCCCACCTGTCTCTTATGCCTTATG
 GGAAGGCCCAGCCATAACTCGGGGGCCATGCTGGAGCTGGGGACCAGCTTAGGCCTCCTCCATAGGAACCCAGTG
 ACTGGGGGGTGACGCCTACACCCCCAGCTATTTGCACTCTGGTGTGTGGTTTGAAGTCTGCTTTTCTTCCGGATTG
 GCCCTGTGGTCACAGCCTCAGGGGGCCAGGCTGGGGGAACCTCACCTGGCCCGTACTCCTGGGGGTTTCCCTTTG
 CCAATGGGGCCCCCTGAGGGACTGTGGGGGCTCAAGGGTAATGCCAGAGGCCCATGGCCCCAGCGAGGGGCTGTGG
 GGCACCTAGAGTTCTCGGTGTGTCTCCTTCATTTCATTGGCCTCTGCTGGGGCCTCCTATGGGTGTCTTACGTCTG
 TCCATCCATCTGTCCGTGGTCAGAAGTGGGGTCAGTGTGTGAGTGAGAGCAGGAGTATTTATGAAAATAAAACGT
 CGTTTTTCTGGAAAAA

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FIGURE 6033

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLIAHKIQSPQEWEAIQALTVLETCMK
SCGKRFDHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQMLKKQGIVKSDPK
LPDDTTTFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEKISKRVNAIEEVNNNV
KLLTEMVMSSHSGGAAAGSSEDLMKELYQRCERMRPTLFRLASDTEDNDEALAEILQANDNLTQVINLYKQLVRG
EEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTYPAMPTRPGEQASPEQPSASVSLDDELMSLGLSDPTPPSGP
SLDGTGWNSFQSSDATEPPAPALAQAPSMESRPPAQTSLPASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQQPT
PRLTLRDLQNKSSSCSSPSSSATSLLHTVSPEPPRPPQQPVPTELSLASITVPLESIKPSNILPVTVYDQHGFR
LFHFARDPLPGRSDVLVVVVSMLSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELPFNPVHPSAITQVLLLAN
PQKEKVRLRYKLTFMGDQTYNEMGDVDQFPPPETWGS

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FIGURE 6034

CTGCAGGTAGAACAGCGGCTGGAGCCGGCCAAGCGGGCAGCCCACAACATCCACAAGCGGCTGCAGGCCTGTCTG
CAGGGCCAGAGCGGGGCAGACATGGACAAGCGGGTGAAGAAGCTTCCCCTCATGGCTCTGTCCACCACG**ATGGCT**
GAGAGCTTCAAGGAGCTGGACCCTGATTCCAGCATGGGGAAGGCCTTGAGATGAGCTGTGCCATCCAGAATCAG
CTGGCCCGCATCCTGGCCGAGTTTGAGATGACCCCTGGAGAGGGACGTCTGCAGCCACTCAGCAGGCTGAGTGAG
GAGGAGCTGCCAGCCATCCTCAAACACAAGAAAAGCCTCCAGAAGCTCGTGTCCGACTGGAACACACTCAAGAGC
AGGCTCAGTCAGGCAACCAAGAATTAGGCAGCAGTCAAGGCCTAGGAGGCAGCCCGGGTAGTCACAGCCATACG
ACCATGGCCAACAAGGTGGAGACGCTGAAGGAGGAGGAGGAGGAGCTGAAGAGGAAAAGTGGAGCAATGCAGGGAC
GAGTACTTGGCTGACCTGTACCACTTTGTTACCAAGGAGGACTCCTATGCCAACTACTTCATTCTCTCTCTGGAG
ATTAGGCCGATTACCATCGCAGGTCAGTCTGCTGGACACAGCCCTGGCTGAGCTGAGGGAGAACCACGGC
CAAGCAGACCACTCCCCTTCGATGACAGCCACCCACTTCCCCAGGGTGTATGGGGTGTGCTGGCAACCCACCTG
CAAGAGCTGGGCCGGGAGATTGCCCTGCCCATCGAGGCCTGCGTCATGATGCTGCTTTCTGAGGGCATGAAGGAA
GAGGGTCTCTTCCGTCTGGCTGCTGGGGCCTCGGTGCTGAAGCGTCTCAAGCAGACAATGGCCTCGGACCCCCAC
AGCCTGGAGGAGTTCTGCTCCGACCCGCACGCTGTGGCAGGTGCCCTCAAGTCCTATCTGCGGGAGCTGCCAGAG
CCTCTGATGACCTTCGACCTCTATGATGACTGGATGAGGGCAGCCAGCCTGAAGGAGCCAGGGGCCCGGCTGCAG
GCCCTCCAAGAGGTGTGCAGCCGCCTACCCCCGAGAACCTCAGCAACCTCAGGTACCTGATGAAGTTCTTGCA
CGGCTGGCCGAGGAGCAGGAGGTGAACAAGATGACACCCAGCAACATCGCCATAGTCTTGGGACCCAATTGCTG
TGGCCACCTGAGAAAGAAGGGGACCAGGCCCAGCTGGATGCAGCCTCCGTGTCTTCCATCCAGGTGGTGGGCGTC
GTCGAGGCGCTGATCCAGAGCGCAGACACCCCTCTTCCCTGGAGACATCAACTTCAACGTGTCAGGCCTCTTCTCA
GCTGTTACCCCTCCAGGACACAGTCAGTGACAGGCTGGCCTCTGAGGAACTTCCGTCCACTGCCGTGCCACCCCA
GCCACCACCCCGGCTCCGGCTCCGGCTCCAGCTCCAGCTCCGGCCCCAGCCTTGGCTTCAGCAGCTACCAAGGAA
AGGACAGAGTCTGAGGTGCCTCCCAGACCAGCCTCCCCCAAGGTCACCAGGAGTCCCCCGGAGACAGCTGCCCCA
GTGGAGGACATGGCTCGGAGGACCAAGCGCCCCGGCGCCAGCCCGGCCACCATGCCGCCCCCCCCAGGTCTCCGGC
TCCCGCTCCTCCCCTCCAGCCCCGCCCTTGCCCCCTGGCTCTGGCAGCCCTGGGACCCCCCAAGCCCTGCCCCGA
CGTCTGGTTGGCAGCAGCCTCCGAGCCCCCACAGTGCCACCCCCGTTACCCCCCACACCCCTCAGCCTGCCCGG
CGCCAAAGCCGGCGTTTACCAGCCTCCCCCAGCCCGGCCTCCCCAGGTCCAGCCTCCCCCAGCCCAGTCTCTTTG
AGTAACCTTGACAGGTGGACCTGGGGGCTGCCACAGCAGAGGGAGGAGCCCTGAGGCTATCAGTGGGGTCCCC
ACTCCCCCAGCTATCCCCCTCAGCCCCGCCCCAGGAGCCTTGCCCTCAGAGACCAAC**TGA**GTGGCTGGTTTCTCC
CTAAGCAGCCCTCAGCACCCCTCCCTCCCCACCTGGCCCTCCAGGACAGCTCTCGCCCCCACAAAGGGGCAT
GGGCCTCCAGCCTTTGCCACAAGTGCCCTCAGTGCCCACTGGGTGCGCCCCCATGGCCAGGAGGGCTCAGGACAA
TCCTCTATTTCTGACCTTTTCTCTCGTCCACCCTGGGCTTGGGGACCCCCCACCAGACTCTCCACTCTCCGGCA
GGTCTTAGGGGAGCCACCGGAAGGAAGGAGAGGTTTGCCCTGCTCCTACGGGACTGATTCTTCTCTTGCCGACATG
TTTTTTGTAAGGCTGGTAAATAAATTATTTTGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGGG

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FIGURE 6035

MAESFKELDPDSSMGKALEMSCAIONQLARILAEFEMTLERDVLPQLSRLSEEELPAILKHKKSLOKLVDWNTL
KSRLSQATKNSGSSQGLGGSPGSHSHTTMANKVETLKEEEEELKRKVEQCRDEYLADLYHFVTKEDSYANYFIRL
LEIQADYHRRSLSSLDALAELENHGGADHSPSMTATHFPRVYGVSLATHLQELGREIALPIEACVMMLLSEGM
KEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCSDPHAGALKSYLRELPEPLMTFDLYDDWMRAASLKEPGAR
LQALQEVCSRLPPENLSNLRVLMKFLARLAEEQEVNKMTPSNIAIVLGPNLLWPPEKEGDQAQLDAASVSSIQVV
GVVEALIQSADTLFPGDINFNVSGLFSAVTLQDTVSDRLASEELPSTAVPTPATTPAPAPAPAPAPAPALASAAT
KERTESEVPPRPASPKVTRSPPEETAAPVEDMARRTKRPAPARPTMPPPQVSGSRSSPPAPPLPPGSGSPGTPQAL
PRRLVGSSLRAPTVPFPLPPTPPQPARRQSRSPASPSASPGPASPSPVLSNPAQVDLGAATAEGGAPEAISG
VPTPPAIPPQPRPRSLASETN

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FIGURE 6036

GGCACGAGGGCCGTGCCCCGCGAGAGAGCGCGGCGCGGGAGGCCGGCGGGCCGGCCGGCTGC**ATG**GCGCGCTGCGA
GAGGCTGCGCGGAGCGGCCCTGCGCGACGTGCTGGGCGGGCGCAGGGGGTCTGTTCGACTGTGACGGGGTGCT
GTGGAACGGCGAGCGCGCCGTGCCGGGCGCCCCGAGCTGCTGGAGCGGCTGGCGCGGGCCGGCAAGGCGGCTCT
GTTTGTGAGCAACAACAGCCGGCGCGCGCGGCCCGAGCTGGCCCTGCGCTTCGCGCGCCTCGGCTTCGGGGGGCT
GCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCCTGCCCGGGCCTCCGGA
CGCGCCGGGCGCCGTGTTCTGTGCTGGGCGGGCAGGGGCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGC
CGGGGACCCGAGCGCGGGGGACGGCGCGGCCCGCGCGTGCAGCGCCGTGCTTGTGGGCTACGACGAGCACTTCTC
CTTCGCCAAGCTGAGGGAGGCGTGCGCGCACCTGCGCGACCCCGAGTGCCTACTCGTGGCCACCGACCGTGACCC
ATGGCACCCGCTGAGCGACGGCAGCCGGACCCCTGGCACCGGGAGCCTGGCCGCTGCAGTGGAGACAGCCTCGGG
ACGCCAGGCCCTGGTGGTGGGCAAGCCCAGCCCCTACATGTTGAGTGCATCACGGAGAACTTCAGCATCGACCC
CGCACGCACGCTTATGGTGGGTGACCGCCTGGAGACCGACATCCTCTTTGGCCACCGCTGCGGCATGACCACTGT
GCTCACGCTCACAGGAGTCTCCCGCTAGAAGAGGCCAGGCCTACCTAGCGGCCGGCCAGCACGACCTCGTGCC
CCATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGACT**TCAG**CCCACTGCACCTGCAGCCACAG
GCCACCCCTCCCACTCCCTGATCCCGTAGGTGGAGGCGATGGGTACAGAGCCATGTTAAGCACAACCGGCTCC
TTGGTCCAGTTCTGCACCGGGGTGGGGCTGGGACCCGGGGAAGTTTGAGGGCCCTTGCAACCCCTCCAGCAG
TGGCTGGGCACTCTTTGCTGCCCCAGAAGCTGGTCCCTATGGATTTCATCTTGGCCTGACCCAGCCAGGTGGCCT
TATTTCTTCCCTGTCACCTCCCTCCTTGAAATCTGGGCCCTGGTGCCTGCTGAAGATTCCCTCTATCCCTGAGT
ACTTAGTCTTCTCCCCCTTCCCTGGGGCTTCTAGAGCTCTCTCTGCCCTCAGGTCTGGCCCTTGGGTCTTGT
CAACCAGAGGTCTAGGGAACCACAACCCCTTATTGTCCTGGGTGGACCAATCCAAAGGCTAAGTGATAGTGACTCA
TCAATGTTGGGTCCTGTGGGGTACCAGTTTAGGTTCCCTAAGTAATAGTGACCCTTTCACGTCTTGGAGCCCGAGT
GGACCAATCGGAAGCCTAAGTGACGATGACCCCTCGCATGTCCTAGGTCCCTGGGTGGACCCATCAGGACCCCAAG
TGATAGTGACCCAGTGGTCTTTTAGATCCTCAGTAGAACAGTCCAGAAGCCTGAGAGACAGTGGCCCCCTTGATAA
TCTGGGTCTCACGGGACCAGCTAGGGGTCCAGGTTTCAGTCAGTAAATAAGAGTGGTCCACGTCTTAAAGACACC
TCTCCTTTACAAAGACTTGTGATGCTCTGGGGCTTCTGTGGCCAAGCCCCACCCTTTCTGGTTCATGGTACCCGT
ACAGCGTTGATGGCCACAGCTCGAAGGGGGGCTTTCGTGTCCCCCTGTGCGGTGAGTGTTTTTCAGTACCACCTCT
CTCCCGTGCCCACTTGGCTATTTACTTATTTATTTATTGTGTGCCAGTGATGGTGGGTGGGGGCTGGGCCTTCCC
CGCCACCTCCACCCCTGTTGTGACCTGTCTTCCGTACTTAATAAAGTGCGCGTGGGAGTGTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6037

MARCERLRGAALRDVLGRAQGVLFDCDGVWNGERAVPGAPELLERLARAGKAALFVSNNRRARPELALRFARL
GFGGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGEGRLAELRAAGLRLAGDPSAGDGAAPRVRAVLVGY
DEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGS�AAVETASGRQALVVGKPSPYMFECITEN
FSIDPARTLMVGDRLETDILFGHRCGMTTVLTLTGVSRLĒEAQAYLAAGQHDLVPHYVYESIADLTEGLED

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FIGURE 6038

ATCTCTCTCGGGTGGAGTCCTTCTGACAGCTGGTGC GCCTGCCCGGGAACATCCTCCTGGACTCAATC**ATGGCTT**
GTGGTCTGGTCGCCAGCAACCTGAATCTCAAACCTGGAGAGTGCCTTCGAGTGCGAGGCGAGGTGGCTCCTGACG
CTAAGAGCTTCGTGCTGAACCTGGGCAAAGACAGCAACAACCTGTGCCTGCACTTCAACCCCTCGCTTCAACGCCC
ACGGCGACGCCAACACCATCGTGTGCAACAGCAAGGACGGCGGGGCCTGGGGGACCGAGCAGCGGGAGGCTGTCT
TTCCCTTCCAGCCTGGAAGTGTTCAGAGGTGTGCATCACCTTCGACCAGGCCAACCTGACCGTCAAGCTGCCAG
ATGGATACGAATTCAAGTTCCCCAACCGCCTCAACCTGGAGGCCATCAACTACATGGCAGCTGACGGTGACTTCA
AGATCAAATGTGTGGCCTTTGAC**TGA**AATCAGCCAGCCCATGGCCCCAATAAAGGCAGCTGCCTCTGCTCCCT
G

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FIGURE 6039

MACGLVASNLNLKPGECLRVVRGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNHAGDANTIVCNSKDGGAWGTEQRE
AVFPFQPGSVAEVCITFDQANLTVKLDPGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD

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FIGURE 6040

GGGCGGATGGAAGGGGCGGGGCGAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGGCGGGCGGCCGAGAGGGG
CGGCGGCGGGCGGGCGGGCGGGGTTCCCGCGCCGCGGAGCCCGGCCGAGAGCCGCGTCCACGTTCCCTGCCTCCT
GCTCCCGCGGCCCTGGGGCGCGGCCATGACGCGCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCT
GCGTTCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAACTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCTTGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGAGCGGGCCCGCACCCAGCCCG
CACTCCTGACCGCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCCAGCGCTCCGAGGAGCGGCGCAAGTG
GTTTGAGGGCCACAGACAGCAGGACCCAGAGGTGCCTGCTGGTGAGGGGCGCGCGGGGCTGGGTGCCCCCT
GACTGAGGACCAGCAAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGAGGAGCTGGAGAAGCTGCCCCCTGCG
GGAGAATAAGCGGTGCCCCCTACTGCCCTGCTCAACCAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTAGGCTCTTCGGGCCCAGCTGGAGGCGTGGCGTCTCCAAGGGGAGGCTCC
TCAGAGTGCACTGAGATCCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGCATGTGAGCGCAG
CCTGGCAGAGATGGAGTCTCGCACACGAGGTGATGGAGGAGCTGCAGCGGCACACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCGGATGGCCTCCGAA
GCAGCACAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCTGTGAGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCTGCGAGCTAGAGGTGCTGCTTCGCGTAAA
AGAAAACGAACTCCAGTACCTAAAGAAGGAGGTGCAGTGCCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTCACCTCGGGAAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAGTTAGAGGTCCCGCCCAGCTGCAGACCCTCCAGGCTGGAGGACCAGCCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCCTCTGTGGGCCACACGTGCACTTGCAACCACCACACACACACACACAC
ACACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGAGGATACACACACACACA
CACACTGCATATCTGAGCGCGCCCCCTCGCACTGGGTCTCACCTTGCACTTCTTCAAGATTTTATATGTGAAG
AGATTTTATATAGATTTTTTCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAGCAATTCC
TGGTGGCTGTGTGCCTCCAACCCTGGTCCCCCTCTGTCTCCAGCCACCCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCCAGAGGTCTGGCGGAGGCCAGGCAGCAGCCATGGCGGGGTGTCTCTACAGGGGAGAGGCGGGAGCCT
GCCACCCTCTTCCCTGCCCTACCTCCTACTAACACTTCTGCCCCATTGGACCCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCAAAAGGTGTTTCTTCTTGCTCCCTGAACCTCTTAACCTTAATAAAACGTTCCAGCAGCT

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FIGURE 6041

MTPDLLNFKKGWMSILDEPGEPSPSLTTTSTSQWKKHWFVLTDSLKYYRDSTAEAEDELGEIDLRSCDVT
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQASPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFATDSRT
PEVPAGEGPRRGLGAPLTEDQONRLSEEIEKKWQELEKLPLRENKRVPLTALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQQVMEELQRHHERELQRLQOKEWL
LAEETAATASAIAMKKAYQEELSRELSKTRSLQQGPDGLRKQHQS DVEALKRELQVLSEQYSQKCLEIGALMRQ
AEEREHTLRRCQQEGQELLRHNOELHGRLSEEIDQLRGFIASQGMGNGCGRSNERSSCELEVLLRVKENELQYLK
KEVQCLRDELQMMQKDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESSMRNSLAE

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FIGURE 6042

GGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCAGAGCCCGAGCCCGGTGCCGAGACCAAGCGACAGA
CCGGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCGAGCTCTCCCGACACCCGAGCCGGGGAGGAAAAGCAGCGAC
TCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCGGTAGTCAGGGGCTCAGGAGCAGATCCCGAGGCA
GGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTCAACAGCCGGACCAGACAGGCCACCATG
ACCGAGAATTCCACGTCCGCCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCC
AAGTATTAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATTAG
AAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTGGTC
ACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGAACCC
AAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAGCCC
AAGAAGGCTGCCTCCAAAGCCCCAACCAAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCT
GCCACGCCCAAGAAAGCCAAAAAACCCTAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCCCAAAAGGCC
AAACCAGTGAAACCCAAAGCAAAGTCCAGTGCCAAGAGGGCCGGCAAGAAGAAGTGACAATGAAGTCTTTTCTTG
CGGACACTCCCTCCTGTCTCTATTTTCTGTAAATAATTTTCTCCTTTTTTCTCTCTTGATGCTCACCACCACCT
TTTGCCCCCTTCTGTTCTGACTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCATTTTTC
CTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTTGTGTTTGCTATTAAC
CTACTTACGGGGTTAGGGATTTGCGGGGGGGCTTGTGTGTTTTGTTGGCTTGTTTGCCATGAAGGTAGATGTGG
GTGGGGAGAAGACACAAGGCAGTTTGTCTGGCTAGATGAGAGGGAACCCAGGAATTGTGAGGTTAGCAGGAATA
TCTTTAGGGTGAGTGAGTTTCTTTGAGTTGGGCACCCGTTGTGAGAGTTTCAGAACCTTTGGCCAGCAGGAGAG
AGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGGGAAAAAAACCGCCACCGGGCTGACTTCCACCTCCCA
GTGGTGAGCAGTGGGGGCCCAAACCCAGTTTCTTCTCATTTTTGTTAGTTTGCGCTTTCGGCCTCCCTATTTTC
TTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGGGAGAAGCCATAGTTTCTCCAGTCAGCTAGGATGTA
GCCATTGGGGGATCTTTGTGGCTTCAGCAAATTTCTTGTAAACCGGAGTGAAAACCTTCAGGGGAAGGGTGGGG
AGTCAGCCAAAGTGCCTCAGTGTGCCCTGTTGAAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCTAGGAA
GACTTTTCTTTTCTCTGGATTTTGTTCCTCCTGTACAAGAGGTGTCTTTGCTTGGTTTTGGTGGGGCTGCGGCC
ACTTAAACCTCCCGATCTCTTTTTGAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGGAGGGGGAGTGG
GCGGGCAGTGGATAGTAAGACTTACTGCAGTCGATTTGGGATTTGCTAAGTAGTTTTACAGAGCTAGATCTGTGT
GCATGTGTGTGTTTGTGTATATATACATATCTAGGGCTAGTACTTAGTTTTCACACCCGGGAGCTGGGAGAAAAAA
CCTGTACAGTTGTCTTTCTCTTATTTTTAATAAAATAGAAAAATCGCGCACTTGC CGCTCCCCCCCCACCCCT
TTTTTAAACAAGTGTTACTTGTGCCGGGAAAATTTGCTGTCTTTGTAATTTTAAACTTTAAATAAATTGGAA
AAGGGAG

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FIGURE 6043

ATGACCGAGAATTCCACGTCCGCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCAC
CCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATT
CAGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTG
GTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGCCTCGGGGTCTTCCGGCTAGCCAAAGAGCGACGAA
CCCAAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAG
CCCAAGAAGGCTGCCTCCAAAGCCCCAACCAAGAAACCCAAAGCCACCCTTTTTTTAAACAAGTGTTACTTGTGCC
GGGAAAATTTTGCTGTCTTTGTAATTTTAAAACTTTAAAATAAATTGGAAAAGGGAG

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FIGURE 6044

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMIVAAIQAEKNRAGSSRQSIQKYIKSHYKVGGENADSQIKLSIKRL
VTTGVLKQTKGVGASGSFRLAKSDEPKKSVAFKKTKKEIKKVATPKKASKPKKAASKAPTCKPKATLF

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FIGURE 6045

GTCTTTCCGGCGGTGCTCGCAAGCGAGGCAGCCATGTCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTAT
GACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAG
TATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCACAAAACCTGTCTCA
GATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCATTGACCAGAAGGTGTAT
GAGATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCCGAG
GCTGAAGCCATTGCTCCACAGGTTGGCAATGATGCTGTCTTCCTGATTTTATACAAAGAATTATACTACAGGCAC
ATATATGCCAAAGTCAGTGGGGGACCTTCCTTGGAGCAGAGGTTTGAATCCTATTACAACCTACTGCAATCTCTTC
AACTACATTCTTAATGCCGATGGTCTGCTCCCTTGAACCTACCAACCAGTGGCTCTGGGATATTATCGATGAG
TTCATCTACCAGTTTCAGTCATTTCAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTT
CTTCGTTCCAATCCCAAAATCTGGAATGTTTCATAGTGTCTCAATGTCTTCATTCCCTGGTAGACAAATCCAAC
ATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCTGAGAGTGTGGCTGGGGAGTATGGGCGGCACTCC
CTCTACAAAATGCTTGGTTACTTCAGCCTGGTGGGCTTCTCCGCCTGCACTCCCTGTTAGGAGATTACTACCAG
GCCATCAAGGTGCTGGAGAACATCGAAGTGAACAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTACCC
ACATACTATTATGTTGGGTTTGCATATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATC
CTCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATTAACAAGCAGAAT
GAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATCGATGAGAGCATTACCTCCAG
CTGCGGGAGAAATATGGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGT
TACTCCTGCCCCAAGTTCCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCACCCCAACTACCACAAAGAGCCC
TTCCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCCAGCTTTCAACCATCCGCAGCTTCCTG
AAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACAGAGCAGGAGTTCCGGATCCAG
CTTCTTGCTCTTCAAACACAAGATGAAGAACCTCGTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTTCAG
TCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGTTAT
GGGGATTTCTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAATCGAACCCTGAAGAAGATGGGACAGAGACCT
TGATGATATTTCACACACATTTCAGGAACCTGTTTTGATGTATTATAGGCAGGAAGTGTTTTTGCTACCGTGAAACC
TTTACCTAGATCAGCCATCAGCCTGTCAACTCAGTTAACAAGTTAAGGACCGAAGTGTTCAGTGGATCTCAGT
AAAGGATCTTTGGAGCCAGAAAAAA

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FIGURE 6046

MSYPADDYESEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVIPEVIKNFIQYFHKTVSDLIDQKVYELQ
ASRVSSDVIDQKVYEIQDIYENSWTKLTERFFKNTPWPEAEAIAPQVGNDVFLILYKELYRHIYAKVSGGPSL
EQRFESYYNYCNLFNYILNADGPAPLELPNQWLWDIIDEFIYQFQSFSQYRCKTAKKSEEEIDFLRSNPKIWNVH
SVLNLHSLVDKSNINRQLEVYTSGGDPESVAGEYGRHSLYKMLGYFSLVGLLRHLSLLGDYYQAIKVLENIELN
KKSMYSRVPECQVTYYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMINKQNEQMHALLAIAL
TMYPMRIDESIHLQLREKYGDKMLRMQKQDPQVYEELFSYSCPKFLSPVVPNYDENVHPNYHKEPFLQQLKVFSD
VQQQAQLSTIRSFLKLYTTMPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDK
DMIHIADTKVARRYGDFFIRQIHKFEELNRTLKKMGQRP

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FIGURE 6047A

GGCCAAGCCGGGGCCCCGAAGCCAGAGCCGGAGCCGGGCGGGCCGCGGGGT**CATG**GCTGGGCGCGGGGCGCGCT
GCTGGCCTGGTGCCGCCGCCAGTGCGAGGGCTACCGCGGGCGTGGAGATCCGCGACCTGAGCAGCTCCTTCCGGGA
CGGCCTGGCCTTCTGCGCCATCCTGCACCGGCACCGGCCCCGACCTGCTAGATTTTGATTGCTTTCCAAGGACAA
TGTCTTCGAGAATAACCGTTTGGCCTTTGAAGTGGCTGAGAAGGAGCTGGGGATCCCCGCTCTCCTGGACCCCAA
TGACATGGTCTCCATGAGCGTCCCTGACTGCCTCAGCATCATGACCTATGTGTCCCAGTATTACAACCACTTCTG
CAGTCTGGCCAAGCTGGTGTCTCGCCACCCAGAAAGGGCCTTGACCCCTGTTCCCCGCCGTCTGTAGCACCCAC
TCCAGTGAACCAGAAGATGTGGCTCAGGGCGAGGAGCTCTCCTCAGGCAGCCTGTGAGAGCAGGGCACCGGCCA
GACCCCCAGCAGCACGTGCGCAGCCTGCCAGCAGCATGTGCACTTGGTGCAGCGCTACCTGGCTGACGGCAGGCT
GTACCATCGCCACTGCTTCCGGTGTGCGCGGTGCTCCAGCACCCCTGCTCCCTGGGGCTTATGAGAATGGGCCTGA
GGAGGGCACCTTTGTGTGTGAGAACACTGTGCCAGGCTGGGCCCCGGGACACGGTCGGGGACCAGGCCTGGGCC
CTTCTCACAGCCAAAGCAGCAGCACCAGCAGCAACTCGCAGAAGATGCCAAGGATGTTCCAGGAGGCGGGCCCCAG
CTCCAGTGCTCCTGCAGGGGCTGAGGCCGATGGACCCAAGGCCAGCCCTGAGGCCCGGCCGAGATCCCTACCAA
GCCCCGGGTTCCTGGCAAACCTACAGGAGCTGGCCAGCCCCCTGCGGGCCGCCCCACCCCTGCCCCAGGAAGGC
CTCTGAGAGCACCAACCCAGCACCCCCACGCCCCGGCCCCGCTCCAGTCTGCAGCAGGAGAACCTGGTGGAGCA
GGCTGGCAGCAGCAGCCTGGTGAACGGGAGACTGCACGAACTGCCTGTCCCCAAGCCGAGGGGGACACCGAAGCC
GTCCGAGGGGACACCAAGCCCCAGGAAGGACCCCCATGGATCACGCTGGTGCAGGCAGAACCAAGAAGAAGGCC
AGCCCCACTTCCCCAAGCAGCAGCCCGGGGCCACCAAGCCAGGACAGCAGGCAGGTGGAGAATGGAGGCACCGA
GGAGGTGGCCAGCCGAGCCCAACGGCCAGCCTGGAGTCCAAACCCCTATAACCCCTTTGAGGAGGAGGAGGAGGA
CAAGGAGGAAGAGGCTCCAGCTGCACCCAGCCTGGCCACCAGCCCTGCCCTGGGCCACCCGGAGTCCACACCCAA
GTCCCTGCACCCCTGGTACGGCATCACCCCTACCAGCAGCCCCAAGACAAAGAAGCGCCCTGCCCCGCGCGCACCC
CAGCGCGTCCCCACTGGCTCTCCACGCCTCCCGCTCTCGCACTCGGAGCCGCCCTCGGCCACACCATCGCCAGC
GCTCAGCGTGAGAGCCTGTGCTCTGAGAGCGCCAGCCAGACTGCAGGTGCAGAGCTTCTGGAGCCGCCAGCTGT
GCCCCAAGAGCTCCTCAGAGCCTGCTGTCCATGCCCCCTGGTACCCCTGGAAACCCTGTCAGCCTCTCTACCAACTC
CTCCCTGGCCTCCTCTGGGGAACTAGTGGAGCCTAGAGTGGAAACAAATGCCTCAAGCCAGCCCTGGCCTTGCCCC
CAGGACCAGGGGCAGCTCAGGTCCCCAGCCAGCCAAGCCCTGCAGTGGCGCCACCCCAACGCCTCTCTTGTGTGGT
TGGAGACAGGAGCCCGGTGCCTTCCCTGGAAGCTCGTCCCCACAGCTGCAGGTAAAGTCTCTCTGCAAGGAGAA
TCCTTTTAACCGGAAGCCATCACCTGCAGCGTCCCCAGCCACAAAGAAGGCCACCAAGGGATCCAAGCCAGTGAG
GCCACCTGCCCCCTGGACACGGCTTTCCACTCATCAAACGCAAGGTCCAGGCTGACCAGTACATCCCTGAGGAGGA
CATCCATGGAGAGATGGATAACATTGAGCGCCGGCTGGATGCCCTGGAGCACCGTGGGGTGTCTGTGGAGGAGAA
GCTGCGTGGCGGCCCTGAATGAGGGCCGTGAGGATGACATGCTGGTGGACTGGTTCAAGCTCATCCACGAGAAGCA
CCTACTGGTGGCGCGAGAGTCCGAGCTCATCTATGTCTTCAAGCAGCAGAACCTGGAGCAGCGCCAGGCTGATGT
CGAGTATGAGCTCCGGTGCCCTCCTCAATAAGCCAGAAAAGGACTGGACGGAGGAGGACCGGGCCCGGAGAAAGGT
GCTGATGCAGGAGCTTGTGACCCTCATTGAGCAGCGCAACGCTATCATCAACTGCCTGGATGAGGACCGGCAGAG
GGAGGAAGAGGAAGACAAGATGTTGGAAGCCATGATCAAGAAGAAAGAGTTCCAGAGGGAGGCTGAACCTGAGGG
CAAGAAGAAGGGGAAGTTCAAGACCATGAAGATGTTGAAACTGCTAGGAAACAAACGTGATGCCAAGAGCAAGTC
CCCCAGAGACAAGAGCT**TAA**CAGCACGAGAAGCCAGTTGGGGACTGCCCCCTCCTGGAGCAGCTCCTGGGCTGTGC
TCTGTTTGAAGGGGGCGCCCTGCTCCCCTCAGATCAGTCAGGAGGAAGATGACTAAGGGGAGGGATCCTCTGGGT
GATGGCCTCTTCTCTCAGGGACCTCTGACTGCTCTGGGCCAAAGAATCTCTTGTTTCTTCTCCGAGCCCCAGG
CAGCGGTGATTTCAGCCCTGCCCAACCTGATTCTGATGACTGCGGATGCTGTGACGGACCCAAGGGGCAAAATAGGG
TCCCAGGGTCCAGGGAGGGGGCGCCTGCTGAGCACTTCCGCCCCCTCACCCCTGCCAGCCCCCTGCCATGAGCTCTGG
GCTGGGTCTCCGCCCTCAGGGTTCTGCTCTTCCAGGCAGGCCAGCAAGTGGCGCTGGGCCACACTGGCTTCTTCC
TGCCCCATCCCTGGCTCTGAGTCTCTGTCTTCTGTCTGTGTCAGGCGCCCTTGATCTCAGTTTCCCTCACTCA
GGAACCTCTGTTTCTGAAGTCTTCAGTTAAGTTTGAAGTTTATGACTGAGTGGCCTGTACTGTCAGACGTGAATGGG
CCTGACGGGCAAAATCCATCCCTCTCTCCCTCACAGTTCAGGAGCGGCTTCCCTCGTCTCCCCTTACTCCACAGG
GAGCCTCCCTTGCCAGGACCAGGGCTGCGACGGCCATGCTGGGGCAGGTGAGTGTCTGTGTTAGCTGCTCCAGTG
CTGTCCCCAGGCTGCAGTTCTGGTCCCTGGTTGTCAGGTAGGAAGGGTGCACCTGAAGCAGGTGCTCATCTCGGT
TCCTTAACGTTTATAGTCTGACCCCTCACTTAGGCTTTCCCTGTGCCACCCCGGTCCAGGAAGAGGCTCGCTCCC
GCCCATGGTCATCACTGGTCTGTCTGTCTGTCTGTTGTCTGTTCTTCCCTGACTCCCTCCACCGAAGGCCTGATGG

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FIGURE 6047B

CTACTCACCCTCTGGGATGGCTATGGGAGAGGAGGAGTGATGGGGACCGCCACCTTTTCTGCAGGAAATGTGCC
CAGCAGCTCTTGGTCAAAGCACTGTTGCTATAAGCTATCTCTGGGATGCCTCTAGGCCCCCTTCCCTCTACACAC
CTCTGGGAAAAGATTACACTGTATTAACTCTCGAGGAGTTTCCTCACCAATAAACAGACAACCTCAACTGCCAGT
GCCCTGCAGCCTCGGGCCACAGCGGCAGCCTTGTTTGCCTTCCACCTGCCTCTGCCACACCTGGTGGCTGAACA
TCTCTGGTCGCCCAGAGGCCATGTTGGGGCCATCCTCCAAGAGGGATCTCTGCCCTCACC GCCTGCCACTGGGCA
GGATCCCTTTCTCTGCAGGGAGAGGTGGCTCCTCGGCCATGCAGCCCCTGGCAGGCTCCTTCTAAACATGCCTG
TTGACCTGGAGCTGGCGCCACCAACTCCAGGGCCTTTCCAGGGCCAGACAGGTAACACGCATGAACCCGAGTGAC
AGCTCTGACGGGCTGTTTCGGTGTCAGGAGACAAAGCTGGCAGGGGCAGGGGTGAACTGGAGGCAAGTCAAGTCA
CCTGTGGCCTGTGGGGCTGAATGTGGGCCCGGTGTTGCCAGATCCTTTGTCATAAGAAGCTAGAAATCCAGATTT
TATGTGTGTGTAATTTGTAAATGCTGAAAGCTAGCCTGAATTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTCGCTC
TGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTACAGCCATCCTC
CTGCCTCGGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCTACGACGCCTGGCTAATTTTTTTGTATTTTTAGTA
GAGACGGGGTTTTACCGTGTTAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTTGGCCTCCCA
AAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCGGCCACTAGCCTGAATTTCAATCAAGGGTTGGCTGATACT
GTGTGTCCAGGGTGGACTGGATTTGTCTGGGGGGTTCTCTGGTTTGCTGCCTCCTGACCACATGATGGGGCCTT
CGAGGTCGAGGACAACGTTCCTCATTAGATTGCACCCTCTGCCCTCAGGTTCTTGAGGGTGTGTGGACACAGAGG
CTTTCCATGGGATGTCCCTGAGCCGGCCCTTGATTGGGGCCTCACCATTTACAGGGCCGTTTTATTCTGCAAACC
GAACTTGGGTGATGTGACCTGATGGGATTATGGGACTCCCTCCAGGTGCCCGAGACAAGGTTGATATTTCCAAA
ATATTTTGGTGATTTAGTGGGACAAGCAAATGACAGAATACCGGAGAAGGCAGGGATCGTGGGTGTCAGGAGCCA
GAGGGGAGGGGGACAGATGTGCTGTGTACAGGACAAGGTGTCAGGTGACTCCTTCCCAGCAGGGCCTCGCAGATG
CACAAGCACGGAGCTGGTGGGTTTTGCCCCAAGAAAGGTACGCGGCACATGCAGGGATTGGAATCCCAGGCCAG
GGCTCTAGGTCGCTCCACCTTTTCATGTTTCTTTCTGTGGCCATGGGTATAGTGGAAAGACATAAAGCTAAAGC
CAACTTTTAATCCTGAATGCACTGCTTGCCAGGTAAATGCCCTTGGTTGTGGTATCTTGTTGAGACTTAGTTTTTC
ACAGAGGGATAATGAACCGTTGCAGAGGTTTATTGAGATCATTAACAGAGTGGAATTCAGCACCCGCCACAGCAG
CCAGCCATGGG

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FIGURE 6048

MAGPRGALLAWCRRQCEGYRGVEIRDLSSSF RDGLAFCAILHRHRPDLLDFDSL SKDNVFENNRLAFEVAEKELG
IPALLDPNDMVSMSVPDCLSIMTYVSQYYNHFCSPGQAGVSPPRKGLAPCSPPSVAPT PVEPEDVAQGEELSSGS
LSEQGTGQTPSSTCAACQQHVLVQRYLADGRLYHRHCFRCRRCSSTLLPGAYENGPEEGTFVCAEHCARLGPGT
RSGTRPGPFSQPKQQHQQLAEDAKDVPGGGPSSSAPAGAEADGPKASPEARPQIPTKPRVPGKLQELASPPAGR
PTPAPRKASESTTPAPPTPRPRSSLQQENLVEQAGSSSLVNGRLHELPVVKPRGTPKPSEGTPAPRKDPPWITLV
QAEPKKKPAPLPSSSPGPPSQDSRQVENGGTEEVAQP SPTASLESKPYNPFEEEEEDKEEEAPAAPSLATSPAL
GHPESTPKSLHPWYGITPTSSPKTKKRPAPRAP SASPLALHASRLSHSEPPSATPSPALSVESSLSESASQTAGA
ELLEPPAVPKSSSEPAVHAPGTPGNPVSLSTNSSLASSGELVEPRVEQMPQASPG LAPRTRGSSGPQPAKPCSGA
TPTPLLLVGDRSPVSPSGSSSPQLQVKSSCKENPFNRKPSPAAS PATKKATKGSKPVRPPAPGHGFPLIKRKVQA
DQYIPEEDIHGEMDTIERRLDALEHRGVLLEEKLRGGLNEGRED DMLVDWFKLIHEKHLLVRRESELIYVFKQON
LEQRQADVEYELRCLLNKPEKDWTEEDRAREKVL MQELVTLIEQRNAI INCLDEDRQREEEEDKMLEAMIKKKEF
QREAEPEGKKKGKFKTMKMLKLLGNKRDAKSKSPRDKS

[illegible]

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FIGURE 6050

MAEEQDLSEVELSPVGSEEPRLSPGSAPSLGPDGGGGGSGLRASPGPGELGKVKKEQQDGEADDDKFPVCIREA
VSQVLSGYDWTLVPMPVRVNGASKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLNESDK
RPFIEEAERLRMQHKKDHPDYKYQPRRRKNGKAAQGAECPGGEAEQGGTAAIQAHYKSAHLDRHPGEGSPMSD
GNPEHPSGQSHGPPTPPTTPKTELQSGKADPKRDGRSMGEGGKPHIDFGNVDIGEISHEVMSNMETFDVAELDQY
LPPNGHPGHVSSYSAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGVDAKAQVKTETAGPQGPPHYTDQPST
SQIAYTSLSLPHYGSAFPSISRPFQFDYSDHQPSGPYYGHSGQASGLYSAFSYMGPSQRPLYTAISDPSPSGPQSH
SPTHWEQPVYTTLSRP

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FIGURE 6051

CTGGGGGTCCGTTCCCCAACTTCCTCGGCGCTCCGGACTCCCAAGTCTCCGCCGGACCCTCCTTTGGATATTCT
CGTGTCTCCGATTCTGAGAGAGGGGGAAGACGGTGGGGCCTCCCCACCTGCCCCGCAGAAGATGCAGTTCTTTGG
CCGCTTGGTCAATACCTTCAGTGGCGTCAACCAACTTGTTCTCTAACCCATTCCGGGTGAAGGAGGTGGCTGTGGC
CGACTACACCTCGAGTGACCGAGTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTG
GGACTGCGTCTGGTCAACCCAGGAACCTCACAGAGTGGATTCCGACTCTTCCAGCTGGAGTTGGAGGCTGACGC
CCTAGTGAATTTCCATCAGTATTCTTCCCAGCTGCTACCCTTCTATGAGAGCTCCCCTCAGGTCCTGCACACTGA
GGTCTGTCAGCACCTGACCGACCTCATCCGTAACCACCCAGCTGGTCAGTGGCCCACCTGGCTGTGGAGCTAGG
GATCCGCGAGTGTCTTCATCACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACC
CCTGCACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGA
TGTCACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTGCCAGGGTGACAATTCTCAGGTGCTGCAGCTCCT
TGGAAGGAACGCAGTGGCTGGCCTGAACCAGGTGAATAACCAAGGGCTGACCCCGCTGCACCTGGCCTGCCAGCT
GGGGAAGCAGGAGATGGTCCGCGTGCTGCTGTGCAATGCTCGGTGCAACATCATGGGCCCCAACGGCTACCC
CATCCACTCGGCCATGAAGTTCTCTCAGAAGGGGTGTGCGGAGATGATCATCAGCATGGACAGCAGCCAGATCCA
CAGCAAAGACCCCCGTTACGGAGCCAGCCCCCTCCACTGGGCCAAGAACGCAGAGATGGCCCGCATGCTGCTGAA
ACGGGGCTGCAACGTGAACAGCACAGCTCCGCGGGGAACACGGCCCTGCACGTGGCGGTGATGCGCAACCGCTT
CGACTGTGCCATAGTGTGCTGACCCACGGGGCCAACGCGGATGCCCGCGGAGAGCACGGCAACACCCCGCTGCA
CCTGGCCATGTGAAAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAGCAGAAGTGGACACCCCGAA
TGACTTTGGGAGACTCCTACATTCTAGCCTCCAAAATCGGCAGACTTGTACACAGGAAGGCGATCTTGACTCT
GCTGAGAACCGTGGGGGCCGAATACTGCTTCCACCCATCCACGGGGTCCCCGCGGAGCAGGGCTCTGCAGCGCC
ACATCATCCCTTCTCCCTGGAAAAGAGCTCAGCCCCCACCAGATCAGCCTAAACAACCTAGAACTACAGGATCTCAT
GCACATCTCACGGGCCCCGAAGCCAGCGTTCATCCTGGGCTCCATGAGGGACGAGAAGCGGACCCACGACCACCT
GCTGTGCCTGGATGGAGGAGGAGTGAAAGGCCTCATCATCATCCAGCTCCTCATCGCCATCGAGAAGGCCTCGGG
TGTGGCCACCAAGGACCTGTTTGACTGGGTGGCGGGCACCAGCACTGGAGGCATCCTGGCCCTGGCCATTCTGCA
CAGTAAGTCCATGGCCTACATGCGCGGCATGTACTTTTCGCATGAAGGATGAGGTGTTCCGGGGCTCCAGGCCCTA
CGAGTCGGGGCCCCCTGGAGGAGTTCTGAAGCGGGAGTTTGGGGAGCACACCAAGATGACGGACGTCAGGAAACC
CAAGGTGATGCTGACAGGGACACTGTCTGACCGGCAGCCGGCTGAACTCCACCTCTTCCGGAACCTACGATGCTCC
AGAACTGTCCGGGAGCCTCGTTTCAACCAGAACGTTAACCTCAGGCCTCCAGCTCAGCCCTCAGACCAGCTGGT
GTGGCGGGCGGGCCGAAGCAGCGGGGACGCTCCTACTTACTTCCGACCCAATGGGCGCTTCTGGACGGTGGGCT
GCTGGCCAACAACCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTGATCCGCAAGGGTCA
GGCCAACAAGGTGAAGAACTCTCCATCGTTGTCTCCCTGGGGACAGGGAGGTCCCCACAAGTGCCGTGTGACCTG
TGTGGATGTCTTCCGTCCCAGCAACCCCTGGGAGCTGGCCAAGACTGTTTTTGGGGCCAAGGAACCTGGGCAAGAT
GGTGGTGGACTGTTGCACGGATCCAGACGGGCGGGCTGTGGACCGGGCACGGGCCTGGTGCGAGATGGTTCGGCAT
CCAGTACTTCAGATTGAACCCCAAGCTGGGGACGGACATCATGCTGGATGAGGTCAGTGACACAGTGTGTTCAA
CGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGCGAGGAGTTCCAGAAGCTCATCCAGCTGCTGCTCTC
ACCTTGAGGGTCCCCAGCCTCTACCGGCCCCAGCTGACCTCGTCCATTACAGCCCTGCCAGGCCAAGCCCAGCC
ACTGCCCTCCCGGGCAGATCTGGGCCCAGGCACCTCTGAGTCCATAGACCAGGCCTGGGAGAATGCCAAGCTGCC
TGCCCGAGGCTGGTCTCTGAAGGCCTGTCTCCCACTAACCCCGCCTTCCAGCACTTTCTGTCAATTCAGGCTGGGA
AAGTCTAGAGCCCCCTTTGGCCCCCTTTCCCTGACTGTCAAGGACAACCTGACTCCCCCATCAGCTCAAACATTAAG
GGTACCCGGGCACAACCGTACCCCTGCCCCCAGCCCCAGCCTCCCTGAGGGCCTGCCGGGCTGCCTCTGCCCCAG
CCCCAGCAAGGGCACTCCAGGCTTCCCTGGTGGGTGCAGCCCACTCCCTCTGCCCTCTGCTCCGTTCCCTGGGG
GCTGGGACTAAAGAAATGGGTGTCCCCCACCCTCATCAGCTGGGAAAGCCCAGGCCGAGGAGTGGGATGCCCGTT
GGACTTTGCCCTCACACTGGCCCGAGCCCCCTCACACTGCCCCACCCGAGAACCCTCAGCTCTCAAAGGTCACTC
CTGGGAGTTTCTTCTTCCCAATGGAAGTGCTTAAGAGCCAAAACCTGAAATAAATCATTTGGATTCAAGTTC

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FIGURE 6052

CTTACAACCTCCGCGCGGCTCGGCCCCCTGCGCCGCCCGCCCCACAACAAACTCAGCGCAGCGCTCCCGGGCGC
CCGGTTCAGAGCGACCTGCGGCTCAGAGCGGAGGGGAGACTGACCGGAGCGCGGATCGGGACAGCGGCCGGGACA
GCGGCGAGACGCGCGTGTGTGAGCGCGCCGGACCAAGCGGGCCCAGAAGCGGGTCTGCAGCCCAGAGGGCACCTT
CTGCAAAC**ATG**TCTGTGGATCCCCTATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGC
ACCTGTCGGACGAGGCGCTGATGGGGCTGTGCGTGCGGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGAGG
AGGTGACACGGCTCAAGCAGCGGCGCCGCACACTCAAAAACCGTGGCTACGCCGCCAGCTGCCGCGTGAAGCGCG
TGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGCGAGGTGGACAAGCTGGCGCGCGAGAACG
CCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGGCAAGTGCAGGGCGCTGCAGGGCTTCGCGCGCTCCGTGGCCG
CCGCCCCGCGGGCCCGCCACGCTCGTGGCGCCGGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGT
CTGGCCCCCGCCACGGCCCCGACCCCGCCACGGCCCCGGCCTCCTGCTCC**TAGT**GCCCCCCCCGCCATGCCTCA
GCCACGCCCCCTCCGGCCTCAGCTCCCTCCCCAAAGTGCTGAGCGCCGCTCTGTGCCAGGTCCCATTCTCTG
CAGCACTGGCCCCCTTGGTGCACACACATTCCCTTCGTGGGCCCTGTCTTCCTCTTGACGCCCCCAAAGTGGGAC
CGAATGACCCCTGGGAAGGGGAAGTTGGGTAGGTTGGGGATGGGGCAGAGGTCTGGATCTGGGATCGCCCTTGGCT
GAAAGTTTTAGCCTTTTTAGATTGAGAGATACAGAGCCGGCTTAGAGAACAGCTGTTGGGGGAGAAGAGGGCACCC
CTCATCTTGGAACTGCTCTTATTGTGCCAATATGCCCTCCAAACCCTCCAGGATTCAAAGCTAGGTTTGGCTG
TCTGTGACTTACGGGACCGTCCTGCTGAGAAATTGCACTGAAGAGATGCCCCACCTCTGGTTGGCCCTGGGGGT
GCCTGGCCTTCCGAACTAAAAGAGTGGGTGGGAAGACTAGTGAAACCCAGTTACGGATGGGGAAACAGGCCTG
AGGTCACATTTCACTTAGTGGTTGTGTTGGGACCAAAACCTGGGTGTCTCACTGCTGAGTCCAGCCATGGTTTT
CAGGGGGACAGTGGACAGGGACTCAGAAATGTGGTGGGAGGGCCTCCCTGGCTTGGGAGACCGCTCTCTGCAAGG
GAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACACGGATGGAAGAGTGGGAAGGAGCTGGCCTGGCTCAGCCC
TAGGCTGTCCCTGCAGCCAGGGTGTCCGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGGCAAA
AGGGAGACAAGGAGACAGACCCTGCAGTCCTACTACAGTCTGGAGTGGGGTCTAAGAAGAAGGGTCCCACCTCA
ACCCCTGTCAGTGTCCACTGTGGGGTGGGGGCTGACCCCTGCCTTTGATTGTCATTCTCCTGGGAAGCCCAGTCT
CAGTCCCTCCCCAACACTGTCCACACTGCCCCCTCCCCACTGTTTATTTATTGCACGGATCTAAGTTATTCTCCC
CAGCCAGAGCCCCGAGCTCCTGCTCCCTGGGAAAAGTGGCGTATGGCCCTGAGCTGGGCTTTATATTATATATCTG
CAAATAAATCACATTTTATCTTATATTTAGGGAAAGCCGGAGAGCAACAACAAAAAATGTTTAAGCCGGGCGCGG
TGGCTCACATCTGTAATCCCAGCACTTTGGGAGTCCAAGGAGGGGGATCGCTTGAGTCCAGGAGTTTGAGACCAG
CCTGGACAACATGGTGAAACCCCGTCTCTACAAAAAATACAAAAATTAGCCATGCATGGTGGCTCATGCCTGTAG
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTAAGCCAGAAGGCAGAGGTTGTAGTGAGCTGAGATCG
CACCCTGCACTCCAGCCTGGGCAACATAGCAAAATCCTGTCTCAAAAAAAGTTAAAAAATATTGCCCCGGCTC
CTAGAATTTATTTATTTTCTGACTTACAGCAAGCGAGTTATCGTCTTCTGTATTTTGTAGACTTTCTAAATAAAG
TCAAATCTTTCTTTTCCACAGAAAAA

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FIGURE 6053

MSVDPLSSKALKIKRESENTPHLSDEALMGLSVRELNRLRGLSAEEVTRLKQRRRTLKNRGYAASCRVKRVCQ
KEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIVKSTPGSGSGP
AHGPDPAHGPASCS

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FIGURE 6054

CGCCGGCGGGCGGGGAGACTCCGGGGCTGCGGGCGCCGCCCGCCCCGCCCGCAGAGTCCGGCTGCCGCGCATCGTC
CGCAGACGCCGCCACCGCCATGGGCTCCTGAGGCTAGCTTGTCACTTTCTGCAAAGGTTTCCCTCAGGGAGCCTC
CTGCTGCCAGGCACCATGACAGTGAGGGGGGATGTGCTGGCCCCGGATCCAGCGTCGCCCCACGACCGCAGCAGCC
TCGCCCAGCGTCTCCGTGATCCCCGAGGGCAGCCCCACTGCC**ATGG**AGCAGCCTGTGTTCTGTATGACAACCTGCC
GCTCAGGCCATCTCTGGCTTCTTCGTGTGGACGGCCCTGCTCATCACATGCCACCAGATCTACATGCACCTGCGC
TGCTACAGCTGCCCCAACGAGCAGCGCTACATCGTGCGCATCCTCTTCATCGTIGCCCATCTACGCCCTTTGACTCC
TGGCTCAGCCTCCTCTTCTTACCAACGACCAGTACTACGTGTACTTTCGGCACCGTCCGCGACTGCTATGAGGCC
TTGGTCATCTATAATTTCTGAGCCTGTGCTATGAGTACCTAGGAGGAGAAAGTTCCATCATGTGCGGAGATCAGA
GGAAAACCCATTGAGTCCAGCTGTATGTATGGCACCTGCTGCCTCTGGGGAAAGACTTATTCATCGGATTTCTG
AGGTTCTGCAAACAGGCCACCCTGCAGTTCTGTGTGGTGAAGCCACTCATGGCGGTGAGCACTGTGGTCCCTCCAG
GCCTTCGGCAAGTACCGGGATGGGGACTTTGACGTACCAAGTGGCTACCTCTACGTGACCATCATCTACAACATC
TCCGTGAGCCTGGCCCTCTACGCCCTCTTCCTCTTCTACTTCGCCACCCGGGAGCTGCTCAGCCCCCTACAGCCCC
GTCTCAAGTTCTTCATGGTCAAGTCCGTCACTTTCTTTCTTCTGGAAGGCATGCTCCTGGCCATCCTGGAG
AAGTGTGGGGCCATCCCCAAAATCCACTCGGCCCGCGTGTGGTGGGCGAGGGCACCGTGGCTGCCGGCTACCAG
GACTTCATCATCTGTGTGGAGATGTTCTTTGAGCCCTGGCCCTGCGGCACGCCTTCACCTACAAGGTCTATGCT
GACAAGAGGCTGGACGCACAAGGCCGCTGTGCCCCATGAAGAGCATCTCCAGCAGCCTCAAGGAGACCATGAAC
CCGCACGACATCGTGCAGGACGCCATCCACAACCTTCTCACCTGCCTACCAGCAGTACACGCAGCAGTCCACCCTG
GAGCCTGGGGCCACCTGGCGTGGTGGCGCCACGGCCTCTCCCGCTCCACAGCCTCAGTGGCGCCCGCGACAAC
GAGAAGACTCTCCTGCTCAGCTCTGATGATGAATTC**TAG**GTGCGGGCTGCAGTGGCGGAAGTGTGGCGCCATAG
CCACGGTCAGGCTGTGCCCCACCTCCAGCCTCACCACCAGGCCAGGAGGCAGCTGGCACAGTGTACGCCCGCT
TTATTTATTGGACCAGAAACACTCACATGTCACTTCCAGAGGAACGGGGACAGCCAGGCTCGCCCCATGGGCCTT
CAGGAATATTTATACATGGCCCCAGCCTGCAGTGCCTGGCGGGCGAGGGCAGAGGACACTGGGAGCAAGGCTTATGCC
CTGCTGCCCCGTCTGTGCTGGGGGCATGCTGGGACCAGCCGCACCCAGGCCCAATGCTTGTGTGTGGACCAGCG
GCTGCAGCCTTCTAGCCCCCTCTCCCCGCGAGACTCTCAGGCTGAGGTGCGCAAGCCGTGGCTCCCCCACACACC
GTGCAATACCCTGTCTGACCTGGGCTCTTCCCGCCTGCATCCCTCCCCTGTCCACCTTTGTCCAGTGTAGATTC
ACCTCACCCCGGGCAGGAGTGGGGATGTGGGCGCTCTGTGGTCTCTCCCTCCTGACCCAGGCCTCTGTGGCATGC
TGCAAGGATCAGAGCCAGACACCAGGAGTCACAGGCCCCACCCAGGAAGGGCATTGAGGGCCCTGGGCACCGCT
TCTGTTGAAGCAGGGGCTTCTGGGGCCCTGGGTATCCCCACCTGTCTGTGGCCACACCTCTGCCTGCCTCATGCC
CTTCCCCCTGGCCTACCAAGGACAGCCCCACAGCCCGCACTGCCGGCTCACTTGGGTCTTCTCTCGATAGCTTTGG
GCAGAGCCCTTGCTTCTGCTGCTTCAGGGCTCAGGGGCTCCAGCCCTCCTTCCCAGGCTGATGCTGGGTCTCT
CTCTCTCTTTGGGGCTTCTCCCTCCCGTTTCAGGGGAAAGGTCTGAGTCTCCACGTTTCAGACCAGCTTCTGGGG
GAAGGCAGTCCGGCAGGGAGACCGGGAGGGGTGGCCACACAGTGGGGAGCTGGGAGGTGGGGGAATGGTCCAG
ACTCCTCTCGGGGCCCTATCCACACAGGGCCTGGTGTCTACCCCATCTGGCCCCCTGGCCATCTCTTCTGTGC
CTTAGTCACATATGAAAGCGCCCCCTCCCTGGCTCCTCATCTGTCCACACGCTCCCTGGGGCTCTTAGTTTCAGCT
GCTGGCACTCGCAGGATCCTGCAGTGTGGGCCAGAGCCCTTGGACAGGCCTCAGGAGTGGTCAGGACCACCAA
GCCCCCTCTCTCCCCCTCCACACCTCTAGACCTGGGGCTCCGGAACCCCCAGCAGGCTGGGCTTATACTAGCTC
CTGACTTAGGAAGAGCCTCGTGTCAACACAGTGTCCCTACAGGCAAAGTGTCTTGGCATTAAAAACCCAGATTA
TCCCTGGGTTTGGGCTGCAGTCACCTGGAGAAGCTGGTAGGGTAAGGGAGAGGGACCCTGCCGGTGTTCAGTGGG
GATTCCTTCTTTTGGTCTCTTCTGGAATGAACAGGTTCCCTCCCTGCCACCTGTGAGGAGAGTTGGGGCCAGCC
GTCTTCTGCTGCTCTTCTTCTTCTCTGCTGGCAGAGGCTGCATGTGGGTGCCAGAGGCCAGCTCTCCCCCTCCAT
CTTGGGGGGGCGGAGCAGTTGGGGCCAGCTGCCGGGAGGGTGGGTGCAGACACAGGCTGAGGACCAGCCCTGG
CCCTGCCCGCCATCTGCTTTCACCAAGCTGTCTCTCCACCGTGGCTTCCCTTCTCCCTCCAGGCCAAAGTGCTG
CTGATTCCTACTCCCTTGGTTTTTGCCTGCCAGCGTTGCTGTTTGCCTGGAGGGTGGGGGGAGCTCAGTGGCAG
GGAATCAGCGGTCCGTGGGGTGGTGGGGACGGGAACATGTGCCCGACCGCTCCATCCCCCTCCTCCTCTTAGGAT
GCATAACCTACCTTGTCTTTTTTTTTTAAATTTCTTTCCAGGTAGAGTAGCTCTTTGTACATAAAGAATACTT
GAAAAATTAATTGTATGATGTATGAGAAGACAGAGTCTCCTAGTTTTGTATCTTGTGTATGACTGCCATGAGTT
CCACCAGAAAGCCACTCTATTTTGGTCCCTGTGACATTTTAAATGCGTGACAGAAGTGAGCAAATAAAGTGAGGA
AGAAATCTATATATGAGATAATATAGATTGTATTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6055

MEQPVFLMTTAAQAISGFFVWTALLITCHQIYMHLRCYSCPNEQRYIVRILFIVPIYAFDSWLSLLFFTNDQYYV
YFGTVRDCYEALVIYNFLSLCYEYLGGESSIMSEIRGKPIESSCMYGTCLWGKTYSIGFLRFCKQATLQFCVVK
PLMAVSTVVLQAFGKYRDGDFDVTSGYLYVTIIYNISVSLALYALFLFYFATRELLSPYSPVLKFFMVKSVIFLS
FWQGMLLAILEKCGAIPKIH SARVSVGEGTVAAGYQDFIICVEMFFAALALRHAFTYKVYADKRLDAQGRCAPMK
SISSSLKETMNP HDIVQDAIHNFS PAYQQYTQQSTLEPGPTWRGGAHGLSRSHSLSGARDNEKTLLLS DDEF

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FIGURE 6056

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FIGURE 6057

MPFFGNTFSPKKTPPRKSASLSNLHSLDRSTREVELGLEYGSPMTMNLAQSLKFENGQWIAETGVSGGVDRREVQ
RLRRRNQQL EEENNLLRLKVDIILLDMLSESTAESHLMEKELDELRI SRKRK

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FIGURE 6058

GGCACGAGGCAGTC**ATGG**CTGCCGCCGTGCTGCTGCCGGTGACAGGGGAACCCAGTCCCCGGACGAATTGCTCC
CGAAAGGCGACGCGGAGAAGCCTGAGGAGGAGCTGGAGGAGGACGACGATGAGGAGCTAGATGAGACCCTGTCGG
AGAGACTATGGGGCCTGACGGAGATGTTTCCGGAGAGGGTCCGGTCCGCGGCCGGAGCCACTTTTGATCTTTCCC
TCTTTGTGGCTCAGAAAATGTACAGGTTTTCCAGGGCAGCCTTGTGGATTGGGACCACTTCCTTTATGATCCTGG
TTCTTCCCGTTGTCTTTGAGACGGAGAAGTTGCAAATGGAGCAACAGCAGCAACTGCAGCAGCGGCAGATACTTC
TAGGACCTAACACAGGGCTCTCAGGAGGAATGCCAGGGGCTCTACCCTCACTTCCTGGAAAGATC**TAGA**TTGTTA
TTGCTGTTTGAGCTGTCTCAGTGGGATAAGTTTTGAAATTCAGTGTTTGAAGTGTGATAATTTGGATTTTTTTT
TTTTTAACTTTGGCACATTGATCTATCTAAACCCGGTGGGGAGAATTATCCCCACATTGTCTCATGGAAAGACTC
AACTTGCAACTGTGCCCTCCACACTATCCTTACTTCTGTCTCCACTCTGATACCAGAGTGCAGCCATGCAGACGG
TTATTCCAGCTCTGGTCACCCGACTCCTTTACCAAATTGCTCCTAACTGGAAGATCTCACTTTCCCTTGTGGG
GTAGGAACCGATGCCAGTGGGAGGGATGTGCCCTGACCATTAACGACTGTTTTTTTTTTTTTTTTTAAAGAATG
GAGTTGTTGGGGCGGGACATGCACACAATGTGAAACAGACAAAATGCATTACACCTGTAGTGTAAGTGGCCACT
ATGAATCCCTATGTATGAGAGGAGGGAGGCAGGCTGCAGCTTCAGCCACAGAATGGGGACTATGGAAGACAGCAG
GAGCTCATTTCTCTGCACATTTTGGCTGTGTAGACCTGTGTGTGTGTTAAAAAAGAGAAGTCAGTGCTCACTT
TTTGTATTTAAATATTAAAAATGATTCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 6059

MAAAVAAAGAGEPQSPDELLPKGDAEKPEEELEEDDDEELDETLSERLWGLTEMFPERVRSAAAGATFDLSLFVAQ
KMYRFSRAALWIGTTTFMILVLPVVFETEKLMQEQQQQLQQRQILLGPNTGLSGGMPGALPSLPGKI

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FIGURE 6060

ACTTTAAAGAGGGCTGCTCAACTGCAAGGACGCTGTAAGCAGGAAGAGAAGCCACAGCGCTTCAGAAAAGAGTGG
GACAGGGACAAGCATATCTAAGAGGCTGAACATGAATCCACAGATCAGAAACCCGATGAAGGCAATGTATCCAGG
CACATTCTACTTCCAATTTAAAAACCTATGGGAAGCCAACGATCGGAACGAAACTTGGCTGTGCTTCACCGTGGA
AGGTATAAAGCGCCGCTCAGTTGTCTCCTGGAAGACGGGCGTCTTCCGAAACCAGGTGGATTCTGAGACCCATTG
TCATGCAGAAAGGTGCTTCCTCTCTTGGTTCTGCGACGACATACTGTCTCCTAACACAAAGTACCAGGTCACCTG
GTACACATCTTGGAGCCCTTGCCCAGACTGTGCAGGGGAGGTGGCCGAGTTCCTGGCCAGGCACAGCAACGTGAA
TCTCACCATCTTCACCGCCCGCCTCTACTACTTCCAGTATCCATGTTACCAGGAGGGGCTCCGCAGCCTGAGTCA
GGAAGGGGTGCTGTGGAGATCATGGACTATGAAGATTTTAAATATTGTTGGGAAAACCTTTGTGTACAATGATAA
TGAGCCATTCAAGCCTTGGAAGGGATTAAAAACCAACTTTTCGACTTCTGAAAAGAAGGCTACGGGAGAGTCTCCA
GTGAGGGGTCTCCCTGGGCCTCATGGTCTGTCTCCTCTAGCCTCCTGCTCATGCTGCACGGGCCTCCCCTCCACC
CTGGACCCGCTCTGTTTCTGCCTGGTCATCCTGAGCCCTCCTGGCCTCAGGGCCATTCCACAGTGCTCCCCTGC
CTCACCCTTCCTCCTCGCTCTTCCAGACTCTTCCTGCAGAGGCTCCTTTCTGCCTCCATGGCTATCCATCCACC
CCCACAGACCCCGTTCTCCAGCCTGCGTGCCCTTAACCTGGCTTTTCCCATCTCCCCAGCATAACCAATCTTA
CTAAACTCATCCTAGGCTGGGCATGGTGACTCACGCCTGTAATCCCCAGCAATTTGGGAGGCAAAGGTGGGAGA
ATCGCGTGAGCCCAGGAGTTCAGACCAGGCTGGGTACATGACAAAGCCCCATCTCTACAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAG

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FIGURE 6061

CTCTACCGGCGGGATTGTGATGGCGTGATGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGCTTCC
TGCTTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCC
ACCTCACAGCCTTCCTGGGATACAAGGCTGGCATGACTCACATCGTGC GGGAAGTCGACAGGCCGGGATCCAAGG
TGAACAAGAAGGAGGTGGTGGAGGCTGTGACCATTGTAGAGACACCACCCATGGTGGTTGTGGGCATTGTGGGCT
ACGTGGAAACCCCTCGAGGCCTCCGGACCTTCAAGACTGTCTTTGCTGAGCACATCAGTGATGAATGCAAGAGGC
GTTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCTTTACCAAGTACTGCAAGAAATGGCAGGATGAGGATG
GCAAGAAGCAGCTGGAGAAGGACTTCAGCAGCATGAAGAAGTACTGCCAAGTCATCCGTGTCATTGCCACACCC
AGATGCGCCTGCTTCCTCTGCGCCAGAAGAAGGCCACCTGATGGAGATCCAGGTGAACGGAGGCACTGTGGCCG
AGAAGCTGGACTGGGCCCCGCGAGAGGCTTGAGCAGCAGGTACCTGTGAACCAAGTGTTTGGGCAGGATGAGATGA
TCGACGTCATCGGGGTGACCAAGGGCAAAGGCTACAAAGGGGTCACCAGTCGTTGGCACACCAAGAAGCTGCCCC
GCAAGACCCACCGAGGCCTGCGCAAGGTGGCCTGTATTGGGGCATGGCATCCTGCTCGTGTAGCCTTCTCTGTGG
CACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATTTATAAGATTGGCCAGGGCTACC
TTATCAAGGACGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTATCTGACAAGAGCATCAACCCTC
TGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTTCATGCTGAAAGGCTGTGTGGTGGGAACCAAGA
AGCGGGTGCTCACCCCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGGCGGGCTCTGGAGAAGATTGACCTTAAGT
TCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCAC
TGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCTTAATGCCAGGAACAGATTTTGCAGTTGGTGGGGTCTCAAT
AAAAGTTATTTTCCACTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6062

MSHRKFSAPRHGSLGFLPRKRSSRHRGKVKSFPKDDPSKPVHLTAFLGYKAGMTHIVREVDRPGSKV NKKEVVEA
VTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHISDECKRRFYKNWHKSKKKAF TKYCKKWQDE DGKKQLEKDF
SSMKKYCQVIRVIAHTQMRLLPLRQKKAHLMEIQVNGGTVAEKLDWARERLEQQVPVNQVFGQDEMIDVIGVTKG
KGYKGVTSRWHTKKLPRKTHRGLRKVACIGAWHPARVAFSVARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIK
NNASTDYDLSDKSINPLGGFVHYGEVTNDFVMLKGCVVGTKKRVLTLRKSLLVQTKRRALEKIDLKFIDTTSKFG
HGRFQTMEEKKAFMGPLKKDRIAKEEGA

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FIGURE 6063

CCCGCAGGGGTTCTTCCAAGATGGCGGCGCAGAGGAGGAGCTTGCTGCAGAGTGAGCAGCAGCCAAGCTGGACAG
ATGACCTGCCTCTCTGCCACCTCTCTGGGGTTGGCTCAGCCTCCAACCGCAGCTACTCTGCTGATGGCAAGGGCA
CTGAGAGCCACCCGCCAGAGGACAGCTGGCTCAAGTTCAGGAGTGAGAACAACCTGCTTCCTGTATGGGGTCTTCA
ACGGCTATGATGGCAACCGAGTGACCAACTTCGTGGCCAGCGGCTGTCCGCAGAGCTCCTGCTGGGCCAGCTGA
ATGCCGAGCAGCCGAGGCCGATGTGCGGCGTGTGCTGCTGCAGGCCTTCGATGTGGTGGAGAGGAGCTTCCTGG
AGTCCATTGACGACGCCTTGGCTGAGAAGGCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCTCAGCACCAGC
TGCTCCTCAGTATCAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGGGAAATTTCCGGAGGGGCCATGGCCG
TTGTGGCGGTCTTCTCAACAACAAGCTCTACGTCGCCAATGTGCGGTACAAACCGTGCACCTTTATGCAAATCGA
CAGTGGATGGGTTGCAGGTGACACAGCTGAACGTGGACCACACCACAGAGAACGAGGATGAGCTCTTCCGTCTTT
CGCAGCTGGGCTTGGATGCTGGAAAGATCAAGCAGGTGGGGATCATCTGTGGGCAGGAGAGCACCCGGCGGATCG
GGGATTACAAGGTTAAATATGGCTACACGGACATTGACCTTCTCAGCGCTGCCAAGTCCAAACCAATCATCGCAG
AGCCAGAAATCCATGGGGCACAGCCGCTGGATGGGGTGACGGCTTCTTGGTGCTGATGTCGGAGGGGTTGTACA
AGGCCCTAGAGGCAGCCCATGGGCCTGGGCAGGCCAACCAGGAGATTGCTGCGATGATTGACACTGAGTTTGCCA
AGCAGACCTCCCTGGACGCAGTGGCCCAGGCCGTCTGAGCCGGGTGAAGCGCATCCACAGCGACACCTTCGCCA
GTGGTGGGGAGCGTGCCAGGTTCTGCCCCCGGCACGAGGACATGACCCTGCTAGTGAGGAACTTTGGCTACCCGC
TGGGCGAAATGAGCCAGCCACACCGAGCCCAGCCCCAGCTGCAGGAGGACGAGTGTACCCTGTGTCTGTGCCAT
ACTCCAGCGCCCAGAGCACCAGCAAGACCAGCGTGACCTCTCCCTTGTCTATGCCCTCCCAGGGCCAGATGGTCA
ACGGGGCTCACAGTGCTTCCACCCTGGACGAAGCCACCCCCACCCTCACCAACCAAAGCCCCGACCTTAACCCTGC
AGTCCACCAACACGCACACGCAGAGCAGCAGCTCCAGCTCTGACGGAGGCCTCTTCCGCTCCCGGCCCGCCACT
CGCTCCCGCTGGCGAGGACGGTCTGTGTTGAGCCCTATGTGGACTTTGCTGAGTTTTACCGCTCTGGAGCGTGG
ACCATGGCGAGCAGAGCGTGGTGACAGCACCCTAGGGCAGCCGAGAAATGCAGCCCAAGCAGGGCCTGGCATGGG
GCAGGACAGGGTCCAGCCTTTTCTAATCTGTGCTGTGCCACAACGGCCAGCAGGTGCCCCATCCTCTGCCCAC
AGCAGACTCTGTCCCATGGCTCTCCGGGCAGTAGAGTGTGTGAGTGACAGCTGGACCTGTGGTTTACATACCTTGT
ACCACCCGGGAAGCTGAAGGCCACTTCCCTCCAGATGGCCTCAGCCAGGACCATCGCCCTTTCTCAGAGCAGAGG
GCCAGGTATAGAAACCGCAGTGGGCCTGCAAGCCGCCGAGCCTCCCCAGCAGCCTCCTACAGAGCAGGAAGAGG
CGCCCTGTGAACCTGAGTGTTGCAGGCCCAGCAGACCTGCTGTCCCAAGCCCACCCCTCCTCCCACCATCACC
TCCCTCACCTCGGGACAGTAGCCCTCCACTTCTCCAGCCTCTCAGCCCTGTGCTCCTGCATCCAGAGTGGAACCC
AGGCTGGTGTCCGCATCTGTCCCTGGGCCCCACCCCTGGACCTGCCTTGGTTGTGTCTATCTGTTGTAAACGTTCA
GGAGGACCAGGGCAGCATCTGGGGCCTGGGATGGCCACAGAAGGGGCAGGCCAGGTGGAAGGAGCCAGGGGGAA
GTGGTCTAAGAGACCTGGAAGTGCAGAGGATGGCGGCCTGGGCTTCCCCAGAGCCAGGCGTGCGGGAGAGGTGA
GGACTGGCCCCGGTGGGCTGAGGCAGGGGCCGCTGTGCTCAGGCCTGAGCCAGGGTGAGCTGGTGCCTGCCTTGC
ATTTTCCTTCTGGTGCTGTGAAGACCATAGGCTGGCAGGCAGCTGAGATGAACTGTCTTTACCACTGATGAGGGG
CCTCTGCCGGCTGAGGGTAGCAAGCAGGGGTTGTGAGTCAGGCTGGGGGACTTGTGTTGAAAGAAAGAGGAGTGGA
AAATGGTTCCAGGAGGGAAGAGGTTCTTTGAGACACAGTACCCTGGGAGGCATAGGAGAAGGGTCGGGCCAGCCC
AGCCCAGGGCCTGAGTTAGACTATTTCCACATGTTCTCTGCCTTCAGTGGGGAGGGGGTGCCACCAGGGCTGTC
GGCCAGGATTGCCACTCCTGTTTCAGAGGAAGCAGGCCGAGAGACTTGACCTTGGCCAAGCCACACAATCAGTG
GGGCAGCCAGAGCTCAGACCTGAGCCATTTTGTCTAGTATCCAGGACCCCCCGGATTCTCCACGCCCTCCCCATCT
CCCAGTCTCCCTGCCCCCATGCCCCAGACCGGCCACCAGGGACTAGCCGCTGTGCGACAGCCTCTGGGGTGCT
TGGTCTCTGCGAAGTCAAAGGCCTGACAGCTCTGTGGCCTGGGAATCCATTTTCTGCGGCAGAGCAGGGCCTGG
TGTGGAACCAGGGAGCTGTGGGAAGCCACAGCAGAAATGGAAGAAAAACAGGTCTCAGCCCAGGGTCTCTCGCTCA
CTCCCTCACTCCCCACTTTGAAGCCATCTCTGTTCTGCAGGTGAGAGGATTTAAAGTCAGTCACAAAGGCTTGGG
AACAAAAGGAATTC

6568/6881
FIGURE 6064

TGATGGGTGACCCGGGGAGAGGTACCCGGCCAGAGGCGAGTCTGCGGAGTGGTAGCGCGCACGGCCTGCGGTGT
GACACCCAGCCCCCTGCCAGTCCCCCATGGCCCCGTGGAGCCGAGAGGCGGTGCTGAGTCTCTATCGGGCTCTGTT
GCGCCAGGGCCGACAGCTTCGCTACACTGATCGAGACTTCTACTTTGCCTCCATCCGCCGTGAATTCCGAAAAAA
TCAGAAGCTAGAGGACGCTGAGGCCCGGGAGAGGCAGCTGGAGAAGGGCCTGGTCTTTCTCAACGGCAAATTGGG
GAGGATCATTAGGATCCTCCAAGGGAAAGAGGACAAAGGTGCCCTTCTGTAGACACTCCTGCTCTCTTCCATCCC
CATCTTACAGATGTATTAAGAAGCCTCAGATGAGCAATGGCAGGCGCTGGTGAGCGCAAAGGCAAGAAGGATGAC
AATGGCATTGGCACGGCCATTGACTTTGTGCTCTCCAATGCCCGGTGGTGCTGGGGGTGGGTGGAGCGGCCATG
CTGGGCATCGCCACGCTGGCAGTTAAGCGGATGTACGATCGGGCGATCAGTGCCCTACCAGCCCCACCCGCTG
AGCCATTGCGGGAAAAGGAGCTGGGAAGAACCAACTGGATGGGCTCCCCACGACTGCTGAACAGGGACATGAAG
ACGGGCCTGAGCCGGTCTTGCAGACCCTTCCCACAGACTCCTCCACCTTCGACACAGATACATTCTGCCCGCCC
CGGCCCCAAGCCAGTGGCCAGGAAGGGCCAGGTAGACTTGAAGAAGTCACGACTCCGCATGTCCCTGCAGGAGAAA
CTTCTTACTTACTACCGGAACCGGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCTGTGGAC
ATATGTGCCGAGCTCCGGAGCTTCTGCGGGCCAAGTTGCCTGACATGCCGCTTCGGGACATGTACTTGAGTGGC
AGCCTCTACGATGACCTGCAGGTGGTGACAGCTGACCACATCCAATCATTGTGCCCTTGTGCTGGAGCAGAAC
CTGTGGTCATGTATTCCTGGTGAAGACACCATCATGAATGTCCCTGGCTTCTTCTGGTGCGTCGTGAGAATCCA
GAGTACTTTCTCTGCTGGGAGCAGTTACTGGGACCGCTGTGTAGTAGGGGGCTACCTCTCTCCAAAGACAGTCGCA
GATACATTTGAGAAGGTAGTGGCTGGCTCCATCAATTGGCCAGCCATAGGGTCCCTCTTGGACTATGTGATCCGC
CCGGCCCCACCCCCAGAAGCCCTCACACTGGAGGTGCAGTATGAGCGTGACAAACATCTCTTCATTGACTTCCTG
CCATCAGTGACCTCGGTGACACAGTCTTGGTGGCCAAACCACACCGGCTAGCCCAGTATGACAACCTGTGGCGG
CTGAGCCTGCGTCCCGCGGAGACGGCACGCTGCGGGCTCTGGACCAGGCTGACTCGGGCTGCCGATCTCTGTGC
CTCAAGATCCTCAAGGCCATATGCAAGTCCACCCCGGCTCTGGGCCACCTCACTGCCAGCCAGCTAACCAATGTC
ATCCTCCACTTGGCCCAGGAGGAGGCTGACTGGTCTCCGGATATGCTGGCCGACCGTTTCTGTCAGGCCTTGAGG
GGACTTATCAGCTACTTAGAGGCTGGAGTCTGCCCAGTGCCCTAAACCCCAAGGACAAGGCCTTGAAGGAACGC
AGCCTTAGACATCAGGTGAGGATGATGGAGGTAGACAGTCGACTGAATGTCAGCTGGAAAATCCAGTCACTAGTT
GGGGTTTGGTGGCCATGTTTTCTACCCAGACAGGCCCTGCTTTTCTAGGATGTGGCCTTAGAGCAAGAACAGACC
CAACAGCCAGCCCTTCATCCTCCAGCGTCTGCCATAGGAATGTGAGAGGGGTGTTTGCTGAGCGCTCCGGGCACG
GCCAGAGGGCAAGTGAGCATGCACGGACCTCTCCCCCTGTCTGTTTCTACCCAGCACCTGGGGAGATCGGTG
CTACCAAGGAAGAGAGCACACAGATAAGACAGAGGGGAGGAGGTGGGCATTTCTACATTCTCCTTGTGTTGCCG
CTGCTGAGATTGCAGTATTTATTGCAATGTAAATGTATCCTGAAGGTGGGGAGGAATGTTTAATCTACCATGTCC
GTGTGTC

6569/6881
FIGURE 6065

GAAAACTCAGGCTTGGAACAGCACCTCGCGCGATAACCTGGCGTCCTCGGCCTTCACAATAAAAACTCTTCGCCG
GAAAACGACCTTTCCCGCCCACTGCGCTGACACCGGAAGCGAGGCGTGTCTGGGAGATCACTCCGCGCTCCGGC
GGCGAAGGAAAGAACGGA CTCTGATCATAGAAGCCTAGTAAAGTAGTACACCTCTCTCCTTTTCGTGAGGCCATAA
GAACAAACTCCTTTTCTCGTACAGCTACGCCCTGGGCATAAACGGTTGGGGCGTCAAAGGGAGGGAGGGAAGGG
AGCGGGCGGGAGGAGACGGTCACGTGGTCGCGGCGGAAGGATGCGTCTGTGCTGCGTCCCCATAGAGACGAAGTC
TATAAAGGGCCGGCGGGCGGCCACGGCAGCCATTTCTACTTTGCCCCGCCACAGATGTAGTTTTCTCTGCGCGTG
TGCCTTTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATTAGGGGCAGCAGTGCCCTGCGGCAGC
ATTGGCCTTTGTCAGCGGGCGGCAGCAGCACCAGGCTCTGCAGCGGCAACCCCCAGCGGCTTAAGCCATGGCCAGCG
TTGCTGTAACCGACAAAGACACCTTCGAATTAAGCACATTCCCTCGATTCCAGCAAAGCACCGCAACATGACCGAA
ATGAGCTTCCTGAGCAGCGAGGTGTTGGTGGGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAA
GAAAGCCTAGGTCTCTTAGATGATTACCTGGAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAG
GCTAAGGCGGGCTCCTCCGAATGGCTGGCTGTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCC
TTCTCCGGGACAGATTGGATGTTGGAGAAAATGGATTTGAAGGAGTTCGACTTGGATGCCCTGTTGGGTATAGAT
GACCTGAAACCATGCCAGATGACCTTCTGACCACGTTGGATGACACTTGTGATCTCTTTGCCCCCCTAGTCCAG
GAGACTAATAAGCAGCCCCCCCCAGACGGTGAACCAATTGGCCATCTCCAGAAAGTTTAACAAAACCCGACCAG
GTTGCCCCCTTCACCTTCTTACAACCTCTTCCCCCTTTCCCCAGGGGTCTGTCTCTCCACTCCAGATCATTCCTTT
AGTTTAGAGCTGGGCAGTGAAGTGGATATCACTGAAGGAGATAGGAAGCCAGACTACACTGCTTACGTTGCCATG
ATCCCTCAGTGCATAAAGGAGGAAGACACCCCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTAT
CTGGGGTCTCCTCAGCACAGCCCTCTACCAGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGT
GGGTCTGCCCCGTCCCAAACCTTACGATCCTCCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTG
GATAAGAAGCTGAAAAAATGGAGCAAAACAAGACAGCAGCCACTAGGTACCGCCAGAAAGAGGGGCGGAGCAG
GAGGCTCTTACTGGTGAGTGCAAAGAGCTGGAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCC
AAGGAGATCCAGTACCTGAAAGATTTGATAGAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGTCCCCTAGTTG
AGGATAGTCAGGAGCGTCAATGTGCTTGTACATAGAGTGCTGTAGCTGTGTGTTCCAATAAATTATTTGTAGGG
AAAGT

6570/6881
FIGURE 6066

GTCGGTCGCAGCCCGCTCGGGCCCGTTTCGCGCCCGTCCTGTTCGGCCACGTCCCGCGGGGTGGCGGGCGCGCTGCG
GCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGAAGCGGCCCTTCCTCAGCCG
GGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTTCGCCTCCGTGGGCCTCAATGTCCCTGCTTCTGTTTG
TTATTCCACACAGACGTCAAGGTGCCTGACTTCTCTGAATACCGCCGCCCTTGAAGTTTTAGATAGTACGAAGTC
TTCAAGAGAAAGCACCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAACTACTGTGGGTGTTCGCATA
TGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATGTGTTGGCCCTGGCGAAAAT
CGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCCTTCAAATGGAGAGGCAAACCCCTGTTTGTACG
TCATAGAACCCAGAAGGAAATTAAGCAGGAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCT
AGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTGCACTCATCTTGTTGTGTACCCATTGCAAA
TGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGG
TCCTGCTACTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCACTGACGATATGGTGATTGTTGGTTAGAGACT
TGGACTCAAGTCATAGGCTTCTTTCAGTCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACT
TGAAGTTGATTTGAAATATGTAAGAATTGATGATGATTTGCAAACATTAATGTGAAATAAATTGAATTTAATGT
TGAATACTTTCAGGCATTCACTTAATAAAGCCACTGTTAAGCACTGTTATGCTCAGTCATACACGCGAAAGGTAC
AACGTCCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTGTG

6571/6881
FIGURE 6067

MSASADVLALAKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTQKEIKQEAAVELSQLRDPQHDLDRVKKPEWVILI
GVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRLGPATLNLEVPTYEFTSDDMVIVG

6572/6881
FIGURE 6068

CCATGGCGGCTGGAGGCGATCATGGTTGCGCCGACAGCTACCGCTCACCTCTTGCCTCCCGCTATGCCAGCCCGG
AGATGTGCTTCGTGTTTTAGCGACAGGTATAAAATTCGGGACATGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCG
AGCAGACATTGGGTTTTGCCTATCACAGATGAACAAATCCAGGAGATGAAATCAAACCTGGAGAACATAGACTTCA
AGATGGCAGCTGAGGAAGAGAAACGTTTACGACATGATGTGATGGCTCACGTGCACACATTTGGCCACTGCTGTC
CAAAAGCTGCAGGCATTATTACCTTGGTGCTACTTCTTGCTATGTTGGAGACAATACTGACTTGATTATTCTTA
GAAATGCACTTGACCTGCTTTTGCCAAAGCTTGCCAGAGTGATCTCTCGGCTTGCCGACTTTGCTAAGGAACGAG
CCAGTCTACCCACATTAGGTTTTACACATTTCCAGCCTGCACAGCTGACCACAGTTGGGAAACGTTGCTGTCTTT
GGATTCAAGGATCTTTGCATGGATCTCCAGAATTGAAGCGTGTCCGAGATGACCTGCGCTTCCGGGGAGTAAAGG
GTACCACTGGCACTCAGGCCAGTTTCTGTCAGCTCTTTGAGGGAGATGACCATAAGGTAGAGCAGCTTGACAAGA
TGGTGACAGAAAAGGCAGGATTTAAGAGAGCTTTCATCATCACAGGGCAGACATATACACGAAAAGTGGATATTG
AAGTACTGTCTGTGCTGGCTAGCTTGGGGGCATCAGTGCACAAGATTTGCACCGACATACGCCTCCTGGCAAACC
TCAAGGAGATGGAGGAACCCTTTGAAAAACAGCAGATTGGCTCAAGTGCGATGCCATATAAGCGGAATCCCATGC
GTTCAGAACGTTGCTGCAGTCTTGCCCGCCACCTGATGACCCTTGTCATGGACCCGCTACAGACAGCATCTGTCC
AGTGGTTTGAACGCACACTGGATGATAGTGCCAACCGACGGATCTGTTTGGCCGAGGCATTTCTTACCGCAGATA
CTATATTGAATACGCTGCAGAACATTTCTGAAGGATTGGTTCGTGTACCCCAAAGTAATTGAACGGCGCATTTCGGC
AAGAGCTGCCTTTTCATGGCCACAGAGAACATCATCATGGCCATGGTCAAAGCTGGAGGTAGCCGCCAGGATTGCC
ATGAGAAAATCAGAGTGCTTTCTCAGCAGGCAGCTTCTGTGGTTAAGCAGGAAGGGGGTGACAATGACCTCATAG
AGCGTATCCAGGTTGATGCCTACTTCAGTCCCATTCCTCCAGTTGGATCATTTACTGGATCCTTCTTCTTTCA
CTGGTTCGTGCCTCCCAGCAGGTGCAGAGATTCTTAGAAGAGGAGGTGTATCCCCTGTTAAAACCATATGAAAGCG
TGATGAAGGTGAAAGCAGAATTATGTCTGTAGAGTTGGAAGAGAATTAAACGAAAATCATTGTTAATTGCTGAGG
CATGAAAATTGTGTTACTATAACGCCTTATTTTACCTCGAGAATTGTTACCTTAAATTAGTACAGCACTTTCTTC
TTCCCATGGTGCTTTTCTGTTTCTCAGTCTCACATTTCTCAACAAGGCAAAAACAAAGAGCGTTGAAGTTGACTC
TGCTCTTGCTAGTAAATGTAGTTCATACTTGAAAAA

6573/6881
FIGURE 6069

MAAGGDHGSPDSYRSPLASRYASPEMCFVFS DRYKFRTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLENIDFK
MAAEEKRLRHDMAHVHTFGHCCPKAAGIIHLGATSCYVGDNLDLIILRNALDILLPKLARVISRLADFAKERA
SLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRVRRDDLRFGRVKGTTGTQASFLQLFEGDDHKVEQLDKM
VTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEFPFEKQQIGSSAMPYKRNPMP
SERCCSLARHMLTLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADTILNTLQNISEGLVVYPKVIERRIRQ
ELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGDNDLIERIQVDAYFSPIHSQLDHLLDPSSFT
GRASQQVQRFLEEEVYPLLKPYESVMKVKAELCL

6574/6881
FIGURE 6070

GGGTGGGAGGAGCCAGCGGCCGGGGAGGTTCTAGTCTGTTCTGTCTTGCGGCAGCCGCCCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCCTGGAACCGGGCCGTAGCCCCCCCAGTTTCGCCCACCACCTCCCTACC**ATGG**ACC
CCCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAA
TGCGCTTCCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAAGCTAAATCAGAAG
AAAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAATCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGCCATTTTGTATGCCA
AGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTGAGCTCAGCCTTACAAGTGGCGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCTGTAAATTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAGAATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTTCCAGGTGGCTTTCTGGGGGAATGCCTGGTAATTTTCCCGGAGGAATGCCTGGAATGGGAGGGG
GCATGCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTCCTTAGTGATCCAGAGGTTCTTGACGCCATGCAGG
ATCCAGAAGTTATGGTGGCTTTCCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCG**TAA**TGTCCTTCTGATAAATAAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTCGCAATAATACAAACCAGTGACCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCAATTCAGATAATGTTTTCTACTAGGAATTACAAACTTTAAACACTTTTTAAATCTT
CAAAATATTTAAACAAATTTAAAGGGCCTGTTAATTCCTTATATTTTTCTTTACTAATCATTTTGGATTTTTTTC
TTTGAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTTGAGGATAAAAGTTTGTGTTGGATATGTGGTTTCTGATGCATTTTGACTTGCTTTTTTA
AATGCTTTATCTTTTTCTTTAAAGATTTATTTCAATAAAACTAATTGGGACCACCCGTATTTTCAGTAGGACCTGG
GTAGGGATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTTTGTAATGCTGCAGTAGAGTTGGAGTACTTAGTTCCTC
TTGTTGTCCAGTATATCTAATAAGTGTTTTTCATATTATTTCCACGTAAGGGAAATAAGGTAGTACTTTTTCTTTT
TATATTTCTATGCTTAAATTTCTTTCTTAGTCAAAAATTGCCCAAATCTGTGTTTGCTTTCTGCTTGCTACAT
TTGTCTCCCTTACTTTTCTTGAGCTAAAGACAGGCTTTTTCCACCGGCATCATCACTGCTATCATCATTAAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTTAATTTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACGTAGTTTCTTACTTGGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAATCTTGC
CTTATCAGAAGACATTGGAAAGAGGGATTCCCTTTGGTGTGTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTCATCTTTGTATTCTGAAGATAAGGTTTGAATTAAATTGATACACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCATTGTGGAGTTGTTGAGACTATGAAAG
ACTCATTGCTTTTGATTTCAGCTCTTAAATAGTGTAATAATCCCCACCTCTGCTTGCTTTCTTTCCCTCCCTC
CCAATGATAAAGAAAATGATAAATTTTCTGTTGTGCATTCAATTCCTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGCTACGTTTCTACCAGTGTTCAATTTAAAGTGCTAGTGTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATCTATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTATTCAGGTTCTAACCCCTTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAAGCTATTATGCTGATGGAGCATGCTTTTTAAATCCTTTAAAAACACTCACCA
TATAAECTTGCAATTTGAGCTTGTGTGTTCTTTGTTAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTGT
ACTTGGCTTAACTCAAGAACAGTTTCTTCTGGATTCCCTATTTGATTTATTTAACTAATTATATTCTAATATTG
CAATATTACCATAAGTGGGTAAAAGTAAAATTCCTCTTCTGAAAAA

6575/6881
FIGURE 6071

MDPRKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGGKVPPATQKAKSEENTKEEKPDSSKKVEEDLKADEPS
SEESDLEIDKEGVIEPDTDAPOEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNPRILAIL
YAKRASVFKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQ
PRAQKIAEHRRKYERKREEREIKERIERVKKAREEHERAQREEEARRQSGAQYGSFPGGFFPGMPGNFPGGMPGM
GGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQNPNAMSKYQSNPKVMNLISKLSAKFGGQA

6576/6881
FIGURE 6072

CCCAAAATGGCGGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGCGGGCAAGAAGCGCTTTGAA
GTGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCAC
ATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTAAGTGTGCATGGGGA
GTCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAAC
AGAGAGTGGGAATTCCAAAAGTATGGGCACCTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTCAT
TTAATTGACTTTCCCTGCTGTTACCTAATTACAAATTGGATGGAAGTGTGTTTTTTCTGCTTTGTTTTTTCAGT
TTGCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG

6577/6881
FIGURE 6073

MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCECQANQASATSEECTVANGVC
NHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

6578/6881
FIGURE 6074

GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGCGCAGACGGGTAGGGGAGCCAACATGCCAGTGGCCCGGAGC
TGGGTTTGTGCGCAAACTTACGTGACCCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTTT
TTAGAGAGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTAGGGTCCGCAAGCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAG
CACATCGACTTCTCTCTGTGCTCTCCCTATGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAGCCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA

6579/6881
FIGURE 6075

ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACCTCAACACTGCAGAAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTTCGGG
CCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCTGCAGGAACCTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCCTGGCATC
ACTGCCCTGGCCAGGCTTTGCTGTCAACCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAATTTGGGGACTGCCTG
GTGCGCTCCAAGGTTGCAGTTGCCATTGCAGATGCCATCCGCGGCGGCCCTGCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCCTCCCCACCTCCTGCAGACGTCTCCACCTTCCTGGCTTTTCCCTCTCCAGAGAAGCTCCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCCAGCAGACTGACACGTCTGACCCGAGAAGGTGGTCTCTGCCTTCCTAAAG
GTGTCATCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCCCTTCAACTCCAACACCTTCCTCACCAGGCTCCTCGTGCACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCCAAGGCCCTTGCACCCCCTGCTGCTGGCGTTTCGTGACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCCCACAGTCTGCTGCAGACGCTGTACAAGGTCT**TAG**

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FIGURE 6076

MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNTAEDAKDVIKEIEDFDSLEALRLEGNTVGVEAARVIAKALEK
KSELKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSACFTLQELKLN
NCGMGIGGGKILAAALTECHRKSSAQGKPLALKVVFVAGRNRLNDGATALAEAFRVIGTLEEVHMPQNGINHPGI
TALAQAFAVNPLLRVINLNDNTFTEKGAVAMAETLKTTLRQVEVINFGDCLVRSKGAVAIADAIRGGLPKLKEINL
SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEVLEGFNMAKVLASLSDDEDEEEEEEGEEEEEE
AEEEEEEDEEEEEEEEEEEEEEPQQRGQGEKSATPSRKILDPNTGEPAPVLSSPPPADVSTFLAFPSPKLLRLG
PKSSVLIAQQTDTSDPEKVVSAFLKVSSVFKDEATVRMAVQDAVDALMQKAFNSSSFNSNTFLTRLLVHMGLLKS
EDKVKAIANLYGPLMALNHMVQDYFPKALAPLLLAFTKPNSALESCSFARHSLQLTLYKV

6581/6881
FIGURE 6077

CGGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACG**ATGT**CCGACGCGGGCGGGCGGAAAGAAGCCGCCTGTGGAC
CCGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTGCGGGGTCCCTTCCCCCTGGTC
CTGAAGAAGCTGATGGAGAACCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAG
GACGAGGCCGCGAGCCGCCAGCACCATGGCTGTCTCAGCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCA
TATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCCTGCTGGAGAATGGCATCCCCGCCAGC
CCCACCCACCTGGCCCACAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACA
GCATCCCCACCATCCTCCTCCACTGCCATCTTTCAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAG
AAGGAGAGGGAGACTCCAGTCCCATCGACCCCAATTGTGTGGAAGTGGATGTGAACTTCAATCCGGACCCCGCC
GACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAAGTTTGCTGAGGAGGACCTG
AAGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCGACGAGCAGAAGGATGAAAAGTACTGGACA
AGACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCGGCGCCTGAAAGAGAATCAGATCACCATC
CGGGCAGCCTTCTTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAG
TGCAAGACCATCGTGTCCAAGTATGAGACCAAATACGGGCCCTTG**TAA**CCCGTGCCCCCGCCCCGGGCGGGGTAC
TGCTGCACCTCAGACCTCTGCCTG

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FIGURE 6078

MSDAGGGKKPPVDPQAGPGPGPGRAAGERGLSGSFPLVLKKLMENPPREARLDKEKGKEKLEEDAAAAASTMAVS
ASLMPP IWDKTIPYDGESFHLEYMDLDEFLLENGIPASPTHLAHNLLLPVAELEGKESASSSTASPPSSSTAIFQ
PSETVSSSTESSLEKERETPSPIDPNCVEVDVNFNPDPADLVLSVPGGELFNPRKHKFAEEDLKPQPMIKKAKKV
FVPDEQKDEKYWTRRKNNVAAKRSRDARRLKENQITIRAAFLEKENTALRTEVAELRKEVGKCKTIVSKYETKY
GPL

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FIGURE 6079

CATCTTTGTCAGTGCACAAA**ATG**GCGCCCTACAGCCTACTGGTGACTCGGCTGCAGAAAGCTCTGGGTGTGCGGC
AGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTTGAGCCCAACGAGTACATCC
ATTATGACCTGCTAGAGAAGAACATTAAACATTGTTTCGCAAACGACTGAACCGGCCGCTGACACTCTCGGAGAAGA
TTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCGTACCTGCGGCTGCGGCCGG
ACCGTGTGGCCATGCAGGATGCGACGGCCCGAGATGGCCATGCTCCAGTTCATCAGCAGCGGGCTGTCCAAGGTGG
CTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAAGCCAGGTTGGGGGCGAGAAAGACCTGCGCCGGGCCA
AGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGCGTGGGCTTCTGGAAGCCTG
GATCTGGAATCATTACCAGATTATTCTGGAAAACATATGCGTACCTGGTGTTCCTCTGATTGGCACTGACTCCC
ACACCCCCAATGGTGGCGGCCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGATGCTGTGGATGTCATGGCTG
GGATCCCCCTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCTCTCTCCGGTTGGTCTCTAC
CCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAGGTGGCACAGGTGCAATCGTGAATACCACG
GGCCTGGTGTAGACTCCATCTCCTGCACTGGCATGGCGACAATCTGCAACATGGGTGCAGAAATTGGGGCCACCA
CTTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGGAAGACATTGCCAATCTAG
CTGATGAATCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTAATTGAAATTAACCTCAGTG
AGCTGAAGCCACACATCAATGGGCCCTTCAACCCCTGACCTGGCTCACCCCTGTGGCAGAAGTGGGCAAGGTGGCAG
AGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAATTCAAGCTATGAAGATATGG
GGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGCAAGTCCCAGTTCACCATCACTCCAG
GTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGGGATCTGGGTGGCATTGTCC
TGGCCAATGCTTGTGGCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAGGGGGAGAAGAACAACATCG
TCACCTCCTACAACAGGAACCTCACGGGCCGCAACGACGCAAACCCCGAGACCCATGCCTTTGTACGTCCCCAG
AGATTGTCACAGCCCTGGCCATTGCGGGAACCCTCAAGTTCAACCCAGAGACCGACTACCTGACGGGCACGGATG
GCAAGAAGTTCAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTTGACCCAGGGCAGGACACCT
ACCAGCACCCACCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGCCAGCGCCTGCAGCTCCTGG
AGCCTTTTGACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAGGTCAAAGGGAAGTGTACCA
CTGACCACATCTCAGCTGCTGGCCCTGGCTCAAGTTCCGTGGGCACTTGGATAACATCTCCAACAACCTGCTCA
TTGGTGCCATCAACATTGAAAACGGCAAGGCCAACTCCGTGCGCAATGCCGTCACTCAGGAGTTTGGCCCCGTCC
CTGACACTGCCCCGCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGACGAGAACTACGGCGAGGGCT
CGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCCGGGCCATCATCACCAGAGCTTTGCCAGGA
TCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCGGCTGACTACAACAAGATTC
ACCCTGTGGACAAGCTGACCATTACAGGGCCTGAAGGACTTCACCCCTGGCAAGCCCTGAAGTGCATCATCAAGC
ACCCCAACGGGACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACGCAGATTGAGTGGTTCCGCGCTG
GCAGTGCCCTCAACAGAATGAAGGAAGTGAACAG**TGAG**GGGCAGTGCCTCCCCGCCGCGCTGGCGTCAAGTTCAG
CTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTCCAAGTAGTGTAAACC

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FIGURE 6080

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIVYGHLD
DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEV
YNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELK
CPKVIQVGLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAIEGATTSVFPYN
HRMKKYLSTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPL
DIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGP
CIGQWDRKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYLTGTDGKKFRLE
APDADELPGKEFDPGQDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAA
GPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAVTOEFQGPVDTARYYKKHGIRWVIGDENYEGSSREHAA
LEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADFPADYNKIHPVDKLTIQGLKDFTPGKPLKCIKHPNGTQE
TILLNHTFNETQIEWFRAGSALNRMKELQQ

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FIGURE 6081

GCGGGCCGTTATCCATTTGTGTTGTTTCGCCAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTTCGGTCTCGCGCG
CCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGAGGCCCGCCTGCGTTTGAGGCCCGCCTGCGCTTGCG
GCCCCGCTGCGCTTGAGGCCTGTCTGCGTTTGAGATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTG
GCGGTATTGAGGACGAGGGGGTCCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCCTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCCGCGGGGCCGCCCGGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCCATGCGATTTACATGCAGTCCGACTGCCGAGCTTTCGAGGCAGCAGGATTTAC
CGTCCACATTCCTCACTACTAACCAAGCTTTTAGAACAGATCTCACAAGAACCTAGAGGTCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGTCTTTTCGCTAGTGAGCAGTAGCCAACATGTCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCTTGAAGCAAGTGGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTTGGTTGATGCCTCCAAGGCTATGTTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGTATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATCT
CTTGCGTGTGGTGTCTATGGTACCGAGAAAGACAAAAATTCAGTGAATTTTAAAAATATTTACGTCTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATTCAGAGCTTGACCAGTTTAAAGGGGCGAGCAGGGACAAAAACGTTTCCA
AGACATGATGGGCCACGGATCTGACTACTCACTCAGTGAAGTGCTGTGGGTCTGTGCCAACCTCTTTAGTGATGT
CCAATTCAAGATGAGTCATAAGAGGATCATGCTGTTTACCAATGAAGACAACCCCCATGGCAATGACAGTGCCAA
AGCCAGCCGGGCCAGGACCAAAGCCGGTGATCTCCGAGATACAGGCATCTTCCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTCTACAGAGATATCATCAGCATAGCAGAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTTCGCGCCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCTCCTCCAATAAAGCTCTATCGGGAACAAATGAACCAGTGAAAACCAAGACCCGGACCTTTAATACAAGTAC
AGGCGGTTTGCTTCTGCCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATTACCTGAGGCCCTCCCTGTTTCGTGTACCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCAGCATTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTTTACCCTTTGCTGATGATAAAAAGGAAGATGCCCTTTACTGAAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTCACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCCTTGGCCTTGATTTGATGGAGCCGGAACAAGCAGTGGACCTGAC
ATTGCCCAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGATGAGTTTAAAGGAGCTTGTTTACCCACC
AGATTACAATCCTGAAGGGAAGTTACCAAGAGAAAACACGATAATGAAGGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTCAGAAGAGGAGCTGAAGACCCACATCAGCAAGGGTACGCTGGGCAAGTTCACTGTGCCCATGCTGAA
AGAGGCCCTGCCGGGCTTACGGGCTGAAGAGTGGTCTGAAGAAGCAGGAGCTGCTGGAAGCCCTCACCAAGCACTT
CCAGGACTGACCAGAGGCCGCGCGTCCAGCTGCCCTTCCGCAGTGTGGCCAGGCTGCCCTGGCCTTGCTCCTCAGCC
AGTTAAAATGTGTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACTTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCCACTTTGCTGTTCTTTACTTTACTGCCTGAATAAAGAGCCCTAAG
TTTGTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6082

MSGWESYYKTEGDEEAEEEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKI
ISSDRDLLAVVFYGTEDKNSVNFKNIIYVLQELDNPGAKRILELDQFKGQQGQKRFDMMGHGSDYSLSEVLWVC
ANLFSQVQFKMSHKRIMLFTNEDNPHGNSAKASRARTKAGDLRDTGIFLDLMHLKKPGGFDISLFYRDIISIAE
DEDLRVHFEESKLEDLLRKVRACKETRKALSRLKLKLNKDIVISVGIYNLVQKALKPPPICKLYRETNEPVKTKT
RTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDGPGLMLMGFKPLVLLKKHHYLRPSLFVYPEESLV
IGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQKIQVTPPGFQLVFLPFADDKRKMPFTE
KIMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQQHFRNLEALALDLMEPEQAVDLTLPKVEAMNKRKLSLVDEF
KELVYPDYNDPEGKVTKRKHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLKEACRAYGLKSGLKKQELL
EALTKHFQD

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FIGURE 6083

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCT**ATG**ACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTCAGCAGTCATGTAACATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCCCTCAACAGGGGCATCTCTGAGTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCT**TAA**ACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTTGTGTTGTTTTGTCTGTTTTACAGGGTTGCTATCCCCCTTCCTTTCCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTTGGAACAAGTGTTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGGGAATTAACAGCATTTCATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTATACGTGTTCAAGTGATCAAGGGTTTTCATTTGCTCTTGGGGGATTAGGTATCATTTGGGGAGGAAGCATG
TGTTCTGTGAGGTTGTTTCGGCTATGTCCAAGTGTGTTTTACTAATGTACCCCTGCTGTTTGTCTTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAACTGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCCTGTGTCCTGCCACCATGTGGGTCAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCATTTTG

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FIGURE 6084

MTEADVNP KAYPLAD AHLT KKL L DLVQQSCNYKQLRK GANEATKTLNRGISEFIVMAADAEPL EII LHLPLL CED
KNVPYVFVRSKQALGRACGVSRPVIACSVTIKEGSQLKQQIQSIQQS IERLLV

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FIGURE 6085A

CCGTCGGTGAGGCGGTGCCGGGCGGGGGTTGTCGGGTGTCATGGGCGGTGGCGACGGCACCGCCCCGCGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCG**ATGG**ACGACAGCGGCGAGCTGGGTGGTCTGGAG
ACCATGGAGACCCTCACGGAGCTGGGCGACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGT
AATCAAGTGGGAGAGTTCCCTGACTTGTTTTTCAGAACAGCTGTGTAGCTCCTTTTCTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAGCAATGGCAGGGGCAGCAGCAGCGGAGCTGTGGACCCT
TCAGTGCAACGGTCATTACCCAGGTCACATTACCTTCTCTCCCTCGGCGGCCTCCCCACAGGCTCCAACCT
CTGCAAGTCAAGGTTTTCTCCACCTCAGTTCCCACCACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCAG
CCCCAGCCTCAACCTCAAACCTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTACAGCACCCTCCGCAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTCAAGTCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCCTCCAGGTACAGCCGGTCACCATTACAGCAGCAGGTGCAGACAGTACAGGCCCAGCGGGTG
CTGACACAAACGGCCAATGGCACGCTGCAGACCCTTGCCCCGGCTACGGTGCAGACAGTTGCTGCGCCACAGGTG
CAGCAGGTCCCGGTCTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTTTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACCCGGCCCTCACCGCCCTCACACCCCTATCCAGACGGCTGCCCTT
CAAGTACCAACCCTGGTGGGCAGCAGTGGGACCATTCTGACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTG
CCCATTAAAGCAGGTACCTGGGGGAGTCAAGCAGCTTGAGCCCCCAAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGACAGCAGGTCAATCATAAA
CTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTCACCTTCCTGTGCCTCTCCTTTAACCCCTGACTTCCCTGTCTGCAGTGGGGAGGGGGCCACGACTCTGACCAG
CACCCACACTCAGGCTCTGGCCGCAGTGCTCTGTCAATTCGAGTCAGGTTCTGGGGGCTGGTTTGACTGGATGATG
CCTACTCTTCTCTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGTCTTTGTGAAGCTGCTGGTTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGCAGCTGCTGCCGCCAACCTACAAACCTGCCTGGCAGTTTTGGGCCGGGCACTGCCCACCTCC
CGCTGGACCTGGCCTGCAGCCTCTCCTGGAACGTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGCCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGCCACGCCAGCCACTGAGGCAGGCTTTGAAGACGAAGCTAAGACC
AGCGCCCGGGATGCGGCTCTGGCCTATCACCGGTGCACCAGCTGCACATCACAGGGAAGCTTCTGCAGGATCC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCCACCGAGC
ACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGGCC
AGCTACTTCTCAGCCGAGCCCAGAGCCTGTGTGGCCCCGAGCACAGTGCTGTTCTGACTCCCTGCGCTGGCTC
TGCCACCCCTGGGCCAGAAAGTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATAC
TGTGCCCAGAGGAACCCAGCTGACCCCAATTGCGCAGGTCCACCAGGCCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCCTTGGTGAAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTCATTCTTTTGTGGACTCTGTGGGGGTTATGAGCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCAGCAGAGTTCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCAAGTGGGGGC
ACCTCTGACCCTGCCCTCAACCACGTGGTCCAGCTGCTCACCTGTGACCTGCTACTGTGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCGTCAGGCGCTGAACTGGCGGGCTTC
CAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCCCCAGCATAACCGCAAGGTGTTCTGTCATGAA
GCCACCGTGCGCCTGATGGCAGGAGGCAGCCCCACCCGCACCCACCAGCTGCTGGAACACAGCCTGCGGCGGGCGC
ACCACGCAGAGCACCAAGCACGGAGAGGTGGATGCCTGGCCCGGCCAGCGAGAGCGGGCCACCGCCATCCTGCTG
GCCTGCGGCCACCTGCCCCCTCTCCTTCTCTCTCCCCGGGCCAGCGGGCAGTGCTGCTGGCCGAAGCTGCCCGC
ACCCTGGAGAAGGTGGGCGACCGGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCTCTCT**TGA**CCACCAGGCTCAGCCACCCCTCCACCTCTCTCTCGATTCTCTCTCTCCCCCTCAG

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FIGURE 6085B

CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTCACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAACCCCTACTCTCTCCTTTTTGCTTCCTCAGTTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTTCTACCAAGTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAAATAAATGGTATCTTA

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FIGURE 6086

MDDSGELGGLETMETLTELGDDELTLGDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGGSGSSSGSSSSSSSSN
GRGSSSGAVDP SVQRSFTQVTLPSFSPSAASPQAPTLQVKVSP TSVPTTPRATPILQPRPQPQPQPQTQLQQQTV
MITPTFSTTPQTRI IQQPLIYQNAATSFQVLQPQVQSLVTSSQVQPV TIQQQVQTVQAQRVLTQTANGTLQTLAP
ATVQTVAAPQVQQVPVLVQPQIIKTDSLVLTTLKT DGSVMMAVQNPALTALTTPIQTAALQVPTLVGSSSGTILT
TMPVMMGQEKVPIKQVPGGVKQLEPPKEGERRTTHNII EKRYRSSINDKIIELKDLVMGTD AKMHKSGVLRKAID
YIKYLQQVNHKL RQENMVLKLANQKNKLLKGIDLGS LVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSID
SEPGSPLDDAKVKDEPDSPVALGMVDRSRILLCVLTF LCLSFNPLTSL LQWGGAHDS DQHPHSGSGRSVLSFE
SGSGGWFDWMMPTLLLWL VNGVIVLSVFVKLLVHG EPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAAANLQTC
LAVLGRALPTSRDLACSLSWNVIRYSLQKLRLVRWLLK KVFQCRRA TPATEAGFEDEAKTSARDAALAYHRLHQ
LHITGKLPAGSACSDVHMA LCAVNLAECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPE
HSAVPDSLRLWCHPLGQKFFMERSWSVKSAAKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPQAKKKAG
DQEEESCEFPSSALEYLKLLHSFVDSVGVMS PPLSRSSVLKSALGPDII CRWWTSAITVAISWLQGDDAAVRSHFT
KVERIPKALEVTESPLVKAIFHACRAMHASLP GKADGQSSSFCHCERASGHLWSSLNVSGGTSDPALNHVVQLLT
CDLLLSLRTALWQKQASASQAVGETYHASGAELAGFQRDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGGSPTRT
HQLLEHSLRRRTTQSTKHGEVDWPGQ RERATAILLACRHLPLSFLSSPGQRAVLLAEAA RTLEKVGDRRSCNDC
QQMIVKLGGGT AIAAS

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FIGURE 6087A

GATTTCGAGTCAGAAGCGGCGGCAGGTCTGAACGCTTCGGTAGGATAAGTGCGGTGGGAGGGGGCTCTGCGGTTTT
GGGGAGCCCAGGGCGGGAACCCGGACCCGGCTGGAAGTCCGGAGCCTGGCCGCAGCCCCGCCCCCTCCGCTCTTTC
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTCTGAGCCCGGGCGGGGCCGAAGGCGGCCCTAGGCCCTCGGGAC
TCCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTCGTATTTCTGAAGGAAGAACTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTGGGGACCGAGTGTACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCAGTGCTTTTCAGACGTTTCTTAGCTTCCAGAGCCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGCTCT
TGCTGGGACATGTGGCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCCATGGGCTGGCTGGCCT
GGGAACGCTTCCGCTGCAACATTAAGTGTGATGAGGACCCAAAGAACTGCATAAGTGAACAGCTCTTCATGGAGA
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATACCTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCCTGATGCCGGATCCCAAGCGCTTCCCTCATGGCATTCTTTCTGGCTGACT
ACGTTCACTCCCTGGGCCTGAAGTTGGGTATCTACGCGGACATGGGCAACTTCACCTGCATGGGTTACCCAGGCA
CCACACTGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCCGAGTGGAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCCGAGGAGCGGGCCCAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCA
TCGCCTTCTCCTGCAGCTGGCCAGCCTATGAAGGCGGCCTCCCCCAAGGGTGAAGTACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAAGTATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTTCG
TGGAGCACCAGGACATACTGCAGCCAGTGGCCGGCCCTGGGCACTGGAATGACCCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCCAGATGGCCCTGTGGACGGTGCTGGCAGCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGGACGCAGGATTACAAGGAAAAATCTCTCATCGAAGTGATACATGCGGCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTTCAGCTGCAGGACCGATATGCCTTATCGCTACCACTCCTCCCTTGCCAGC
TGAACCTTACCGGGTCTGTGATATATGAGGCCCAGGACGTCTACTCAGGTGACATCATCAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCCTTCAGGGGTAGTGATGTGGTACCTGTATCCCATCAAGAACCTGGAGA
TGTCCCAGCAGTGAGGAGCTGGGACATGTGACAGGCTGTGGTGGCACCCTGAGCCTAGACCATGGAGCCTTGGC
ATGCCCAGGGCAAGTGGGGAGGTTCTCTGCTCCCCAGGCCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCACGGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCCTCTTGGAACCTTCTTTTGGGGCAATTTTCTGTG
GCCTTCTTGCCCTTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTTGACTCTGAAATCAGGATTGGAAGTTTTCGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGCA
CCTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTCACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGGACTCTGGTGGCACTACACGGGTGCTGGATTCA
AATCTCACCTCTATGGATGATGTCTGGCATCGTCTGGCCCCCTCCTTTTCCAAAGTGACCAGAAGATTGTACTTCC
TAGAGATGCCAGACTTGCCCTCACACCCAGGAGCTGCCCTGCTGTGCCTGGTATGCTGGCAGTGGTGATGGTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCAGGTCTGCAGCTTGTGCTCTGCCCAGCAGTGCCCTGGCCCCAGC
ACCTCAGCCTGCTCTTCTCTCTGGTGGCTCCACCCCAACCCCTACTTCTTTTCTTTTCTCTCTCCCAACCTGG
CTGCAAAGGAGGTTTCATATTCCCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGTCTTAAATTGATTTCCCTG
TCCCTCTTCTTAAGGACAGGGGTAACAGTCAAAGTGAAGGAATGATGGGTTCTTGCCTGTCTTGCTTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGTCTTCCCTGGTGGCTCTCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCTCCTTGGGCTTTGAATGCAGGAGCACCCAGTGCCCCAGGCCTTGCA
CTGTGCTGCCCAAGGAGTATTTTCTGGGTGGATCTCCCATACTCCTCAGGGTTCTGAGGTCTTGTATTTAGGGT
ATGGTGTAAAAACTTACATATGCACATTTTGTACATCATTTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTCCCTTCCCCAGTTGATGTCTTGAGGCTGTTGAGAACTTAGGACAGAAGCCTACCTCAT
CCCAGGCCTGCCCTCCGTGCATAGCTCTGCCTTTGGGTCTTGTTTCATAGTGCTGTTTACGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTCTTGCTAGCTCCAGGAAGGCTTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCCTTACCTTTCAGCCCAAGATAGCTACATGTCTT
TACTTGCTGTATAAGTTTTCTTTTGTCTGGGGGTGCCTGATTGATCCTATCTCTTACCCTTCATTCTTTCAA
CAAACATGCCATCTATCTCCAGGACATTTATTCCCTTCTATTCAAGGCCAGTTAGGAATGCAATTATTTTTTTT
TTTCAGTTAAATACAGACTTGTGGACGCAAGGTACCCTTTCTCTTTTAAAACTTTTTATCATGAAAACCTTT

6593/6881
FIGURE 6087B

CAAATACAAAAATAAAATGGTAGAGTGAACCTCCATG

6594/6881
FIGURE 6088

GAGAGTGTCTCTGCCTGGTCTCTGTGCCTGGTGGGGTGGGGGTGCCAGGTGTGTCCAGAGGAGCCCAGTTGGTAG
TGAGGCAGCCATGGGGCTAGAAGCACTGGTGGCCCTGGCCATGATAGTGGCCATCTTCCTGCTCCTGGTGGACCT
GATGCACCGGCACCAACGCTGGGCTGCACGCTACCCGCCAGGTCCCCTGCCACTGCCCGGGCTGGGCAACCTTGC
TGCATGTGGACTTCCAGAACACACCATACTGCTTCGACCAGTTGCGGGCGCCGCTTCGGGGACGTGTTACAGCCTGC
AGCTGGCCTGGACGCCCGGTGGTTCGTGCTCAATGGGCTGGCGGCCGTGCGCGAGGCGATGGTGACCCGCGGCGAGG
ACACGGCCGACCGCCCGCCTGCGCCCACTTACCAGGTCTTGGGCTTCGGGCCGCGTTCCCAAGGGGTGATCCTGT
CGCGCTATGGGCCCCGCTGGCGCGAGCAGAGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCCTGGGCAAGA
AGTCGCTGGAGCAGTGGGTGACCGAGGAGGCGCCTGCCTTTGTGCCGCTTCGCCGACCAAGCCGGACGCCCCCT
TTCGCCCCAACGGCCTCTTGACAAAAGCCGTGAGCAACGTGATCGCCTCCCTCACCTGCGGGCGCCGCTTCGAGT
ACGACGACCCTCGCTTCCTCAGGCTGCTGGACCTAGCTCAGGAGGGACTGAAGGAGGAGTCGGGCTTCCTGCGCG
AGGTGCTGAATGCTGTCCCCGTCTCCCGCACATCCCAGCGCTGGCTGGCAAGGTCTACGCTTCCAAAAGGCTT
TCCTGACCCAGCTGGATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCCAGCCACCCCCGAGACCTGA
CTGAGGCCTTCCTGGCAAAGAAGGAGAAGGCCAAGGGGAGCCCTGAGAGCAGCTTCAATGATGAGAACCTGCGCA
TAGTGGTGGGTAACTGTTCTTGGCGGGATGGTGACCACCTCGACCACGCTGGCCTGGGGCCTCCTGCTCATGA
TCCTACACCTGGATGTGCAGCTCCGTGTCCAACAGGAGATCGACGACGTGATAGGGCAGGTGCGGCGACCAGAGA
TGGGTGACCAGGCTCACATGCCCTGCACCACTGCCGTGATTACGAGGTGCAGCGCTTTGGGGACATCATCCCCC
TGAGTGTGACCCATATGACATCCCGTGACATCGAAGTACAGGGCTTCCGCATCCCTAAGGGAACGACACTCATCA
CCAACCTGTATCGGTGCTGAAGGATGAGGCCGTCTGGAAGAAGCCCTTCCGCTTCCACCCCGAACACTTCCTGG
ATGCCCAGGGCCACTTTGTGAAGCCGGAGGCCTTCCTGCCTTTCTCAGCAGGCCGCCGTGCATGCCTCGGGGAGC
CCCTGGCCCCGATGGAGCTCTTCCTCTTCTTACCTCCCTGCTGCAGCACTTCAGCTTCTCCGTGGCCGCCGGAC
AGCCCCGGCCCCAGCCACTCTCGTGTCTGCTAGCTTTCTGGTGACCCCATCCCCCTACGAGCTTTGTGCTGTGCCCC
GCTAGAATGGGGTACCTAGTCCCCAGCCTGCTCCCTAGCCAGAGGCTCTAATGTACAATAAAGCAATGTGGTAGT
TCCAACCTTGGGTCCCCGCTCAGGCCCTCGTTGGGATCATCCTCCTCAGGGCAACCCCAACCCCTGCCTCATTCCT
GCTTACCCCAACGCCTGGCCGCAATTTGAGACGGGTACGTTGAGGCTGAGCAGATGTCAGTTACCCTTGCCCATAA
TCCCATGTCCCCCACTGACCCAACCTCTGACTGCCCAGATTGGTGACAAGGACTACATTGTCCTGGCATGTGGGGA
AGGGGCCAGAATGGGCTGACTAGAGGTGTGAGTCAGCCCTGGATGTGGTGGAGAGGGCAGGACTCAGCCTGGAGG
CCCATATTTAGGCCTAACTCAGCCACCCACATCAGGGACAGCAGTCTGCCAGCACCATCACAAACAGTCACC
TCCCTTCATATATGACACCCCAAAATGGAAGACAAATCATGTGAGGGAGCTATATGCCAGGGCTACCTCCCAGGG
CTCAGTCGGCAGGTGCCAGAACATTCCCTGGGAAGGCCCCAGGAAAACCCAGGACCGAGCCACCGCCCTCAGCCT
GTCACCTTGTGTCCAAAATTGGTGGGTCTTGGTCTCACTGACTTCAAGAATGAAGCCGTGGACCTCACGGTGA
GTGTTACAGTTCTT

6595/6881
FIGURE 6089

ACACCATCCTCTTAGTTGCTCAGACTGAAAACCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATTCAACGT
GTGAATGCATGAGTGGAAGCTGAGTTCGCACTCGTGACTGGCCGGGTCAACTCTGACATTCGCTCCCACTTTC
GCGCGCTGATTTATCTCTGAGCGGATGAAGGTTGGGCCATGGCGGGCGGGCCGGGGAGGCGGGCTTGGAGTGAG
GGGGCGGGGCAGGCGCCACGAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGGCGGGCCCCGCGCTCCCG
GGTGGCAAGATGGTGGCGCGCAGGAGGAAGTGCGCCGCGCGGGACCCGGAGGACCGTATCCCCAGCCCCTGGGC
TACGCAGCTATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTT
CGACAAGGCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCTCAATGTGCCCCATACTGCACAGAG
GAGAGCCTGTCCCGCCTCCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCT
GAGAGCCCCAAGGAGTCAAGGTCGAAGTTTTTTCATCCCAAGCCAGTTCGGGTTTTCCAGGTAGCCTATGTGGTG
TTCCAGAAGCCAAGTGGGGTGTGAGCGGCCTTGCCCTGAAGGGCCCCCTGCTGGTGTCCACAGAGAGCCACCCT
GTGAAGAGTGGCATTCAAGTGGATCAGTGACTACGCAGACTCTGTGCCCAGCCCTGAGGCCCTGAGGGTGGAA
GTGGACACGTTTCATGGAGGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGAGGAGGAGGGGTC
CCTGACGAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCCGGCGGCCTGTGCTCCCCCGGACTGAGGCAGCCAGC
TTGCGGGTGTGAGAGGGGAGAGACGGAAGCGCAGCCGAAAAGAGCTGCTCAACTTCTACGCCTGGCAGCATCGA
GAGAGCAAGATGGAGCATCTAGCGCAGCTGCGCAAGAAGTTCGAGGAGGACAAGCAGAGGATCGAGCTGCTGCGG
GCCCAGCGCAAATTCCGACCGTACTGAGCTGTGAGAGCCGAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGG
CGAGGCAGGGCCTGCAGCGGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGCCCCAGGTTGAAGGCCACCGCGTCC
AACAGCCCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTC
CTGGGGACCCAGGCGTGCCGAGAGGAGGACTTGTCTTCTGCTTCTTGCCTCCACACCCTCCTCTCCAGGACCC
TGGATGAATCCGTTCTGTGCTTCTTTTTCCCTCAATGCAAAAGCCCTTGCTGGCAACGAAAAAGCCTCAAAAGCA
GTGAGAATACAAGAACCTTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAAGGCTAGGTGGGCCCAGCCCGCCCTT
CCTTCTCCAGCTGGCTGGAGATTATTAGCCAGGAGACAGCAGCCCTGGAACCCAGACTCTGTCTCCCCCTTGAG
GTCACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCTGACTACCATCCTAGGCTGGGCCTCAAGACTAGTGAGG
CCTGTCCCCACCATCCCTGGCCTTGTTGTGGGGCTCAGGAACTCAGAGTCCCAGTGTGAGTCTGGGAGCACTAG
GTCTTCATAGTTCCAGGCCCAGAGCTACAGCTGGGCTGGGAGCGTGTGTGTGCACTGTAAGAAGGAGCTGATGAT
ACTGGCCACGTGCTGGGGTTTCGCTCATGTGGACACAGTGATTGCCTGGGACTTCCACAACTGGAACCGCTCTTT
GAGGGTGGATTTTATTGTGTCTATCATGAACGACAGGACTCCTTGTGAGAGTAATTCTCTCTTGGATCAAAATA
TCCGTGGACTGCTTTGATCAACAGGACATGGGCCTGCAGCTTCTGATGGAATGCGCACACAGCTCCCTGCTGAC
GAAGTCAATGCTGTTCTCTGCC

6596/6881
FIGURE 6090A

CGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGTGAGTTCCAAAGG
CGGGGTGCTGGGGAGAGGCAGCTCCGTCCATCTCTTTTTGTTCTAATGGGTAAACTGCCTGCATCACAGCTCCCC
TTCATCCCCCATTCGGTTTCTCTGTTCTAATGGCAGCTGGCCGTTTCATATGCTTAAACTTGACCAAAATGGT
TTGCTTTGTTATTTCCCCAGGGCTTGACCCTATAGGGACTAGCATTATGATCTCGTTCTCAGCTTTCTGATTTAG
AAATATCTGAGTGGAAAGTTGGAGGGGGAGGCTGCTTGGGTCTCCTAGCTGTGTGCATCATCCCGGGAACAGAGAA
CTCCACTGCATGATTGGCTCTGATGGAGACAGTGCCAGATGCTACCCCTTATTTTGTTCGCCAGGTGGTTTTT
GTTTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT
CAAACCTCCTGGGGTCAAGCAACCTCTCCCTCAGCCTCCTGAGGACCTGGGACTATAGGCGCACACCATCACGC
CCAGCTGGATTTGGCTTTTAAGTACAGTGGGAAGCCATTGAAGGCTTTTGTGTCACACAGCTGAGTATACATGCC
TGGCCCAGGACTGAGGGATGTTTTGAAGCCTGAGATGCATAAAATGTTGAGACTGTGAGGACTTCACCTTCTAGA
TAAGGAAGCAGATACCAGGGAGGAGTTAGACTTGCCAGGGTGAGTGGGATAGTGTGGGGCAGGGCTGAAATAGA
CTTTGAGATTTAAAAAGACTAGGATTGGAACCTGGGTAAATGAATTATGTGATTTGGATAAGTTCTTAAACTGTG
TTCAAGGAATAAGAAATATTTCTTAGGGTTTTGTAACCTAATAAGTTTGGGAAGTACTGGGCTAAACAGAGTTAC
ATCTGTTTCACTTTGCGGCTTCTCAGATTGTGTAATATGCTAATGGATGTTACCATCCAGAAGGAACATGCAGTG
TTTCTAAACTTAAACCACAATTAGCCAGGTGTGGTGGCATGCACCTATAGTCCCAGTTACTTGGGGGGCCGAG
GTGGGAGGATCGCTTGAGCCTGGAAGATCGAGACTAGTGAGCCATCATCATGCCACTGCACCTTCAGCCTGGGTGA
CAGAGTGAGATTCTGTCTCAAAAAAACCCACAAAACCTAGAACATACAGCACTGCCTGCGTCTCCATTTTCTG
ATCAGTAAATAAGAAAAACACAGCCTGGGCCACATAGCAAGACCTGGTCTCTACAAAAATTTTAAAAATGAGCC
AGGCATGGTGGTACACGCCTGTAGTCTTAGCTCCTTAGGAGGCTGTGGCAGGAGAACTGCTTGAGCCTAGGAGAT
GGAGGCTGATGTGAGCTGTGATTGAGTTTGTGCGAGGTGGAATGAGATGAAGGGGTATGGAAAGTGTACACCC
AGTGCTTAGCTCATGACAGATGCCAGTAAATGGTGGGTCCCTCCCATCTAAGGAAAACTGACAAGAATTTT
TGACTCTTCTCTGCTCTCCACAGGCGGCTGAGTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGG
GTGAACCTCTGCCTCCTCCTCAACCCCCCTGCCGAAGTGACCCCTGACACCATCCTGAAGGCACTCTTCAAGTCC
TCAGGGGCCTCTGTGACCACGCAGCCACAGAATTCAAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAG
TGGGGGCAGAGGAGGGTGGCTCTGTTTCCCAAGGCAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCT
GATTGTGGGAAGGGTTGCCAGGGATAAAGAGCTTCTCCTACTGGATGGGACCCGCCTTTCTGTGTTGTGTTCTGCC
CTGTGCTCTTCTCTCTACGTTAACGTTTCTGTTAGTATGTTTCTTCTCATCTCATCGCCAAGGTAGGCTTGTGTTTT
TCAGTGTGTGCTCCCGAGCCTCAGCCCCAAGCTGATTTCTTATCTGGAAATGGTACACTGAATTCTCTGGGTG
GCTTTCTTGTGGCCCCATGGGATGCAGCGTGGGGGCTGTCTGAAGGACCTGCTTTTTCCAGGGGCCGAGGGGCT
GCCTTTCTTGTGTATTAAAGCTTTTCAAACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAG
GTCGGCCTGAGAGCTGTGCCGCTCCTCTGTCTTGTGAGTGGAGGTGCCTGGGTGGGGAGCAGGTCTCAGGCCTCT
TGTCTCTCCCCAGTGGCTCCAGGCCTCACTAGTGGAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTAT
CTAAGCTCTTGGCTTGAGTCCCGTGTGCTCTCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCTCT
TGAGTTGTGCTGAATGCCCCACCCAGCTCTCTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGA
GCCCTCCCGGTTCTCACCTCGCCTGGCACTTAACCACACCCCTGGTTTTGTGTAGCCGCCAGCTCTCTCTGTTG
GGCCTTTGAAAGGCTCAGCCTCCCATTTGTGCAGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAGTTG
TTCTTGCTCTCCATTTCTGGCCTCAGTTGTCTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCT
GCCACCAAGGGGCACTGTTTGTTCCTACTTATGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCTG
CCTTGGCAGAGGAGGAGGAGTCAAGGGAGCAGGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGA
CAGTTGGGACGAACTTCAGAGCCCAGGCAGTCCCTGAATGACCAGGCCAGTGTGTGCTACTGAGTGGTCCCTGC
TGGTTGGGAGTGAAGAGAATCCAGGCTGGCAGAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAA
ATCAGTAGCAAGTGCTGGAAAAGGCACATGCCGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCA
GTGAAAAAACCCAGAGACTCATGTTTCCAGGGGTGAGTCTGTGAGGCAGGAAGGACCCAGGATTTGAACCCAGCT
TCAGTGTGCAGGCTCTGAGGCTGCCCAGGACGGGAAAGTCCAAGGAAGGGCCTGGTGGTGTCTCCACTGCACTT
CTTTAAAGAATGCTGCTTTTTATTCTCCTAACCCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACA
TTCTCTCCACACTTTTCCCTTCTGCCCCAAGAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGG
GAGCCGGGGGCTCACTGCTTGCAGTGTGCTTAGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCC
CTCTCATCCCAAAGCAGGTATCTTCTGTTGTGCACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTG

6597/6881
FIGURE 6090B

GAGCTGGTGCTATAGGTGACCATCTGGTACATTGAGGGGACCTGTTTGCCCTCCTCCACTCTATAAGCAGTCATCT
TGGGAGACCGGGAGGAGAAGGTGGTGGGCTAGTCCTGTGTCTCCTCCACTTCCCATGCCCTCTATGTTACCCATC
TGTGTCTCCTGTGCAGAAGGAGAGGAAGGGGCATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTG
AATAAACATTTGTTATTCTACCTTTGAGTTATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACAAAGTCTCAC
TCTGTTGCCAAGGCTGGAGTGCAGTGGCACTATCTCAGCTCACTGCAACCTCCGCAGCCAGACTCAAGTAATCCT
CCCACCTCAGCCTCCCAATTAGCTGGGACTGCAGGCGTGCATCACCATGTCTGGCTAATTTTTGTAGAGATGAGG
TTTCACCATGTTGCACAAGCTGGTCTTGAAATCCTGACCTCAGGTGGTCTGCCTGCCTCGGCCTCCCAAAGTTGG
AATTAACAGGCGTGAGCCACCACGCCCAGCCAAGGGTTTTAATCTTGACAGGGATTTCAACATTTGGGGTGGAAC
TAATTATTTAAAAATAGAGACAGATTCTTGCTATGATACCCAGGATGGTCTTGAACCTCCTGGGCACAAGTGATC
CTCCTGCTTCAGCCTCTCAAAGTGTTGGAGTTACAGGCATGAGCCACTGCTCCCCACCAGGGATGCAAATTACTT
GATACTCCTCTCCAGAAGGTGGGGTCTGTGCCCTCCTGAACCCAAGTGTGCTCTGTTACTACTTTGACCAGAT
GTGACTCTGCCATTTCTGTGCCTAGGCTTTTAAAGATGGTCACTTCTCCATTTCTGTGCCTGGAACATTCTCTG
GGAGCCTTGACACCACATTTGAAGTTGCCTATTGGGGCCAGCATGGTGGCTCACGCCTGTAATCCCAGCACTTCA
GAAGGCCGAGGCAGGCAGATCGCATGAAATCAGGAGTTTGAGACCAGCCTAACCAACGTGGTAAAACCTGTCTC
TACTAAAAATTACAAAAATTAGAGGGGCGCGGTGGTGGGCGCTTGTAATCCCAGCTATTGAGGAGGCTGAGGCAG
GAGAATCACTTGAACCCGGGAGGCGGAGTTTGAGTGAAGTGAATCACGCCACTGCACTCCAGCCTGTGCAACA
GAGCGAGGCTCTGTCTCAAAAGAAAAAATAGTTGACTGTGCGTTTGGCATGGTGGCTCATGCCTCTTGTCCCA
GCACTTTGGGATGCTGAGGCAGGAAGATTACTGGAGCTCAGGAGTTCGAGACCAGCTTGGGCAATATAGTGAAGC
CCTATCTTTACAAAAACGAAAAATTAGCTCAGCTACTCAGGAGCCTGAAATGGAGGATCATTTGTGCCCAGGAG
GCAGAGGTCGCAGTGAGCTGTGATCATGCCACTATACTCCATCCTGGGCAACACAGTGAGACGGCAGAAAAAAA
AAATAGTTGACTATTGAGTCTCATATCTGATTGCCACCTGACATCTCCCCTGAGTGGCCTAATGGGCATCTCAC
CACGGCCACAGAGAACTGATCTACTCGATTTTCCCTAAGCTGGCCCTCTCCTGCAGTCTACCCATGTCAGTCA
ATGGCAACACCATCCTCTTAGTTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATT
CAACGTGTGAATGCATGAGTGGAAGCTGAGTTCGCACTCGTGACTGGCCGGGGTCGACTCTGACATTCCTCCC
ACTTTGGCGCGCTGATTTGCCTCTGAGCGGATGAAGGTTGAGCCATGGCGGGCGGGGCGGGGAGGCGGGCTTGG
AGCGAGGGGGCGGGGAGGCGCCACAAAAACGCGCTCGCGCGGCGGCCGAACCGCAACTCCCGGCGACCCCCGCG
CTCCCGGGTGGCAAGATGGTGGCGCGCAGGACGAAGCTCGCGGCGCGGGACCCGGAGGACGGTATCCCGAGCCCA
CCGTGCTACGCAGGTGAGGGGATCCGGAACGCGAGACCGGGGGCGGCCAGCATCGCCGGGAGGTGTTTGGGGGCT
GGCGGCGGCCGGGGGTCCCCAGGAGCGGCCGC

6598/6881
FIGURE 6091

CGAGAGTTGGTCCGCGGACGCCGGAAGTAGTTTCGTTCCTTAGCGGCCGAAGGGGCGGGCTCGCGGGGTCTCG
ACTGCTTTTCGGCTTGCTCGGCGGAGCAAGATGGCGGACATCTCCCTGGACGAACTCATCAGGAAGCGCGGGGCGG
CGGCGAAAGGACGGCTTAATGCCAGACCGGGAGTTGGAGGTGTCCGATCTCGAGTTGGGATCCAGCAAGGCCTTC
TCAGCCAGTCAACACGCACAGCCACCTTCCAGCAGAGATTTGATGCCCCGCGAGAAGATTGGCCTCTCAGATGCCC
GGCTCAAACCTGGGAGTCAAGGATGCCCCGGGAGAAGCTTTTGCAGAAAGATGCCCCGATTTCGAATCAAAGGGAAAG
TGCAGGATGCCAGAGAGATGTTGAACTCTCGCAAGCAGCAGACCACGGTGCCCCAGAAGCCCCGCCAGGTTGCTG
ATGCCCCGGGAGAAGATCAGCTTGAAGAGGAGTTCCCTGCTGCCTTCATAAACCACCCATTGGGACAGTGACCC
CTGCTCTGAAGCTCACCAAAACCATCCAGGTTCCACAGCAGAAAGCCATGGCACCACCTTCATCCCCATCCTGCCG
GAATGAGAATCAATGTTGTCAATAACCACCAGGCCAAACAGAATTTATATGACCTGGATGAAGATGATGATGGTA
TAGCTTCCGTTCTACTAAACAGATGAAGTTTGCAGCCTCAGGCGGCTTTCTCCACCACATGGCTGGGCTAAGCA
GTTCCAAGCTTTCCATGTCCAAGGCCCTCCCTCTCACCAAAGTGGTTCAGAATGATGCATACACAGCTCCTGCTC
TCCCTTCCCTCTATTTCGAACAAAAGCCTTGACCAACATGTCCCGGACACTGGTGAACAAGGAAGAACCCCCCAAAG
AGCTGCCAGCTGCTGAGCCTGTTCTCAGCCCATTGGAAGGCACCAAGATGACTGTGAATAATCTGCACCCTCGAG
TCACTGAGGAGGACATTGTTGAGCTTTTCTGTGTGTGTGGGGCCCTCAAGCGAGCTCGACTGGTCCATCCTGGGG
TAGCGGAGGTGGTGTGTTGTGAAAAAGGACGATGCCATCACCAGCATATAAGAAGTACAACAACCGGTGTCTGGACG
GGCAGCCGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGCGGCTGA
GTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGGGTGAACCTCTGCCTCCTCCTCAACCCCCCTG
CCGAAGTGGACCCTGACACCATCCTGAAGGCACCTCTCAAGTCTCAGGGGCCTCTGTGACCACGCAGCCACAG
AATTCAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAGTGGGGGCGAGAGGAGGTGGCTCTGTTTCCCC
AAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCTGATTGTGGGAAGGGTTGCCAGGGATAAAGAG
CTTCTCACTGGATGGGACCCGCCTTTCTGTGTTGTGTTCTGCCCTGTGCTCTTCTCTCTACGTTAACGTTTCCT
GTAGTATGTTTCTTATCTCATCGCCAAGGTAGGCTTGTGTTTTTTCAGTGTGTGCCCTCCCCGAGCCTCAGCCCCA
AGCTGATTTCTTATCTGGAATGGTACACTGAATTTCTCTGGGTGGCTTTCTTGTGGCCCCATGGGATGCAGCGTG
GGGGCTGTCTGAAGGACCCTGCTTTTTTCCAGGGGCCGAGGGGCTGCCTTTCTTTGTGTGTATTAAGCTTTTCAA
ACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAGGTCGGCCTGAGAGCTGTGCCGCTCCTCTGTC
TTGTCACTGGAGGTGCCTGGGTGGGGAGCAGGTCTCAGGCCTCTTGTCTCTCCCCAGTGGCTCCAGGCCTCACT
AGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTATCTAAGCTCTTGGCTTGGAGTCCCGTGTCTGTC
TCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCTTGGATTGTGCTGAATGCCCCACCCAGCTCT
CTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGAGCCCTCCCGGTTCTACCTCGCTGGCACTT
AACCACACCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTGGGCCTTTGAAAGGCTCAGCCTCCCATTGTGC
AGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAGTTTGTTCCTGGCTCTCCATTTCTGGCCTCAGTTGT
CTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCTGCCACCAAGGGGCACTGTTTGTTCCTCACTTA
TGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCTGCCTTGGCAGAGGAGGAGGAGTCAAGGGAGCA
GGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGACAGTTGGGACGAAACTTCAGAGCCCAGGCAG
TCCCTGAATGACCAGGCCAGTGTGTCAGTGAAGTGGTCCCTGCTGGTTGGGAGTGAAGAGAATCCAGGCTGGCA
GAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAAATCAGTAGCAAGTGCTGGAAAAGGCACATGC
CGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCAGTGAAAAAAACCAGAGACTCATGTTTCCAGG
GGTCAGTCTGTCTAGGCAGGAAGGACCCAGGATTTGAACCCAGCTTCAGTGTGCAGGCTCTGAGGCTGCCCAGGAC
GGGAAAAGTCCAAGGAAGGGGCTGGTGGTGTCTCACTTGCAAGTCTTTTAAAGAATGCTGCTTTTTTATTCTCCTAA
CCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACATTCCTCCCACACTTTTCCCTTCCCTGGCCCAA
GAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGGGAGCCGGGGGCTCACTGCTTGCAGTGTGCTT
AGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCCCTCTCATCCCAAAGCAGGTATCTTCTGGTTG
TCACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTGGAGCTGGTGTATAGGTGACCATCTGGTACA
TTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCTTGGGAGACCGGGAGGAGAAGGTGGTGGGCTA
GTCTGTGTCTCCTCCACTTCCCATGCCTCTATGTTACCCATCTGTGTCTCCTGTGCAGAAGGAGAGGAAGGGG
CATTAAAGAGATGAAGGTGATTATGTATTACTTATCCATTTCTGAATAAACATTTGTTATTCT

6599/6881
FIGURE 6092

MADISLDELIRKRGAAAKGRLNARPGVGGVRSRVGIQQGLLSQSTRTATFQQRFDARQKIGLSDARLKLGVKDAR
EKLLQKDARFRIKGKVQDAREMLNSRKQQTTPQKPRQVADAREKISLKRSSPAAFINPPIGTVTPALKLTKTIQ
VPQQKAMAPLHHPAGMRINVVNNHQAKQONLYDLDEDDDDGASVPTKQMKFAASGGFLHHMAGLSSSKLSMSKAL
PLTKVVQNDAYTAPALPSSIRTKALTNMSRTLNVNKEEPPKELPAAEPVLSPLEGTKMTVNNLHPRVTEEDIVELF
CVCGALKRARLVHPGVAEVVVFVKDDAITAYKKYNNRCLDGQPMKCNLHMNGNVITSDQPILLRLSDSPSMKES
ELPRRVNSASSSNPPAEVDPDTILKALFKSSGASVTTQPTEFKIKL

6600/6881
FIGURE 6093

CCATATGGTGCTCTTCCCAGTCTGGTTCCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCACGCCAGCCAT
CACCCTCGAGAGCCCGGGTTTCAGCCTGGCCTGCCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCTGGAG
CCCCTTCGGGAGCAGGGCTGTGTCCCAGATGGGGCCACGGCTGAGCCTTCAGAGTACGTCCCTGCCTGGCACTTACT
GGTCCTTACCAGAGACGCCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGC
TGAGGGCTGCCAGCAGCCCCGTCTGCCCCACCATTCCTGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACAT
GGGCAGCCCAAAGCTGCAGGTGCCAGGGCCCCACCCAGCCTCGCCTGTCACCCCCACTCCCGCCTCAGGGCCAGG
CCCAGGCCTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCC
AGGGCCCTGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGTCCTGGG
CTGGGGCCACCATCCCTGATGGCAGAACTCCACAACCACATGTATTTATTCCTCTGTCTAAACCGTCCCCCTCC
TTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTCTGAGGGACATATCAGTGACCTCGACGTTG
CCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTTCAGAGTCATTTATGAGCAGAAAAAAAAAAG
TAAAACTTTGCTAATATT

6601/6881
FIGURE 6094

CGCGACGGTCTCGGCGGCGGCGGCGGCGGCGACAGAGCGAGCGGCGGCGGGGCCACCATGGGGGCCAGCTCAG
CACGTTGGGCCATATGGTGCTCTTCCCAGTCTGGTTCCGTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCAC
GCCAGCCATCACCCCTCGAGAGCCCGGACATCAAGTACCCGCTGCGGGCTCATCGACCGGGAGATCATCAGCCATGA
CACCCGGCGCTTCCGCTTTGCCCTGCCGTACCCCAGCACATCCTGGGCCTCCCTGTGCGCCAGCACATCTACCT
CTCGGCTCGAATTGATGGAAACCTGGTTCGTCCGGCCCTATACACCCATCTCCAGCGATGATGACAAGGGCTTCGT
GGACCTGGTTCATCAAGGTTTACTTCAAGGACACCCATCCCAAGTTTCCCGCTGGAGGGAAGATGTCTCAGTACCT
GGAGAGCATGCAGATTGGAGACACCATTGAGTTCCGGGGCCCCAGTGGGCTGCTGGTCTACCAGGGCAAAGGGAA
GTTCCGCATCCGACCTGACAAAAGTCCAACCCATCATCAGGACAGTGAAGTCTGTGGGCATGATCGCGGGAGG
GACAGGCATCACCCCGATGCTGCAGGTGATCCGCGCCATCATGAAGGACCCTGATGACCACACTGTGTGCCACCT
GCTCTTTGCCAACCAGACCGAGAAGGACATCCTGCTGCGACCTGAGCTGGAGGAACTCAGGAACAAACATTCTGC
ACGCTTCAAGCTCTGGTACACGCTGGACAGAGCCCCTGAAGCCTGGGACTACGGCCAGGGCTTCGTGAATGAGGA
GATGATCCGGGACCACCTTCCACCCCCAGAGGAGGAGCCGCTGGTGTGATGTGTGGCCCCCACCCATGATCCA
GTACGCCTGCCTTCCCAACCTGGACCACGTGGGCCACCCACGGAGCGCTGCTTCGTCTTCTGAGGGCCGGGCAC
GGTCACACGGCCACCCGCCCCGCGCACCCACGCCCTGTTACGCTCACCCAGTCACCTCCCCACATCGCACACT
GGGGCCCCGGGTTTCAGCCTGGCCTGCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCTGGAGCCCCCTC
GGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACTGGTCCTT
ACCAGAGACGCCCAGCCCCATCCCTGTCCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGCTGAGGGC
TGCCAGCAGCCCCGTCTGCCACCATTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACATGGGCAGC
CCAAAGCTGCAGGTGCCAGGGCCCCACCCAGCCTCGCCTGTCACCCCACTCCCGCCTCAGGGCCAGGCCAGGC
CTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCAGGGCCC
TGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGCCCTCCCAGAACCT
CAGCATTTCCCTTCCAGCCCATCCAAACACTGAGGCAGCCTTGGGGAACCCGAGCTGGGGGGTTGGCAGCCCACT
GCACCGCCTCAGGGTTTTGGGGTCTGGGCTGGGGCCACCATCCCTGATGGCAGAACTCCCACAACCACATGTAT
TTATTCTCTGTCTAAACCGTCCCCTCCTTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTC
TGAGGGACATATCAGTGACCTCGACGTTGCCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTCA
GAGTCATTTATGAGCAGAAAAAAAAGTAAACTTTGCTAATATT

6602/6881
FIGURE 6095

AGCGGCCTGGCTAACTCCTGCCAGGCAGTGCCCTTCCCGGAGCGTGCCCTCGCCGCTGGTACGGCTCCTACCTGG
TCTGGAAAGAGCTGGGAGGCTTCACAGAGAAGGCTGTGGTTCCCTGGGCCTCTACACTGGGCAGCTGGCCCTGA
ACTGGGCATGGCCCCCATCTTCTTTGGTGCCCGACAAATGGGCTGGGCCTTGGTGGATCTCCTGCTGGTCAGTG
GGGCGGCGGCAGCCACTACCGTGGCCTGGTACCAGGTGAGCCCGCTGGCCGCCCCGCTGCTCTACCCCTACCTGG
CCTGGCTGGCCTTCGCGACCACACTCAACTACTGCGTATGGCGGGACAACCATGGCTGGCATGGGGGACGGCGGC
TGCCAGAGTGAGTGCCCGGCCCCACCAGGGACTGCAGCTGCACCAGCAGGTGCCATCACGCTTGTGATGTGGTGGC
CGTCACGCTTTCATGACCACTGGGCCTGCTAGTCTGTTCAGGGCCTTGGCCCAGGGGTCAGCAGAGCTTCAGAGGT
TGCCCCACCTGAGCCCCCACC CGGAGCAGTGTCTGTGCTTTCTGCATGCTTAGAGCATGTTCTTGGAACATGG
AATTTTATAAGCTGAATAAAGTTTTTGA

6603/6881
FIGURE 6096

MAPHLLWCPTNGLGLGGSPAGQWGGGSHYRGLVPGEPA GRPPALPLPGLAGLRDHTQLLRMAGQPWLAWGTAAAR
VSARPTRDCSCTSRCHHACDVVAVTLS

6604/6881
FIGURE 6097

ATGGAGGCCGAGCGGGGTCCCGAGCGCCGGCCTGCGGAGCGTAGCAGCCCCGGGCCAGACGCCGGAGGAGGGCGCG
CAGGCCCTTGCCGAGTTTCGCGGCGCTGCACGGCCCCGGCGCTGCGCGCTTCGGGGGTCCCCGAACGTTACTGGGGC
CGCCTCCTGCACAAGCTGGAGCACGAGGTTTTTCGACGCTGGGGAAGTGTTTGGGATCATGCAAGTGGAGGAGGTA
GAAGAGGAGGAGGACGAGGCAGCCCCGGGAGGTGCGGAAGCAGCAGCCCCAACCCGGGGAACGAGCTGTGCTACAAG
GTCATCGTGACCAGGGAGAGCGGGCTCCAGGCAGCCACCCCAACAGCATCTTCCTCATCGACCACGCCTGGACG
TGCCGTGTGGAGCACGCGCGCCAGCAGCTGCAGCAGGTGCCCGGGCTGCTGCACCGCATGGCCAACCTGATGGGC
ATTGAGTTCACGGTGAGCTGCCCAGTACAGAGGCTGTGGCCCTGGTGCTGGAGGAGATGTGGAAGTTCAACCAG
ACCTACCAGCTGGCCCATGGGACAGCTGAGGAGAAGATGCCGGTGTGGTATATCATGGACGAGTTCGGTTCGCGG
ATCCAGCACGCGGACGTGCCAGCTTCGCCACGGCACCCTTCTTCTACATGCCGCAGCAGGTGGCCTACACGCTG
CTGTGGCCCCCTGAGGGACCTGGACACTGGCGAGGAGGTGACCCGAGACTTTGCCTACGGAGAGACGGACCCCCCTG
ATCCGGAAGTGCATGCTGCTGCCCTGGGCCCCCACCAGCATGCTGGACCTCAGCTCTTGACACCCCGAGCCGCC
GCCGAGCACTACCAGGCCATTCTGGAGGAAAACAAGGAGAAGCTGCCACTTGACATCAACCCCGTGGTGCACCCC
CACGGCCACATCTTCAAGGTCTACACGGACGTGCAGCAGGTGGCCAGCAGCCTCACCCACCCGCGCTTCACCCCTC
ACCCAGAGTGAGGCGGACGCCGACATCCTCTTCAACTTCTCACACTTCAAGGACTACAGGAAACTCAGCCAGGAG
AGGCCAGGCGTGCTGCTGAACCAGTTCCCCTGCGAGAACCTGCTGACTGTCAAGGACTGCCTGGCCTCCATCGCG
CGCCGGGCAGGTGGCCCCGAGGGCCCACCCTGGCTGCCCGAACCTTCAACCTGCGCACTGAGCTGCCCCAGTTT
GTCAGCTACTTCCAGCAGCGGAAAGGTGGGGCGAGGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCGCGC
AGCCTGGACACCCACGTACCAAGAGCCTGCACAGCATCATCCGGCACCGAGAGAGCACCCCCAAGGTTGTGTCC
AAGTACATCGAAAGTCCCGTGTTGTTTCTTCGAGAAGACGTGGGAAAGGTCAAGTTTCGACATCCGCTACATCGTG
CTGCTGCGGTGAGTGAGGCCCTACGGTTGTTGCTGTATGATGTGTTCTGGCTGCGGTTCTCCAACCGGCCTTT
GCACTCAACGACCTGGATGACTACGAGAAGCACTTCACGGTCATGAACATGACCCGGATGTGGTGCTGAAGCAG
GTGCACTGTGAAGAGTTTCATCCCCGAGTTTGAGAAGCAATACCCAGAATTTCCCTGGACGGACGTCCAGGCTGAG
ATCTTCCGGGCCCTTCACGGAGCTGTTCCAGGTGGCCTGTGCCAAGCCACCACCCCTGGGCCTCTGCGACTACCC
TCATCCCGGGCCATGTATGCCGTCGACCTCATGCTGAAGTGGGACAACGGCCAGATGGAAGGCGGGTGATGCAG
CCGCAGATCCTGGAGGTGAACCTCAACCCGACTGTGAGCGAGCCTGCAGGTACCACCCACCTTCTTCAACGAC
GTCTTCAGCACCTTGTTTCTGGACAGCCCGGTGGCTGCCACGTTACCTGCCTTGCT**TAGG**CACTCGCTGTCCCC
AAAACCTGTGCTTGGGGCAGGATTCCAACCTCAGTTCTCTGAGCTGCTTCTGCAAAGGCCCCCATGTCCCTCCCC
ACACCGGCCCTGGGCATAGCCTCAGCCCCAGGCCTCTGTCTGCCGAGCCATCCTCCGGCGCCCACTCCGGGA
GCACAGCATCCTCCTCTCACCTGTGGGTGAGAGCAGGACAGTGATGGTGTCCTCCAGGGCTGAGCACCAACCCACG
CCCTGCCCTCACCCCTCACCACCATCTGTGCACTGATGAGTCTCCAGTTTAGCCAAGGGCTTTGTTCTCTGGCATG
GAGAATTTGTTCTGGCTGCTGTGTTTCCAGGGGGTGCTGGGGGAAGGGTTCCGTGGAGCGAGACAAGGTGTCTT
CGGGAGCAGGGTTCCACCGGAAGCGTTTGGGAGCCCTGTATCACACGGGGCAGGCGGGTTTCTCTTCCGGGGTC
TCTGCTCTTATGCATCAGGACGACCCCGGGACGGCTGTGGGGCCCCCACTGCACCCACAGGGCTCTATGCGACA
GGGGCCCAGGAACAGCCTGAGGCCACCACCCAGCAAGCCCGCTTATCACCCATTCCAGCTCACCCAGAACCTTC
ACCAGCAAACCTCCTGCTGAGGTCTTGGCAGGAGGCCACCGTCTTGTTACCGTTTCTTTTTCGTTTGTGAGGGT
CACAGACCCCAACAGGGAAATCAGTATCTGTCTTCCAGTGGGTGGCCTGCTCGCCGGGCACTCCACGGGGTCCC
GCCCTTGTTGTGAGATGGGCCAGGATCCTTCGGCAAGGGGCGCCTGGGGCTGGGGCTGATTGTGGGCGGTGGAGCG
CCAGACAGAAAAGGATTCCAATGAGAACTTCAGGTTAAAGTCAGATGCCACCTACCAGGGTCTACAGTCAAAATG
TTGGCTTTTTCTTATTTTTTAATGTATGGGAGAAAAATGTAAAATTCCAGTCTTTTTCTAATTGTGTTTCTGAAA
TTAGGAGTCAGCTGCCAGCGTTTTTGTGTGGCTGCAGTGTGCCTGGGCCAGCTCACGGGCAGTGGGTGGACCTA
ACTGCCCAGGCAGGCGAGAGCTACTTCCAGAGCCTTCCAGTGATGGGAGGGCAGGGCTAGGTGTAGCGGTGTCT
CCTCTTTGAAATTAAGAACTATCTTTCTTGTAGCAAAGCTGCACCTGATGATGCTGCCTCTCCTCTCTGTGTTGT
CTGGGCCCTTGTTTACAAGCACGCTTACCCTTCTGAGGGGAGCCATGCTCTAGCCCTGGAGGGCCTGTTGCA
GGGGCAGGGCGGGCCCCGTCGCTTTGGCAGCTCCTGGAGAGCTGTGGACATGCAGTCCCCCTCAGTTCTGTCTGC
AATAAAGGCCATCTTCTCTTA

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FIGURE 6098

MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPALRASGVPERYWGRLLHKLEHEVFDAGEVFGIMQVEEV
EEEEDEAAREVRKQQPNPGNELCYKVIVTRESGLQAAHPNSIFLIDHAWTCRVEHARQQLQQVPGLLHRMANLMG
IEFHGELPSTEAVLVLEEMWKFNQTYQLAHGTAEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTL
LWPLRDLDTGEEVTRDFAYGETDPLIRKCM LLPWAPTDMLDLSSCTPEPPAEHYQAILEENKEKLPLDINPVVHP
HGHIFKVYTDVQQVASSLTHPRFTLTQSEADADILFNFSHF KDYRKLSQERPGVLLNQFP CENLLTVKDCLASIA
RRAGGPEGPPWLPRTFNLRTelpQFVSYFQQRERWGEDNHWICKPWNLARSLDTHVTKSLHSIIRHRESTPKVVS
KYIESPVLFLREDVGKVKFDIRYIVLLRSVRPLRLFVYDVFWLRF SNRAFALNDLDDYEKHFTVMNYDPDVVLKQ
VHCEEFIPEFEKQYPEFPWTDVQAEIFRAFTelfQVACAKPPPLGLCDYPSSRAMYAVDMLKWDNGPDGRRVMQ
PQILEVNFNPD CERACRYHPTFFNDVFSTLFLDQPGGCHVTCLV

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FIGURE 6099

GCGGGGAATCATGGCCGCCCCAGTGTTCCGCGTCCGGGGGTTTGTGGGAGTTGCCTTGACCTGCAGCTCCGCCA
CCGCGGACCCGCCTTCTGCCCTCAGCAGCAGACGCTCTGTCCCGCCCGGGCAGCTCTGCGAGGCAGCGGCTGGAG
AGGGAACCATGGGGACTGTGCACGCCCCGAGTTTGGAGCCTCTTCCATCAAGTGGACCTGATTTTGGAGGATTAG
GAGAAGAAGCTGAATTTGTTGAAGTTGAGCCTGAAGCTAAACAGGAAATTCCTTGAAAACAAAGATGTGGTTGTTT
AACATGTTTCATTTTGATGGACTTGGAAGGACTAAAGATGATATCATCATTTGTGAAATTGGAGATGTTTTCAAGG
CCAAAAACCTAATTGAGGTAATGCGGAAATCTCATGAAGCCCGTGAAAAATTGCTCCGTCTTGGAATTTTTAGAC
AAGTGGATGTTTTGATTGACACATGTCAAGGTGATGACGCACTTCCAAATGGGTTAGACGTTACCTTTGAAGTAA
CTGAATTGAGGAGATTAACGGGCAGTTATAACACCATGGTTGGAAACAATGAAGGCAGTATGGTACTTGGCCTCA
AGCTTCCTAATCTTCTTGGTCGTGCAGAAAAGGTGACCTTTCAGTTTTCTATGGAACAAAAGAACTTCGTATG
GCCTGTCTTCTTCAAACCACGGCCCGGAAACTTCGAAAGAAATTTCTCTGTAAACTTATATAAAGTTACTGGAC
AGTTCCTTGGAGCTCACTGCGGGAGACGGACAGAGGAATGTCAGCTGAGTACAGTTTTCCCATATGGAAGACCA
GCCACACTGTCAAGTGGGAAGGCGTATGGCGAGAACTGGGCTGCCTCTCAAGGACGGCGTCATTTGCTGTTGAA
AAGAAAGCGGACATTCAGTGAATCATCTCTTTCGCACGCCATGGTCATCGATTCTCGGAATTCCTCCATCTTAC
CAAGGAGAGGTGCTTTGCTGAAAGTTAACCAGGAACTGGCAGGCTACACTGGCGGGGATGTGAGCTTCATCAAAG
AAGATTTTGAACCTCAGTTGAACAAGCAACTCATATTTGATTTCAGTTTTTTTTCAGCGTCCTTCTGGGGCGGAATGT
TGGTACCCATTGGTGATAAGCCGTCAAGCATTGCTGATAGTTTTTACCTTGGGGGACCCACAAGCATCCGCGGAT
TCAGCATGCACAGCATCGGGCCACAGAGCGAAGGAGACTACCTAGGTGGAGAAGCGTACTGGGCCGGCGCCTGC
ACCTCTACACCCCATTTACCTTTCCGGCCAGGCCAGGGTGGCTTTGGAGAACTTTTCCGAACACACTTCTTTCTCA
ACGCAGGAAACCTCTGCAACCTCAACTATGGGGAGGGCCCCAAAGCTCATATTCGTAAGCTGGCTGAGTGCATCC
GCTGGTCGTACGGGGCCGGGATTGTCCTCAGGCTTGGCAACATCGCTCGGTTGGAACCTTAATTACTGCGTCCCCA
TGGGAGTACAGACAGGCGACAGGATATGTGATGGCGTCCAGTTTGGAGCTGGGATAAGGTTTCTGTAGCCGACAC
CCCTACAGGAGAAGCTCTGGGACTGGGGCAGCAGCAAGGCGCCCATGCCACACACCGTCTCTCGAGGAAACGCGG
TTCAGCGATTCTTTGACTGCGGACCCTGTGGGAAACCCCGTCAATAAATGTTAAAGACACACTC

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FIGURE 6100

MGTVHARSLEPLPSSGPDFGGLGEEAEFVEVEPEAKQEILENKDVVVQHVFHDGLGR TKDDIIICEIGDVFKAKN
LIEVMRKSHEAREKLLRLGIFRQVDVLIDTCQGDDALPNGLDVTFEVTELRRLTGSYNTMVGNNEGSMVLGLKLP
NLLGRAEKVTFQFSYGTKETSYGLSFFKPRPGNFERNF SVNLYKVTGQFPWSSLRETD RGMSAEYSFPIWKTSH
VKWEGVWRELGCLSR TASF AVRKESGHSLKSSL SHAMVIDSRNSSILPRRGALLKVNQELAGYTGGDV SFIKEDF
ELQLNKQLIFDSVFSASF WGGMLVPIGDKPSSIADRFYLG GPTSIRGFSMHSIGPQSEG DYLGGEAYWAGGLHLY
TPLPFRPGQGGFGE LFRTHFFLNAGNLCNLNYGEGPKAHIRKLAECIRWSYGAGIVLRLGN IARLELNYCVPMGV
QTGDRICDGVQFGAGIRFL

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FIGURE 6101

ATGGAGCCGGAGTTCTTGTACGACCTGCTGCAGCTCCCCAAGGGGGTGGAGCCCCAGCGGAGGAGGAGCTCTCA
AAAGGAGGAAAGAAGAAATACCTGCCACCCACTTCCCGAAGGACCCCAAATTTGAAGAACTGCAGAAGGTGTTG
ATGGAGTGGATCAATGCCACTCTTCTCCCCGAGCACATTGTGGTCCGCAGCCTGGAGGAGGACATGTTGACGGG
CTCATCCTACACCACCTATTCCAGAGGCTGGCGGCGCTCAAGCTGGAAGCAGAGGACATCGCCCTGACAGCCACA
AGCCAGAAGCACAAAGCTCACAGTGGTGCTGGAGGCCGTGAACCGGAGTCTGCAGCTGGAGGAGTGGCAGGCCAAG
TGGAGCGTGGAGAGCATCTTCAACAAGGACCTGTTGTCTACCCTGCACCTCCTTGTGGCCCTGGCCAAGCGCTTC
CAGCCCCGACCTCTCCCTCCCCAACCAACGTCCAGGTGGAGGTCATCACTATCGAGAGCACCAAAAAGTGGTCTGAAG
TCAGAGAAGTTGGTGGAACAGCTCACTGAATACAGCACAGACAAGGACGAGCCTCCAAAGGACGTCTTTGATGAA
TTATTTAAGCTGGCTCCGGAGAAAAGTGAACGCAGTGAAAGAGGCCATCGTGAACTTTGTCAACCAGAAGCTGGAC
CGCCTGGGCCTGTCTGTGCAGAATCTGGACACCCAGTTTGCAGATGGGGTCATCTTACTCTTGCTGATTGGACAA
CTTGAAGGCTTCTTCTGCACTTAAAGGAATTCTACCTCACTCCCAACTCTCCTGCAGAAATGCTGCACAACGTC
ACCCTGGCGCTGGAGCTGCTGAAGGACGAGGGCCTGCTCAGCTGCCCTGTCAGCCCTGAAGATATCGTGAACAAG
GATGCCAAGAGCACACTGCGGGTGCTCTATGGTCTGTTCTGCAAGCACACGCAGAAGGCACACAGGGACAGGACG
CCCCATGGAGCCCCGAATTGA

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FIGURE 6102

MEPEFLYDLLQLPKGVEPPAEEELSKGGKKKYLPPTSRKDPKFEELQKVLMEWINATLLPEHIVVRSLEEDMFDG
LILHHLFQRLAALKLEAEDIALTATSQKHKLTVVLEAVNRSLOLEEWQAKWSVESIFNKDLLSTLHLLVALAKRF
QPDLSLPTNVQVEVITIESTKSGLKSEKLVEQLTEYSTDKDEPPKDVDELFLKLAPEKVNAVKEAIVNFVNQKLD
RLGLSVQNLDTFADGVILLLLIGQLEGFFLHLKEFYLTNPSPAEMLNVTLALELLKDEGLLSCPVSPEDIVNK
DAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN

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FIGURE 6103

CTGAGCCTCTCCGTGCAATGATTAAACCCGGCGGGGCGGCCGGCGCGGGACCCGAGACGGAGGCGCGGGGCCGGGG
CGGGACCCCGCAGGACCGCTCGGCTTCTTGCTCTCGCCGGAGTTTCCGCGTAGAGGGCGCATCGCCGGCCCGGGG
CCCTTGGTGC GGCGTG GCGCAGGGCGCGGCGTG GGGGCGCGCGTG GGGCGCGGCGCAGGCGGCCCGGGTCACCATGA
GGACTCTCCGCAGGTTGAAGTTCATGAGTTCGCCAGCCTCAGTGACCTGGGCAAGAGAGAGCCGGCCGCCCGCG
CGGACGAGCGGGGCACGCAGCAGCGCCGGGCCTGCGCCAACGCCACCTGGAACAGCATCCACAACGGGGTGATCG
CCGTCTTCCAGCGCAAGGGGCTGCCCGACCAGGAGCTCTTCAGCCTCAACGAGGGCGTCCGGCAGCTGTTGAAGA
CAGAGCTGGGGTCCCTTCTTCACGGAGTACCTGCAGAACCAGCTGCTGACAAAAGGCATGGTGATCCCTTCGGGACA
AGATTGCTTCTATGAGGAGCTGCAGAGAGACAAGGCGGCGGGCGGCTGCTGTGCTGGGTGCAGTGAGGAAGAGGC
CCTCGGTGGTGCCCATGGCTGGCCAGGATCCTGCGCTGAGCAGGAGTCACCCGTTCTACGACGTGGCCAGACATG
GCATTCTGCAGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTCACGTTTCAGCTGCTGCCGGATGCCACCCCT
CCCACGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTATA
CCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCATACAAGG
AGTTTCGATAGGAAAGACGGGGATCTCACTATGTGGCCAGGCTGGTCTCGAACTCCAAGCTCAAGCGATCCTCCC
ACCTCAGCCTCCCAAAGTACTGGGATTACAGGTACAAGAAGAACTGAAGGCCCTCTACGTGGTGCACCCACCA
GCTTCATCAAGGTCCCTGTGGAACATCTTGAAGCCCCTCATCAGTCACAAGTTTGGGAAGAAAGTCATCTATTTCA
ACTACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTCATCCCTCCCGAAGTTTTGCGGTACGATG
AGAAGCTCCAGAGCCTGCACGAGGGCCGGACGCCGCTCCACCAAGACACCACCGCCGCGGCCCCCGCTGCCCA
CACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAAATCAAGGCGAACTCATCCCCCTGTGCTGAGGT
TCACAGTGACGTACCTGAGAGAGAAAGGCCTGCGCACCGAGGGCCTGTTCCGGAGATCCGCCAGCGTGCAGACCG
TCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACCTTTGACGACTACGGGGACATTACATCCCTG
CCGTGATCCTGAAGACCTTCTGCGAGAGCTGCCCCAGCCGCTTCTGACCTTCCAGGCCTACGAGCAGATTCTCG
GGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTGGCTGCCGCCAGATCTTACGGAGCCTCCAGAGCACAACT
ACGTCGTCCTCCGCTACCTCATGGGCTTCTGTCATGCGGTGTCCCGGGAGAGCATCTTCAACAAAATGAACAGCT
CTAACCTGGCCTGTGTCTTCGGGCTGAATTTGATCTGGCCATCCAGGGGGTCTCCTCCCTGAGTGCCCTTGTGC
CCCTGAACATGTTCACTGAACTGCTGATCGAGTACTATGAAAAGATCTTCAGCACCCCGGAGGCACCTGGGGAGC
ACGGCCTGGCACCATGGGAACAGGGGAGCAGGGCAGCCCCCTTTCAGGAGGCTGTGCCACGGACACAAGCCACGG
GCCTCACCAAGCCTACCCTACCTCCGAGTCCCCCTGATGGCAGCCAGAAGACGTCTCTAGTGTTGCGAACTCTG
TATATTCGAGCTACCTCCACACCTGTCTGTGCACTTGTATGTTTTGTAACTTGGCATCTGTAAAAATAACCA
GCCATTAGATGAATTCAAGACCTTCTAATGAAAACCTCCATGCCTCTGGTCCTTGGACTCTTGTCCATGGTTCCTG
AGCTGTGGACCGGGATAGAAT

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FIGURE 6104

GGCCCAGGCTGAAGCTCAGGGCCCTGTCTGCTCTGTGGACTCAACAGTTTGTGGCAAGACAAGCTCAGAACTGAG
AAGCTGTCACCACAGTTCTGGAGGCTGGGAAGTTCAAGATCAAAGTGCCAGCAGATTTCAGTGTCTATGTGAGGACG
TGCTTCCTGCTTCATAGATAAGAGCTTGGAGCTCGGCGCACAAACCAGCACCATCTGGTTCGCG**ATCG**TGGACACGG
AAAGCCCCTCTGCCCCCTCTCCCCACTCGAGGCCGCGCATCTAGAGAGCCCGTTATCTGAAGAGTTTCTGCAAG
AAATGGGAAACATCCAAGAGATTTTCGCAATCCATCGGCGAGGATAGTTTCTGGAAGCTTTGGCTTTACGGAATACC
AGTATTTAGGAAGCTGTCCTGGCTCAGATGGCTCGGTCTATCACGGACACGCTTTTACCAGCTTCGAGCCCCCTCT
CGGTGACTTATCCTGTGGTCCCCGGCAGCGTGGACGAGTCTCCAGTGGAGCATTGAACATCGAATGTAGAATCT
GCGGGGACAAGGCCTCAGGCTATCATTACGGAGTCCACGCGTGTGAAGGCTGCAAGGGCTTCTTTTCGGCGAACGA
TTCGACTCAAGCTGGTGTATGACAAGTGCACCGCAGCTGCAAGATCCAGAAAAAGAACAGAAACAAATGCCAGT
ATTGTCGATTTTACAAGTGCCTTTCTGTGGGATGTACACAACGCGATTTCGTTTGGACGAATGCCAAGATCTG
AGAAAGCAAACTGAAAGCAGAAATTCTTACCTGTGAACATGACATAGAAGATTCTGAAACTGCAGATCTCAAT
CTCTGGCCAAGAGAATCTACGAGGCCCTACTTGAAGAACTTCAACATGAACAAGGTCAAAGCCCGGGTCATCCTCT
CAGGAAAGGCCAGTAACAATCCACCTTTTGTCTATCATGATATGGAGACACTGTGTATGGCTGAGAAGACGCTGG
TGGCCAAGCTGGTGGCCAATGGCATCCAGAACAAGGAGGCGGAGGTCCGCATCTTTCAGTGTGCCAGTGCACGT
CAGTGGAGACCGTCACGGAGCTCACGGAATTCGCCAAGGCCATCCAGGCTTCGCAAACCTGGACCTGAACGATC
AAGTGACATTGCTAAAATACGGAGTTTATGAGGCCATATTCGCCATGCTGTCTTCTGTGATGAACAAAGACGGGA
TGCTGGTAGCGTATGGAATGGGTTTATAACTCGTGAATTCCTAAAAAGCCTAAGGAAACCGTTCTGTGATATCA
TGAACCCCAAGTTTGAATTTGCCATGAAGTTCAATGCACTGGAAGTGGATGACAGTGATATCTCCCTTTTTGTGG
CTGCTATCATTTGCTGTGGAGATCGTCTGGCCTTCTAAACGTAGGACACATTGAAAAATGCAGGAGGGTATTG
TACATGTGCTCAGACTCCACCTGCAGAGCAACCACCCGACGATATCTTCTCTTCCCAAACTTCTTCAAAAA
TGGCAGACCTCCGGCAGCTGGTGACGGAGCATGCGCAGCTGGTGCAGATCATCAAGAAGACGGAGTCGGATGCTG
CGCTGCACCCGCTACTGCAGGAGATCTACAGGGACATGTACT**TGAG**TTTCTTTCAGATCAGCCACACCTTTTCCAGG
AGTTCTGAAGCTGACAGCACTACAAAGGAGACGGGGGAGCAGCACGATTTTGCACAAATATCCACCACTTTAACC
TTAGAGCTTGGACAGTCTGAGCTGTAGGTAACCGGCATATTATTCCATATCTTTGTTTTAACCAGTACTTCTAAG
AGCATAGAACTCAAATGCTGGGGGAGGTGGCTAATCTCAGGACTGGGAAG

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FIGURE 6105

MVDTESPLCPLSPLEAGDLESPLSEEFLOEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCP GSDGSVITDTLSPA
SSPSSVTYPVVP GSVDESPSGALNIECRICGDKASGYHYGVHACEGCKGFFRRTI RLKLVYDKCDRSCKIQKKNR
NKCQYCRFHKCLSVGMSHN AIRFGRMPRSEKAKLKA EILTCEHDIEDSETADL KSLAKRIYEAYLKNFNMNKVKA
RVILSGKASNNPPFVIHDMETLCMAEKTILVAKLVANGIQNKEAEVRIFHCCQCTSVETVTELTEFAKAIPGFANL
DLNDQVTLLKYGVYEAIFAMLS SVMNKDGMLVAYGN GFITREFL KSLRKPFCDIMEPKFDFAMKFNALELDDSDI
SLFVA AIICCGDRPGLLN VGHI EKMQEGIVHVLRLHLQSNHPDDIFLFPKLLQKMADLRQLVTEHAQLVQI I KKT
ESDAALHPLLQE IYRDMY

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FIGURE 6106A

CAACTTCCGGAAGGAGGCGGAAGAGCTTCTCGGCTCTAGGCTCTGGAGTCCCAGGAGCAGTGAGGGGCCACCCGG
GGCACAGGAAAGGGCCGCTAGGGGAGGGCCGGGTGCACTCGGGGTGTCTGGGCCGCGGGTCTGAGGGATGAGGAG
GGGCCATGGCCAGCGACGGGGCCAGGAAGCAATTCTGGAAGCGCAGCAACAGCAAGCTCCCAGGAGCATCCAGC
ACGTGTATGGTGCCAGCACCCCCCTTTGATCCACTGTTACATGGCACTTTGCTCAGGTCCACGGCCAAGATGC
CGACCACACCACTGAAGGCCAAGAGGGTCAGCACCTTCCAGGAGTTTGAGAGCAATACCAGCGATGCCTGGGACG
CTGGGGAGGACGACGATGAGCTCCTGGCCATGGCGGCGGAGAGCCTGAACTCCGAGGTGGTTCATGGAGACGGCCA
ACCGTGTGCTGCGTAACACAGCCAGCGGCGAGGGCGGGCCACGCTGCAGGAGGGGCCAGGGCTTCAGCAGAAGC
CCAGGCCCGAGGCAGAGCCGCCCTCACCCCCAGCGGCGACCTCCGGCTGGTGAAGTCGGTTCAGTGAGAGCCACA
CGTCTGTCTGTCAGAAAGTGCCAGCGATGCCGCCCTCTGCAGAGGTCCCAGTCTCTCCCACACTCGGCCACCG
TCAGCTGGGTGGCACATCTGACCCAGCACTCTCAGCAGCTCAGCGCTGAGCGAAAGAGAGGGCTCCCAGGCTCG
ACAAGTTCAAGCAGCTGCTTGCCGGCCCCAACACGGACCTTGAGGAATTACGGAGGTTGAGCTGGTCCGGAATCC
CTAAGCCAGTGCGTCCAATGACGTGGAAGCTCCTCTCAGGTTACCTTCCCGCCAATGTAGACCGGAGACCAGCCA
CTCTCCAGAGAAAACAAAAAGAATATTTTGCATTTATTGAGCACTATTACGATTCTAGGAACGACGAAGTTTACC
AGGACACATACAGGCAGATCCACATAGACATCCCTCGCATGAGCCCTGAAGCGTTGATCCTGCAGCCCCAAGGTGA
CGGAGATTTTTGAAAGGATCTTGTTTCATATGGGCGATCCGCCACCCAGCCAGTGGATACGTTTCAGGGTATAAATG
ATCTCGTCACTCCTTTCTTTGTGGTCTTCATTTGTGAATACATAGAGGCAGAGGAGGTGGACACGGTGGACGTCT
CCGGCGTGCCCGCAGAGGTGCTGTGCAACATCGAGGCCGACACCTACTGGTGCATGAGCAAGCTGCTGGATGGCA
TTCAGGACAACCTACACCTTTGCCCAACCTGGGATTCAAATGAAAGTGAAAATGTTAGAAGAACTCGTGAGCCGGA
TTGATGAGCAAGTGACCCGGCACCTGGACCAACACGAAGTGAGATACCTGCAGTTTGCTTCCGCTGGATGAACA
ACCTGCTGATGAGGGAGGTGCCCTGCGTTGTACCATCCGCCTGTGGGACACCTACCAGTCTGAACCGGACGGCT
TTTCTCATTTTCACTTGTACGTGTGCGTGTCTTTCTCGTGAGATGGAGGAAGGAAATACTAGAAGAAAAAGATT
TTCAAGAGCTGCTGCTCTTCCCTCCAGAACCTGCCACAGCCCACTGGGATGATGAGGACATCAGCCTGTTGCTGG
CCGAGGCCTACCGCCTCAAGTTTGCTTTTGCCGACGCCCCCAATCACTACAAGAAATGAGCCAGGCCACCCGC
AGCTGGCCTCACTGTCCCAGGTGGCGCGCCCCACCTGCCTGGCTGGTGGTAGGCCCTGTGAGCTGGTCCCAGGC
TGCTAAAAGGCCTTGTGAGGTGGCCCCACCTCCAGGGGAGCTGGTGAAGATGGGCCACAGACCTGGTCTAGGGC
TGACAAAGACAGGGACAGCCTTTGTTTTCTGAGATACAAAGAGAGCCAGGGGAGGGCCCCGGGTTCGGCGGCCA
GAGGCAGGTGAGGGGTCCCCCTCTCCCTGCAATGTCCTTGCCAAATGACTGCCTCGTGTGCCCCCTAGTC
CGGGGCAGCCTAGGAGGCCGACCCTCTTTGGAGTCTGCTGTCTGGGTGCCAGGGCCGGAACGAGGTAGTGGCCA
TCTCATACCTACTCTGAAATGCAAACTTCTATTCTGTTGAGTGAAAGAATAAAATGTAGACAAAATCTAGACCG
AGACGTTGCGCTGACCCGGGGTCTCTGTGCCGCGAGGTCCCCTCACAGCTGTATTTCACTGCTGCTGGCCCTTTC
CCTCCGTGTGTTTTCTGCTTGCTTGTTTTAAACGTGGCTGGGAAGCTGAAGGCTGGAGTCCAAGCCGTGAGCCC
GCCGAGTGCTGGGAGGCCGTGGGACCAAGGCTGGGAGCAGAGGGAGGCCTCGCCATCGCCTTACTTTCCACCT
TGAACCTCTTTTACAAGAGAGAAACCCCACTCCCTGAGGTCCAGGGCCAAGTGGCCCCGCCACGCAGGTAGGC
GCCGGCCTCAGCCAGAGCCCCTGGAGGCCACCCAGGCTGTCCGGCCATGTTGGGCTGGCAGACGGGCAGGGGT
CGCGTCCCTGTTCATCAAAGCCCTGAACCACAGTGCTCTTCTCACCGCAGCCTGGAAGCGGAATGAGCTTTTGGAG
ACTTCTGGGACTTGCTGTCTTGTCCAGGTCTGCCAGGTGTAGGGGAGGTGTGACTGGTTCCATCATGGACCGG
TTCTCCATGGACCGGTTCCTCCGTGGACCGGTTCCGCCATGGACCGGTTCCGCCATGGACCACTCCTGCCCTGG
ACCACTCCTGCCCTGGACCGGTTCTGCCGTGGACTGGTTCCCGCCGTGGACCAAGTCCCGCTGTATACTGGTTCT
GCCCTGGACTGGTTCCCGCTGTGGACTGGTTCTTGGGGCTCTAAGTGCGGAAGGGCCCAGAGCTGGTCCCTGCC
CAGCGCCCTGCTAGGGCTGTGTCTTGGCTCCAGGGGCCTTGGGACTGGCTTCCCAGCGTTCCCTCGGTGTGTCA
CAGGCTGCATGACCCCTGGAATGCGGGCAGGGCCACAGCCACAGTCTGTCTGATCCCTGAGCCCAGGACAGGCTC
ACGTCTCAGCGACCCACTGGTGACTGACTTCCCAGACTCTCCTCTGTCCCTCAGGAGCAGCCGTGTCTCTCCC
AGGCCCTAGGACACTGCCAGAGACTGTGGGACATACAGGCATAAGTGATGTGTGTGTTTCTGCTTCTGTTTTAAA
AATCCAGGGTCATTACACACAGCATGGAATTAGCACAAAATGCTGTGCAAACGTCAGATGCTCCCAAACAGCA
AAGGGATGGGCTTGCTTCACATCAGATGCGGGCAGGCCTTACCCCTGCCTTCCGTGTCCCCACCCAGGGTCAAG
GGTTCTCAGACCAGCATGCCTCCTCCTGCGCCTCCTTTTCTAGATGGGGAGGGGATTCCGTCACAAGAA
GAGCCGCCCCCTCGGCCGTGTGCAGGAAGCCCCATGTGCTTTGCCGAGATCAGCCCTGGGAGGATCCCCTTCTCC
AGCTCAGATCATGCCGTGTGGCCAGAAGGCTGCGGACACAACCTGACCTGCTTCTCGAGGTGGTTGATGTTTTAAA

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FIGURE 6106B

CAGGAAGCTCCACGGAGTTCAGCCCTGTGTGCATTTCTCATGTATGTAAACGCCAAGACTGAATGTGAGAGGTG
TTGCCGCGGGCCTTAAGTCTGAGCAGATCCATCTGGAATGTTCTGGGTGTGCTGTCTGGATGTGGTTCGCTAAA
AACACGGAATAAAGATCAGTGAC

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FIGURE 6107

MASDGARKQFWKRSNSKLPGSIQHVG AQHPFDPLLHGTL LRSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAG
EDDDELLAMAAESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQQKPRPEAEPPSPPSGDLRLVKS SVSESHTS
CPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPK
PVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFIEHYYSRNDDEVHQDTYRQIHIDIPRMSPEALILQPKVTE
IFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEEVDTVDVSGVPAEVL CNIEADTYWCMSKLLDGIQ
DNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIRLWDTYQSEPDGFS
HFHLYVCAAF LVRWRKEILEEKDFQELLLFLQNLPTAHWDDedislllaeayrlkfafadapnhykk

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FIGURE 6108A

GTCCGGCGGCGTCGCGGGCGGCGGGCGGCGGGCGGCGGGAGGGGCGCGGGGGCAGACAAAGCCGCGGTAATGAA
TGGAGCGTCCGCCCCGCGCCGCGCTCGTCCGCAGCCGGCCGGGAGCCGCCCCAGAGGCCGGGCCGAGGTAATGCAC
AAGGGTCACGTGTATGCTCTCAAGATGATCAGGCAGATCCTGTCTCAGGACCAGAAGCACGTCTCTGCTGCACA
CATTGTTGTCTACACCATGAGTGTCTTAGTAGCAGGACTCTTGGAAGCAGTGATCTATGCTGTAAGACCATGAGT
CACAGATTCTTTTTTTCAGTACTATTTATGATTAGCCATATTTCTAGAAACATCCTGAAAGATGGAATTATGACG
AAAAAGTGAAGATAATCTACATTTCGGGGGACACAAATGAGCACTTGGATCAGTGTTTTATGAACCTAAGATACAGC
CGGAGTAGTTATGGTCAGTCATGGAGAATAACTTGAAAACCTTGTCCTCAAGAGGACGGTGATTTCTGTTTCTGATA
AAATAAAGTTTTAAATAGAAGAGGAAGATGATGATGGAATTCCTCCTGATAGTTTGAAAGAATGGACTTTAAAA
GCGAGCAGGAGGACATGAAGCAGACAGACAGCGGTGGGGAGCGAGCGGGCCTCGGTGGGACGGGTTGCAGCTGCA
AGCCCCCGGGGAAGTACTTGTCTGCAGAGAGTGAGGATGACTATGGCGCGCTGTTCTCCAGTACAGCAGCACCC
TATACGACGTGGCCATGGAGGCCGTGACCCAGAGCCTCCTTTCCAGCCGGAACATGAGCTCCAGGAAGAAGTCTC
CAGCCTGGAAGCATTTTTTATCTCTCCCCGAGACAGCACTAAAGCAATATGCATGTAAGTGTGAAGGAGTTCA
GCAGAGGCAAAAACGAGAAAGACTTGAGTACCAGTTGTCTCATGAGGCACGTGAGGCGCGCACACCCGACCGTGC
TCATTGAGAAAATGGCAGTGTGTCTGCCGTGTCTCGTTCCCTCTCCCTCACTCCTGCTTCCACCACAGCCTG
CGGACGCGGGTGACCTCAGCACCATCCTCTCACCCTCAAACTTGTCAGAAAAGTGGCGTCTAAGATCCCGTCCC
CCGATCGAATAACAGAGGAGTCTGTGTCTGTAGTTTCTTCTGAAGAAATCTCCTCTGACATGTCCGTTTCGGAGA
AGTGCGGCAGAGAAGAAGCCCTGGTGGGGTGTCTCCCCACCTCCCTGCTCTCCATTACGATGAACCTGCAGAGA
ACTTAGCGGAGAAGAGCCTTCCACTTCCAAAAGAGCACCTCTGGGTCCAGGAGAAGGTCCGCTGTCTGGAAGCACT
TCTACCTGTGCGCACTGGACAACCTCAAAGCTGTCTGCATTCACTGCATGAACGAGTTGAGCCGGGGGAAGAATG
GGAAGGACCTGGGCACGAGCTGCCTCATCAGGCACATGTGGAGGGCACACCGCGCCATCGTGTTCAGGAGAACG
GGGGCACGGGCATCCCGCCACTGTACTCCACCCCTCCCACTCTGCTGCCTTCCTTGCTGCCGCCGAGGGGGAGC
TCAGCTCTGTGTCTCGTCTCCAGTAAAGCCGGTCAGAGAGTCCCTTCGGCCTCCTCCTCCCCTGACAGGCTGA
CTGAGGACTTGAGTCTCACTTGAACCCTGGAGATGGGCTGATGGAAGACGTGGCGGCCTTCTCATCTTCCGATG
ACATAGGGGAGGCTCGGCGTCTCTCCTGAGAAGCAGCAGGCTGATGGGCTGAGTCTAGATTGTTTGAATCTG
GCGCCATCTTCCAGCAGAATAAAAAGGTGATGAAAAGACTGAAGTCGGAGGTCTGGCATCACTTCTCCCTGGCCC
CCATGGACAGCCTCAAGGCCGAGTGTGCGTACTGCGGCTGTGCCATCAGCCGGGGGAAGAAGGGTGATGTGGCA
CCAGCTGCCTGATGAGACATCTCTACCGGCGCCATCCAGAAGTTGTGCGGAGCCAGAAGGGCTTCTCGGGTGCAA
GTCTGGCAAACTCTCCGTATGCCACTTTGGCCTCTGCAGAAAGTTTCTCTTCCAAATTGACTGACTTGCCACAG
TGGTCACAAAAACAATCAAGTTATGTTTCTGTTAATAGCAAAAAGACCTCGAAGCTGTGGAATCATTTTTCTA
TTTGCTCCGCAGACTCCACAAAAGTCGTGTGCTTGCACTGTGGCCGGACCATCAGCCGGGGGAAGAAGCCGACTA
ACTTGGGTACCAGCTGTCTTCTGAGACATTTACAGCGGTTCCATAGCAACGTGCTGAAAACCTGAGGTCTCGGAGA
CGGCTCGGCCCTCTCTCCGGACACCCGGGTGCCGCGGGGCACAGAATTATCAGGCGCTTCTCTTTTGATGACA
CCAATGAGAAGTTTTACGATTCTCACCAGTTGCCAAAAAATCACAAGTCTCATAGCTGAAATGATTGCACTTG
ACCTCCAGCCATATTCTTTTGTAGACAACGTTGGCTTTAACAGGCTGCTTGAATACTTGAAACCTCAGTACTCCC
TCCCCGCCCTTCTTACTTCTCCAGGACAGCTATCCCAGGTATGTATGATAATGTGAAGCAGATAATTATGTCCC
ACCTTAAGGAAGCTGAGAGTGGTGTGATCCACTTACGTCTGGAATATGGATGAGTAACCAGACCCGTGAGTACC
TGACCTCACGGCCCACTGGGTTTCTTTCGAGTCGCCAGCCGGCCGCGCTGTGACGACCACCACTGCTCGGCGC
TGTTGGACGTGTGCGAGGTGGACTGCGACTACAGTGGCAACAGCATTCAGAAGCAGCTGGAGTGCTGGTGGGAAG
CGTGGGTGACCTCCACCGGCCTTCAGGTGGGCATCACCGTCACCGACAACGCCAGCATCGGGAAGACGCTGAACG
AGGGGGAGCACTCGAGCGTGCAGTGCTTACGCCATACGGTGAACCTGATCGTCAGCGAGGCCATTAAGAGCCAGC
GGATGGTGCAGAACCTGCTGAGCCTCGCCCGGAAGATCTGCGAGCGGGTGCACCGGTGCCCCAAGGCGAAGGAGA
AACTGGCCGAGCTGCAGAGGGAGTACGCGCTGCCTCAGCATCACCTCATCCAGGACGTCCCGTCCAAGTGGAGCA
CTTCTTCCACATGCTCGAGCGGCTCATTGAGCAGAAAAGGGCCATTAACGAGATGTCCGTGAGTGTAACCTTCC
GAGAGCTGATCAGCTGCGACCACTGGGAGGTGATGAGTCCGTGTGCCGTGCGCTAAAGCCCTTCGAGGCTGCGA
GCCGGGAGATGAGCACGCAGATGTCCACCCTCAGCCAGGTGATCCCCATGGTACACATCCTCAACAGGAAGGTGG
AGATGCTCTTCGAGGAGACGATGGGCATCGACACCATGCTGCGCTCTCTGAAGGAGGCCATGGTGAGCCGCTGT
CTGCCACCCTCCACGACCCGCGGTACGTCTTCGCCACGCTGCTGGATCCTCGCTACAAGGCCTCCCTGTTTACGG
AGGAGGAGGCGGAGCAGTACAAACAGGATTTAATCAGGGAACCTCGAACTCATGAATTCTACCTCAGAGGACGTGG

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FIGURE 6108B

CTGCCTCCACAGGTGTGATGCTGGCTCCCCGTCGAAAGACTCTGCCGCAGAGGAGAACCTGTGGTCACTTGTGG
CCAAGGTGAAGAAGAAAGACCCAAGAGAAAAGCTGCCTGAAGCCATGGTGCTTGCGTATCTGGAGGAGGAGGTGC
TTGAACACAGCTGTGACCCGCTCACCTACTGGAACCTGAAGAAGGCGTCCTGGCCGGGGCTGTCCGCGCTGGCCG
TCAGATTTTTGGGCTGCCCCCAAGCATCGTCCCTTCAGAAAAGCTGTTCAACACACCCCACTGAGAACGGTAGCC
TTGGCCAATCCAGGCTCATGATGGAACATTTTGAAAACTTATCTTTTTGAAAGTGAATCTTCCCTTAATATACT
TTCAGTATTGAAACTCACGACGGCACCCTAGGCCAGAGGCGTGGCTGCCCCAGCGTTAGCAGCCTGTACCAGGT
CTATGACCCGCTCTGCCCACGGCTGTGTACGACATCAGACCAGGCACTCTCAGGGCCGCTCTCCAGCTCACCACA
GTGTCTCCACGTGCCCTTACCCCTTCTCCTTCAGGCCAAGTTTCGCGGGGTGTTTTATTAAAGACGTCCACTAGAAA
TAGCTTGTCTGTCAACTATGAAATATGGTGACTAGATTTTAATTTCATAACCGTAAAGTTTTTTAAAGTTTTGGG
TTAGTAATTTGTTTTACTAGAATGACAAAGAAGATGTAAACCATTTTATTCTGTAGGCTTTTTACTCAATTATGT
ACAAACCACAAATCAGGTACTGTATTTTAGTGAAGCATTGCTTTAATTGCAACAGAATAGCTTTTGTGGCTATCA
AATGAAATCTGTAAATAGGAGGTGGAGGGCAAGCCATCCTGACTGAGCAGTTTTTAACCGCAGGTTCTAAAGTGT
CCCGCGGAGTACAGATAATATTCTGGAAGGTAAGTGTACTACGACAGAGACGTGGCATTGGAACGAACTT
AGATGTTTCATGGAGCTTATTTTGAGAACTTTCCCATTTAGGTTTCTGCATTCAGGCTTACATGGTCAGTTAA
CTCAGAGATACCCAGCTGTTTATCATCAGCTCCTCTGAAATGTGATCCCTTTGTAAGTGTGCTCATCACTTCGC
CAGTGCGTTCAATGACACGCTGATGGCAGGTGGTCCCTGCTGAAACCCCAAGCCTCCGCTTCAGCATCTCCACG
CTCTGAAGCTGTCTTTCAAATGTGTGCACTGACCCCTTGTTTGATCAAATTTGTGTAAAATTTTTTTTAGAAGA
GATGGCTTATTAACAGGGAAGAAGCTTGTTATATTCCAGTTGTAAGAATAGCCTTAGTGTTTAGATTTTTTTATG
ATAGGGAAGATGCGGCCATCACTGGGATATTTTCAAATCCAAGGACATCAGAGTGAAGTGTGAGTTGTCAGATG
ATTTTAAAGTTATGTCTTCAGAGAAAAAAGATTCTTTCTCATTTTAAACCAATTAAATATTCTGAGTGAGA
CTAATCACTCATTTGCCTACGACCTTTTAGAAAAGTTGTTTTGTTGAAATACTGTACGTACGCTTAATCTAAATT
TGCATTGACTATGTTTTAGTGTATTTATAAATGGTGAAGTCAAGTTTCTGAAATTAACTTCTTATTTGCAATTTT

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FIGURE 6109

CCATGTTGGCCAGGCTGGTCTGAGAGAGAACTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGG
GATGACAGGCGTGCGCCACTGCACCCGGCCCGTGAAGGTCTTTTCTGAAGGGAGCTACCTTTGAGAAGTGCCGTG
TGGGACAGAACTCCCTGCTCTGGTCTGACCCTCTGCACGCTAGGGTGGTCTGCACCTGTCGGGGAGGGGGCCAA
GGACACAGCACTGGGCTGGGGCAGGGCTCTGCGCTGGTGTGCTGCCTGCCATCCCAGTTCTGCCATTCCCCCAGCGC
ACCCCCGCACCCGCCCCCTCCAGCTGATGCCTGCTCCCTCTCTCTGCAGAACGGGCTCATGTGGGGGCTGATGCAG
ATGCTGCTGCTGAAGGTGTCTGCACACATCACCGAGCAGCTGGGCATGGCCCCAGGTGGCGAGTTCAGGGAGGCC
TTCAAGGAGGTGGGCACAGGGTGAGGTAGGGGGTGGCCACAGGGATGTGGCTCACAGGGGTGGTCCGGGGTTCCC
AGTGCTCCCCAACACCCAGCCTCTGCTCCAGGCCAGCAAGGTGCCTTTCTGCAAGTTCACCTGGGTGACCGACC
CATCCCCGTACCTTCAAGAGGGCCATCGCAGCGCTCTCCTTCTGGCAGAAAGTTCAGGCTGGCTTGGGGCCTGTG
CTTCCTGTGACACCCCATCAGGTAGGGCTGCCCCGGGACCCCTGGCCGGCTGCAGGGTGGTCTGTGGGAGGCTC
CAGGCCCTCCTGTGCAGGTCCAAGCGCAGCCAATCCTCACTCAAGGCCTTCCCTGCCCTTTCTTCCGCCACAAA
TCCCAAACAAACGTGCTGTGGTCCCTGCCCCGGTGTCCACAGTGCCAGCCCCACCCCCCAGCCCGTTGCCCATCC
CTGCGGGGCTGCAGCCATCCCTCTCCACAGCAAGGATGACGTGGAACGCTGCAAGCAGAAGGACCTACTGGAGCA
GATGATGGCCGAGATGATTGGCGAGTTCCAGACCTGCACCGCACCATCGTCTCGGAGCGCGACGTCTACCTAAC
CTACATGCTGCGCCAGGCCGCGCGGCCTCGAGCTGCCTCGGGCCTCTGACGGTGACGGCCGCCCGCAGGCGTG
GGACCCCTGTGAGGCTGAGGCCCGAGCAGGTACTGACCCCTTGTCTTCCCCACAGCCGAGCCAGGAAGTGCG
TCCCCTCCGTGGTCTGTGGGCGTCTGTGGCATGGGCCACGTGCCTGGCATCGAGAAGAACTGGAGCACCGACCTCA
ACATCCAGGAGATCATGACCGTGCCCCCGCGTCCGTCTCCGGCAGAGTGTCTCGGTGGCCGTGAAGGCCGCT
TCTTCGGCCTGCTGGGCTACAGCCTGTACTGGATGGGCCCGCGCACCGCGAGCCTGGTCTGTGCTGCCCCGCG
CGCAGTACTGCCTGCAGAGGGTGACCGAGGCCCGGCACAAGTAGGAGACTGCTCCCCGCGCTCGGGCCCCCTGA
GGAGCCAGTGCCCCCGCGGCACCTTCTGGGTGCCAGGTGCATCCTAGCCCGCCGAGGCCCTGCCACCCCCCATG
GGGGTCTGGGGCCCGCCTCGCCTGCCCTCCTGGGCCAGTCACCCCTCCCCCAGCCCACCCAAATAAAGGATTATT
TAACTGTCTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6110

MWLTGVVRGSQCSPTPSLCSRPARCLSASSTWVTDPSPSPSRGPSQRSPSGRRSGWLGACASCQTPSGRAAPGTL
AGLQGGLWEAPGPPVQVQAQPILTQGLPCPFLPPQIPNKRAVVPARCPQCQPHPPSPLFIPAGLQPSLSTARMTW
NAASRRTYWSR

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FIGURE 6111

GCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGACCGGGCGAGCGCTGGGAGCTGCAGCTCAA
GGGCGCCGGGCCCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCGGGAGTTTCT
ATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCCGGCGCCTGCGTCACGTCCGAGTCCACGGT
GGTGC GCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGCTTCCACTTT
CATAAGGTTTGGATCCTTTGAGATTTTAAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAGCGTGGGGAG
GAACGACATTCGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGCTCATGCCAG
CGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGCGCACGGCGCGGATGGTGGCCGAGTGGCA
GTGTGTGGGCTTCTGCCACGGCGTGTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGACTACGGGCC
CTTTGGCTTCTTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTACGCGTACAG
CAAGCAGCCCCAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAAGTGGCCCTGGAGCT
GGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCGCAGGAAGCT
GGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCATCTGACCGG
TGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCAGTGGAGCTAGAGTCGCCAGGCCTGGCGGAATT
CCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGATGGATCCCCG
GCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGACGCTGTTTCGCGCTTATGGGCACCCGGGCAGGCAT
CGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCAGAGCAGGAA
CCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGCTGGGGACGC
TGCCGCTTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAACTACATCGC
GCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAAACTACTGGAGACCCC
TTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAGGCAGCGCTC
CTACAGCAGTAAGCCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATGATCTTCGTAACGGCCTCGGCACGCTCC
ACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCTATACACTGG
GGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTGACCCGTCTC
TGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACCAGCAACTCC
CTCG

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FIGURE 6112

MYLGEVCTATGERWELQLKGAGPTPFSRQADGRKVLRSSIREFLCSEAMFHLGVPTTRAGACVTSESTVVRDVFY
DGNPKYEQCTVVLRLVASTFIRFGSFEIFKSAD EHTGRAGPSVGRNDIRVQLLDYVISSFYPEIQAAHASDSVQRN
AAFFREVTRRTARMVAEWQCVGFCHGVLNTDNMSILGLTIDYGPFGLDRYDPDHVCNASDNTGRYAYSKQPEVC
RWNLRKLAEALQPELPLELGEAILAEEFDAEFQRHYLQKMRRKLGVLQVELEEDGALVSKLLETMHLTGADFTNT
FYLLSSFPVELESPGLAEFLARLMEQCASLEELRLAFRPQMDPRQLSMMLMLAQSNPQLFALMGTRAGIARELER
VEQQSRLEQLSAAELQSRNQGHWADWLQAYRARLDKDLEGAGDAAAWQAEHVRVMHANNPKYVLRNYIAQNAIEA
AERGDFSEVRRVLKLLETPYHCEAGAATDAEATEADGADGRQRSYSSKPPLWAAELCVT

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FIGURE 6113

GATTCTCCCAGCAACAAGCTGCTGTACGCCAAGGAGATCTCCACCTACAAGAAGATGGTGGAGGATTACTACAAG
GGGATCCGGCAGATGGTGCAGGTCAGCGACCAGGACATGAACACACACCTGGCAGAGATTTCCCGGCGCCCCCTC
CCTGCGGCTGCACCCACGGCCGTGCCACAGCGCCCCCTCCCTGCGGCTGCACCCTCGGCCGTGCCACAGCGCC
CCCTCCCTGCGGCTCCATCCACGGCCGTGTCCACAGCGCCCCCTCCCTGCGGCTGCACCCACGGCCGTGCCACA
GCGCCCCCTCCCTGCGGCTCCACCCACAGCCCTGCTCACAGCACCCGTCCCTGTGGGTCCATCCACAGCCGTGCG
TCACACAGGGAGACACTGAGATGGTTGGATGTGCACAACCTCTGCCTGCGCGCACACGGACTCCTTGAACACCCCTC
GTGGCACTCCACCAGCTCTACCAATACACGCAGAAGTACTATGACGAGATCATCAATGCCTTGGAGGAGGATCCT
GCCGCCCAGAAGATGCAGCTGGCCTTCCGCCTGCAGCAGATTGCCGCTGCACTGGAGAACAAGTCAGGGTGGGCT
TCCTAG

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FIGURE 6114

GCCCTGCTCTAGCGGGCCGCGTAGCGGACATGGCGGGCTCCCGGGCTCCCGCGGCAGCTCTTCCTCCAGGGCGTG
CGGCCGTCTTCAIGTTTGCTTTTCGCTTCCCTCTACACGCAAATCCCAGGCCTGTATGGCCCCGAGGGCATCCTAC
CTGCAAGGAGGACGCTGCGGCCTCAGGGCAAGGGGCGCTGGCAGCAGCTGTGGGAGACCCGACGCTGCTGTGGG
AAGCGCCGAGACTGGGGCTGGACACGGCCAGGGCCTGGAGCTGCTGAGCCTGCTGGGTGCACTAGTGGCCCTGG
GAGCCCTGCTGCTGAGCCCACTGCGCCACCCTGTCATCTACTTGCTGCTTTGGGCCGCCTACCTGTCAGCCTGCC
AGGTGGGCCAGGTGTTTCCTTTATTTCCAGTGGGACTCCCTGCTGCTAGAGACTGGCTTCCTGGCCGTGCTGGTGG
CCCCGCTGAGGCCAGCCTCCCACGCAAGGAGGGCCCCCAGGGCAGGCAGGCAGGGGCCCTGCCCCACGAAGACC
TCCCCCTTCTGGCTGGTGCATGGCTGCTGTTCCGCCTCATGTTTCGCCTCAGGCGTGGTCAAGCTGACCAGCCGCT
GCCCTGCGTGGTGGGGGCTCACTGCCCTACCTACCACTACGAGACCCAGTGCCTGCCCCACGCCCGCCGCTGGT
TCGCACACCACCTGCCGGTCTGGCTGCACAAGCTCAGCGTGGTGGCCACCTTCCTAATTGAGATCGCTGTGCCGC
CCCTGTTCTTCGCCCCCATTTCGACGCTGCGCTTGGCTGCTTTCTACTCGCAGGTGCTGCTGCAGGTCCCTGATTA
TCATCACCGGCAACTACAATTCTTCAACCTGATGACGCTGGTGTCTTACCCTGCGCTGCTGGACGACCAGCACC
TGGCTGCTGAGCCTGGCCACGGCAGCCGCAAGAAGACGGCCACCTCCTGGCCCAAGGCCCTGCTGGCCACCCTGT
CGCTGCTGCTGGAAGTAGCCGTCTACGGGCTTCTGGCCTATGGCACTGTGCACTACTTTGGCCTGGAGGTTGACT
GGCAGCAGCGCACCATCCACTCCAGAACCCTTTCACCTTCCACCAGTTTTCTCAGTGGCTGAAGACACTGACGC
TGCCCACTGTGTGGCTGGGTGTGGCCTCCCTGGTCTGGGAGCTGCTGAGTGCCCTGTGGAGGTGGACCCAGGTGC
GGGGCTGGCTACGGAAGCTCAGTGTGTAGTCCAAGTGTCCCTTGTGGGCACTGCGACCGTGGCCTTGTTCCTGA
TTAGCCTGGTGGCGTACTCCTACGTGGAGCCCGGGACCCACGGGCGCCTCTGGACCGGGGGCCACC GCCTGTTTG
GTGCCGTGGAGCACCTACAGCTGGCCAACCTCCTACGGCCTCTTCCGCCGATGACTGGGCTTGGTGGACGGCCTG
AGGTGGTGTGGAGGGCAGTTACGACGGCCACCCTGGACGGAGATCGAGTTCATGTACAAGCCTGGGAACCTGA
GCCGGCCGCCCGGGTTGTGGTGCCCCACCAGCCACGCCTGGACTGGCAGATGTGGTTTGCAGCCCTGGGCCAC
ACACGCACAGCCCGTGGTTTACAAGCCTGGTCTTGCCTGCTGTCAGGGCAAGGAGCCAGTGATCCGCCTTGTCC
AGAGCCAAGTGGCCAGGTATCCCTTCCACAAGCAGCCGCCACCTACGTCCGAGCCAGCGCTACAAGTACTGGT
TCTCCCAGCCTGGGGAGCAGGGCCAGTGGTGGCGGCCAGTGGGTGGAGGAGTTCTTCCCATCCGTGTCCCTGG
GGGACCCACGCTGGAGACGCTGCTCAGGCAGTTTGGACTACAGGAGAAAAGCCACCTCGCACCCGCGAGCGCCA
ACAGCACCCCTGGCCCAGGCCCTCCACTGGACTCGCTCTCAGCTGTCTCCCCTGGAGGCCCCCGCCCTGCTCTGGG
GGCTCCTCATGGCCGTGGGGGCTGTGAGATTTGTGCAAGCCCTGCTAGCACCTGTTCTCTCCGGTCTTCCCGC
TGGCACCAAGTCAGCGGGGAGAAGCGCAGGCCAGCCTCCAGAAAGACTCCGGAGCTGCCTCCGAACAGGCCACCG
CAGCCCCCAACCCCTGCTCCAGTAGTTTCGAGGACCACCCGGCGAAAGAAGTAGCTGTGTTCTCCAGCTGCACGT
CCTGAGAGGGCCAGGTGCGCGGAGTGTCTGCGCTCCGGCAGGACAGGACCCAGCCACTGTGCCTTAGCTGACC
CTGCAGGGCCAGGCACAGGTTGGGGGGCTGCCCCCTGGGGTTTGCAGGGTGTGATTGAGGGCTCCAGGCCCCAC
CCCCACGCCAGCCATGCCCCCTCCCAGGACTCCCACTATTGCCTCTGTGATTGGCCCAGGAGGAAAACACGACCA
AGCTCAAGACCCTTCCCCTGCCCTGGGCTGTGGGGTCTGAGTCTAGAGCCCCCAACCCCTAGGCCCCGTGCCAGA
GGGGAAGAGGCTGACTCCCAGGGGAAGAGGGGAAGCACTGTCTCTTCCACGTCTCTTACACCAGCCCCATCCT
GCCCTTTAGATCTGGGCACCAATAAAGGCGTCTTTTGTGCTTG

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FIGURE 6115

MAGSRLPRQLFLQGVAAVFMFAFASLYTQIPGLYGPEGILPARRTL RPQGKGRWQQLWETPTLLWEAPRLGLDTA
QGLELLSLLGALVALGALLLSPLRHPVIYLLLWAAYSACQVGQVFLYFQWDSLLLETGFLAVLVAPLRPASHRK
EAPQGRQAGALPHEDLPFWLVRWLLFRLMFASGVVKLT SRCPAWWGLTALTYHYETQCLPTPAAWFAHHLPVWLH
KLSVVATFLIEIAVPPLFFAPIRRLRLAAFY SQVLLQVLI IITGNYNFFNLMTLVLT TALDDQH LA AEPGHGSR
KKTATSWPKALLATLSLLELAVYGLLAYGTVHYFGLEVDWQQRTIHSRTTTFTHQFSQWLKTLTLP TVWLGVAS
LVWELLSALWRWTQVRGWLRLKLSAVVQLSLVGTATVALFLISLVPYSYVEPGTHGRLWTGAHRLF GAVEHLQLAN
SYGLFRMTGLGGRPEVVLEGSYDGHHWTEIEFMYKPGNLSRPPPVVPHQPRLDWQMWFAALGPHTHSPWFTSL
VLRLQKGKEPVIRLVQSQVARYPFHKQPPTYVRAQRYKYWFSQPGEQGQWRRQWVEEFFPSVSLGDP TLETLLR
QFGLQEKSPPRTRSANSTLAQALHWTRSQLSPLEAPALLWGLLMAVGAVRFVQALLAPCSLRSSPLAPVSGEKRR
PASQKDSGAASEQATAAPNPCSSSSRTTRKK

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FIGURE 6116

AGCAAAATGGCGCCAGAACTAGTGGCGGGCTGAGGACGCCGTACCCCTCGGAAGGCAGCCCTGCGGTCCCTTTGC
CGCCCGTTCCCTCCCGGACATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGACAGCCCATCCGCGACCTCAC
CAAGAACTGGGAGGTGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTT
TGACGAAGGCAAGACCACAATGAACTTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAA
GAAGGTGGAATACCTCTACTCACTCGTCTACCAGGCCCTTGATTTTCATCTCTGGAAAGAGGCGGGCCAAGCAGCT
CTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGGTCCCCAGGAGGCAGAGAATGAGTTCCT
GTCGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCCAGTGTGAGTCTCA
TCATCCCCCTCTGCCCATGGCCCTGGTGGCCCTTGATGAAATGGAGAAGAACAACAATCCCCTGTACAGCCGTC
AGGGTGAGGTCTTGCCAGCCGGAAGGATTTCAGGATGAACACGTGCGTTCCCCACCCAGAGGGGCCTTCATGT
TGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTCCCCATGCCAGGGACCCAGAAGGACACCGGGA
GGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTGTCCAGCACTCGGCTTCTCCCAGGAGCCAG
GCCCCCTCTCCAGAAGGCCCGATGCCCTGGGTGGGGGCGAGGACGAGGATGCAGAGGAGGCAGTAGAGCTTCCTG
AGGCCTCGGCCCCCAAGGCCGTCTGGAGCCCAAGGAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGA
GGTACATGCTGCGGGAGCGGGAGGGGGCCCCAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGA
GCCTGGACCCCTTTGACTCCTTGGAGTCTAAGCCCTTCAAGAAAGGTAGGCCTTACTCTGTGCCCCCTGTGTGG
AGGAGGCTCTGGGACAGAAGCGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGCTG
CCTATGCAGACCATGCCGACAGCAGGCGGCTTCGGCGAAAGGGTCCGTCTTTGCAGACATGGAGGTCTGTACT
GGACACACGTGAAGGAGCAGTTGGAACCTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGC
CTGCAGAGGAGGACCACCTGGAGGATTCCCTGGAAGACCTGGGGGCAGCAGATGACTTTCTAGAGCCTGAGGAGT
ACATGGAGCCCGAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAGCTACGAGG
AGCTGGTTTCGAAGGAATGTGGAGCTCTTCATCGCCACCTCCCAGAAGTTTGTCCAGGAGACAGAGCTGAGCCAGC
GCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTTGACATCCACA
CCTATGGGGACCAGCTGGTCTCACGGTTCCCCAGCTCAATGAGTGGTGTCCCTTTGCGGAGCTGGTGGCTGGCC
AGCCGGCCTTCGAGGTGTGTGCTTCCATGCTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCC
AGCAGCCCCGGGCTGGAGATGGCCGTGGACACCATGTCCCTGAGACTGCTCACGCACCAGCAGCGCACAAAGCGCT
TCCAGACCTACGCTGCCCCCTCCATGGCCCAGCCCCTGAGTGGGGAGCACCGAGGCAGGGGTGGGGGAATGTGTAC
TGAGGAGCCGTGTGTCTGCTCCTGGCTGGCCCGGCCTAATAAAGCAGTGTGCCATCTCATCTTCCCCCTAAAAA
CCCTTTTATGTACACCTGCGCAGAGAAGAGGGCTGCCTGGCCTCCCTGGGCCGCTGGTACAGATCACACACACAC
ACAGATTAAACGCAGCCCGTTTAAATGATGGGGCCCAGACTGCAGTGGCTCAAGACAGGACACTGCGGAAAGCCGC
CATGTGCCGCCGCACACTGTCTGAGATCTGCTCAGCCGATCTGCTCCGGCCGTAGTAATCCGTGAAGAGGCCGTC
AGGGTTGAGCAGGTAGATGGCAATGGAGTGGTCCACGATGTAGTCCTGGTCCTCATCCTTGGGGCCTGCATTGTA
GTACACGCGGTAACTGTGACTAGCCTGGGCAACCTGTTTGGTGGAGCCGCTCAGACCCAACAGTCTTGGGTGGAA
GTCCTGGACGTAGCGGGCCATGGCTTCAACGTGCTCCCGCTCGGGGTCCACAGTGATGAAGACAGGCTGCACTGG
AGGCAAACCAGGCTCTGCTTCCAGCTGCCGCACCACCTGCACCAGCTTCTCCAGCTCGTCTGGGCAGATGTCAGG
GCAGTGAGTGAAGCCAAAGTACATCAGCACCCACTGGCCCCGGAAGTCAGCCTTGACGCGAGCCCGGCCTCTGTG
ATCCAGCAGGTGGAAGTCGCCCTGGCCACAGCTGCCTGGCGCAGGGCTTCTGTTGCTTTTGTGCTGCAGCCT
CTCCTTCTCAGCCCTCAGGGCCAGCCAGGCCCCACCGAGTCCAGCCCCGAACAGGCCTGTGATCAGCAGCCGGGT
TCGAAGCCCAGGGCCCTGGGGCTGGCCCTGCCACCTGTCTCTGCAGGGCCCTGCCTTGACAAAAGCCAGGACCT
CAGATGCAGGGCCTGGCCTCCAGGGTCCAGGGAGGACCCGAGGCTTGAGCTGAGAGAGCCTGTGCCAAGCTGT
GGGGCTCCGAGTCAGCAGCAGCATGGATCTGATGCTCCTGGAAACAAGCACAGGCGTCAGGAGCCAGAAGGGAAG
GCCCAGGACAGTGCTGGGCTGCCCTGCGACTTGAGACCAGCCACCCATCTGAAGGACCCAGCCCACGTTTCAGG
CTTAACAGGCATTTGCAGCTGCTCACCTGAGCTCAGAACTCCACCTCCACCAAACATCCACACCTGGGCAACCAC
ACCTGTCACTCCTGTCTCTACCTGGGATCACAGCCTGTACCGCACCCCTGCCCTGCACCTGCACCTCAGCAAG
GTGAACCTCTTGCTGACGGAAGCATTCCAAGTGCATGCCTTGCTGAACTAACCACGTTATCTATTTGCAATAA
ACCCATTTCTTAAAGG

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FIGURE 6117

MALVAPDEMEKNNNPLYSRQGEVLASRKDFRMNTCVPHPRGAFMLEPEGMSPMEPAGVSPMPGTQKDTGRTEEQP
MEVSVC RSPVPALGFSQEPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALEPKESRSPQQSAALPRRYMLRE
REGAPEPASCVKETPDWPQSLDPFDSLESKPFKKGRPYSVPECVEEALGQKRKRKGAACLQDFHQWYLAAYADHA
DSRRLRRKGPSFADMEVLYWTHVKEQLETLRKLQRREVAEQWLRPAEEDHLED SLEDLGAADD FLEPEEYMEPEG
ADPREAADLDAVPMSLSYEELVRRNVELFIATSQKFVQETELSQIRDWEDTVQPLLQEQQHVPFDIHTYGDQL
VSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEMAVD TMSLRLLTHQRAHKRFQTYAA
PSMAQP

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FIGURE 6118

GCTTTCACAGCGCGGGGGAACGGGAGGCCGCGAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGC
AGTACACCAGCGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTG
CTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTGTTGA
GAAGACTGAAAACGTTGTAGTGAACAAAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTG
TCTGACAGAACTCATTCTACCAATAATAGGCTCGTGGAAGTGGGTGATCTGGACCCTCTGGCATCTCTCAAATC
GCTGACTTACCTAAGTATCCTAAGAAATCCAGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGT
TCCGCAAATCAGAGTACTGGATTTCCAGAAAGTGAAACTAAAGAGCGTCAGGAAAGCAGAGAAAATGTTCAAGGGC
AAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTAATCCAGGTGCTGGTTTGCCAACT
GACAAAAGAAAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATGCTATAGCAAATGCTTCAACTCTG
GCTGAAGTGGAGAGGCTGAAGGGGTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAGATTGGGGCCCACT
GATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAGCAGTGAGGCAGATGTATAATAAT
AGGCCGTCTTGGAACAAGTCTTGCTTTTCAAACATAGTATAATAGCCTTGTTTGTTAGCAAAGTGGAATCTAT
CAGCATGGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTTTTGAAATCTAAATGTCAATTTTC
TACAAATTATAAAAATAAACTCCACTCACTGTGCTACC

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FIGURE 6119

GTCTTAGCGGCTGCGCGGTGGCTGCTCCGTCTTTTCGGTCCAGGCGGCGGCAGGGCTGAGCCAGCGACGCCCTCC
ATTCACTCTCCGCGCCCGTTCTCCGGCTGTCTCCCGTTCCGCTGCCCCGCCCTGCCACCATGACGGAAACAGGCCA
TCTCCTTCGCCAAAGACTTCTTGGCCGGAGGCATCGCCGCCGCCATCTCCAAGACGGCCGTGGCTCCGATCGAGC
GGGTCAAGCTGCTGCTGCAGGTCCAGCACGCCAGCAAGCAGATCGCCGCCGACAAGCAGTACAAGGGCATCGTGG
ACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGCTGTCTTCTGGAGGGGCAACCTTGCCAACGTCATTTCGT
ACTTCCCCACTCAAGCCCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCTGGGGGGCGTGACCAAGC
ACACGCAGTTCTGGAGGTACTTTGCGGGCAACCTGGCCTCCGGCGGTGCGGCCGGCGCGACCTCCCTCTGCTTCG
TGTACCCGCTGGATTTCCGCCAGAACC CGCTGGCAGCGGACGTGGGAAAGTCAGGCACAGAGCGCGAGTTCCGAG
GCCTGGGAGACTGCCTGGTGAAGATCACCAAGTCCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCG
TGCAGGGCATCATCATCTACCGGGCGGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGACCCCA
AGAACACGCACATCGTGGTGAGCTGGATGATCGCGCAGACCGTGACGGCCGTGGCCGGCGTGTTGTCTTACCCCT
TCGACACGGTGCGGGCGGCATGATGATGCAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTCG
ACTGTTGGAGGAAGATCTTCAGAGATGAGGGGGGCAAGGCCTTCTTCAAGGGTGCGTGGTCCAACGTCCTGCGGG
GCATGGGGGGCGCCTTCGTGCTGGTCCTGTACGACGAGCTCAAGAAGGTGATCTAAGGGCCGCGGCCTCCTCCAC
ACACACACACACACCAGGGGAACCAAGAGAACCACGTAGAATCCTCAACCGTGCGGACCATCAACCTTCGAGAAA
TTCCAGTTGTCTTTTTCCAGCCGCATCCTGCCTGTAGATGGCCGGGGAAGGCTCTAGAAAAGGGGCGCATTGCG
ATCCAACCATCGGCAGCCGATTCCGTGTCTTGATCACGGGGTGGGAGGGAACCGTGGCGTCCCTGCGTGGGGCCC
ATGGGTGAGACACTCCAGTACTGAGACCTAGAGTCCAGATGCTTGTAGGAGCCAAGTCGTGTTCTAAGTATTTAT
TTAAAACAAAAGAATCACGTTTTCCATTTGTACTTCAGCGCTAGCCCCTGTTTTGCACAGCCGAGTACTGGCGA
GTATGTTCTATGTTGGGCCTCCTGCTGCAAAACAATAAACAGAGGACGCAGAGGTC

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FIGURE 6120

MTEQAISFAKDFLAGGIAAAISKTA VAPIERVKLLQVQHASKQIAADKQYKGIVDCIVRIPKEQGVLSFWRGNL
ANVIRYFPTQALNFAFKDKYKQIFLGGVDKHTQFWRYFAGN LASGGAAGATSLCFVYPLDFARTRLAADV GKSGT
EREF RGLGDCLVKITKSDGIRGLYQGF SVSVQGII IYRAAYFGVYDTAKGMLPDPKNTHIVVSWMIAQTVTAVAG
VVSYPFDTVRRRMMMQSGRKGADIMYTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFVLVLYDELKKVI

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FIGURE 6121

ATGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCCTGGACGTGGCG
GCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAGCTG
CTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACGGTC
AGCCCGACGTACAAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCAGAC
GCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATCTAC
AGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTGCTG
ACCGCCTTTGACCTGTCTAGTGTTCCTTATGTGTGACCTTGGTGGTGGGGCTGGAGCTCTGGCTAAGGAATGC
ATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTTGACATCCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTC
TCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGACCTGCTCAATCCATAAGACGATTAATGAGTGCTAAT
GATGGCAAGCGCTCCAGAGGCTCCGGAAGCCACGGCTGGATTGGAGACAAGATGGGATCCTCAGAGGACCAGGCC
TATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCCAGGTGAAGAGATGCAGAGGGTCCAAGAGGATT
TCACAGAGTTCACAGAAACCAGCTCCTCAAGAGACATCAAGTCACCCAAGAATAGACAAGCAGGATGATGCACGC
AGATCTTCAGATGCTTCCAGATCTTCCAGATGCTCCAGAAGAGCTAGAGCAGAGGCAATGA

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FIGURE 6122

TCCAAGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCCTGGACGTG
GCGGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAG
CTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACG
GTCAGCCCCGACGTACAAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCA
GACGCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATC
TACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTG
CTGACCGCCTTTGACCTGTCAGTGTTCCTACTTATGTGTGACCTTGGTGGGACATGGATAAAGCTGGAAACCATC
ATTCTCAGCAAACATATCGCAAGGACAGAAAACCAAACACCGCGTGTCTCACTCATAGGTGGGGCTGGAGCTCTG
GCTAAGGAATGCATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCA
AAGCAGCACTTCTCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGGGATTTCTTCAAAGACCCTCTTCCG
GAAGCTGATCTGTACATCCTGGCCAGGGTCCTCCATGACTGGGCAGACGGAAAGTGCTCACACCTGCTGGAGAGG
ATCTACCACACTTGCAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCTCT
CTGCTCACGCAGCTCTACTCTCTGAACATGCTTGTGCAGACGGAAGGGCAGGAGAGGACCCCCACCCACTACCAC
ATGCTCCTCTCTTCTGCTGGCTTCAGAGACTTCCAGTTTAAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCC
AGGAAATAACTGTTTCTTGTGACCTGGAACCTAACGTCAAAGCACACAAGACATAATAATAAAGACATGTACCTCC
A

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FIGURE 6123A

ATGCCCAAGCGCGCGCACTGGGGGGCCCTCTCCGTGGTGCTGATCCTGCTTTGGGGCCATCCGCGAGTGGCGCTG
GCCTGCCCGCATCCTTGTGCCTGCTACGTCCCCAGCGAGGTCCACTGCACGTTCCGATCCCTGGCTTCCGTGCCC
GCTGGCATTGCTAAACACGTGGAAAGAATCAATTTGGGGTTTAATAGCATACAGGCCCTGTCAGAAACCTCATTT
GCAGGACTGACCAAGTTGGAGCTACTTATGATTACGGCAATGAGATCCCAAGCATCCCCGATGGAGCTTTAAGA
GACCTCAGCTCTCTTCAGGTTTTCAAGTTCAGCTACAACAAGCTGAGAGTGATCACAGGACAGACCCTCCAGGGT
CTCTCTAACTTAATGAGGCTGCACATTGACCACAACAAGATCGAGTTTATCCACCCTCAAGCTTTCAACGGCTTA
ACGTCTCTGAGGCTACTCCATTTGGAAGGAAATCTCCTCCACCAGCTGCACCCAGCACCTTCTCCACGTTTACA
TTTTTGATTATTTTCAGACTCTCCACCATAAGGCACCTCTACTTAGCAGAGAACATGGTTAGAACTCTTCCTGCC
AGCATGCTTCGGAACATGCCGCTTCTGGAGAATCTTTACTTGCAGGGAAATCCGTGGACCTGCGATTGTGAGATG
AGATGGTTTTTTGGAATGGGATGCAAAATCCAGAGGAATTCTGAAGTGTAAGGACAAAGCTTATGAAGGCGGT
CAGTTGTGTGCAATGTGCTTCAGTCCAAAGAAGTTGTACAACATGAGATACACAAGCTGAAGGACATGACTTGT
CTGAAGCCTTCAATAGAGTCCCCCTCTGAGACAGAACAGGAGCAGGAGTATTGAGGAGGAGCAAGAACAGGAAGAG
GATGGTGGCAGCCAGCTCATCTGGAGAAATCCAAGTCCCCAGTGGAGCATCTCTTTGAATATGACCGACGAG
CACGGGAACATGGTGAACCTGGTCTGTGACATCAAGAAACCAATGGATGTGTACAAGATTCACTTGAACCAAACG
GATCCTCCAGATATTGACATAAATGCAACAGTTGCCTTGGACTTTGAGTGTCCAATGACCCGAGAAAACCTATGAA
AAGCTATGGAATTGATAGCATACTACAGTGAAGTTCCCGTGAAGCTACACAGAGAGCTCATGCTCAGCAAAGAC
CCCAGAGTCAGTACCAGTACAGGCAGGATGCTGATGAGGAAGCTCTTTACTACACAGGTGTGAGAGCCCAGATT
CTTGCAAGAACAGAATGGGTCTATGCAGCCATCCATAGATATCCAGCTGAACCGACGTCAGAGTACGGCCAAGAAG
GTGCTACTTTCTACTACACCCAGTATTCTCAAACAATATCCACCAAAGATACAAGGCAGGCTCGGGGCAGAAGC
TGGGTAATGATTGAGCCTAGTGGAGCTGTGCAAAGAGATCAGACTGTCTCTGGAAGGGGGTCCATGCCAGTTGAGC
TGCAACGTGAAAGCTTCTGAGAGTCCATCTATCTTCTGGGTGCTTCCAGATGGCTCCATCCTGAAAGCGCCCATG
GATGACCCAGACAGCAAGTTCTCCATTCTCAGCAGTGGCTGGCTGAGGATCAAGTCCATGGAGCCATCTGACTCA
GGCTTGTACCAGTGCATTGCTCAAGTGAGGGATGAAATGGACCGCATGGTATATAGGGTACTTGTGCAGTCTCCC
TCCACTCAGCCAGCCGAGAAAGACACAGTGACAATTGGCAAGAACCCAGGGGAGTCGGTGACATTGCCTTGCAAT
GCTTTAGCAATACCCGAAGCCACCTTAGCTGGATTCTTCCAAACAGAAGGATAATTAATGATTTGGCTAACACA
TCACATGTATACATGTTGCCAAATGGAACCTTTTCCATCCCAAAGGTCCAAGTCAGTGACAGTGGTTACTACAGA
TGTGTGGCTGTCAACCAGCAAGGGGCAGACCATTTTACGGTGGGAATCACAGTGACCAAGAAAGGGTCTGGCTTG
CCATCCAAAAGAGGCAGACGCCAGGTGCAAAGGCTCTTTCCAGAGTCAGAGAAGACATCGTGGAGGATGAAGGG
GGCTCGGGCATGGGAGATGAAGAGAACACTTCAAGGAGACTTCTGCATCCAAAGGACCAAGAGGTGTTCTCTCAA
ACAAAGGATGATGCCATCAATGGAGACAAGAAAGCCAAGAAAGGGAGAAGAAAGCTGAAACTCTGGAAGCATTCTG
GAAAAAGAACCAGAGACCAATGTTGCAGAAGTTCGAGAGTGTGTAATCTAGACGAAGGATAAACATGGCAAAC
AAACAGATTAATCCGGAGCGCTGGGCTGATATTTTAGCCAAAGTCCGTGGGAAAAATCTCCCTAAGGGCACAGAA
GTACCCCATTTGATTAAACACAAAGTCTCCATCCTTGAGTCTAGAAGTCACACCACCTTTTCTGCTATTCTCT
CCCCCTCAGCATCTCCTGTGCAGACAGTAACAGTGTGAAGAATCCTCAGCAGATGTACCTCTACTTGGTGAA
GAAGAGCACGTTTGGGTACCATTTCTCAGCCAGCATGGGGCTAGAACACAACCACAATGGAGTTATTCTTGTT
GAACCTGAAGTAACAAGCACACCTCTGGAGGAAGTTGTTGATGACCTTTCCGAGAAGACTGAGGAGATAACTTCC
ACTGAAGGAGACCTGAAGGGGACAGCAGCCCCTACACTTATATCTGAGCCTTATGAACCATCTCCTACTCTGCAC
ACATTAGACACAGTCTATGAAAAGCCCACCCATGAAGAGACGGCAACAGAGGGTTGGTCTGCAGCAGATGTTGGA
TCGTCACCAGAGCCCACATCCAGTGAGTATGAGCCTCCATTGGATGCTGTCTCCTTGGCTGAGTCTGAGCCCATG
CAATACTTTGACCCAGATTTGGAGACTAAGTCACAACCAGATGAGGATAAGATGAAAGAAGACACCTTTGCACAC
CTTACTCCAACCCCCACCATCTGGGTAAATGACTCCAGTACATCACAGTTATTTGAGGATTCTACTATAGGGGAA
CCAGGTGTCCAGGCCAATCACATCTACAAGGACTGACAGACAACATCCACCTTGTGAAAAGTAGTCTAAGCACT
CAAGACACCTTACTGATTAAAAAGGGTATGAAAGAGATGTCTCAGACACTACAGGGAGGAAATATGCTAGAGGGA
GACCCACACACTCCAGAAGTTCTGAGAGTGAGGGCCAAGAGAGCAAATCCATCACTTTGCCTGACTCCACACTG
GGTATAATGAGCAGTATGTCTCAGTTAAGAAGCCTGCGGAAACCACAGTTGGTACCCTCCTAGACAAAGACACC
ACAACAGCAACAACAACCAAGGCAAAAAGTTGCTCCGTCTATCCACCATGAGCACTCACCTTCTCGAAGGAGA
CCCAACGGGAGAAGGAGATTACGCCCCAACAAATCCGCCACCGGCACAAGCAAACCCACCCACAACCTTTTGCC
CCATCAGAGACTTTTTCTACTCAACCAACTCAAGCACCTGACATTAAGATTTCAAGTCAAGTGGAGAGTTCTCTG

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FIGURE 6123B

GTTCTACAGCTTGGGTGGATAACACAGTTAATACCCCCAAACAGTTGGAAATGGAGAAGAATGCAGAACCCACA
TCCAAGGGAACACCACGGAGAAAAACCGGGAAGAGGCCAAACAAACATCGATATACCCCTTCTACAGTGAGCTCA
AGAGCGTCCGGATCCAAGCCCAGCCCTTCTCCAGAAAATAAACATAGAAACATTGTTACTCCCAGTTCAGAAACT
ATACTTTTGCCTAGAACTGTTTCTCTGAAAAGTCTGAGGGCCCTTATGATTCTTAGATTACATGACAACCACCAGA
AAAATATATTTCATCTTACCCTAAAGTCCAAGAGACACTTCCAGTCACATATAAAACCCACATCAGATGGAAAAGAA
ATTAAGGATGATGTTGCCACAAATGTTGACAAACATAAAAGTGACATTTTAGTCACTGGTGAATCAATTACTAAT
GCCATACCAACTTCTCGCTCCTTGGTCTCCACTATGGGAGAATTTAAGGAAGAATCCTCTCCTGTAGGCTTTTCCA
GGAAGTCCAACCTGGAATCCCTCAAGGACGGCCAGCCTGGGAGGCTACAGACAGGCATACCTGTTACCACCTTCT
GGGGAATCTTACAGACCTCCCTTCTTAAAGAGCTTGAGGATGTGGATTTCCTCCGAGTTTTTGTCTCT
TTGACAGTCTCCACACCATTTACCAGGAAGAAGCTGGTTCTTCCACAACCTCTCTCAAGCATAAAAGTGGAGGTG
GCTTCAAGTCAGGCAGAAACCACCACCCTTGATCAAGATCATCTTGAAACCACTGTGGCTATTCTCCTTTCTGAA
ACTAGACCACAGAATCACACCCCTACTGCTGCCCGGATGAAGGAGCCAGCATCCTCGTCCCATCCACAATTCTC
ATGTCTTTGGGACAAACCACCACCCTAAGCCAGCACTTCCAGTCCAAGAATATCTCAAGCATCTAGAGATTCC
AAGGAAAATGTTTTCTTGAATTATGTGGGGAATCCAGAAACAGAAGCAACCCCAAGTGAACAATGAAGGAACACAG
CATATGTCAGGGCCAAATGAATTATCAACACCTCTTCCGACCAGGATGCATTTAAGTGTCTACAAAGCTGGAA
TTGGAAGCAAGTATTTGGTAGTAGGAGTCTACCACGTGGCCAGATAGCCAACGCCAGGATGGAAGAGTTCAT
GCTTCTCATCAACTAACAGAGTCCCTGCCAAACCCATCCTACCAACAGCAACAGTGAGGCTGCCTGAAATGTCC
ACACAAAGCGCTTCCAGATACTTTGTAAGTCTCCAGTCACCTCGTCACTGGACCAACAAACCGGAAATAACTACA
TATCCTTCTGGGGCTTTGCCAGAGAACAAACAGTTTACAACCTCAAGATTATCAAGTACAACAATTCTCTCCCA
TTGCACATGTCCAAACCCAGCATTCCTAGTAAGTTTACTGACCGAAGAACTGACCAATTCAATGGCTACTCCAAA
GTGTTTGGAAATAACAACATCCCTGAGGCAAGAAACCCAGTTGGAAAGCCTCCAGTCCAAGAATTCCTCATTAT
TCCAATGGAAGACTCCCTTTCTTTACCAACAAGACTCTTTCTTTTCCACAGTTGGGAGTCACCCGGAGACCCAG
ATACCCACTTCTCCTGCCCGAGTAATGAGAGAGAGAAAAGTTATTCCAGGTTCTTACAACAGGATACATTCCCAT
AGCACCTTCCATCTGGACTTTGGCCCTCCGGCACCTCCGTTGTTGCACACTCCGCAGACCACGGGATCACCTTCA
ACTAAGTTACAGAATATCCCTATGGTCTCTTCCACCCAGAGTTCTATCTCCTTTATAACATCTTCTGTCCAGTCC
TCAGGAAGCTTCCACCAGAGCAGCTCAAAGTTCTTTGCAGGAGGACCTCCTGCATCCAAATTCTGGTCTCTTGGG
GAAAAGCCACAAATCCTCACCAAGTCCCACAGACTGTGTCCGTCACCGCTGAGACAGACACTGTGTTCCCTGT
GAGGCAACAGGAAAACCAAGCCTTTCTGTTACTTGGACAAAGTTTCCACAGGAGCTCTTATGACTCCGAATACC
AGGATACAACGGTTTGGGTTCTCAAGAACGGTACCTTAGTGATACGGAAGGTTCAAGTACAAGATCGAGGCCAG
TATATGTGCACCGCCAGCAACCTGCACGGCCTGGACAGGATGGTGGTCTTGCTTTCCGTCACCGTGCAGCAACCT
CAAATCCTAGCCTCCCACTACCAGGACGTCACTGTCTACCTGGGAGACACCATGCAATGGAGTGTCTGGCCAAA
GGGACCCAGCCCCCAAATTTCTTGATCTTCCCTGACAGGAGGGTGTGGCAAACCTGTGTCCCCCGTGGAGGGC
CGCATACCCCTGCAGGAAACCGGACCTTTCCATCAAGGAGGCGTCTTCTCAGACAGAGGCGTCTATAAGTGC
GTGGCCAGCAATGCAGCCGGGGCGGACAGCCTGGCCATCCGCTGCAGTGGCGGCACTGCCCCCGTTATCCAC
CAGGAGAAGCTGGAGAACATCTCGCTGCCCCCGGGCTCAGCATTACATTCACTGCACTGCCAAGGCTGCGCCC
CTGCCCAGCGTGCCTGGGTGCTCGGGGACGGTACCCAGATCCGCCCCCTCGCAGTTCTTCCACGGGAACCTGTTT
GTTTTCCCCAACGGGACGCTCTACATCCGCAACCTCGCGCCCAAGGACAGCGGGCGCTATGAGTGCCTGGCCGCC
AACCTGGTAGGCTCCGCGCGCAGGACGGTGCAGCTGAACGTGCAGCGTGCAGCAGCCAACGCGCGCATCACGGGC
ACCTCCCCGCGGAGGACGGACGTCAAGTACGGAGGAACCTCAAGCTGGACTGCAGCGCTCGGGGGACCCCTGG
CCGCGCATCCTCTGGAGGCTGCCGTCCAAGAGGATGATCGACGCGCTCTTCAAGTTTTGATAGCAGAATCAAGGTG
TTTGCCAAATGGGACCCTGGTGGTGAAATCAGTGACGGACAAAGATGCCGGAGATTACCTGTGCGTAGCTCGAAAT
AAGGTTGGTGATGACTACGTGGTGCTCAAAGTGATGTGGTGATGAAACCGGCCAAGATTGAACACAAGGAGGAG
AACGACCACAAAGTCTTCTACGGGGGTGACCTGAAAGTGGACTGTGTGGCCACCGGGCTTCCCAATCCCGAGATC
TCCTGGAGCCTCCAGACGGGAGTCTGGTGAACTCCTTCATGCAGTCGGATGACAGCGGTGGACGCACCAAGCGC
TATGTCGTCTTCAACAATGGGACACTCTACTTTAACGAAGTGGGGATGAGGGAGGAAGGAGACTACACCTGCTTT
GCTGAAAATCAGGTGGGAAGGACGAGATGAGAGTCAGAGTCAAGGTGGTGACAGCGCCCCGCCACCATCCGGAAC
AAGACTTACTTGGCGGTTTCAAGTGCCCTATGGAGACGTGGTCACTGTAGCCTGTGAGGCCAAAGGAGAACCCATG
CCCAAGGTGACTTGGTTGTCCCCAACCAACAAGGTGATCCCCACCTCCTCTGAGAAGTATCAGATATACCAAGAT

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FIGURE 6123C

GGCACTCTCCTTATTTCAGAAAGCCCAGCGTTCTGACAGCGGCAACTACACCTGCTTGGTCAGGAACAGCGCGGGA
GAGGATAGGAAGACGGTGTGGATTACGTCAACGTCCAGCCACCCAAGATCAACGGTAACCCCAACCCCATCACC
ACTGTGCGGGAGATAGCAGCCGGGGGCGAGTCGGAAACTGATTGACTGCAAAGCTGAAGGCATCCCCACCCGAGG
GTGTTATGGGCTTTTCCCGAGGGGTGTGGTTCTGCCAGCTCCATACTATGGAAACCGGATCACTGTCCATGGCAAC
GGTTCCTTGGACATCAGGAGTTTGAGGAAGAGCGACTCCGTCCAGCTGGTATGCATGGCAGCAACGAGGGAGGG
GAGGCCAGGTTGATCCTGCAGCTCACTGTCTGGAGCCCATGGAGAAACCCATCTTCCACGACCCGATCAGCGAG
AAGATCACGGCCATGGCGGGCCACACCATCAGCCTCAACTGCTCTGCCGCGGGGACCCCGACACCCAGCCTGGTG
TGGGTCTCTTCCCAATGGCACCAGATCTGCAGAGTGGACAGCAGCTGCAGCGCTTCTACCACAAGGCTGACGGCATG
CTACACATTAGCGGTCTCTCCTCGGTGGACGCCGGGGCTACCGCTGCGTGGCCCCGAATGCCGCTGGCCACAG
GAGAGGCTGGTCTCCCTGAAGGTGGGACTGAAGCCAGAAGCAAACAAGCAGTATCATAACCTGGTCAGCATCATC
AATGGTGAGACCCTGAAGCTCCCTGCACCCCTCCCGGGCTGGGCAGGGACGTTTCTCCTGGACGCTCCCCAAT
GGCATGCATCTGGAGGGCCCCCAAACCTGGGACGCGTTTCTCTTCTGGACAATGGCACCCTCACGGTTCGTGAG
GCCTCGGTGTTTGACAGGGGTACCTATGTATGCAGGATGGAGACGGAGTACGGCCCTTCGGTCACCAGCATCCCC
GTGATTGTGATCGCCTATCTCCTCCCGGATCACCAGCGAGCCACCCCGGTCACTACACCCGGCCCGGGAACACC
GTGAAACTGAACTGCATGGCTATGGGGATTCCCAAAGCTGACATCACGTGGGAGTTACCGGATAAGTCGCATCTG
AAGGCAGGGGTTTCAAGGCTCGTCTGTATGGAAACAGATTTCTTACCCCCAGGGATCACTGACCATCCAGCATGCC
ACACAGAGAGATGCCGGCTTCTACAAGTGCATGGCAAAAAACATTCTCGGCAGTGACTCCAAAACAACCTTACATC
CACGTCTTCTGAAATGTGGATTCCAGAATGATTGCTTAGGAACTGACAACAAAGCGGGGTTTGTAAAGGGAAGCCA
GGTTGGGGAATAGGAGCTCTTAAATAATGTGTACAGTGCATGGTGGCCTCTGGTGGGTTTCAAGTTGAGGTTGA
TCTTGATCTACAATTGTTGGGAAAAGGAAGCAATGCAGACACGAGAAGGAGGGCTCAGCCTTGCTGAGACACTTT
CTTTTGTGTTTACATCATGCCAGGGGCTTCATTTCAGGGTGTCTGTGCTCTGACTGCAATTTTTCTTTTTTTGCAA
ATGCCACTCGACTGCCTTCATAAGCGTCCATAGGATATCTGAGGAACATTCATCAAAAAATAAGCCATAGACATGA
ACAACACCTCACTACCCCATTTGAAGACGCATCACCTAGTTAACCTGCTGCAGTTTTTACATGATAGACTTTGTTC
CAGATTGACAAGTCATCTTTTCAAGTTATTTCTCTGTCACCTTCAAAACTCCAGCTTGCCCAATAAGGATTTAGAAC
CAGAGTGACTGATATATATATATATATTTTAAATTCAGAGTTACATACATACAGCTACCATTTTATATGAAAAAGAA
AAACATTTCTTCTGGAACCTCACTTTTTATATAATGTTTTATATATATATTTTTTCTTTTCAAATCAGACGATGA
GACTAGAAGGAGAAATACTTTCTGTCTTATTAAAATTAATAAATTATTGGTCTTTACAAGACTTGGATACATTAC
AGCAGACATGGAAATATAATTTTAAAAAATTTCTCTCCAACCTCCTTCAAATTCAGTCACCACCTGTTATATTACC
TTCTCCAGGAACCTCCAGTGGGGAAGGCTGCGATATTAGATTTCTTGTATGCAAAGTTTTTGTGAAAGCTGT
GCTCAGAGGAGGTGAGAGGAGAGGAAGGAGAAAACATGCATCATAACTTTACAGAATTGAATCTAGAGTCTTCCCC
GAAAAGCCCAGAACTTCTCTGCAGTATCTGGCTTGTCCATCTGGTCTAAGGTGGCTGCTTCTTCCCCAGCCATG
AGTCAGTTTGTGCCCATGAATAATACACGACCTGTTATTTCCATGACTGCTTTACTGTATTTTTAAGGTCAATAT
ACTGTACATTTGATAATAAAATAATATTCTCCC

6635/6881
FIGURE 6124

GGCACGAGGGGAGGCCGGGGCGGGGCGGGCGCAGCCGGCGCTGAGCTTGCAGGGCCGCTCCCCTCACCCGCCCC
TTCGAGTCCCCGGGCTTCGCCCCACCCGGCCCGTGGGGGAGTATCTGTCTGCGCCCTTCGCCCACGCCCTGCAC
TCCGGGACCGTCCCTGCGCGCTCTGGGCGCACCATGGCCCGCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTG
CTGGGTGTTCTGGTCGCCGCCCCGGATGGTGGTTTCGATTTATCCGATGCCCTTCCTGACAATGAAAACAAGAAA
CCCACTGCAATCCCCAAGAAACCCAGTGCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAAT
GACGACCCACGACCACCGAACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCCTCCGGTAGC
TTTTTCAGATGCTGACCTTGCGGATGGCGTTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGGAGGCAGCCAC
AGGAAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTCGTGGTCGCCGTGGCT
GGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAAGCTATGCTTCAAAGAAAATGCAGAACAAAGGGGAGGTG
GACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTACGCTACTCTTTTAGAGAAATAGAAAGATTGTC
GGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACCTGCCTG
AGAGCAGAGATGGAGGCCCTTCTGTTACGGCGGATTCTTTGTTTTAATCTTGCGATGTGCTTTGCTTGTTGCTGG
GCGGATGATGTTTACTAACGATGAATTTTACATCCAAAGGGGGATAGGCACCTGGACCCCCATTCTCCAAGGCC
GGGGGGGCGGTTTCCCATGGGATGTGAAAGGCTGGCCATTATTAAGTCCCTGTAAC TCAAATGTCAACCCACCG
AGGCACCCCCCGTCCCCAGAATCTTGGCTGTTTACAAATCACGTGTCCATCGAGCACGTCTGAAACCCCTGGT
AGCCCCGACTTCTTTTTAATTAAAATAAGGTAAGCCCTTCAATTTGTTTCTTCAATATTTCTTTCAATTTGTAGGG
ATATTTGTTTTTCATATCAGACTAATAAAAAGAAATTAGAAACCAAAAAAAAAAAAAAAAAAAAAA

6636/6881
FIGURE 6125

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPPNPPKP
MPNPNPNHPSSSGSFSADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAGAISSFIAYQK
KKLCFKENAEQGEVDMESHNRNANAEPVQRTLLEK

6637/6881
FIGURE 6126

CGGGGCGGGCGGGCGGGCGGTGAAGTCACTGCTGCTCTGGGTTTCGGGTTGGCGACTGAAGGCGGTACCGGCCTCCC
GGAACAGCCCGGGGGAGGGCTTAGGTGCAGAAGGGCAGGCTGGCCGCGGCCGTTTGGTCTGGGGACCACGGGCT
GGAGCAGGTGGAAATTTAAAATTGTTTACAGTCAACACTGTTTCCAGCCATGGGTTTGTCTCCATCTGCTCCTGC
TGTTGCAGTTCAGGCCTCAAATGCTTCAGCGTCCCCACCTTCAGGATGCCCCGATGCATGAAGGGAAAATGAAAGG
CTGTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGAGAAGAAAACATACTCTGTGCCTGCCCACCAGGAACG
CGCCTATGAGTACGTGGAGTGTCCCATTAGGGGCACCTGCGGCTGAGAATAAGGAGAACCTAGATCCTTCAAATCT
GATGCCACCACCAAATCAAACACCAGCTCCAGATCAGCCATTTGCATTGTCTACTGTCAGAGAAGAGTCATCCAT
TCCGAGAGCAGATTGAGAGAAAAAGTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGG
GTGGAAGTGGGAAGGATGAGGATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGA
GCAGGCTTGGAAGGAGATTTTGAAGTGGGAAGCCCTTCATGCTGCAGAGTGTCTTGTGGTCCATCATTGATCCG
GTTTGGAGGGAAAGCAAAGAGTATTCACCAAGGGCACGAATTCGTTCTGGATGGGGTATGAGTTGCCTTTTGA
TAGGCACGATTGGATCATAAACCGTTGCGGGACAGAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAGT
CAACAAGGACTACCAGTTCACCATCCTGGACGTCCGTCCTGCCTTAGATTCACTTTCGGCAGTATGGGACAGAAT
GAAAGTCGCTTGGTGGCGTTGGACCTCGTAAAGCACTGTTTCAGATGGAAAAATATAAACTATTTTTTTCTGAGC
GATACATTAACTATTTTCCCCAGAAAAAAAAAAAAA

6638/6881
FIGURE 6127

MGLSPSAPAVAVQASNASASPPSGCPMHEGKMKGCPVNTEPSGPTCEKKTYSVPAHQERAYEYVECPIRGTAAEN
KENLDPSNLMPPPNQTPAPDQPFALSTVREESSIPRADSEKKWVYPSEQMFWNAMLKKGWKWKDEDISQKDMYNI
IRIHNQNNQAWKEILKWEALHAAECPCGPSLIRFGGKAKEYSPRARIRSWMGYELPFDRHDWIINRCGTEVRYV
IDYYDGGEVNKDYQFTILDVRPALDSL SAVWDRMKVAWWRWTS

6639/6881
FIGURE 6128

GAGATCTGATGGTTTTATAAAGAGGAGTTCCCCTGCACAAGCTCCCTCTCTTGCCCTGCCACCATGTAAGAAGTCC
CTTTGGTCTTCCTTTGTCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATGTGGAACCTATAAAATAATAAGATG
GCTGATCCTGCAAAGAGGCGCGGTGACATCAACAGTGAAGTCAAGTCTCTATGATGGTATTAGTAACTGGCAGCTGA
CTCTCCTATTTATCATCAAGTTATGTTCCCAAATAAGACTTTCAAGTCTGAGAAAAATGACAAATCCCTTCCAGGC
ATGGTTCAAGTTAAAGCTGAAACTGTGTCCTTCGTTTCAGCTCAAGAGAGGTTTTGATTGTGTCGTGGCTTTTCT
TGTGTATTGGTTGAGGAACTGTGCCTTGGAGGGGCGGGGAGTCTTGAGAAATGGGTCAACTGATGGAGGGGGAGTG
GAAGACATTGGTTGCCCCAAGAAAAATATGTCAACATCTGTCCATCACTGCAACTCCGGCCTGATTATCATTTTTTC
TGCTTCTGTAAGCACCAATGAGACAATGCCACTGAACCACATTCTTTGTTGCCTGCAGTATTTCCCACCACTGCG
CCACCTCTGATATGCTAATGAGGAAGCCCAGGGTTTTGTGTGGCTGAAAAGCCTTTCAGGCACAATCAGTGGGTC
AACAATCTCAACTCTGTACAGCGGCTCAGCCTGCTCTGTGAGAGGCTCCTCTTTCGGAGGGGTCCTTCCTCACAC
CTTTTCTGTGAGTGCCTCTGTGCTTAAGGAAGGGCAATTAACCATCTGGCTGCTTGTCCCCTGGAGAAATTGACA
GAACATCAAACAGAATAAACTCATACCTTGAAAAGTGGCAAGTGGCACATGACTGTCCGGTTCAGTGTGGGA

6640/6881
FIGURE 6129

MFQIRLSSLRKMTNPFQAWFKLKLKLCRFSSREVLIVSWLFLVYWLRNCALEGRGVLRMGQLMEGEWKTIVAQE
NMSTSVHHCNSGLIIIFSASVSTNETMPLNHILCCLQYFPPLRHL

6641/6881
FIGURE 6130

CGGACATCTCCCTGGGAGTCGCGCAGAGTGGAGTCAAAGGCAACCAGTGCTCGCTGCGGTCTCTGGGGATCGGGA
CCGCGGCGGCGGCCCCGCGAGCGGGATGTTCCGGGGCTTGAGCAGTTGGTTGGGCTTGACAGCAGCCGGTGGCAGGC
GGTGGGCAGCCCAATGGAGATGCTCCACCCGAGCAGCCGTCCGAGACGGTGGCTGAGTCTGCGGAGGAGGAGCTG
CAGCAAGCGGGAGACCAGGAGCTCCTCCACCCAGGCCAAAGACTTCGGCAACTATTTATTTAACTTTGCATCTGCT
GCCACAAAAAAGATAACTGAATCAGTTGCTGAAACAGCACAAACAATAAAGAAATCCGTAGAAGAAGGAAAAATA
GATGGCATCATTGACAAGACAATTATAGGAGATTTTCAGAAGGAACAGAAAAAATTTGTTGAAGAGCAACATACA
AAGAAGTCAGAAGCAGCTGTGCCCCCATGGGTTGACACTAACGATGAAGAAACAATTCAACAACAAATTTTGGCC
TTATCAGCTGACAAGAGGAATTTCTTCGTGACCCTCCGGCTGGCGTGCAATTTAATTTGACCTTGATCAGATG
TACCCCGTGGCCCTGGTCATGCTCCAGGAGGATGAGCTGCTAAGCAAGATGAGATTTGCCCTCGTTCCTAAACTT
GTGAAGGAAGAAGTGTTCTGGAGGAACTACTTTTACCGCGTCTCCCTGATTAAGCAGTCAGCCCAGCTCACGGCC
CTGGCTGCCCAACAGCAGGCCCGCAGGGAAGGAGGAGAAGAGCAATGGCAGAGAGCAAGATTTGCCGCTGGCAGAG
GCAGTACGGCCCAAAACGCCACCCGTTGTAATCAAATCTCAGCTTAAACTCAAGAGGATGAGGAAGAAATTTCT
ACTAGCCCAGGTGTTTTCTGAGTTTGTGAGTGATGCCTTCGATGCCTGTAACCTAAATCAGGAAGATCTAAGGAAA
GAAATGGAGCAACTAGTGCTTGACAAAAAGCAAGAGGAGACAGCCGTACTGGAAGAGGATTCTGCAGATTGGGAA
AAAGAAGTGCAGCAGGAACCTCAAGAATATGAAGTGGTGACAGAATCTGAAAAACGAGATGAAAAGTGGGATAAG
GAAATAGAGAAAATGCTTCAAGAGGAAAATTAGCTGTTTCTGAAATAGAAGAATAATCCTTAACAGTCTGCAAAC
TGACATTAAATTCTAGATGTTGACAATTACTGAATCAGAAGGCATGAAAGAGTATAATTTTATGAAATTCAAAT
TATTCTTTTTTCAAGTTGAAACTTGCCTCTTCTACTTTAAAAAAGTATATAGAACAGTTACTTCTAATAATCAGA
AAGAGATGTTTTATAGAACATTTCTTTAATATAAAGTTAGAGATGTCTTCATAGGCAGTATGGCTATCTTTGCCA
CAGAAACATAAGTAAAATTTTAGAGTTCTGTTTTCCATGAGGTCAAAAATATAATTTATTCCTCAGTCATGGTTT
TCTAAATATCTGTACTCCACATTCCATTTTAATTGATATGAGGGTGTTAAAGTACCTACTTAATGGGTTGATTAC
TATCAAAATGACCAAATTATACCAAAGAACTTAAGAGGAAGCACTTTCAGAACTATTCAGTTGCCAGGTATTTTC
TAAAATTCCACCTGAAAGCCAAAAAGATAAAATAAATAAGTTGATTTTAATGATATAAGCATCACACAATTTTACA
TTAAGAAATACTGTGCAGGCCATGCGTGGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCA
GATCACCGGAGGTGAGGAGTTGAGAGCCAGCCTTGCCAACATAGTGAAAACCTGTCTCTACTAAAAATACAAAAA
TTAGCCGGGCATGGTGGCAGGCACCTGTAATCCCAGCTACTAGGGAGGCTTTTGAACCCAGGAGGCAGAGGTTGC
AGCGAGCTGAGATCGCGCCACTGCACTCCAGCCTGGGTGATAGAGTGAGATTCAGTCTC

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FIGURE 6131

ATGGAGAAAAACAAAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAACAGGAATATGTGGTGGAAAAA
GTTCTCTACCGTCGATTGCCCCGCCCCCATATCCCCTCCTTCTGCCAACTTTATCACTTAAGACAGACTGCCTG
GGTCACCCTGTTTATGACAATAGAAGAATAAGGAAAGAACACTCTTCCCCTGCTCAAATCCTCCAATGTACCTGC
CGTACCCACGGGCATGACAGACGGCACTGCTCGTTCCCATGCTCTGCTGCAAAGGTGGGCCTGGCAGCCTTGTGT
GGGCACCATGACCCACCTCACACCTGGCGTCACCTGAGTGGGAGAAAAGGAGAGCCAACCCAAGGAGAAGAAAGAA
GGGTCGGAAAAGCCCCGAGGCTTTGTTTCAGGTTTGGAAGCCGGAACCAGATTATTGGAGCTACAGACCTCCAGTG
GGAGAGCTCATGTTCTGATGAAAGGGAAAAATTTTGATGAGGCTGACCTCGTCCCTGCCAAGGAAGTCAATGTC
AAATGCCCACGGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCAAAGAGGATGATGAC
AAGAATTAA

6643/6881
FIGURE 6132

TGTTTGAAGATACTGTGGAGGAGCGTGTCAATGAAGAATATAAAATCTGGAAGAAGAATACACCGTTTCTAT
ATGACCTGGTT**ATG**ACCCATGCTCTTCAGTGGCCAGTCTTACCGTTCAGTGGCTTCCTGAAGTGACTAAACCTG
AAGGAAAAGATTATGCCCTTCATTGGCTAGTGCTGGGGACTCATACGTCTGATGAGCAGAATCATCTGGTGGTTG
CTCGAGTACATATTCCCAATGATGATGCACAGTTTGATGCTTCCCATTGTGACAGTGACAAGGGTGAATTGGTG
GCTTTGGTTCTGTAACAGGAAAAATTGAATGTGAAATTAAAATCAATCACGAAGGAGAAGTAAACCGTGCTCGTT
ACATGCCGCAGAATCCTCACATCATTGCTACAAAAACACCATCTTCTGATGTGTTGGTTTTTGA CTATACAAAAC
ACCCTGCTAAACCAGACCCAAAGTGGAGAATGTAATCCTGATCTCAGATTAAAGAGGTCAACCAGAAGGAAGGCTATG
GTCTCTCCTGGAATTCAAATTTGAGTGGACATCTCCTAAGTGCATCTGATGACCATACTGTTTGTCTGTGGGATA
TAAACGCAGGACCAAAGAAGGCCAAAATTGTGGATGCTAAAGCCATCTTTACTGGCCACTCAGCTGTTGTAGAGG
ATGTGGCCTGGCACCTGCTGCACGAGTCATTGTTTGGATCTGTTGCTGATGATCAGAACTTATGATATGGGACA
CCAGGTCCAATACCACCTCCAAGCCGAGTCAC TTGGTGGATGCGCACACTGCCGAAGTCAACTGCCTCTCATTCA
ATCCCTACAGCGAATTTATTCTAGCCACCGGTCTGCGGATAAGACCG**TAGC**TTTATGGGATCTGCGTAACTTAAA
ATTAAAACTCCATACCTTCGAATCTCATAAAGATGAAATTTTCCAGGTCCACTGGTCTCCACATAATGAACTAT
TCTGGCTTCAAGTGGTACTGACCGCCGCCTGAATGTGTGGGATTTAAGTAAAATTGGGGAAGAACAATCAGCAGA
AGATGCAGAAGATGGGCCTCCAGAACTCCTGTTTATTCATGGAGGACACACTGCTAAGATTTTCAGATTTTAGCTG
GAACCCCAATGAGCCTTGGGTCATTTGCTCAGTGTCTGAGGATAACATCATGCAGATATGGCAAATGGCTGAAAA
TATTTACAATGATGAAGAGTCAGATGTCACGACATCCGAAGTGGAGGGACAAGGATCTTAAACCCAAAGTACGAG
AAATGTTTCTGTTGAATGTAATGCTACATGAATGCTTGATTTATCAAGCGCCAAAAAGGCATTGTATAGTAGGAA
ATGTAAGTGGGTGGCTTATGGCTTCTTTATCCTCTGATTCTAGCACTTTCAAGTGAGCTGTTGCGTACTGTATC
ATATTGTAGCTATTAGGGAAGAGAAGAATGTTGCTTAAGAAAGAACATCACCATTGATTTTAAATACAAGTAGCA
GGGTATTGCCTTTGATTCAACTGTTTTAAGTCCTCATTTTCTCAAAC TAAGTGCTTGCTGTTCCCAAATATGCAA
GAATAACTTTTACACTTTTTCTTCCAACACTTCTTGATTGGCTTTGCAGAAATAAAGTTTTAAAT

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FIGURE 6133

MTHALQWPSLTVQWLPEVTKPEGKDYALHWLVLGHTSDEQNHLVVARVHIPNDDAQFDASHCDSDKGEFGGFGS
VTGKIECEIKINHEGEVNRARYMPQNPHEIATKTPSSDVLVFDYTKHPAKPDPSGECNPDRLRLRGHQKEGYGLSW
NSNLSGHLLSASDDHTVCLWDINAGPKEGKIVDAKAIFTGHSVAVVEDVAWHLLHESLFGSVADDQKLMIWDTRSN
TTSKPSHLVDAHTAEVNCLSFNPHYSEFILATGLRIRP

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FIGURE 6134

ATCACTGGTCTCGCGTGCGCGTGACCAGGCCCGGTTTCCGGTGCCAGGACCTTTCCGAAGCGTCGAGTGGCCTAA
CGGTCACAGCTGTGCGCCATCGGAGAGGCAGGACTACTGCGAGCAGTTTTACCGCGACCTCCGGAGGCCGCGTG
ACAGGCTCTGTCACTAAAAATAGGAACCGAATATTGTATCTGACGCATCCTGTAATACTGAAGAGCAACTGAAGAC
AGTTGATGATGTCTTATTTCATTGCCAGGTTATATATGATGCTCTGCAAAACCTGGATAAGAAGATTGATGTGAT
TCGTAGAAAAGGTTTTCAAAAATCCAACGTTTCCATGCGAGATCCCTGTGGACAAATCATAAGCGATATGGATATAA
AAAGCATTCTTACC GGCTTGTTAAAAAGCTTAAACTCCAGAAAATGAAGAAAAATGAGGTTTACGAGACATTCTC
CTACCCTGAAAGTTACAGCCCCACTTTACCAGTGTCAAGGCGTGAGAATAATTCCCCGAGCAACCTTCCAAGGCC
ATCCTTTTGCATGGAAGAATACCAGCGAGCTGAGCTGGAGGAGGACCCGATCCTCAGCCGCACTCCGAGTCCAGT
GCATCCCTCAGATTTCTCTGAGCATAATTGTGAGCCGTATTATGCATCTGATGGTGCAACGTATGGTTCTTCTTC
AGGGCTCTGCCTTGGCAACCCCTCGGGCTGACAGCATCCACAACACTTACTCAACTGACCATGCTTCTGCAGCACC
ACCTTCAGTTACAAGGTCACCAGTTGAAAATGACGGTTACATAGAGGAAGGAAGCATCACTAAGCACCCCTTCAAC
CTGGTCGGTGGAAGCAGTGGTCCTATTTCTAAAACAAACAGATCCTCTTGCAATTATGCCCTCTTGTGACCTCTT
CAGAAGCCATGAAATTGACGGGAAGGCTCTGCTCCTACTCACGAGTGACGTGTTGCTGAAGCACTTGGGGGTGAA
GCTGGGAACGGCTGTGAAGCTATGCTACTACATTGACCGACTTAAACAAGGAAAATGCTTTGAAAATTGAAAAA
TCCTTGTCGAAATTTAGATTGGGCCAAGCTTCTAGAGGCACCAATGCCTTCTTAGTGTGGAATCATTTTTCTGCC
TTTAGTCGTTTTTGTGTTTGTAGAAAGTATCTCTCAAAATATATTATAGCTAGAAATTGTAGAACTATGTTATAGTC
CAGTCTACTTCTTTAAAAACCATTAAACTGCTAGATAGTATTAGAATAGTCCAATAGAAAATTCATTCTTTATA
GGTCTTTAAAAATTACTTTTTATTATATTGTTTACAAATATATTTTCATGCAAGAAACAGAAAAAACCCT
TTGATTCTGGTTCATCTCGATACAGAGAACCAAAACAGCTAAGAGAGGTATTATCAGGGTTGACAACCTCTATGA
TTGAATCTATGGGAATTATTCCTCAGAAGAGAATTTAAAGGTGTACCCATATATATCTCTTCTGGAGTATTTTA
TCTGTCTGATGTTGCAGTATTCTACAAGTTTCCAGAAAGAGAATAGCCATATAAATTATTTTCTTCTGCTATT
ATTTCTCTATATGTTTTATTTATTCAGATTTAGAGTAAAAAATAAGCATATAAACTTTTATTATGTGCTCTTAAC
AGTTTTAAGATAAACTATAGGATAGATAGAATGGTTATTTTATGCAAGAAATATTGTACCGCAAGGGTGGTTGG
ATGAAGTCTGACTACTTTTTTTCAAACAACTATTATATTAATACTGTCTATTTTGGCTAAGTTTGGACCTATA
ACTACACTTTTCATTGTTTGCATCTCTCTATGAAGATACGTCTGTCCAACTTTTAAAGGCATAACTGTATTTTA
TGTGTTTATTCTTTATATAGATAGTATTTTATATTTTATTCTCACCCGAAGTATTCACACAATCTTTTTAAAAA
AATTTGAAATGGCATTGTTGATTGCCACAGAGGTAGGATGAGCCATATATTAGTGAAATGTTTTATTTGTAAAA
TATAAATGGATTATTTGCCATCATTAGTACCTCTCAACTTACTTTTTAGAGGACAAGAAACAATCTGTAGATTGG
TTTCCATACAGGGAAGTTCTCCGTCTATGCAATGTTTCTAATTAATTTGCTTAATTCTGAGCCATTAATCCTGC
TACACTTTGAATGATACATTAATTCAGACTAATCTTTGGGGGCTTTATTTTGTAAAGTTAGAAGTTTCAAGGGAAA
CATGTTCAACACTATTATTTTGTATAAATTTATAACTTTGTTATTACATTGIGTAACAAATATAAGGTTTACGA
GCTATGAGAATTGGTGCTATCACCATTAGCTATTTGCTGTAATGTCAAGAAAATGTTTACCAGATGCAAGAATGT
ACCTTTTCTTTTGTAGAAAGCCAAATGTACTTTAGACATGAATGCAACTATTTAAAGAATAGCTTCATCAATGTTA
TTCCTTACATGTCATAAGATTCTTACTTAACTTGGTCTTCTTTCAAATTGTTTGTATGAAGATGCTGTACCCAC
TTGAACAGTCCTCAGGTGTTTACATAAATACTATGTTTACAGTTTTTCATATTTTAAATATTAATAAGTTAAA
TCACAATAGT

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FIGURE 6135

MKKNEVYETFSYPESYSPTLPVSRRENNSPSNLPRPSFCMEEYQRAELEEDPILSRTPSPVHP SDFSEHNCQPY
ASDGATYGSSSGLCLGNPRADSIHNTYSTDHASAAAPPSVTRSPVENDGYIEEGSITKHPSTWSVEAVVLF
LKQTD
PLALCPLVDLFRSHEIDGKALLLLTSDVLLKHLGVKLGTAVKLCYYIDRLKQGKCFEN

6647/6881
FIGURE 6136

ATGAGCGAGTCGATCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGATGGCACTGAGAAGCGGAGC
TGGGGCAGGCCGCGCAAGCAGCCTCTGGTGAGTCCCAGGACAGCGCTGGGAGGGAGTCAGAAGGAGCCCAGTGAA
GTGCCAAAACCTAAGAGACCTCAGGGCCGACCAAATGGAAGGAAAAACAAGGACGCTGCCAAGACCTGGAAAACC
ACCACAACCTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCACAG
GAGTCCTCGGAGGAGGAGCAATGA

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FIGURE 6137

MSESISKSSQPLASKQEKDGTEKRSWGRPRKQPLVSPRTALGGSQKEPSEVPKPKRPQGRENGRKNKDAAKTWKT
TTTPGRKPRGRPKKLEKEEEEESISQESSEEEQ

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FIGURE 6138

ACTGAGGCGTGGCGTCTGCTGGGGCACCTGAAGGAGACTTGGGGGCACCCGCGTCGTGCCTCCTGGGTTGTGAGG
AGTCGCCGCTGCCGCCACTGCCTGTGCTTCATGAAGGAAGATGCTCGCCGCCGTCTCCCGCGTGCTGTCTGGCGCT
TCTCAGAAAGCCGGCAAGCAGAGTGCTGGTAGCATCCCGTAATTTTGCAAATGATGCTACATTTGAAATTAAGAAA
TGTGACCTTCACCGGCTGGAAGAAGGCCCTCCTGTCAACAGTGCTCACCAGGGAGGATGGGCTCAAATACTAC
AGGATGATGCAGACTGTACGCCGAATGGAGTTGAAAGCAGATCAGCTGTATAAACAGAAAATTATTCGTGGTTTC
TGTCACCTTGTGTGATGGTCAGGAAGCTTGCTGTGTGGGCCCTGGAGGCCGGCATCAACCCACAGACCATCTCATC
ACAGCCTACCGGGCTCACGGCTTTACTTTACCCGGGGCCCTTTCCGTCCGAGAAATTCTCGCAGAGCTTACAGGA
CGAAAAGGAGGTTGTGCTAAAGGGAAAGGAGGATCGATGCACATGTATGCCAAGAACTTCTACGGGGGCAATGGC
ATCGTGGGAGCGCAGGTGCCCCCTGGGCGCTGGGATTGCTCTAGCCTGTAAGTATAATGGAAAAGATGAGGTCTGC
CTGACTTTTATATGGCGATGGTGCTGCTAACCAGGGCCAGATATTCGAAGCTTACAACATGGCAGCTTTGTGGAAA
TTACCTTGTATTTTCATCTGTGAGAATAATCGCTATGGAATGGGAACGTCTGTTGAGAGAGCGGCAGCCAGCACT
GATTACTACAAGAGAGGCGATTTTCATTCTGGGCTGAGAGTGATGGAATGGATATCCTGTGCGTCCGAGAGGCA
ACAAGGTTTGCTGCTGCCTATTGTAGATCTGGGAAGGGGCCCATCCTGATGGAGCTGCAGACTTACCGTTACCAC
GGACACAGTATGAGTGACCCTGGAGTCAGTTACCGTACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGAC
CCTATTATGCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGAAGAACTAAAGGAAATTGATGTG
GAAGTGAGGAAGGAGATTGAGGATGCTGCCCAGTTTGCCACGGCCGATCCTGAGCCACCTTTGGAAGAGCTGGGC
TACCACATCTACTCCAGCGACCCACCTTTTGAAGTTTCGTGGTGCCAATCAGTGGATCAAGTTTAAGTCAGTCAGT
TAAGGGGAGGAGAAGGAGAGGTTATACCTTCAGGGGGCTACCAGACAGTGTCTCAACTTGGTTAAGGAGGAAGA
AAACCCAGTCAATGAAATTCATGAAATTCCTTGAAACTTCCATTAAGTGTGTAGATTGAGCAGGTAGTAATTGC
ATGCAGTTTGTACATTAGTGCATTAAAAGATGAATTATTGAGTGCTT

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FIGURE 6139

MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYRMMQTVRRME
LKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLSVREILAEALTGRKGGCAKGG
GSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTLYGDGAANQGQIFEAYNMAALWKLPCIFICENN
RYGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAYCRSGKGFILMELQTYRYHGHMSDPGVS
YRTREEIQEVRKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAAQFATADPEPPLEELGYHIYSSDPPF
EVRGANQWIKFKSVS

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FIGURE 6140

GGGCGCAGCACACTCCCAGCCGGCCGCAGCCTGACACGCCGCGCGGCCCCCAGTCTCCCGCGGCTGCTCCCCCA
GGCATGGCACAGGGCCTCGCCTCACTATGGCAGCAGCACGGCACAGCACGCTCGACTTCATGCTCGGCGCCAAAG
CTGATGGTGAGACCATTCTAAAAGGCCTCCAGTCCATTTTCCAGGAGCAGGGGATGGCGGAGTCGGTGACACCT
GGCAGGACCATGGCTATTTAGCAACCTACACAAACAAGAACGGCAGCTTTGCCAATTTGAGAATTTACCCACATG
GATTGGTGTGCTGGACCTTCAGAGTTATGATGGTGATGCGCAAGGCAAAGAAGAGATCGACAGTATTTTGAACA
AAGTAGAGGAAAGAATGAAAAGAATTGAGTCAGGACAGTACTGGGCGGGTGAAACGATTACCACCCATAGTGCGAG
GAGGAGCCATCGACAGATACTGGCCACCGCCGACGGGCGCCTGGTTGAATATGACATAGATGAAGTGGTATATG
ACGAAGATTCACCTTATCAAAAATATAAAAATTCTACACTCGAAGCAGTTTGGAATATTCTCATCCTTAGTGGGG
ATGTTAATTTGGCAGAGAGTGATTTGGCATATACCCGGGCCATCATGGGCAGTGGCAAAGAAGATTACACTGGCA
AAGATGTACTCATTCTGGGAGGTGGAGACGGAGGCATATTGTGTGAAATAGTCAAACATAAACCAAAGATGGTCA
CTATGGTAGAGATTGACCAAATGGTGATTGATGGGTGTAAGAAATACATGCGAAAAACGTGTGGCGATGTCTTAG
ACAATCTTAAAGGAGACTGCTATCAGGTTCTAATAGAAGACTGTATCCCGGTACTGAAGAGGTACGCCAAAGAAG
GGAGAGAATTTGATTATGTGATTAATGATTTGACAGCTGTTCCAATCTCCACGTCTCCAGAAGAAGATTCCACAT
GGGAGTTTCTCAGACTGATTCTTGACCTCTCAATGAAAGTGTTGAAACAGGATGGGAAATATTTTACACAGGGGA
ACTGTGTCAATCTGACAGAAGCACTGTCGCTCTATGAAGAACAGCTGGGGCGCCTGTATTGTCCTGTGGAATTTT
CAAAGGAGATCGTCTGTGTCCCTTCATACTTGGAATTGTGGGTATTTTACACTGTTTGGAAGAAAGCTAAACCCCT
GAAGATCAGTAGCCCTAATCACATGTGCTGCAAATAGCCTTCCTGACCTCCATATGCTGTACATGACATCAAAA
TGAGTCAGGCAATTGATTGTGAATTCCTTAAAGTTTTCCTTTTTTTAATAATTATTTTAAATTTAAAAAAGCAAA
TGGAATGTATATTTTGATGAGCTTAGGGTGTTTTTTTTTTGAAAGTCAGCTGAAGGATGGTTAGACAGCACAG
CGAAGACTGCTAAATGCACTGACCCCCCATTAGAATGTGATTTTTGTTTCCTTTTTATTTCTCTGTGGGCTTTT
GTTTTTGTGTTTTGTTTTGGTAGATCTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTTGCTGGAGGGAA
GATCTTGATGGTGTTCCTTTCCCCAAAAATTGACTTAGATATTAAATTTGGTGCTTATAAGAGAGAGTTAAAAA
AAAATAGGATTGCTTCAATTAAAATTACAAAAGAGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6141

MAAARHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQS
YDGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGADRYWPTADGRLVEYDIDEVVYDEDSFYQNI
KILHSKQFGNILILSGDVNLAESDLAYTRAIMGSGKEDYTGKDVILILGGDGGILCEIVKLKPKMVTMVEIDQMV
IDGCKKYMRTCGDVLNKGDCYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPPEEDSTWEFLRLILD
LSMKVLKQDGKYFTQGNCVNLTEALSLYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP

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FIGURE 6142

GTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCTCGTAAGCTGTCCGCGGTCTG
TTTGGCCCGAACGGCGGCGGAGGCGCTGATCATGGCGACATTTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGT
GGACCTGGCCAAGCCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGGGAAGAGCAGGCCCAGTACTG
CCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCGGTTCGTCCGCTGGACAAGCACGAGGGCGCGCT
CGAGACGCTCCTGAGATATTATGATCAGATTGTTCTATTGAACCCAAATTCCCATTTTCTGAAAAATCAGATCTG
CTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTTGGAGGCTCTGTAAAACTGGCTCTTGCAAG
CTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAACCT
GGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGCTAGTGGTGCCTTTTTACATATTAAAGA
GACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTTGGGACCCTCAGTCTTAT
TATGCTGGCACAGGCTCAAGAAGTATTTTTTTTAAAAGCCACAAGAGATAAAATGAAAGATGCCATCATAGCTAA
ATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATACAAAGATACTCTCCCAAGGA
GGTGTTCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAGTCTATCCTGGCAAA
ACAGCAGAAGAAATTTGGAGAAGAAATTGCAAGGTTACAGCATGCAGCAGAACTGATTAAACAGTGGCATCTCG
CTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTTGCTGCAGCAAAGAAGGATAA
TGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGCAAAGCCACACTTGTGAAATC
TACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATGGTTCCCGTGTCTAGTACAGCA
GTCTTTGGCTGCCTATAATCAGAGGAAAGCCGATTGGTTAACAGATCAATTGCTCAGATGAGAGAAGCCACCAC
TTTGGCAAATGGGGTGTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCA
GTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAAGAACT
GCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAGGTTGTTGGATGAAGAAGAAGCAACCGA
TAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAACTGTATAAGCCTTTAAGAGC
AGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAAGTGAAAGAATGTTACCAGTC
TCATCGTGACACCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGC
AAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGA
AAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTGGCTCA
AGATGGTGTGATAAATGAAGAAGCTCTTTCTGTTACTGAACTAGATCGAGTCTATGGAGGTCTTACAACCTAAAGT
CCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTACAGGTCTCACATCAGGAATTTTCAAAAATGAA
ACAACTAATAATGAAGCTAACTTAAGAGAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACCTTTGTTGA
ACTTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAGGTTCCAGAACAA
ATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAAGAGATGAACTCTTAAAGGACTTGCAACAAAGCATTGCCAG
AGAACCTAGTGCTCGTACAATTCCTACACCTGCGTATCAGTCTCACCAGCAGGAGGACATGCACCACTCCTCCA
ACTCCAGCGCCAAGAACCATGCCGCCTACTAAGCCCCAGCCCCCAGCCAGGCXTCCACCACCTGTGTTCCAGCA
AATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCGCCAGCTCCATCACAAACGCCT
GGCTCAGCTCCTCCTCCACAGGCGCAGGGACCCCTATTXCCCCCTATCCAGGATATCCTGGGTATTGCCAAAT
GCCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATATCCACCAGTGTATCACCAGAG
TCCTGGACAGGCTCCATACCCGGGACCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCCACAGCAGTCTTACTA
TCCACAGCAGTAATATGTCTGCTCAGCAGCTCAGCTGATTGAGATCAGAGGGAAGAAATACCAACCTGCAATA
AGTGTACTAACTCTACGCTCTGGTTAATGTAATGTACTCTCTGGACTGAATGCAGTGTATAATTTCTGTCTAC
AGCTAGAAGCTGTGCCCCAGTTCACATTTGATTACACATGTGAGATTTGCTGCTGTTGCAGTATAAACACTAGG
TATAATAGGATTTGAAATTGCATTACAGTTCATAAAAATGAAAATGAGAAATTAACCTGCAAGTGAAACATTT
GAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAGATGGTTTAAAGTATGGTACT
AGAGAAAAATTAAGTTTTCTTCTCTTTGGTTTATTGATTTGGTTTAAATTTCCATTATGCTATTTTGCATAATCAA
GGCACTGTAAATCTTATAATTTTAAATAAATTACTTAAGAACAGTTGTCATTGTTATGTTTTGTTATTGATTCT
CATTACTGTCTAATTTTTTTTCTGGTATTAGTCTCATTTTGTATGTATATAAGTTAAACAGATACTGTTTTTAAAG
TGCATGAATAGTACAAGTTATTATCAAGGATGTTTTACAGGGGAAATCAAAGAATATTATCATACTTTATCTTTC
GTATGCTGATTAGTAAACGATTTTTGACATTTATTTTAGAAAAGTCCATAATGTGGAAGAAACAAACAGTTGCTA
CCAAAGATTCTTCAAATAAACATACAAATAAATGTGTATATTTAATGTTTTATTGTTAGCTTCTCCAGAAAATTG
ATGCAAATCTGGTAATAATTCTTGCATTTTTTCCCAATAACCTGGTTAAATAGAAATACGCCAT

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FIGURE 6143

TTTCCTTCCTCTTTTGGCAACATGGCGGGCGGAGAAGCTGGAGTGACTCTAGGGCAGCCGCATCTTTCGCGTCAG
GATCTCACCACCTTGGATGTTACCAAGTTGACGCCACTTTCACACGAAGTTATCAGCAGACAAGCCACAATTAAC
ATAGGTACAATTGGTCATGTAGCTCATGGGAAATCCACAGTCGTCAAAGCTATTTCTGGAGTTCATACTGTCAGG
TTCAAAAATGAACTAGAAAGAAATATTACAATCAAGCTTGGATATGCTAATGCTAAGATTTATAAGCTTGATGAC
CCAAGTTGCCCTCGGCCAGAATGTTATAGATCTTGTGGGAGCAGTACACCTGACGAGTTTCTACGGACATTCCA
GGGACCAAAGGGAACCTTCAAATTAGTCAGACATGTTTCCTTTGTTGACTGTCCTGGCCACGATATTTTGATGGCT
ACTATGCTGAACGGTGCAGCAGTGATGGATGCAGCTCTTCTGTTGATAGCTGGTAATGAATCTTGCCCTCAGCCT
CAGACATCGGAACACCTGGCTGCTATAGAGATCATGAAACTGAAGCATATTTTGATTCTACAAAATAAAATTGAT
TTGGTAAAAAGAAAGTCAGGCTAAAGAACAATACGAGCAGATCCTTGCAATTTGTCCAAGGTACAGTAGCAGAGGGA
GCTCCCATTATTCCAATTTAGCTCAGCTGAAATACAATATTGAAGTTGTTTGTGAGTACATAGTAAAGAAAATT
CCAGTACCCCCAAGAGACTTTACTTTCAGAGCCCCGGCTTATTGTTATTAGATCTTTTGATGTCAACAAACCTGGC
TGTGAAGTTGATGACCTTAAGGGAGGTGTAGCTGGTGGTAGTATCCTAAAAGGAGTATTAAAGGTGGGCCAGGAG
ATAGAAGTAAGACCTGGTATTGTTTCCAAAGATAGTGAAGGAAAACCTCATGTGTAAACCAATCTTTTCCAAAATT
GTATCACTTTTTTGCGGAGCATAATGATCTGCAATATGCTGCTCCAGGCGGTCTTATTGGAGTTGGAACAAAAATT
GACCCCACTTTGTGCCGGGCTGACAGAATGGTGGGGCAAGTACTTGGTGCAGTCGGAGCTTTACCTGAGATATTC
ACAGAATTGGAAATTTCTTATTTCTGCTTAGACGGCTTCTAGGTGTACGCACTGAAGGAGACAAGAAAGCAGCA
AAGGTTCAAAAGCTGTCTAAGAATGAAGTGCTCATGGTGAACATAGGATCCCTGTCAACAGGAGGGAGAGTTAGT
GCTGTCAAGGCCGATTTGGGTAAAATTGTTTTGACCAATCCAGTGTGCACAGAGGTAGGAGAAAAAATTGCCCTT
AGCCGAAGAGTTGAAAAACACTGGCGTTTAATTGGTTGGGGTCAGATAAGAAGAGGAGTGACAATCAAGCCAACA
GTAGATGATGACTGAAGAATACCAGTTAAATAATACATTCCGATGGATTGGAAGTTGGAATTCCTCTTAACAAC
CAAGGGGTTTATTTTCAAAGCAATATTGGGGAATTGATTTTCACAGTTCGTTACCTTAGTAGGTAACGGTAAGGTT
ATTCTCTTTTTTTTTTTTTTTTTTGGTTATGAAAACCTAGGGACTAAAATTAATATAAAAATTGGCATAATGTTGGAT
TGAATCTACATTTTGGCAGAAGTTAAACATTCCACATAATGTCAAAATTATACATCATGCAGTTCTGTTTTTTT
GTTTGTTTAATTTTGTGTTTTGTTTTGAGTCTGGCTCTGTCAACCAGGCTGGAGTGCAGTGGCGTGATCTGCAACC
TCTGCCCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACA
CTTGGCTAATTTTTGTATTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAGG
GTGATCAGCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCAGCCACATCATACA
GTTTGAAATGAAACTTTGCCACAACCAGCCTTTGCTGTAGCACACACATATATCACTGAACCTGTTTGAAATAAA
GTTTTTTTTCTTTTTTCATGATTGCTCTTTGAGTACCTCCAGGCTGAAAGACTGTTGTACCAGTAAAAACTTAAAG
GCACAAATTCTCCTTGAAGACCTTCTCCCTTTTATGTGGCCCCATATTTTATGTTGCTTTATCTTTGAAATTTTG
CATGAAAAGGAAATGAATGGATTGCAATGAAATTGTCCTTTAGAGCATGATTACTTGTTCCTATGGACAAATATT
TTTCTCCCCCTTGCTCTTCTGCGCTGAAACACGGGAAACCAGAGTCAAAAGTTATCTCCCTCTCCCTGTGATGCC
TTGAGATTTTTTTCTGCGTTGTTTAATGCCTGAAATCCAAGTCTTCTCCATGGGAAAATACTGTTATACCAAAAT
AATTCTAGATGAGTAACAAAGATCTTTTTAGGCCTTCATTTTATGTTTTTCTTAACTGTTATATTATGATTGTG
ACATAGATTATACTACTACTAATTTTTGGATGTTTCAAAGGTCAAGAAGTAAAAGATGTTAGAAAGCAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 6144

MAGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVKAISGVHTVRFKNELER
NITIKLGYANAKIYKLDDPSCPRPECYRSCGSSTPDEFPTDIPGTKGNFKLVRHVSFVDCPGHDILMATMLNGAA
VMDAALLLIAGNESCPQPQTSEHLAAIEIMKLKHILILQNKIDLVKESQAKEQYEQILAFVQGTVAEGAPIIPIS
AQLKYNIEVVCEYIVKKIPVPPRDFTSERPLIVIRSFVNKPGCEVDDLKGGVAGGSILKGVVKVQGEIEVRPGI
VSKDSEGKLMCKPIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQVLGAVGALPEIFTELEISY
FLLRRLLGVRTEGDKKAAKVQKLSKNEVLMVNIGSLSTGGRVSAVKADLGKIVLTNPVCTEVGEKIALSRRVEKH
WRLIGWGQIRRGVTIKPTVDDD

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FIGURE 6145

CTCTCTCCGGTCTGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTTCGCTGCACTAAATGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCGA
AACATAGTGGAGGCCGCAGCAATCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 6146

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCAGAGACCTGAAAAGCCCCGCCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAG
TATTTGAAGCCGTGTCCAGCCCCTGCCTGCCGACTTGTGTTCATGCCCTACGTTGGTATAATCACATCAAGTCTT
ACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGCTTTGGGCAAGTATGGTCCTGCCGATGTGGAAGACA
CTACAGGAAGTGGAGCTACAGATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAA
GTGAAGAAGCAAAGAGGCTAAGGGAAGAACGTCTTGACAAATATGAATCAAAGAAAGCCAATGATGAGACAGATA
TGGCGAAATTAGAGGAGCGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCAG
TGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTCGGAACAGATATGCTGGAGG
AGCAGATCACTGCTTTTGAGGACTACGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTAAAATCCATCCT
GGATCATG

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FIGURE 6147

ATCCTGACTTCCGCTTTGGAGGCGAGGACCCGAGCGAGTGTAGGGGGTGCGGCGTCTGGTCAGCCAGGGGTGAAT
TCTCAGGACTGGTCGGCAGTCAAGCCATCATGCCTCGTGGTCAGAAGAGTAAGCTCCGTGCCCGTGAGAAACGCC
GCAAGGCCCCGAGATGAGACCCGGGGTCTCAATGTTCTCAGGTCACTGAAGCAGAGGAAGAAGAGGCCCCCTGCT
GTTCTCTTCTGTTTCTGGGGGTGCTGCTTCAAGCTCTCCTGCTGCTGGCATTCCCCAGAAGCCTCAGAGAGCCC
CAACCACTGCCGCTGCTGCGGCTGCGGGTGTTTCATCCACAAAATCTAAAAAAGGTGCCAAGAGCCACCAAGGTG
AGAAAAATGCAAGTTTCTCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAG
GGTCGTTGGTGCAGTTCTGTTGTACAAGTATAAAATAAAAAAGTCCGTTACAAAGGGAGAAATGCTGAAAATTG
TTGGCAAAGGTTTCAAGGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTTGTCTTTGGCC
TTGAGCTGAATAAAGTCAACCCCAACGGCCACACTTACACCTTCATCGACAAGGTAGACCTCACTGATGAGGAAT
CCCTGCTCAGTTCTGCGGACTTTCCTCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTGATCTTCTTAAATGGCA
ACTCAGCTACTGAGGAAGAGATCTGGGAATTCCTGAATATGTTGGGAGTCTATGATGGAGAGGAGCACTCAGTCT
TTGGGGAACCCCTGGAAGCTCATCACCAAGATCTGGTGCAGGAAAAATATCTGGAGTACAAGCAGGTGCCCAGCA
GTGATCCCCCACGCTTTCATTCTCTGIGGGGTCCGAGAGCCTATGCTGAAACCAGCAAGATGAAAGTCCTGGAGT
TTTTGGCCAAGGTAAATGGTACCACCCCTGTGCCTTCCCAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGA
AAGCCGGAGTCTTGAGCCAGAGTTGTAGCCAGGCCTTGCACTACTGCCATAGCCAATCAATCTCCCAAAGCCAAGT
TTACCTGCTGTTCTCACCCCAATGAGGTCTTAGGCAGATTCTTTACTTTGTAATTCAAAAGGCCTGTTAACCTT
TGTTCTTGTTATGCATGAATAACTTGTTGACTTTTTTTTTTCTCTTTTCAACTAGTGTTTCAACAGGTTTATT
TAGATTCAGAATGTAAATTTACAAATGATATAGATCACCTGTTATTGCTGTTTTTCAGGGACAGTAGAAAGTGT
TTTGTTTTTTTGAGTGAAACAACTTATTAATAAAAAATCCTTAAATCACTTTTGTATCCAGGACAAGAAAATGTGG
CATTAGAGTAGAAATATCTTTGGAAATGTGAAAGACCCCATAGTGAAATATTTGGGATCAGAAGCCAGAGGTGTA
AAAGTGGTCAATTCTTGTTTTACTTCATTTAATCTTTCTTTTCATAAAGATACATACCTGGATTGTGTTATGTTA
TTCAAGAATGTGTGAGAAATTAAACCATAGTTAGTTAA

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FIGURE 6148

MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAEAAAAAPCCSSSVSGGAASSSPAAGIPQKPQRAPTTAAAAAAG
VSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYKIKKSVTKGEMLKIVGKRFREHFP
EILKKASEGLSVVFGLELNKVNPNNGHTYTFIDKVDLTDEESLLSSWDFPRRKLLMPLLGVIFLNGNSATEEEIWE
FLNMLGVYDGEHSVFGEFVKLITKDLVQEKYLEYKQVPSSDPPRFQFLWGPRAYAETSKMKVLEFLAKVNGTTP
CAFPTHYEEALKDEEKAGV

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FIGURE 6149

CTCCTCTAGGCCGCCGGCCGCGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC
CCTGCACTCGCTCCCGGCGGCTCTTCGCGTCACCCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT
ACCTGGGGCTCCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTACTAGACT
CCGATATGGGGTCTCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA
GACCAGGAGGATTTCTGTGATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG
CCCATGAAGACTTCTGTGGACACACTGGTAAAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA
TTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACCTGTGGGTAAATTTGAGGAGCTCAG
AGAAGATGGTGGAGCCTCAGTACCAGGAACTGAAAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG
TTGCTGTCAATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG
GAGATGTGTATATTGGGCCCCGATGATGCACAACAAAAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTG
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAAC
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTAGAAACG
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAACTAGTGGAAAGCGGAAGAGCAGGTCT
TGATGTGTCCTAGAATTTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG
GTGCTTCTAAAGAATTCCACACTAACGTGATAACATGGTTTTTGTAAACAATAAATGTAGGATATTTCTGGCACA
TGCAAATAAACCTAATCATTGTTTCTTTAAAAAAAAAAAAAAAAA

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FIGURE 6150

MGSSKKVTLSVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGRPGGFPDHPHRGFETVSYLLEGGSMHAH
EDFCGHTGKMNPGDLQWMTAGRGILHAEMPCSEEPAGHLQLWVNLRSEKMWEPQYQELKSEEIPKPSKDGVTVVA
VISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWTSFIYTTISGDVYIGPDDAQKIEPHHTAVLGEEDS
VQVENKDPKRSHFVLIAGEPLREPVIQHGPFVMTNEEISQAILDFRNAKNGFERAKTWKSKIGN

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FIGURE 6151

CTCTCTGCTCCTCCTGTTCTACAGTCAGCCGCATCTTCTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACC
ATGGGGAAGGTGAAGGTCGGAGTCAACAGATTTGGTCGTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCT
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTGAACTACATGGTTTACATGTTCCAATATGAC
TCCACCCATAGCAAATTCCATGGCACCGTCAAGGCTGAGAATGGGAAGCTTGTCAATGGAAATCCCATCACC
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGC
GTCTTACCACCATGTAGAAGGCTGGGCCTCATTTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT
GCTGATGCCCCAATGTTTGTCAATGGGTGTGAACCATGAGAAGTATGACAACAACCTCAAGATTGTCGGCAGTGCC
TTCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTCATCCATGACAACCTTTGGTATCGTGGAAGGACTCATG
ACCATAGTCCACGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCCTCCGGGAAACTGTGGCGTGATGGCCAC
GGGGCTCTCCAGAACATCATCCCTGCCCTCTACTGGCACTGCGAAGGCTATGGGCAAGGTCATCCCTGAGCTGAAC
GGGAAGCTCACTGGCATGGCCTTCTGTGTCCCCACTGCCGTGTCAGTGGTGGACCTGACCTGCCGTCTGGAAAAA
CCTGCCAAATATGATGACACCAAGAAGGTGGTGAAGCAGGCATCGGAGGGCCCCCTCAAGGGCATCCTGGGCTAC
ACTGAGCACCAGGTGGTCTCCTCCGACTTCAACAGCAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATT
GCCCTCAACAACCACTTTTTCAAGCTCATTTCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGAC
CTCATGGCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAG
AGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTTTCCA
TGTAAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCCCACCTTGTCATATACCATCAATAAAGTACCCTGTGCT
CAGCC

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FIGURE 6152

CTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACCATGGGGAAGGTGAAGGTCGGAGTCAACAGATTGGTC
GTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCA
TTGACCTGAACTACATGGTTTACATGTTCCAATATGACTCCACCCATAGCAAATTCCATGGCACCGTCAAGGCTG
AGAATGGGAAGCTTGTCATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGG
GCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGCGTCTTACCACCATGTAGAAGGCTGGGCCTCATTTC
AGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCTGCTGATGCCCCAATGTTTGTTCATGGGTGTGAACCATG
AGAAGTATGACAACAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATTGCCCTCAACAACCACTTTTTCA
AGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGACCTCATGGCCCACATGGCCTCCA
AGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAGAGACC

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FIGURE 6153A

CCTCTGCCACCATGGGGAACTGGGCTGTGAATGAGGGGCTCTCCATTTTTGTCAATTCTGGTTTGGCTGGGGTTGA
ACGTCTTCCTCTTTGTCTGGTATTACCGGGTTTATGATATTCCACCTAAGTTCTTTTACACAAGAAAACCTTCTTG
GGTCAGCACTGGCACTGGCCAGGGCCCCCTGCAGCCTGCCTGAATTTCAACTGCATGCTGATTCTCTTGCCAGTCT
GTCGAAATCTGCTGTCTCTTCTCAGGGGTTCCAGTGCGTGCTGCTCAACAAGAGTTCTGAAGACAACTGGACAGGA
ATCTCACCTTTTCATAAAATGGTGGCATGGATGATTGCACTTCACTCTGCGATTACACCAATTGCACATCTATTTA
ATGTGGAATGGTGTGTGAATGCCCAGTCAATAATTCTGATCCTTATTTCAGTAGCACTCTCTGAACTTGGAGACA
GGCAAAATGAAAGTTATCTCAATTTTGGCTCGAAAAGAGAATAAAGAACCCTGAAGGAGGCCTGTACCTGGCTGTGA
CCCTGTTGGCAGGCATCACTGGAGTTGTCACTACCGCTGTGCCTCATATTAATTATCACTTCTCCACCAAAACCA
TCCGGAGGTCTTACTTTGAAGTCTTTTGGTACACACATCATCTCTTTGTGATCTTCTTCATTGGCCTTGCCATCC
ATGGAGCTGAACGAATTGTACGTGGGCAGACCGCAGAGAGTTTGGCTGTGCATAATATAACAGTTTGTGAACAAA
AAATCTCAGAATGGGGAAAAATAAAGGAATGCCCAATCCCTCAGTTTGTCTGGAACCCCTCCTATGACTTGGAAAT
GGATAGTGGGTCCCATGTTTCTGTATCTCTGTGAGAGTTGGTGGGTTTTGGCGATCTCAACAGAAGGTGGTCA
TCACCAAGGTGGTCACTCACCTTTTCAAACCATCGAGCTACAGATGAAGAAGAAGGGGTTCAAATGGAAGTGG
GACAATACATTTTTGTCAAGTGCCCAAAGGTGTCCAAGCTGGAGTGGCACCTTTTACACTGACATCCGCCCTG
AGGAAGACTTCTTTAGTATCCATATCCGCATCGTTGGGGACTGGACAGAGGGGCTGTTCAATGCTTGTGGCTGTG
ATAAGCAGGAGTTTCAAGATGCGTGGAACTACCTAAGATAGCGGTTGATGGGCCCTTTGGCACTGCCAGTGAAG
ATGTGTTCACTATGAGGTGGTGTGTTAGTGGGAGCAGGGATTGGGGTACACCCCTTCGCATCCATTCTCAAGT
CAGTCTGGTACAAATATTGCAATAACGCCACCAATCTGAAGCTCAAAAAGATCTACTTCTACTGGCTGTGCCGGG
ACACACATGCCCTTTGAGTGGTTTGCAGATCTGCTGCAACTGCTGGAGAGCCAGATGCAGGAAAGGAACAATGCCG
GCTTCTCAGCTACAACATCTACCTCACTGGCTGGGATGAGTCTCAGGCCAATCACTTTGCTGTGCACCATGATG
AGGAGAAAAGATGTGATCACAGGCCTGAAACAAAAGACTTTGTATGGACGGCCCAACTGGGATAATGAATTCAGA
CAATTGCAAGTCAACACCCTAATACCAGAATAGGAGTTTTCTCTGTGGACCTGAAGCCTTGGCTGAAACCCCTGA
GTAAACAAAGCATCTCCAATCTGAGTCTGGCCCTCGGGGAGTGCATTTTCAATTTTCAACAAGGAAAACTTCTTAAC
TTGTCTCTTCCATGAGGAAATAAATGTGGGTTGTGCTGCCAAATGCTCAAATAATGCTAATTAATGATAATATAATA
CCCCCTGCTTAAAAATGGACAAAAAGAACTATAATGTAATGGTTTTCCCTTAAAGGAATGTCAAAGATTGTTTG
ATAGTGATAAGTTACATTTATGTGGAGCTCTATGGTTTTGAGAGCACTTTTACAAACATTATTTTCATTTTTTTCC
TCTCAGTAATGTCAGTGAAGTTAGGGAAAAGATTCTTGGACTCAATTTTAGAATCAAAAGGGAAAGGATCAAAA
GGTTCAGTAACCTCCCTAAGATTATGAACTGTGACCAGATCTAGCCCATCTTACTCCAGGTTTGATACTCTTTC
CACAATACTGAGCTGCCTCAGAATCCTCAAAATCAGTTTTTATATTCCCAAAAAGAAGAAGGAAACCAAGGAGTA
GCTATATATTTCTACTTTGTGTCATTTTTGGCATCATTATTATCATACTGAAGGAAATTTTCCAGATCATTAGGA
CATAATACATGTTGAGAGTGTCTCAACACTTATTAGTGACAGTATTGACATCTGAGCATACTCCAGTTTACTAAT
ACAGCAGGGTAACCTGGGCCAGATGTTCTTTCTACAGAAGAATATTGGATTGATTGGAGTTAATGTAATACTCATC
ATTTACCCTGTGCTTGGCAGAGAGCGGATACTCAAGTAAGTTTTGTAAATGAATGAATGAATTTAGAACCACA
CAATGCCAAGATAGAATTAATTTAAAGCCTTAAACAAAATTTATCTAAAGAAATAAATTCTATTACTGTATAGA
CCAAAGGAATCTGATTCTCCCTAGGGTCAAGAACAGGCTAAGGATACTAACCAATAGGATTGCCTGAAGGGTTCT
GCACATTCTTATTTGAAGCATGAAAAAGAGGGTTGGAGGTGGAGAATTAACCTCCTGCCATGACTCTGGCTCAT
CTAGTCCTGCTCCTTGTGCTATAAAATAAATGCAGACTAATTTCTGCCCCAAAGTGGTCTTCTCCAGCTAGCCCT
TATGAATATTGAACCTTAGGAATTGTGACAAATATGTATCTGATATGGTCATTTGTTTTAAATAACACCCACCCCT
TATTTTCCGTAAATACACACAAAATGGATCGCATCTGTGTGACTAATGGTTTATTTGTATTATATCATCATCA
TCATCCTAAAATTAACAACCCAGAAACAAAATCTCTATACAGAGATCAAATTCACACTCAATAGTATGTTCTGA
ATATATGTTCAAGAGAGAGTCTCTAAATCACTGTAGTGTGGCCAAGAGCAGGGTTTTCTTTTTGTTCTTAGAAC
TGCTCCCATTTCTGGGAACTAAAACCAGTTTTATTTGCCCCACCCCTTGGAGCCACAAATGTTTAGAACTCTTCA
ACTTCGGTAATGAGGAAGAAGGAGAAAGAGCTGGGGGAAGGGCAGAAAGACTGGTTTAGGAGGAAAAGGAAATAAG
GAGAAAAGAGAATGGGAGAGTGAGAGAAAATAAAAAAGGCCAAAAGGGAGAGAGAGGGGAAGGGGGTCTCATATTG
GTCATTCCCTGCCCCAGATTTCTTAAAGTTTGATATGTATAGAATATAATTGAAGGAGGTATACACATATTGATG
TTGTTTTGATTATCTATGGTATTGAATCTTTTAAATCTGGTCACAAATTTTGATGCTGAGGGGGATTATTCAAG
GGACTAGGATGAACTAAATAAGAACTCAGTTGTTCTTTGTGCATACTACTATTCTTTTCGTCTCCAGAATCCTCA
GGGCACTGAGGGTAGGTCTGACAAATAAGGCCTGCTGTGCGAATATAGCCTTTCTGAAATGTACCAGGATGGTTT

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FIGURE 6153B

CTGCTTAGAGACACTTAGGTCCAGCCTGTTTCACACTGCACCTCAGGTATCAATTCATCTATTCAACAGATATTTA
TTGTGTTATTACTATGAGTCAGGCTCTGTTTATTGTTTCAATTCTTTACACCAAAGTATGAACTGGAGAGGGTAC
CTCAGTTATAAGGAGTCTGAGAATATTGGCCCTTTCTAACCTATGTGCATAATTAACCAGCTTCATTGTGTC
TCCGAGAGTGTTTCTCCAAGGTTTTCTATCTTCAAAACCAACTAAGTTATGAAAGTAGAGAGATCTGCCCTGTGT
TATCCAGTTATGAGATAAAAAATGAATATAAGAGTGCTTGTCATTATAAAAGTTTCCTTTTTTATTCTCTCAAGC
CACCAGCTGCCAGCCACCAGCAGCCAGCTGCCAGCCTAGCTTTTTTTTTTTTTTTTTTTTTTTAGCACTTAGTAT
TTAGCATTTATTAACAGGTACTCTAAGAATGATGAAGCATTGTTTTTAATCTTAAGACTATGAAGGTTTTTCTTA
GTTCTTCTGCTTTTGCAATTGTGTTTGTGAAATTTGAATACTTGCAGGCTTTGTATGTGAATAATTCTAGCGGGG
GACCTGGGAGATAATTCCTACGGGGAATTCTTAAACTGTGCTCAACTATTAAATGAATGAGCTTTC

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FIGURE 6154

MGNWAVNEGLSIFVILVWLGLNVFLFVWYYRVYDIPPKFFYTRKLLGSALALARAPAAACLNFNCLILLPVCRL
LSFLRGSSACCSTRVRRQLDRNLTFHKMVAWMIALHSAIHTIAHLFNVEWCVNARVNNSDPYSVALSELGDRONE
SYLNFARKRIKNPEGGLYLAVTLLAGITGVVITLCLILIIITSSTKTIRRSYFEVFWYTHHLFVIFFIGLAIHGAE
RIVRGQTAEVLAVHNITVCEQKISEWGKIKECPIPQFAGNPPMTWKWIVGPMFLYLCERLVRFWRSQQKVITKV
VTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKLEWHFPTLTSAPPEEDFFSIHIRIVGDWTEGLEFNACGCDKQE
FQDAWKLPKIAVDGPFGTASEDVFSYEVVMLVGAGIGVTPFASILKSVWYKYCNNATNLKLKKIYFYWLCRDTHA
FEWFADLLQLLESQMQRNAGFLSYNIYLTGWDESQANHFVAVHHDEEKDVITGLKQKTLYGRPNWDNEFKTIAS
QHPNTRIGVFLCGPEALAETLSKQSSISNSESGRGVHFIFNKENF

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FIGURE 6155

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGAGGAGGGTCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCCGCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATATATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGACTTTT
GCTTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGATCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCGTTTGTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGTTCCAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGAGGA
ACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTTATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCCGGGGCTGCACTGCCACCTGGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCATGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ACACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 6156

MPVTKLGRLVKDMKIKSLEEIYLFSLPIKESEIIDFCLGASLKDEVLKIMPVQKQIRAGQRTRFKAFVAIGDYNG
HVGLGVKCSKEVATAIRGAILAKLSIVPVRRGYWRNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAPVP
KKLLMMAGIDDCYTSARGCTATLGNFAKATFDAlSKTYSYLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRT
QAPAVATT

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FIGURE 6157

GAACATCCAGTCATGGATAAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGAC
ATGGCAGCCTGTCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTT
GCTTATAAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAAGGT
GCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGCAATGAT
GTACTGTTTTCTTTTGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAAGTCTTCTCTTTGAAAATG
AAAGGAGATTACTACCATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAGTCACAA
CAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGTCTGGCC
CTTAACCTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTT
GATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTG
AGAGACAACCTTGACATTGTGGACATCAGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAA
CCGGCCTTCCAACCTTTTGTGTGCCTCATTCTAAAATTTACACAGTAGACCATTTGTCATCCATGCTGTCCCACAA
AGTTTTTTTATTTACGATTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATGTTTCCCATGTGGTTTTTCAT
GTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTACCTGTTTTTCATCTTGAGGTGGCCAATATGGG
GATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAGG
GTAAACTGCTTCCCTGTCCAAGCAAAGAAAAGTGCCTACATATTGGTTTGTCTGGTGGGGAATAAAAGGGATC
ATTGGTTCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAAACA
TACCCCATGGATACCACATATTAAACCATGTATATCTGTGGAATACTCAATCTCAATGTGCACACCTTTGACTAC
AACTGCAGAAGTGTTCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCC
ATTATTTGTAAAGTTACCTGCTGTAGCTTTTATTATTTTTGCTACACTCATTTTATTTGTATCTAAATGTTTTA
GGCAACCTAAGAACAAATGTAAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCTACTTTCATCTGTAT
CAAGCACAGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTTTTAGGTTTTTTGCTTTTGTGATTTTTTTT
TTGATACTTGCCTAACATGCATGTGCTGTATAACAATCCAAGCATAATTGTTAAGAACACATGTATTAAATTCAT
GTAAGTGAATAAAAGTTTTATGAATGGACTTTTCAACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTT
GGTCTGAACTTCTCTAAAGGAAATTGTACATTTTTTGAAATTTATTCTTATTCCCTCTTGGCAGCTAATGGG
CTTTTACCAAGTTTAAACACAAAATTTATCATAACAACAAAATACTACTAATATAACTACTGTTTCCATGTCCC
GTGATCCCCCTCTCTTCCCTCCCCACCCTGAAAAAAATGAGTTCCAATTTTTTTTGGGAGAGGGGAGATTGATTAGAA
AAAAATGTAATATGTTCCATTTAAAATTTTGGCGTATGGCATTCTTAACCTAGGAAGCCACAATGTTCTTGGCC
CGTCATGACATTGGGTAGCATTAACATAAGTTTTGTGCTTCCAAATCACTTTTTTGGTTTTTAAGAATTTCTTGA
TACTCTTATAGTCTGCCTTCAATTTTGATCCTTTATTCTATTTGTGAGGTGCACAAGATTACCTTCCTTTTTTTAG
CCTTCTGTCTTGTACCAACCATTTCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGATGACCTTTCTGGCTC
CACTCAGTGTCTAAGGCACCCTGCTTCCTTTGCTTGCATCCCACAGACTATTTCCCTCATCCTATTTACTGCAGC
AAATCTCTCCTTAGTTGATGAGATTGTGTTATCTCCCTTTAAAACCTGCCTATCCTGAATGGTTTGTGATTGT
CTGCCTTTAAAATCCTTCCTCTTTCTTCCCTCTGTTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCT
CACTTTACAAAATATTTCTCAGTACTTTGCAGAAAACACCAACAAAATGCCATTTTAAAAGAGGTATATTTT
TTCTTTTAGAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTGTTGTGCCTAGTACACTGTAA
ATGCTCAATAAATATTGATGATGGGAGGCA

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FIGURE 6158

GATGACATGGCAGCCTGCATGAAGTCTGTAACTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACG
GAAGGTGCTGAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAAGTTGATACGGAGCTAAGAGATATCTGC
AATGATGTACTGTTTCTTTTGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAAGTCTTCTCTTTG
AAAATGAAAGGAGATTACTACCATTACTTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAG
TCACAACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGT
CTGGCCCTTAACCTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAA
TTACTGAGAGACAACCTTGACAATGTGGTTTTTCATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTACCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTTCA

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FIGURE 6159

AGCTGACACAACCAAGACGAGTCTCAGTGTCTAGGGAAGCTTGGGGTTCTGCTCCTTTTACTTCAGGCGAACCTG
AACTTTAATGCAATTTTGAAGCATGCCCTGAATAGATTCAGTCATTATCAAGTCAAACATAAAACGGTGAAAGGT
TGCGACTATTACCAAATAGAAGACAATGAGAAGTCATACCATAACAATGACGACAACCTTCAGTCAGCAGCTGGCC
TTACTCCTCCCACAGAATGCGCTTTATAACCAATCATAGCGACCAACCGCCACAAAACCTTCTCAGCAACACCAAA
TGTTACTACCTGTCCCATGGATGAAAAATTGCTATCTACTGTGTTAACCACATCCTACTCTGTTATTTTCATCGT
GGGACTGGTTGGGAACATAATCGCCCTCTATGTATTTCTGGGTATTCCACGTAAAAGAAAATTCCATTCAAATTTA
TCTACTTAACGTAGCCATTGCAGACCTCCTACTCATCTTCTGCCTCCCTTTCCGAATAATGTATCATATTAACCA
AAACAAGTGGACACTAGGTGTGATTCTGTGCAAGGTTGTGGGAACACTGTTTTATATGAACATGTACATTAGCAT
TATTTTGCTTGGATTTCATCAGTTTGGATCGCTATATAAAAAATTAATCGGTCTATACAGCAACGGAAGGCAATAAC
AACCAAAACAAAGTATTTATGTCTGTTGTATAGTATGGATGCTTGCTCTTGGTGGATTCCCTAACTATGATTATTTT
AACACTTAAGAAAGGAGGGCATAATTCCACAATGTGTTTCCATTACAGAGATAAGCATAACGCAAAAGGAGAAGC
CATTTTTTAACCTTATTCTTGTGGTAATGTTCTGGCTAATTTTCTTACTAATAATCCTTTCATATATTAAGATTGG
GAAGAATCTATTGAGGATTTCTAAAAGGAGGTCAAAATTTCCCTAATTCTGGTAAATATGCCACTACAGCTCGTAA
CTCCTTTTATTGTACTTATCATTTTTTACTATATGTTTTGTTCCCTATCATGCCTTTTCGATTTCATCTACATTTCTTC
ACAGCTAAATGTATCATCTTGCTACTGGAAAGAAATTGTTACAAAACCAATGAGATCATGCTGGTTCTCTCATC
TTTCAATAGTTGCTTAGATCCAGTCATGTATTTCTGATGTCCAGTAACATTTCGCAAAATAATGTGCCAACTTCT
TTTTAGACGATTTCAAGGTGAACCAAGTAGGAGTGAAAGCACTTCAGAATTTAAACCAGGATACTCCCTGCATGA
TACATCTGTGGCAGTGAAAATACAGTCTAGTTCTAAAAGTACTTGAGGTAAACATACTAAAATGAATTATATAAT
GCAGCCTCTTAATTCTTTGAAGAACTAAAAAATTAGGAAACAAGTTCTAGCATTTACAAAACCTCAGATCTCAAAG
CTCTGCTTGTATTTGTGATATTTCAATTTGCTTAACTGTAAACCATTTCAAGGTACTATCTTTTAAATCTGTATGT
AAAATCTTTTCAAATAACATTTTTTAAGCTAATACTCTTAACATAGATTATGAAGTTAAGTGAAATTTATGGCTCT
AACAGCAAAATAATTAAAGTGCCATAGTTTCTCAAGTGACTAAAGTAGTTATTAAAATCAAGCACTTGATACTAA
TTTGAAGTGTGTTTTAAAGTAAATGATTTGGGAAGTACAAATGTGTCAGAAAATATATGTTTCAATTTATCATTTTA
AAATCTTGTATAATTTGCCACTGTATTCATTTATGCCTAAATCTCTATAACAGATGAAAAGATAATTAATAAAAT
CCTAATTAATAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6160

MRSHTITMTTTSVSSWPYSSHRMRFITNHSDQPPQNF SATPNVTTCPMDEKLLSTVLTTSYSVIFIVGLVGNIIA
LYVFLGIHRKRNSIQIYLLNVAIADLLLI FCLPFRIMYHINQNKWTLGVILCKVVGTLYMNMYSIILLGFISL
DRYIKINRSIQQRKAITTKQSIYVCCIVWMLALGGFLTMIILTLKKGHNSTMC FHYRDKHNAKGEAIFNFILVV
MFWLIFLLIILSYIKIGKNLLRISKRRSKFPNSGKYATTARN SFIVLIIFTICFVPYHAFRFIYISSQLNVSSCY
WKEIVHKTNEIMLVLSFNSCLDPVMYFLMSSNIRKIMCQLLFRRFQGEPSRSESTSEFKPGYSLHDTSAVKIQ
SSSKST

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FIGURE 6161

TTTCCGCGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTTCAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCATGCAGCAGGAACCCACTT
AGGCGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGTTTCTGCTGGCAGCTCGTGCTGTTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCGGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGTTAC
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGTCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTG
GCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGGACACCCATGGGAGGTCATGCCTGATCTCTACTTC
TACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTTTCAG
GGTGAATGGACTGCTCCTGCTCCTGAGTTCACTGCCACTCAGCCTGAGGTTGCAGACTTGTCTGAAGGTGTACAG
GTGCCCTCTGTGCCTATTTCAGCAGTTCCCTACTGACGACTGGAGCACTCAGCCTGCCACGGAAAACCTGGTCTGCA
GCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGATAGGCTCTT
AAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 6162

MSGALDVLQMKEEDVLKFHAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKFLLAARAVVAIENPADVS
VISSGNTGQRAVLKFAAATGATPIAGHFTPGTFTNQIQAAFREPRLLVVTDPRADHQPLTESSYVNLPTIALCNT
DSPLRYVDIATTRELTQWV

FIGURE 6163

[illegible]

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FIGURE 6164

MMGLSNLSPGPGPSQAVPLPEGLLRQRYREEKTLERRWERLEFLQRKKAFLRHVRRRHRDHMAPYAVGREARIS
PLGDRSQNRFRCECRYCQSHRPNLGIPGESNRAPHPSWETLVQGLSGLTSLGTDNQPGPLPEAALQPQETEEK
RQREERQQESKIMFQRLLKQWLEEN

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FIGURE 6165

GGCACGAGGGTGGTCGGAGCGCCGACTCCCTTCTCGTCGTCGCCATTTTGAGCTGGTGACTGTGGCCGGCTGGGA
GTAGGCGGCAGTGAGTTTCCCTGGGAGGGCAGCGCGCTTGGCGCTTCTCCCCCTCCCCCGATCTGCCTCCAGTCT
CGGACTTGGTTGTTGCGCGCTCCGGCTCCGGCTGAGCTGGGAGAGTTGGAGGAGGTGGCGGCCGGCAGAGGTGAT
GTCTGGGAGCCCTTCCCTTGACAGCCCGGGCCGAGAAGAGTCCCTGCAGGAAGCATCACCCAGGCTGGCAGATCAT
GGTAGCAGCAGCGGGGTGGCTGGGAAGTGAAACGGAGCCAGCGGCTGAGGAGGGGGCCCCAGCAGCCCCGAAGG
CCCTATCAGGAC**ATGG**AGTATGAAAGACGTGGTGGTCTGGTGACAGGACTGGCCGCTATGGAGCCACTGACCGC
TCGCAGGATGATGGTGGGGAGAACCGCAGCCGAGACCACGACTACCGGGACATGGACTACCGTTTCATATCCTCGC
GAGTATGGCAGCCAGGAGGGCAAGCATGACTATGACGACTCATCTGAGGAGCAGAGTGCGGAGGATTCCCTACGAG
GCCTCCCCGGGCTCCGAGACTCAGCGTAGGCGGCGGCGGGCACAGGCACAGCCCCACCGGCCCGCCAGGCTTC
CCCCGAGACGGCGACTATCGGGACCAGGACTATCGGACCGAGCAAGGGGAGGAGGAGGAGGAGGAGGAGGATGAG
GAGGAGGAGGAGAAGGCCAGTAACATCGTTCATGCTGAGGATGCTGCCACAGGCAGCCACTGAGGATGACATCCGT
GGCCAGCTGCAGTCGCACGGCGTGCAAGCACGGGAGGTTGGGCTGATGCGGAACAAATCTTCAGGTGAGAGCCGG
GGCTTCGCCTTCGTGAGTTTGTGACTTGCAGGACGCTACACGATGGATGGAAGCCAATCAGCACTCCCTCAAC
ATCCTGGGCCAGAAGGTGTGATGCACTACAGTGACCCCAAGCCCAAGATCAATGAGGACTGGCTGTGCAATAAG
TGTGGCGTCCAGAACTTCAAACGCCGAGAGAAGTGCTTCAAATGTGGCGTGCCCAAGTCAGAGGCAGAGCAGAAG
CTGCCCTTCGGCACGAGGCTGGATCAGCAGACACTGCCACTGGGTGGCCGGGAGCTGAGCCAGGGCCTGCTTCCC
CTGCCGCAGCCCTACCAGGCCAGGGAGTCTTGGCTCCCAAGCCCTGTACAGGGCTCGGAGCCAAGCTCAGAG
AACGCCAATGACACCATCATTTTGCACAACCTGAACCCACACAGCACCATGGATTCCATCCTGGGGGCCCTGGCA
CCCTACGCGGTGCTGTCTCTCTCCAACGTGCGCGTCATAAAGGACAAGCAGACCCAACTGAACCGCGGCTTTGCC
TTCATCCAGCTCTCCACCATCGTGGAGGCAGCCAGCTGCTGCAGATCCTGCAGGCCCTGCACCCACCACTCACT
ATCGACGGCAAGACCATCAATGTTGAGTTTGCCAAGGGTTCTAAGAGGGACATGGCCTCCAATGAAGGCAGTCGC
ATCAGTGCTGCCTCTGTGGCCAGCACTGCCATTGCTGCGGCCAGTGGGCCATCTCACAGGCCTCCCAAGGTGGG
GAGGGTACCTGGGCCACCTCCGAGGAGCCCGGTGACTACAGCTACTACCAACAGGATGAGGGCTATGGCAAC
AGCCAGGGCACAGAGTCTTCCCTCTATGCCCATGGCTACCTCAAGGGCACCAAGGGCCCTGGCATCACTGGAACC
AAAGGGGATCCCACTGGAGCAGGTCCCAGGGCTCCCTAGAGCCTGGGGCCGACTCTGTGTGATGCAGGCTTTC
TCTCGCGCCCAGCCTGGTGCTGCTCCTGGCATCTACCAACAATCAGCCGAGGCGAGCAGTAGCCAGGGCACTGCT
GCCAACAGCCAGTCGTATACCATCATGTACCCCGCTGTGCTCAAATCTGAGCTCCAGAGCCCTACCCATCCTAGT
TCTGCTCTCCACCGGCTACCAGCCCCACTGCCAGGAATCCTACAGCCAGTACCCTGTTCCCGACGTCTCTACC
TACCAGTACGATGAGACCTCCGGCTACTACTATGACCCCCAGACCGGCCTCTACTATGACCCCAACTCCCAGTAT
TACTACAATGCTCAGAGCCAGCAGTACCTGTACTGGGATGGGGAGAGGCGGACCTATGTTCCCGCCCTGGAGCAG
TCGGCCGACGGACATAAGGAGACAGGGGCACCCCTCGAAGGAGGGGCAAGAGAAGAAGGAGAAGCACAAAGACCAAG
ACAGCTCAACAGATTGCCAAGGACATGGAACGCTGGGCCCGCAGTCTCAACAAACAAAAAGAAAACCTTCAAAAAT
AGCTTCCAGCCTATCAGCTCCCTGCGAGATGACGAGAGGCGGGAGTCAGCCACTGCAGATGCTGGCTATGCCATC
CTCGAGAAGAAGGGAGCACTAGCCGAGAGACAGCACACCAGCATGGATCTCCCGAAATTGGCCAGTGACGACCGC
CCAAGCCCTCCGCGAGGACTGGTGGCAGCCTACAGCGGGGAGAGTGACAGTGAGGAGGAGCAGGAGCGTGGGGGC
CCTGAGCGGGAGGAGAAGCTCACCGACTGGCAGAAGCTGGCCTGTCTGCTCTGCCGACGCCAGTTCCCCAGCAAA
GAGGCGCTCATCCGGCACACGACAGCTCTCAGGGCTCCACAAGCAAAACCTTGAGATTACCGGGCAGCCCCACTTG
TCAGAAAACGAGCTAGAAGCACTAGAGAAGAATGACATGGAGCAAATGAAGTACCGGGACCGTGCAGCTGAACGC
AGAGAAAAGTATGGCATCCCCGAGCCGCCAGAGCCCAAGAGGAGGAAGTACGGCGGCATATCCACAGCCTCTGTA
GACTTCGAGCAGCCTACTCGGGACGGGCTGGGCAGTGACAACATTGGCAGTCGGATGCTGCAGGCCATGGGCTGG
AAAGAGGGCAGCGGCCTGGGCCGCAAGAAGCAGGGCATTGTAACGCCTATCGAGGCCCAACACGGGTGCGGGGC
TCCGGCCTGGGTGCACGGGGCAGCTCCTACGGGGTCACCTCAACCGAGTCCTACAAGGAGACACTGCACAAGACA
ATGGTGACCCGCTTCAACGAGGCCAG**TGAG**CAGCTTCAAGAGCAACTTCTCCACATGTTGGGTGTCCATCCTGG
GGCAGGGAAAGGACAGAGTGTGGATGGCTGGGACGGGGCCTTGCTCTTGTCGGCCAGCCCACTCCCCAGCCAGAG
AGGGCTTGACCAAATCAAATTGAGGTGGTGACTTTTGTGGAAAATTGGGCTGGGATCACGTCTGTTTTGTAAAT
AAAAGCTGAAAAGTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6166

MEYERRGGRGDRTGRYGATDRSQDDGGENRSRDHDYRDMDYRSYPREYGSQEGKHDYDDSSSEEQSAEDSYEASPG
SETQRRRRRRHRHSPTGPPGFPRDGDYRDQDYRTEQGEEEEEEEEEEEEKASNIVMLRMLPQAATEDDIRGQLQ
SHGVQAREVRLMRNKSSGQSRGFAFVEFSLQDATRWMEANQHSLNILGQKVMHYSDPKPKINEDWLCNKCGVQ
NFKRREKCFKCGVPKSEAEQKLPLGTRLDQQTLPLGGRELSQGLLPLPQPYQAQGVLASQALSQGSSEPSSSENAND
TIILRNLNPHSTMDSILGALAPYAVLSSSNVRVIKDKQTQLNRGFATLSTIVEAAQLLQILQALHPPLTIDGK
TINVEFAKGSKRDMASNEGSRISAASVASTAIAAAQWAI SQASQGGEGTWATSEEPVDYSYYQQDEGYGNSQGT
ESSLYAHGYLKGTKGPGITGTKGDPTGAGPEASLEPGADSVSMQAFSRAQPGAAPGIYQQSAEASSSQGTAANSQ
SYTIMSPAVLKSELQSPTHPSSALPPATSPTAQESYSQYPVPDVSTYQYDETSGYYYDPQTGLYYDPNSQYYNA
QSQQYLYWDGERRTYVPALQESADGHKETGAPSKEGKEKKEKHKTAKTAQQIAKDMERWARSLNKQKENFKNSFQP
ISSLRDDERRESATADAGYAILEKKGALAERQHTSMDLPKLASDDRPSPPRGLVAAYSSESSEEEQERGGPERE
EKLTDWQKLACLLCRRQFPSKEALIRHQQLSGLHKQNL EIHRAHLSENELEALEKNDMEQMKYRDRAAERREKY
GIPEPPEPKRRKYGGISTASVD FEQPTRDGLGSDNIGSRMLQAMGWKEGSGLGRKKQGIVTPIEAQTRVRGSGLG
ARGSSYGVSTSTESYKETLHKTMVTRFNEAQ

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FIGURE 6167

TGGCGGCGGCGCGACCCGGGGAACCGGCATTG**ATGT**CCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGGC
CTGATCCAAAGCCGGGTTCTAACTGCTCCCTGCCAGTCCGTGTTGTCCGAAGTGCCCTCGGTGCCAACCAACG
GAATGGCCAAGAACGGCAGTGAAGCAGACATAGACGAGGGCCTTTACTCCCGGCAGCTGTATGTGTTGGGCCATG
AGGCAATGAAGCGGCTCCAGACATCCAGTGTCTGGTATCAGGCCTGCGGGGCGCTGGGCGTGAGATCGCTAAGA
ACATCATCCTTGGTGGGGTCAAGGCTGTTACCCTACATGACCAGGGCACTGCCCAGTGGGCTGATCTTTCTCTCC
AGTTCTACCTGCGGGAGGAGGACATCGGTAAAAACCGGGCCGAGGTATCACAGCCCCGCTCGCTGAGCTCAACA
GCTATGTGCCTGTCACTGCCTACACTGGACCCCTCGTTGAGGACTTCCTTAGTGGTTTTCCAGGTGGTGGTGCTCA
CCAACACCCCCCTGGAGGACCAGCTGCGAGTGGGTGAGTTCTGTGCACAACCGTGGCATCAAGCTGGTGGTGGCAG
GCACGCGGGGCTGTTTGGGCAGCTCTTCTGTGACTTTGGAGAGGAAATGATCCTCACAGATTCCAATGGGGAGC
AGCCACTCAGTGCTATGGTTTTCTATGGTTACCAAGGACAACCCCGGTGTGGTTACCTGCCTGGATGAGGCCCGAC
ACGGGTTTGAGAGCGGGGACTTTGTCTCCTTTTCAGAAGTACAGGGCATGGTTGAACTCAACGAAATCAGCCCA
TGGAGATCAAAGTCCTGGGTCCTTATACCTTTAGCATCTGTGACACCTCCAACCTTCTCCGACTACATCCGTGGAG
GCATCGTCAGTCAGGTCAAAGTACCTAAGAAGATTAGCTTTAAATCCTTGGTGGCCTCACTGGCAGAACCTGACT
TTGTGGTGACGGACTTCGCCAAGTTTTCTCGCCCTGCCAGCTGCACATTGGCTTCCAGGCCCTGCACCAGTTCT
GTGCTCAGCATGGCCGGCCACCTCGGCCCCGCAATGAGGAGGATGCAGCAGAACTGGTAGCCTTAGCACAGGCTG
TGAATGCTCGAGCCCTGCCAGCAGTGCAGCAAAATAACCTGGACGAGGACCTCATCCGGAAGCTGGCATATGTGG
CTGCTGGGGATCTGGCACCCATAAACGCCTTCATTGGGGGCTGGCTGCCAGGAAGTCATGAAGGCCCTGCTCCG
GGAAGTTCATGCCCATCATGCAGTGGCTATACTTTGATGCCCTTGAGTGTCTCCCTCAGGACAAAGAGGTCTCTCA
CAGAGGACAAGTGCCTCCAGCGCCAGAACCGTTATGACGGGCAAGTGGCTGTGTTTGGCTCAGACCTGCAAGAGA
AGCTGGGCAAGCAGAAGTATTTCTGGTGGGTGCGGGGGCCATTGGCTGTGAGCTGCTCAAGAACTTTGCCATGA
TTGGGCTGGGCTGCGGGGAGGGTGGAGAAATCATCGTTACAGACATGGACACCATTGAGAAGTCAAATCTGAATC
GACAGTTTCTTTTCCGGCCCTGGGATGTACGAAGTTAAAGTCTGACACGGCTGCTGCAGCTGTGCGCCAAATGA
ATCCACATATCCGGGTGACAAGCCACCAGAACCGTGTGGGTCTGACACGGAGCGCATCTATGATGACGATTTTT
TCCAAAACCTAGATGGCGTGGCCAATGCCCTGGACAACGTGGATGCCCGCATGTACATGGACCGCCGCTGTGTCT
ACTACCGGAAGCCACTGCTGGAGTCAGGCACACTGGGCACCAAAGGCAATGTGCAGGTGGTGATCCCCCTTCCTGA
CAGAGTCGTACAGTTCCAGCCAGGACCCACCTGAGAAGTCCATCCCCATCTGTACCCTGAAGAACTTCCCTAATG
CCATCGAGCACACCCTGCAGTGGGCTCGGGATGAGTTTGAAGGCCTCTTCAAGCAGCCAGCAGAAAAATGTCAACC
AGTACCTCACAGACCCCAAGTTTTGTGGAGCGAACACTGCGGCTGGCAGGCACTCAGCCCTTGGAGGTGCTGGAGG
CTGTGCAGCGCAGCCTGGTGTGCAGCGACCACAGACCTGGGCTGACTGCGTGACCTGGGCTGCCACCACTGGC
ACACCCAGTACTCGAACAACATCCGGCAGCTGCTGCACAACCTTCCCTCCTGACCAGCTCACAAAGCTCAGGAGCGC
CGTTCTGGTCTGGGCCCCAAACGCTGTCCACACCCGCTCACCTTTGATGTCAACAATCCCTGCATCTGGACTATG
TGATGGCTGCTGCCAACCTGTTTGGCCAGACCTACGGGCTGACAGGCTCTCAGGACCGAGCTGCTGTGGCCACAT
TCCTGCAGTCTGTGCAGGTCCCCGAATTCACCCCCAAGTCTGGCGTCAAGATCCATGTTTCTGACCAGGAGCTGC
AGAGCGCCAATGCCTCTGTTGATGACAGTCGTCTAGAGGAGCTCAAAGCCACTCTGCCCAGCCCAGACAAGCTCC
CTGGATTCAAGATGTACCCATTGACTTTGAGAAGGATGATGACAGCAACTTTTCATATGGATTTCATCGTGGCTG
CATCCAACCTCCGGGCAGAAACTATGACATTCCTTCTGCAGACCGGCACAAGAGCAAGCTGATTGCAGGGAAGA
TCATCCCAGCCATTGCCACGACCACAGCAGCCGTGGTTGGCCTTGTGTGTCTGGAGCTGTACAAGGTTGTGCAGG
GGCACCGACAGCTTGACTCCTACAAGAATGGTTTCCTCAACTTGGCCCTGCCTTTCTTTGGTTTTCTCTGAACCC
TTGCCGCACACGTCACCAGTACTATAACCAAGAGTGGACATTGTGGGATCGCTTTGAGGTACAAGGGCTGCAGC
CTAATGGTGAGGAGATGACCCTCAAACAGTTCCTCGACTATTTTAAGACAGAGCACAAATTAGAGATCACCATGC
TGTCCCAGGGCGTGTCCATGCTCTATTCTTCTTCATGCCAGCTGCCAAGCTCAAGGAACGGTTGGATCAGCCGA
TGACAGAGATTGTGAGCCGTGTGTGCAAGCGAAAGCTGGGCCGCCACGTGCGGGCGCTGGTGTCTGAGCTGTGCT
GTAACGACGAGAGCGGCGAGGATGTGAGGTTCCCTATGTCCGATACCATCCGCT**TG**ACCCCGTCTGCTCCTCT
AGGCTGGCCCCCTTGTCACCCCTCTCCACACCCCTTCCAGCCCAGGGTCCCATTGGCTTCTGGCAGTGGCCCCA
ACTAGCCAAGTCTGGTGTTCCTCATATCCCCCTACCTGAACCCCTCTTGCCACTGCCTTCTACCTTGTTTTGAA
ACCTGAATCCTAATAAAGAATTAATAACTCCCAAAAAAAAAAAAAA

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FIGURE 6168

MSSSPLSKRRVSGPDPKPGSNCSFAQSVLSEVP SVPTNGMAKNGSEAD IDEGLYSRQLYVLGHEAMKRLQTSSV
LVSGLRGLGVEIAKNIILGGVKAVTLHDQGTAWADLSSQFYLRREEDIGKNRAEVSQPRLAELNSYVPVTAYTGP
LVEDFLSGFQVVVL TNTPLEDQLRVGEFCHNRGIKLVVAGTRGLFGQLFCDFGEEMILTDSNGEQPLSAMVSMVT
KDNPGVVTCLDEARHGFESGDFVSFSEVQGMVELNGNQPM EIKVLGPYTFSICDTSNFSYIRGGIVSQVKVPKK
ISFKSLVASLAEPDFVVTDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPRNEEDAAELVALAQAVNARALPAVQQ
NNLDEDLIRKLAYVAAGDLAP INAFIGGLAAQEV MKACSGKFMPIMQWLYFDALECLPQDKEVLTEDKCLQRQNR
YDGQVAVFGSDLQEKLGKQKYFLVGAGAIGCELLKNFAMIGLGC GEGGEIIVTDMDTIEKSNLNRQFLFRPWDVT
KLKSDTAAAAVRQMNPHIRVTSHQNRVGP DTERIYDDDDFFQNL DGVANALDNVDARMYMDRRCVYYRKPLLES GT
LGTKGNVQVVIPFLTESYSSSQDPPEKSIP ICTLKNFNPNAIEHTLQWARDEFEG LFKQPAENVNQYLTD PKFVER
TLRLAGTQPLEVLEAVQRSVLVLRPQTWADCVTWACHHWH TQYSNNIRQLLHNFPDQLTSSGAPFWSGPKRCPH
PLTFDVNNPLHLDYVMAAANLFAQTYGLTGSQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSR
LEELKATLPSPDKLP GFKMYPIDFEKDDDSNFHMDFIVAASNLR AENYDIPSADRHKSKLIAGKIIPAIA TTTAA
VVGLVCLELYKVVQGHRQLDSYKNGFLNLALPFFGFSEPLA APRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQF
LDYFKTEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRLVLELCCNDESGEDVEV
PYVRYTIR

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FIGURE 6169

CAGCTGCTGCTGCGGCGGCTGTGGCGGCGGCAGCGGCGGTGACTGAGGATAGAGAGCCACAGCACGAGGAGCTGC
CAGGCCTGGACAGCCAGTGGCGCCAGATAGAAAACGGCGAGAGTGGGCGAGAACGTCCACTGCGGGCCGGCGAAA
GCTGGTTCCCTTGTGGAGAAGCACTGGTATAAGCAGTGGGAGGCATACGTGCAGGGAGGGGACCAGGACTCCAGCA
CCTTCCCTGGCTGCATCAACAATGCCACACTCTTTCAAGATGAGATAAACTGGCGCCTCAAGGAGGGACTGGTGG
AAGGCGAGGATTATGTGCTGCTCCCAGCAGCTGCTTGGCATTACCTGGTCAGCTGGTATGGTCTAGAGCATGGCC
AGCCACCCATTGAACGCAAGGTCATAGAGCTGCCAACATCCAGAAGGTCGAAGTGTACCCAGTAGAACTGCTGC
TTGTCCGGCACAAATGATTTGGGCAAATCTCACACTGTTTCAGTTTCAGCCATACCGATTCTATTGGCCTAGTATTGC
GCACAGCTCGGGAGCGGTTTCTGGTGGAGCCCCAGGAAGACACTCGGCTTTGGGCCAAGAACTCAGAAGGCTCTT
TGGATAGGTTGTATGACACACACATCACGGTTCTCGATGCGGCCCTTGAGACTGGGCAGTTGATCATCATGGAGA
CCCGCAAGAAAGATGGCACTTGGCCCAGCGCACAGCTGCATGTTCATGAACAACAACATGTCGGAAGAGGATGAGG
ACTTCAAGGGTCAGCCAGGCATCTGTGGCCTCACCAATCTGGGCAACACGTGCTTCATGAACCTCGGCCCTGCAGT
GCCTCAGCAATGTGCCACAGCTCACCGAGTACTTCTCAACAACCTGCTACCTGGAGGAGCTCAACTTCCGCAACC
CACTGGGCATGAAGGGTGAGATCGCAGAGGCCTATGCAGACCTGGTGAAGCAGGCGTGGTCTGGCCACCACCGCT
CCATTGTGCCACATGTGTTCAAGAACAAGGTTGGCCATTTTGCATCCCAATTTCTGGGCTACCAGCAGCATGACT
CTCAGGAGCTGCTGTCTATTCTCTCTGGACGGGCTGCATGAGGACCTTAATCGGGTGAAGAAGAAGGAGTATGTGG
AGCTGTGCGATGCTGCTGGGCGACCGGATCAGGAGGTGGCACAGGAGGCATGGCAAAACCACAAACGGCGGAACG
ATTCTGTGATCGTGGACACTTTCCACGGCCTCTTCAAGTCCACGCTGGTGTGCCCCGATTGTGGCAATGTATCTG
TGACCTTCGACCCCTTCTGCTACCTCAGTGTTCCACTGCCTATCAGCCACAAGAGGGTCTTGGAGGTCTTCTTTA
TCCCCATGGATCCGCGCCGCAAGCCAGAGCAGCACCGGCTCGTGGTCCCCAAGAAAGGCAAGATCTCGGATCTAT
GTGTGGCTCTGTCCAAACACACGGGCATCTCGCCAGAGAGGATGATGGTGGCTGATGTCTTCAGTCACCGCTTCT
ATAAGCTCTATCAGCTAGAGGAGCCTCTGAGCAGCATCTTGGACCGTGATGATATCTTCGTCTATGAGGTGTCAG
GTCGCATTGAGGCCATTGAGGGCTCAAGAGAGGACATCGTGGTTCCTGTCTACCTGCGGGAGCGCACCCCTGCCC
GTGACTACAACAACCTCTACTACGGCCTGATGCTTTTTTGGACACCCCTCCTGGTATCAGTGCCCCGGGACCGCT
TCACCTGGGAGGGCCTGTATAACGTCTGATGTACCGGCTCTCACGCTACGTGACCAAACCCAACTCAGATGATG
AGGACGATGGGGATGAGAAAGAAGATGACGAGGAGGATAAAGATGACGTCCCTGGGCCCTCAACTGGGGGCAGCC
TCCGAGACCCCTGAGCCAGAGCAGGCTGGGCCCAGCTCTGGAGTCACGAACAGGTGCCCGTTCTCTCTGGACAATT
GCCTTGGCACATCTCAGTGGCCCCCAAGGCGACGACGCAAGCAGCTGTTTACCCTGCAGACGGTGAACCTCCAATG
GGACCAGCGACCGCACAACTCCCCCTGAAGAAGTCCATGCCAGCCGTACATTGCTATCGACTGGGAGCCAGAGA
TGAAGAAGCGTTACTATGACGAGGTAGAGGCTGAGGGCTACGTGAAGCATGACTGCGTTCGGGTACGTGATGAAGA
AGGCTCCCGTGCGGCTGCAGGAGTGCATTGAGCTCTTACCAGTGTGGAGACCCCTGGAGAAGGAAAACCCCTGGT
ACTGCCCTTCTTGCAAGCAGCACCAGCTGGCAACCAAGAAGCTGGACCTGTGGATGCTGCCGGAGATTCTCATCA
TCCACCTGAAACGCTTTTCTACACCAAGTTCTCCCGAGAGAAGCTGGACACCCCTCGTGGAGTTTCTATCCGGG
ACCTGGACTTCTCTGAGTTTGTTCATCCAGCCACAGAATGAGTCGAATCCGGAGCTGTACAAATATGACCTCATCG
CGGTTTCCAACCATTATGGGGCATGCGTGATGGACACTACACAACATTTGCCTGCAACAAGGACAGCGGCCAGT
GGCACTACTTTGATGACAACAGCGTCTCCCTGTCAATGAGAATCAGATCGAGTCCAAGGCAGCCTATGTCCTCT
TCTACCAACGCCAGGACGTGGCGCGACGCCTGCTGTCCCCGGCCGGCTCATCTGGCGCCCCAGCCTCCCCTGCCT
GCAGCTCCCCACCCAGCTCTGAGTTCATGGATGTTAATTGAGAGCCCTGGGTCTGCCACAGAAAAA
AAAGCCCTCTCTGCAATCTCGCTTCTCGTGTCCGCCCCGCTTCTCTTATTCGTGTTAGGTGCCCCCGCCAGGCAT
TGCAGGCTTAGTTCGTGGCTACTGTTCTCTGTGCGCTGCATCGCTCTCTCCCGGGAAGAACAGGTCGTGTCTC
CTCCTAGCAGTGCAGCCCCCGCTGTGTTTGGCCTTCCAGCAGTGACCCCTCCCTCTAGTCTTTATTTATGGTCTG
TGCCCTTCCCTCTCTCAGCCCCAGAGTGTCTGCGTGGGTGGTGTATGGGGTTACCTGAACACAGAGTGTATTT
TCTTATTGAGGCCCTGTACCTTCTGCTGTGTGTGTATATATAAAGCACCAGTCTGCTCCCC

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FIGURE 6170

TGACCCAATAAGGGTGGAAAGGCTGAGTCCCGCAGAGCCAATAACGAGAGTCCGAGAGGCGACGGAGGCGGACTCT
GTGAGGAAACAAGAAGAGAGGCCCAAGATGGAGACGGCGGCGGCTGTAGCGGCGTGACAGTGAAGCTGAGACCTT
GGCACTCAAGAGTGAGACAAGCAACAGGAGGGCCTGAGCAGAGAAGGAAGTGAAGGACTTCAGATGTGAGCAGG
ATCTCTTGGACTGTCTGTGAAAATTAGGCTGCAGGGGGCGACAGGAGCCTGGACTTTGAATTTTATTTTGTCCC
CTGCCACTTTGCTTCTAGACTATCATTATTGGACCTCTGAATTCTTGTCTGCCTTCTTGTAGGAGCCCCATGGCA
CCTGCCCAGCCCCACCTCAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCCTGCCAA
TGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGT
CCGGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGT
GGTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCCCTGGATGGCGAGGA
GCTCATTGTGAGGTCCTTGAAGATGTCCCGCTGACCATGCACAATTTTGTACGGAAGACCTTCTTCAGCCTGGC
GTTCTGTGACTTCTGCCTTAAGTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCA
TTGTTTCTCCAAAGTCCCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTTCTACCACAG
TGTCCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCC
CCAGGGTCCCAGCCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCTGCCCCAGCCAATGCCCCCT
ACAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACCTCAT
CCAGCTCACTGGCCAGAGTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCCCCCGGGGAG
CCCCAGCCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCCACATTCCAAGTCACCAGCAGAGCAGCGGAGCGGAA
GTCCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCTATTACTGGGAGGTACCACC
CAGTGAGGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGTGTTTCGAGGGCGGTGGCATGGCGA
TGTGGCCGTGAAGGTGCTCAAGGTGTCCCAGCCCACAGCTGAGCAGGCCAGGCTTTCAAGAATGAGATGCAGGT
GCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTTGCCATCATCAC
ACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCAT
CGACGTGGCCCCGGCAGACTGCCCAGGGCATGGACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTC
TAACAACATCTTCTACATGAGGGGCTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATG
GAGCGGGGGCCAGCCCTTGGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGA
CCCGAACCCCTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTTGTGCTCTACGAGCTTATGACTGGCTCACT
GCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTTATGGTGGGCCGTGGCTATCTGTCCCCGGACCTCAG
CAAAATCTCCAGCAACTGCCCCAAGGCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTTCCAGCGGGAGGAGCG
GCCCCCTCTTCCCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCTC
GGAACCCTCTTGCACCGCACCCAGGCCGATGAGTTGCCTGCCTGCCTACTCAGCGCAGCCCGCCTTGTGCCTTA
GGCCCCGCCCAAGCCACCAGGGAGCCAATCTCAGCCCTCCACGCCAAGGAGCCTTGCCCACCAGCCAATCAATGT
TCGTCTCTGCCCTGATGCTGCCTCAGGATCCCCATTCCCCACCCTGGGAGATGAGGGGGTCCCCATGTGCTTTT
CCAGTTCTTCTGGAATTGGGGGACCCCCGCCAAAGACTGAGCCCCCTGTCTCCTCCATCATTGTTTCTCTTG
GCTTTGGGGATACTTCTAAATTTTGGGAGCTCCTCCATCTCCAATGGCTGGGATTTGTGGCAGGGATTCCACTCA
GAACCTCTCTGGAATTTGTGCCTGATGTGCCTTCCACTGGATTTTGGGGTCCCAGCACCCCATGTGGATTTTG
GGGTCCCTTTTGTGTCTCCCCGCCATTCAAGGACTCCTCTCTTTCTTACCAAGAAGCACAGAATTCGTCTGG

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FIGURE 6171

MEPPRGPPANGAEPsRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLDKALKVRGLNQDCCVVYRLIKGRKTVTAWD
TAIAPLDGEELIVEVLEDVPLTMHNFVRKTFFSLAFCDFCLKFLFHGFCQTCGYKFHQHCSSKVPTVCVDMSTN
RQQPSRFYHSVQDLGGSRQHEAPSNRPLNELLTPQGSPRTQHCDPEHFPPAPANAPLQRIIRSTSTPNVHMVS
TTAPMDSNLIQLTGQSFSTDAAGSRGSDGTPRGSPSPASVSSGRKSPHSKSPAEQRERKSLADDDKKVKNLGYR
DSGYYWEVPPSEVQLLKRIGHTGSFGTVFRGRWHGDVAVKVLKVSQPTAEQAQAFKNEMQVLRKTRHVNIILFMGF
MTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGMDYLHAKNI IHRDLKSNNIFLHEGLTVKIGD
FGLATVKTRWSGAQPLEQPSGSVLWMAAEVIRMQDENPYSFQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMV
GRGYLSPDLSKISSNCPKAMRRLSDCLKFQREERPLFPQILATIELLQRLPKIERSASEPSLHRTQADELPAC
LLSAARLVP

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FIGURE 6172

CATCGCCGCAGATCCAGCGCCCAGAGAGACACCAGAGAACCCACCATGGCCCCCTTTGAGCCCCTGGCTTCTGGC
ATCCTGTTGTTGCTGTGGCTGATAGCCCCCAGCAGGGCCTGCACCTGTGTCCCACCCACCCACAGACGGCCTTC
TGCAATTCCGACCTCGTCATCAGGGCCAAGTTCGTGGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT
TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTAC
ACCCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCACACAACCGCAGCGAGGAGTTTCTCATTGCTGGA
AAACTGCAGGATGGACTCTTGACATCACTACCTGCAGTTTTGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAG
CGCCGGGGCTTCACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTTCCCTGTTTATCCATCCCCTGC
AAACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCGT
CACCTTGCTGCTGCTGCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCGGTCCCAGATAGCCTGAATCCTG
CCCGGAGTGGAAGCTGAAGCCTGCACAGTGTCCACCCTGTTCCCACTCCCATCTTTCTTCCGGACAATGAAATAA
AGAGTTACCACCCAGC

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FIGURE 6173

ACATTGGGGCTCCTCCTCCTCGGGCCACGTGAGCTGTAGGGAAACGCAGGGGCGGCTTCTAGGTGCTGCCGCCGC
CACCGCCACCACCACCTCCACCGCCGCCTCGGAACCCAGGCCTGGGGGGCGGTGGGGCCGCGTATGGAGCCCCCG
CCCCCGGAGCTGCCAACATTGCCAACGCCACCGCCACGCTACACACAGGTACCCCTGGGATGGCGTGAGCACTC
CCCCAGCGATGGACCCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACA
TCATCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCGGCTGTGGGGGC
TACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCCTTGCGGTACTACTATGACAAGAACATCA
TCCGCAAGGTGAGCGGCCAGAAGTTTCGTCTACAAGTTTGTGTCTACCCTGAGGTGCGAGGGTGCTCCACTGAGG
ACTGCCCGCCCCAGCCAGAGGTGTCTGTTACCTCCACCATGCCAAATGTGGCCCCCTGCTGCTATACATGCCGCC
CAGGGGACACTGTCTCTGGAAGCCAGGCACACCCAAGGTGCAGGAATGGCAGGCCCAGGCGTTTGGCACGCA
GCAGCCGGAACGAGTACATGCGCTCGGGCCTCTATTCCACCTTACCATCCAGTCTCTGCAGCCGCAGCCACCCC
CTCATCTCTCGGCCTGCTGTGGTGCTCCCCAGTGCAGCTCCTGCAGGGGCAGCAGCGCCCCCTCGGGGAGCAGGA
GCACCAAGTCCAAGCCCCCTTGGAGGCCTGTCTGGAGGCTGAAGAGGCCGGCTTGCTCTGCAGGTATCCTGACCC
CGCCCGAGGCCCCAAACCTGAAATCGGAAGAGCTTAATGTGGAGCCGGTTTGGGCCGGGCTTTGCCCCAGAAG
TGAAAGTAGAAGGGCCCAAGGAAGAGTTGGAAGTTGCGGGGGAGAGAGGGTTTGTGCCAGAAACCACCAAGGCCG
AGCCAGAAGTCCCTCCACAGGAGGGCGTGCCAGCCCGGCTGCCCGCGGTTGTTATGGACACCGCAGGGCAGGCGG
GCGGCCATGCGGCTTCCAGCCCTGAGATCTCCAGCCGCAGAAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCAC
TCAGCCCGAGCCTGCTAGGTGGGCGGGACCCGAACGGACCCAGGATCGGGAAGTGGCTCCGGCCTCCAGGCTC
CGGGGCCGGCGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGCTGC
CTCCTAGCATTCACTTCTGGAGCACCCCTGAGTCCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTTTC
CATCCAGTGGCAGCGCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCGTGGTGCTCTCCC
CAGGGCCCCAGAAGCCATGACTACTACCACCACCACCACCACCCTTCTGGGGTCACTCCATCCATGCTCTCTCC
AGCCAGCCATCTCAAGGAGAAACATAGTTCAACTGAAAGACTCATGCTCTGATTGTGGTGGGGTGGGGATCCTTG
GGAAGAATTACTCCCAAGAGTAACTCTCATTATCTCCTCCACAGAAAACACACAGCTTCCACAACCTTCTCTGTTT
TCTGTCAAGTCCCCAGTGGCCGCCCTTACACGTCTCCTACTTCAATGGTAGGGGCGGTTTTATTTATTTATTTTTT
GAAGGCCACTGGGAGGAGCCTGACCTAACCTTTTAGGGTGGTTAGGACATCTCCCCACCTCCCCACTTTTTTCC
CCAAGACAAGACAATCGAGGTCTGGCTTGAGAACGACCTTTCTTTCTTTATTTCTCAGCCTGCCCTTGGGGAGAT
GAGGGAGCCCTGTCTGCGTTTTTGGATGTGAGTAGAAGAGTTAGTTTGTGTTTTATTATTCTTGCCATACT
CAGGGGTCCAGGAAGAATTTGTACCATTTAATGGGTGGGAGTCTTGGCCAAGGAAGAATCACACCCTTGAATA
GAAATTTCCACCTCCCCAACCTTTCTCTCAGACAGCTTATCCTTTTCAACCAACTTTTTGGCCAGGGAGGAATGT
CCCTTTTGTCTTCCCCCTGAGAAGCCATTCCCTTTGTCTGCCAACCTCCCTGGGGTCCCTGCCTGTTTCTCCCAA
TGGAGGGTTTTTTTTGGGGGGTGGTCCCCGTCTGGGGGGCCCTCCAGCCAGTACTCCAGGTCTCCCTGTCTCTCC
CCCGCTGCCATTTTGATAGTATAATCTATTTTAAATGGGGGCTTTTCAATAGGGGAGAGGGAGTCATCTCTTCT
ATATTTGGTGGGGTGGGTGGGAAGGAAGGGATTTGGGGGGGAATCTTCTGCCGCTCCCCACTCCAAGTGTTT
ATTTTGTATACCAACATGAATTTTCAGTTCCCTCCCTCCAGCCCCCAATTTCTGCGGGCGGGTACAAAGGA
CCCTTTCATGTCCCTGGAGTTGGGAGGGAGGAATGGGGGACATAAAGCCTGTCTGTCTCTATTCTAGGCAAGA
GAGAGTGGGTTCAAAGACTCCTGGGCTCACCTGTAGCGTGGCCAGCCAGGCCTTGGGACCTGGGGGTGG
TGATTTGGGGGACAGTGCTACACTCGTCTCCACTGTTTGTGTTTACTTCCCCAAAATGGACCTTTTTTTTTTCTAA
AGAGTCCCAGAGAATGGGAATTGTTCTGTAAATATATATTTTTTCAAAGTGA

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FIGURE 6174

CGGAAGCCGCGGTTCTTACCAACCGTTCTTATTGCTGGCGGCCTGAGGAGCCCATC**ATG**GCGACGCCCCCTAAGC
GGCGGGCGGTGGAGGCCACGGGGGAGAAAGTGCTGCGCTACGAGACCTTCATCAGTGACGTGCTGCAGCGGGACT
TGCGAAAGGTGCTGGACCATCGAGACAAGGTATATGAGCAGCTGGCCAAATACCTTCAACTGAGAAATGTCATTG
AGCGACTCCAGGAAGCTAAGCACTCGGAGTTATATATGCAGGTGGATTGTTGGGCTGTAACTTCTTCGTTGACACAG
TGGTCCCAGATACTTCACGCATCTATGTGGCCCTGGGATATGGTTTTTCTTGGAGTTGACACTGGCAGAAGCTC
TCAAGTTCATTGATCGTAAGAGCTCTCTCCTCACAGAGCTCAGCAACAGCCTCACCAAGGACTCCATGAATATCA
AAGCCCATATCCACATGTTGCTAGAGGGGCTTAGAGAACTACAAGGCCTGCAGAATTTCCAGAGAAGCCTCACC
AT**TGA**CTTCTTCCCCCATCCTCAGACATTAAAGAGCCTGAATGCCTTT

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FIGURE 6175

MATPPKRRAVEATGEKVLRYETFISDVLQORDLRKVLDRDKVYEQ LAKYLQLRNVIERLQEAKHSELYMQVDLGC
NEFVDTVVPDTSRIYVALGYGFFLELTAEALKFIDRKSSLLTELSNSLT KD SMN IKAH I HMLLEGLRELQGLQN
FPEKPHH

FIGURE 6176

[illegible]

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FIGURE 6177

CCTGTTTTTTGTGCTCCTCCGAGCTCGCTGTTTCGTCGGGTTTTTTTACGTTTTAATTTCCAGGACTTGAAGTGCC
ATGTCCTCTGAAGAAGGAAAGCTCTTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCAC
TTCAGCAGTTTCGGACCTATCTCTGAGGGTGAGACGGGCCATACTCACAATGGGGGTTGGTGAGAGAAAGTCTGG
GATCCTTGCAATTTCAAGGAGTATTAAGTGAAGTTAGGACCCACGCCTCCAAATTTCTTTTTCTTCCCTAAGCCTA
TGGTGTAGACTAAGGATGAGGGGAAGCGTCTTTGGGATTAGTGGGAGCGCTCCGTTTTTCCCTACCTATGCCATCT
CCTTTTCCGGCCACCCTTTGCTACTTAACCTTTGGGGTACTGACTGGTCCACATTGCTCCATCTTCTCTCCCTCT
CACAGTGGTCGTTGTCAAGGACCGGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGA
GCATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGGTGGGGCCTCCTATCTGCAGAGGGACCTTGTCCCATC
TGCGGCTTCCTTCAATTTCTTTTTGTTTTTCCCTCTGTGTCTGCTCGGGGCAGCGTGGCCACCAAGCCCCGAGTGC
CCACTCACAGGAGCATGACTGCCTTTTGTTCAGGGGGTGGAGGGCAGCGGCAGACAGAGCCTGGCCGCCTGGGA
GGCGACGACTGGTCCTGCATGAGGCCGAGAAGCCACCTGTGGATGGTTGACCTGCCTTGGGCTTAGGTAGTAGAG
TCTGCAGACCTGTGGGCCTGGCCCCGAGAGGACCTCGTGAGTCTTCTGACATGGACTCTGAAGCCTCAAACCAAG
AGAGGTGTCTGTCTAGCCCTGATAGTCGGGCAGCTTAGAGGAGTGGGGAGGAGAACTCAGCCTGAGTTCAGTCAA
GATGTAAGTAGTAGCAAGGGGAACATGGTGCATTCAGGTCAATTTGTGTGGGATTCTATAGCTCCTGATGAAGCC
ATTCTGGGGTAAAGGAGCTTATTCTGGAACATGGCACCCAGAACCTGGTGCCAGCAGGAATTTTTGGCCTCTTT
TGCCCACTTACCCTTGCTGCTCTTCCCTCACCATTGCCCTGACTGACTGCCAACCCATCATCCTTGTGTCTCCC
ACACTTAGTCTCTGGATGGTCGTGATCCGTGTGGATCATGCAGGCAAGTCTGCTCGGGGAACCAGAGGAGGTG
GCTTTGGGGCCCATGGGCGTGGTCGCAGCTACTCTAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATT
ATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGAGACTATAATGGCAGAAAACAGGGTGGTT
ATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAAGTGAATGAGACATGCACATAATATAGGTGAG
ACTTGATATCGGCATTGAGTGAACCTGTTTGTACACTCTGTGATGACCTCTCACCTTTTCTGGCAAGACTGC
TCTGCATTTCTGCTGCCCTCATACTCAGCCAGCCAACTACCAAACATTCTAGCTAGGCCTTCCTTGCTCTCA
GGTGCATATCAGAGCAAGTTTGCTAGGGGGTGGGATCTGAAAACCCATCTCCTATAATCTTCTACTCTTGTGTGG
GATGGAGGAAATGAAGGTGTGTCCCTGTTGTCCAACCTCAGCATCTTCATCAGCTCTAGGAGGTGAGCATGTTG
TCAGCTGTTACTTCATGACATCACAATTTCCCCCTCTTGCTGTTCCCAGATACACAAGGAATAATTTCTGATCC
AGGATCGTCCTTCCAAATGGCTGTATTTATAAAGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATAT
CAACCTTTTGTTTTTTAAATTGACCTGCCAAGGTAGCTGAAGACCTTTTAGACAGTTCCATCTTTTTTTTTTAAATT
TTTTCTGCCTATTTAAAGACAAATTATGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTTACCAGTTTTTTAGT
TTGAGCTCTTAGGTTTATTGGAGCTAGCAATAATTGTTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAA
TGTGTATCCAGGGACATTTTAAAAACCTGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTA
TAAGAAATGTGCATCAAGCCAGCCTGACCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTG
GCATGGTGGTGTACGCCTGTAATCCAGTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGG
AGGTTGCAGTGAGCTAAGATCGCGCCACTGTACTCCAGCCTGGGCAACAGCGAGACTCCATCTCAAAAAAAGG
AAATGTGTATCAAGAACATGATTATCCAGGGGTATTTCTAATTCAGATCATCAAATGATTATATAGAAGAGTT
GGCTTTAAATGTTTGCAAATGTCTTTTTTTTTTTAATACTGGAAGAAAAAATATTCTGTTGTGTCTCATACAGT
GCTTAGGATGTCTTTCACAGAGCTTATTA AAAAGATGAAACCTG

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FIGURE 6178

MAPRTWCPAGIFGLFCPLTLACSSLTIALTDCQPIILVSPTLSLWMVVRVWIMQASLLGEPEEVALGPMGVVAA
TLEVVGTRAMGVAGIMTVDLEGMDMDMDVPETIMAE TRVVM TATQEEITETIMTTEM RHAHNIGETWISALSEPV
CHTLS

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FIGURE 6179

TCTTGCCTGGAGCCTGAGAAAGGGAGGAGAGACAGAAGGAACCGGCGACAGTGGTCTCAGGGCCGCTCCGGGGGG
CCTCAAGAACCGGAGGCAGCCCCGGAGGTGGTCCCCGATCCCGGGCTATGCTCTTGGATCTGAGAAGGGAAGGCG
GAGGGCGGGCGGGGACAAGATGGGTGGAGAATGTCAAGCAAGGAATGCTAGGCGGGGGAGGGGCGTTGCTATGGCG
ACTGGGGAGGGGCGGTGTCTGTTCTGAATCGCTGTGTGTACCCGGGCGCTGCCCAGGAAGGGCAGGGCTGGGGT
GATGACCATGGTAACACCCGGGTGGGAGTTTCGTGACATCTCCGGCGCGGAGGGACTCGATGTCTATGGCAATGGT
CGCCTGGTGGAAAGGGACGGAAGTAGATCCCTTCGCTCGGGACGCTCACATTCCAGGCCCTTGTCCTGCAGGCTGC
CGCGGGCGGACACGCCAGAGGAGGAGGCCGGGGAAATGCGCGGTGTGGCAGCAAGTCTTAGCAGTGGACGCGAG
GTACAACGCGTACCGCACACCAACGTTTCCACAGTTTCGGACGCAGTATATCCGCCGGGCGCAGCCAGCTGCTGCG
GGAGAATGCCAAGGCTGGGCACCCCCCAGCGCTGCGTGGCAGTACCTGAGGCTTCGGGGGCGAGCTGCTGGGCCA
GCGCTACGGGCCCTCTCCGAGCCAGGCAGTGTCTGCTGCTATAGCAACAGCATCGTCCGCGAGTAGCCGCACTAC
TCTTGACCGCATGGAGGACTTTGAGGATGATCCTCGGGCCCTGGGGGCCCGTGGGCACCGTCGTTCTGTCTAGCAG
AGGCTCCTACCAGCTGCAGGCGCAGATGAACCGTGCCGTCTATGAGGACAGGCCCCCTGGCAGCGTGGTGCCAC
GTCAGCAGCAGAGGCAAGTCGGGCCATGGCCGGGGACACGTCACTGAGCGAGAAGTATGCCTTTGCGGGCATGTA
TCATGTTTTTTGACCAGCACGTGGATGAGGCAGTCCCAAGGGTGCCTTCGCCAATGATGACCGACACCGCCTGGC
CTGCTGCTCACTCGACGGCAGCATCTCCCTGTGCCAGCTGGTGCCTGCCCCACCCACAGTGTTCGCGTGCTACG
GGGCCACACCCGTGGTGTCTCCGACTTCGCTGGTCCCTCTCCAATGACATCCTCGTGTCACCTCACTGGATGC
CACCATGCGCATCTGGGCCTCTGAGGATGGTGCCTGCATCCGAGAGATCCCTGACCCCGATAGCGCTGAAGTGT
CTGCTGCACCTTCCAGCCTGTCAACAACAACCTCACTGTGGTGGGGAACGCCAAGCACAACGTGCATGTCTGAA
CATCTCCACAGGCAAGAAAGTGAAGGGGGCTCCAGCAAGCTGACAGGCCGTGTCTTGTCTGTCTTTGATGC
CCCTGGCCGGCTGCTCTGGGCGGGTGATGACCGTGGCAGTGTCTTCTCTTTCTCTTTGATATGGCCACAGGGAA
GCTGACCAAAGCCAAGCGTTTGGTGGTGCATGAGGGGAGCCCTGTGACCAGCATCTCAGCCCGGTCTGGGTGAG
CCGCGAGGGCCCGGATCCCTCACTGCTCATCAATGCTTGCCTCAACAAGTTGCTGCTCTACAGGGTGGTAGACAA
CGAGGGGACCCTGCAGCTGAAGAGAAGCTTCCCCATCGAGCAGAGCTCACATCCTGTGCGCAGCATCTTCTGTCC
CCTCATGTCTTCCGCCAGGGGGCTGCGTGGTGCAGGGCAGTGAGGACATGTGCGTGCACTTCTTTGATGTGGA
GCGGGCGGGCAAGGCTGCTGTCAACAAGCTGCAGGGCCACAGTGCACCTGTGCTTGATGTGAGCTTCAACTGCGA
CGAGAGCCTACTGGCCTCCAGTGACGCCAGCGGCATGGTTCATCGTCTGGAGGCGGGAGCAGAAAGTAGGGTCTGT
CGGCCCTGCTGCTGTCTCCATCCCACCCCTCTTACTCCAGCCTCGTGTGTGTAATAAAGTTTCGGTGGTGCATGC
TGAGGGCCGGCTCCCAGCTCTGCCGGGGACGGACAGGGCAGAGGGCAGCGGGCAGCTCCAGGAACACGGTGAAAA
AAAAAAA

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FIGURE 6180

MAAVWQQVLAVDARYNAYRTPTFPQFRTQYIRRRSQLLRENAKAGHPPALRRQYLRLRGQLLGQRYGPLSEPGSA
RAYSNSIVRSSRTTLDRMEDFEDDPRALGARGHRRSVSRGSYQLQAQMNRAVYEDRPPGSVVPTSAAEASRAMAG
DTSLSENYAFAGMYHVFDQHVDEAVPRVRFANDDRHRLACCSLDGSISLCQLVPAPPTVLRVLRGHTRGVSDFAW
SLSNDILVSTSLDATMRIWASEDGRCIREIPDPDSAELLCTFQPVNNNLTVVGNAKHNHVMNISTGKKVKGGS
SKLTGRVLALSFDAPGRLLWAGDDRGSVFSFLFDMATGKLTAKRLVVHEGSPVTSISARSWVSREARDPSLLIN
ACLNKLLLYRVVDNEGTLQLKRSFPIEQSSHPVRSIFCPLMSFRQGACVVTGSEDMCVHFFDVERAAKAAVNKLQ
GHSAPVLDVSNFCDESLASSDASGMVIVWRREQK

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FIGURE 6181

GGGAGAGGAACAGGGCCCTGGAGCACCTGGTTTCGGGGACAGTAGGGTTGGTGGGAGTTGCGATGATATTGCCAC
CTACCTCTTACATCTTTTAGTGCGTATGTTCTGTCCACCCAGCTACTGGTTCATTTGAGTAGATCGGAGTCAGAT
GAGTACATGTTTACGGGAGGCGCTTGGTACGGGATCCAGATAGGAATCTTTATCTGAGCTGCTTGTCAGTTTGT
TCGTCTGTCCCTAGGTCTGTCTGCTATCAGCT**ATC**CCGCTGCCCCGTTGCGCTGCAGACCCGCTTGGCCAAGAGAG
GCATCCTCAAACATCTGGAGCCTGAACCAGAGGAAGAGATCATTGCCGAGGACTATGACGATGATCCTGTGGACT
ACGAGGCCACCAGGTTGGAGGGCCTACCACCAAGCTGGTACAAGGTGTTTCGACCCCTTCCTGCGGGCTCCCTTACT
ACTGGAATGCAGACACAGACCTTGTATCCTGGCTCTCCCCACATGACCCCAACTCCGTGGTTACCAAATCGGCCA
AGAAGCTCAGAAGCAGTAATGCAGATGCTGAAGAAAAGTTGGACCGGAGCCATGACAAGTCGGACAGGGGCCATG
ACAAGTCGGACCGCAGCCATGAGAACTAGACAGGGGGCCACGACAAGTCAGACCGGGGGCCACGACAAGTCTGACA
GGGATCGAGAGCGTGGCTATGACAAGGTAGACAGAGAGAGAGAGCGAGACAGGGAACGGGATCGGGACCGCGGGT
ATGACAAGGCAGACCGGGAAGAGGGCAAAGAACGGCGCCACCATCGCCGGGAGGAGCTGGCTCCCTATCCCAAGA
GCAAGAAGGCAGTAAGCCGAAAGGATGAAGAGTTAGACCCCATGGACCCTAGCTCATACTCAGACGCCCCCGGG
GCACGTGGTCAACAGGACTCCCCAAGCGGAATGAGGCCAAGACTGGCGCTGACACCACAGCAGCTGGGCCCCCTCT
TCCAGCAGCGGCCGTATCCATCCCCAGGGGCTGTGCTCCGGGCCAATGCAGAGGCCTCCCGAACCAAGCAGCAGG
AT**TGA**AGCTTCGGCCTCCCTGGCCCTGGGTAAATAAAAGCTTTCTGGTGATCCTGCCACC

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FIGURE 6182

MPLPVALQTRLAKRGILKHLEPEPEEEEEIIAEDYDDDPVDYEATRLEGLPPSWYKVFDPSGGLPYYWNADTDLVSW
LSPHDPNSVVTKSAKKL RSSNADAEKLD RSHDKSDRGHDKSDRSHEKLD RGHDKSDRGHDKSDRDRERGRYDKVD
RERERDRERDRDRGRYDKADREEGKERRHHRREELAPYPKSKKAVSRKDEELDPMDPSSYSDA PRGTWSTGLPKRN
EAKTGADTTAAGPLFQQRFPYSPGAVLRANAEASRTKQQD

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FIGURE 6184

MTILPKKKPPPDADPGGTGVGGGDRDRDSGVVGARPRASPPFQGFLPGFPGALHRWALAVPPGAVAGPRPQQAS
PPPCGGPGGGPGGGPGDALGAAAAGVGAAGVVVGAVGVGGCCSGPGHKKRRRQAPGVGAVGGGSPEREVEGAG
YNSEDEYEAAAARIEAMDPATVEQQEHWFEKALRDKKGFIIKQMKEDGACLFRAVADQVYGDQDMHEVVRKHCM
YLMKNADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQAMAEMYNRPVEVYQYSTEPINTFHGIHQNEDEPIRVSY
HRNIHYNVSVNPNKATIGVGLGLPSFKPGFAEQSLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVAR
ESYLQWLRDQEKQARQVRGPSQPRKASATCSSATAAASSGLEEWTSRSPRQRSSASSPEHPHELHAELGMKPPSPG
TVLALAKPPSPCAPGTSSQFSAGADRATSPLVSLYPALCRALIQQMSPSAFGLNDWEDRQEAHRDRPTGSQAAP
EERDIQTEESLPAPHSFQDEKNLPPPPDTDAREVGGRSGKFPPFPVPPRTSEPSMLNFFFFIKITFIL

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FIGURE 6185

CTGGGTGTACAGCGTCCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGCACCAGGGACTCCAGCCCATGCC
ATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGGCCGCCTGCACCAACTTCTCGCGCACTCGAAAGGGA
ATCCTCCTGTTTGCTGAGATTATATTATGCCTGGTGATCCTGATCTGCTTCAGTGCCTCCACACCAGGCTACTCC
TCCCTGTCGGTGATTGAGATGATCCTTGCTGCTATTTTCTTTGTTGTCTACATGTGTGACCTGCACACCAAGATA
CCATTCATCAACTGGCCCTGGAGTGATTCTTCCGAACCCTCATAGCGGCAATCCTCTACCTGATCACCTCCATT
GTTGTCTTGTGAGAGAGGAAAACCACTCCAAAATCGTCGCAGGGGTACTGGGCCTAATCGCTACGTGCCTCTTT
GGCTATGACGCCTATGTCACCTTCCCCGTTTCGGCAGCCAAGACATACAGCAGCCCCCACTGACCCCGCAGATGGC
CCGGTGTAGGCGAACTTCCCTCATTTCTCTCTGCAATCTGCAAATAACTCCTCCATTGAAATAACTCCTCCCCAC
CCCAACAACAACATTCCCAGCAGACCAACTCCCACCCCTCTTTGAGGTAAAAGTGCCTTTATTGGGAGACTTTT
GTCTTCCAGCCTGCCAATCAACCTCCTGGGTGTGGCCACCATATGTGTGTGCCTAGGTCTCTTCTGCACGAT
CCAATAGGAGACACCAGTTCTGACTGAACCATGCCCCACCTAAGTCACAAAATGAGGGAAGTGGGGAGTTAGAT
TTCAGAGTCCAGGCCCTAGGTTGGGACCCACTCCAAATAATCTCCTCGGTGTGGGTGGTGGTTCTATAGAGGGAT
AAATGAATAATAAACATTGTTAAATATAAAAAAAAAAAAAAAAAAAA

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FIGURE 6186

MADSERLSAPGCWAACTNFSRTRKGILLFAEIIILCLVILICFSASTPGYSSLSVIEMILAAIFFVVYMCDLHTKI
PFINWPWSDFFRTLIAAILYLITSIVVLVERGNHISKIVAGVLGLIATCLFGYDAYVTFPVRQPRHTAAPTDPADG
PV

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FIGURE 6187

GAGCACGGAGCAGGGTTTCTACAGCTGCTCCCCACTTTCTCGGACCCGGTCCTGGACCCAGCCCCCGACTCCGAC
ACGGCTCCACC**ATG**GAGGAGGCGGACCGAATCCTCATCCATTGCTGCGCCAGGCCGGCACGGCAGTTCCTCCAG
ATGTGCAGACCTTGCGCGCCTTCACCACTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACC
CTGCGGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCCATGTCTGCCCCGGTTCCGCTGGCCATGAGCCTGG
CTCAGGCCTGCATGGACCTGGGCTATCCCTTGAGCTTGGCTATCAGAACTTCTCTACCCCAGTGAGCCTGACC
TCCGAGACCTGCTTCTCTTCTTGCTGAGCGTCTGCCCACCGATGCCTCTGAGGATGCAGACCAGCCTGCAGGTG
ACTCAGCTATTCTCCTCCGGGCCATTGGGAGCCAAATTCGGGACCAGCTGGCACTGCCTTGGGTCCCGCCCCACC
TTCGCACTCCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTTTCCATGCCAGCAGGCTGGTTCGTGC
CAGAATTGAGTTCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCCCCTGCTGCTTCCAGTCCCTACCCAGGTGC
CTCAGCCTGTTGGAAGGGTGGCCTCGCTCCTCGAACACCATGCCCTGCAGCTCTGCCAGCAGACGGGCCGGGACC
GGCCAGGGGATGAGGACTGGGTCCACCGGACATCCCGCCTCCACCCCAGGAGGACACACGGGCTCAGCGGCAGC
GGCTGCAAAAGCAACTGACTGAGCATCTGCGCCAAAGCTGGGGCCTGCTTGGGGCCCCATACAAGCCCGGGACC
TGGGAGAACTGCTGCAGGCCTGGGGTGCTGGGGCCAAGACTGGTGCTCCTAAGGGCTCCCGCTTCACGCACTCAG
AGAAGTTCACCTTCCATCTGGAGCCCCAGGCCAGGCCACTCAGGTGTGAGATGTGCCAGCCACCTCCCGGCGGC
CTGAACAGGTACAGTGGGCAGCTCAGGAACAGGAGCTCGAGTCCCTTCGGGAGCAGCTGGAAGGAGTGAACCGCA
GCATTGAGGAGGTTGAGGCCGACATGAAGACCCTGGGCGTCAGCTTTGTGCAGGCAGAGTCTGAGTGCCGGCACA
GCAAGCTCAGTACAGCAGAGCGTGAGCAGGCCCTGCGCCTGAAGAGCCGCGCGGTGGAGCTGCTGCCCGATGGGA
CTGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCAGCGGGTCATCCACTTGGCGGGTCAGTGGG
AGAAGCACCGGGTCCCACTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGCTGGAATCTT
CTCGACGGCTGGCAGAGATCCAAGAAGTGCACCAGAGTGTCCGGGCGGCTGCTGAAGAGGCCCGCAGGAAGGAGG
AGGTCTATAAGCAGCTGATGTGAGAGCTGGAGACTCTGCCCAGAGATGTGTCCCGGCTGGCCTACACCCAGCGCA
TCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAAGATCTTGTCTGATACGAAGGAGCTTC
AGAAGGAAATCAACTCCCTATCTGGGAAGCTGGACCGGACGTTTGCGGTGACTGATGAGCTTGTGTTCAAGGATG
CCAAGAAGGACGATGCTGTTCCGAAGGCCTATAAGTATCTAGCTGCTCTGCACGAGAACTGCAGCCAGCTCATCC
AGACCATCGAGGACACAGGCACCATCATGCGGGAGGTTTCGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCA
AGAAGACCCTCAGCAACCTGGAGAAGATCCGGGAGGACTACCGAGCCCTCCGCCAGGAGAACGCTGGCCTCCTAG
GCCGGGTCCGGGAGGCC**TGA**GGAGCCGCCGGCAGAGGTCTCTCCCCAGCCTCAGGCAGGGATTTGGGGTGCTGGA
GGCAGTGGCCAAGCACATGCCCTAGCTACTTCTCCGCTGTCCAGTTCTCCTGCTGCGGCCCTTGACCCAGACC
CCTGCCCACTGACCGCAACCCTTATATGGGGTGATAGTCCAGCATGTGGGGAGCTCGGCTGCAGTTTATTGGGGA
CGGTACTGTGGGTTGGGGGCCTTGATCCCAATAAATGAGTAGTTCCTCTGC

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FIGURE 6188

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTELVEAVVRCLRVINPAVGSGLSPLLPLAM SARFRLAMSLAQAC
MDLGYPLELGYQNFLYPSEPDLRDLLLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLALPWVPPHLRTP
KLQHLQGSALQKPFHASRLVVPPELSSRGEPREFQASPLLLPVPTQVPQPVGRVASLLEHHALQLCQQTGRDRPGD
EDWVHRTSRLPPQEDTRAQRQRLQKQLTEHLRQSWGLLGAPIQARDLGELLQAWGAGAKTGAPKGSRFTHSEKFT
FHLEPQAQATQVSDVPATSRPEQVTWAAQEQELESLEQLEGVNRSIEEVEADMKT LGVSFVQAESECRHSKLS
TAEREQALRLKSRAVELLPDGTANLAKQLVVENSAQRVIHLAQWEKHRVPLLA EYRHLRKLQDCRELESSRRL
AEIQELHQSVRAAAEEARRKEEVYKQLMSELETLP RDVSRLAYTQRILEIVGNIRKQKEEITKILSDTKELQKEI
NSLSGKLDRTFAVTDELVEFKDAKKDDAVRKAYKYLAALHENCSQLIQTI EDTGTIMREVRDLEEQIETELGKCTL
SNLEKIREDYRALRQENAGLLGRVREA

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FIGURE 6189A

GGGCTGCTGTGCTGGCAGCAGTAGGCGAGGGCGCGGCTGCGGGGTTCTTGGTGCTGAGGACGGACGCCATTGGAG
TTCCCGAGAAGATCCCGCCTCCCATTGAATCCCGCCCCCTCCCCCTGCAGCTGCTTCACCCCTCCCTCTCAGGCTG
AGCTCTCATCTCCCTGGGAGCCCCGAGCATGGCTGAGGGAAGCTTCAGCGTGCAATCGGAAAAGCTACAGTGTTGA
AGACATGGATGAGGGTAGCGACGAAGTCGGGGAGGAAGAGATGGTTGAAGGCAACGACTATGAAGAATTCCGGTGC
GTTTGGTGGCTATGGCACCCCTCACCAGCTTTGACATCCATATCCTCAGAGCCTTCGGAAGCTTGGGTCCAGGCCT
TCGCATCTTATCGAATGAGCCCTGGGAACTGGAACCCCTGTGCTGGCCCAGACCCTGGTGGAGGCATTGCAGCT
GGATCCGGAAACACTTGCCAATGAGACGGCCGCCCGTGTGCTGCCAACGTAGCCCGCGCCGCCGCTCCAACCGTGC
GGCTCGGGCCGTGTCCGCCGCTGCCCGTACCGCCTTCAGTCAGGTGGTTCGCTAGCCACCGGGTGCCACGCCGCAG
GTCTCAGGAGAGGATACCCAGCCCACGACCTACGCCGCCGAGGTGAGGGGCCCCACCCCTGAGCACCCCTTGCTTC
TCCGCAGACCTCCAGATGTTAGTCACCAGTAAGATGGCTGCCCCGAGGCTCCGGCAACCTCCGCACAGTCCCA
GACAGGCTCCCCGGCCCAGGAGGCTGCTACTGAGGGCCCTAGTAGCGCCTGTGCTTCTCTCAGGCTCCGTGTGC
CAGGGAGGTGGACGCCAACCGGCCAGCACAGCCTTCCTGGGCCAGAATGATGTCTTCGATTTCACTCAGCCGGC
AGGTGTCAGTGGCATGGCCTTCCCGCGCCCCAAGAGACCTGCCCCAGCCCCAAGAGGCTGCCACAGAGGGCCCCAG
TGCTGCCTCTGGTGTGCCCCAGACGGGACCTGGCAGGGAGGTGGCAGCCACCCGGCCCCAAGACCACCAAGTCGGG
GAAGGCGCTGGCCAAGACTCGGTGGGTGGAGCCTCAGAATGTTGTGGCAGCAGCTGCTGCCAAGGCCAAGATGGC
CACGAGCATCCCTGAGCCGGAGGGTGCAGCTGCTGCCACTGCTCAGCACAGTGTGAGCCCTGGGCCAGGATGGG
AGGCAAGAGGACCAAGAAGGTGAGAGGGGATCCXX
XXCCTAGTCTGTGGCAT
CCCTTTGCTTGCGTGCCACGGCTGGTCCCTCCATAGCCACAGGACGGGGTCTGCTGCGTCACCCCTCGGCAGAG
CTTGACCAAGGGGCTACAGCTCTATGACCCCTGCTCAGCCCAGGTGCTTTCTCCAACCTCTCCCCCTCCTGCAGA
CATGCTGAAGGATGTCTATCAGAGAATATGATGAACATTTCCCTGAGATCATTGAACGAGCAACGTACACCCTGGA
AAAGGTGGGTGCAGGATGGGAGCAGCTCTGTGGGGGAAGAGCGGGCATGGGGGTGCGGTGACCCTGCAGCCCCCTC
AAGGCCCAGTCTCTGGAGCCATCTCTCACCTCTCCGACTCTGAGCTTCCACTGCACTGGCAGTTTGACTCGTGCT
TCCTGCCCTCGGCTTCTCTCTCTCATGCTCTCTGAGTGTCTCGCCGTCTGGCCAGGTGGGTCTCATCGCCTCTGC
CAGCGTCAGCTCCACAGCGAAGGTCTTCCGTGTGCTGTCTTCTTCTGCCCTCGCTCACGAGTTTGGATTCTTG
CTGAGGAGCAGTTCTAACCCGGAATCACTGTCTGCCGGCAGGATGCCAGCATGGGGTTTGGATCTCACACTCTGT
TTTCTCCCCACGTAGAAGTTTGGGATCCACCTGAAGGAGATCGACAAGGAAGAACACCTGTATATTCTTGTCTG
CACACGGGACTCCTCAGCTCGCCTCCTTGAAAGTAAGAAGGACACTCCCGAGGCTGATCTCTCTTGGTGATCTC
GGCGTCATCTTCATGAATGGCAACCGTGCCAGCGAGGCTGTCTCTGCGGAGGCACTACGCAAGATGGGACTGCGC
CCTGGGTATGATTGGCCTCTCCAGCTCCTCCCCCTCGGTGCTATCCTCTGGCCAAAGAGGTCTGGGATTGCAATA
GCCTGGTGGTCTGGCGCAAGGGCGTGGGGTGCCTGGGCTCGGTAGAGAGCAAAGGATCTCACCAGGGCGGATGGG
GAAGCGGTGCTGGACGCTGCTCAGCCCTCTCTGCTCTGTGGCCCCAGATGACATCTAAGAGAGACAGTCAGAG
TCAGGGATTCCATCAAAATCCCTACCTGGGGCGTCCCTGACCAACAGTCCTCTGGCCTCTGCTGCATGCCAGGCC
TCCACAGCGACTCCCCGGGGGCTGGGAAGTCATAGTCATGCTAGGGAGGGCCCCCTGCCACCGTCTCTGCTCATGG
ATTCCTTTCTTGCCCTCAGGGTGAGGCACCCATTCTCGGCGATCTGAGGAAGCTCATCACAGATGACTTTGTG
AAGCAGAAGTAAGTATCACCTGAGCTAACTGCGGCTCTCACTCGAGCATCCTTTGTGTGCTGGTCTGGCTGAGAA
AGCAGTTCCCTATCCCAAATCTTCAACTGGAGGGATGGGTGCCTCTGACCTGGGAGTGAGTGGCAGTGGGGGGTA
TGCGAGTGTGTGGGGACCGAAGGCCAGGGCGGTCTTGGGAAAAGGGAGCTCACGTCACCTGAGAACACGGTGTGG
GGTGTGAAAACGGCCGCCATCACCTTGAGCACCTGCCCTGTAGACTGACACAAGAGTTCCCCCTGGTTTACACCT
AAGGAACCCGGAGCTCAGAGAGGAGACGCCCTCTGAGCATGGCTCCCAGCTGGTAAGGGCCTCAGCCCCAATCTCC
TGATTTTCAGGCCAGGGGCCACCCCTCTCCCCGTCCCTGGAGGACTTGCCAACGCACAGGCGCGCATGCACACCAA
CAAAGGGTCAGGACTTGAGGAGGATGCCTGGAGCACGCTTCTCTGCTGACTGTTTCTTCTCTCCAGTCGTTT
CCTCTGGTGGGCCTCTCCAGGGCTCCGCCGGGGTGTGGCCAAGACCCTCGAGGTGGGGTGTGCTCAGAGCAGGGG
GCCTGAAGAATGGCTCCTCTGTTTACAACACACCCAACAGGAAGCTGGGGTTCATCGTGATGAGGGGCACAACTT
GTGGCCTCCCTACAGACAAATGCCCTACATGTGGACCCCTGCACCTCCGCATGGCTTCCGGGGAGGACCAATGG
CAAAAGGCTTTGAAGGCCTCACTTTTGCAGGCAGAAGTCCTGGGAGTGGGTTTGGGAATGAGTGAAGGGCTGGAG
GGGCAGGACAGTCCTCTTCCAGGAGCTGAGCTGCGGCATCGGGTTGAGGAGGGGGCCCCCTGGAACCCATCCGTTT
AGCAACAGGTCTGCTTGGCTAGCAGCAAAGTTTACTTTCTCTCATGCCAAGGTACCTGGAATACAAGAAGATCC

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FIGURE 6189B

CCAACAGCAACCCACCTGAGTATGAATTCCTCTGGGCCTCGAGCCCGCCATGAGACCAGCAAGATGAGGGTCCTG
AGATTCATCGCCCAGAATCAGAACCGAGACCCCGGAATGGAAGGCTCATTTCCTGGAGGCTGTGGATGATGCT
TTCAAGACAATGGATGTGGATATGGCCGAGGAACATGCCAGGGCCCAGATGAGGGCCCAGATGAATATCGGGGAT
GAAGCGCTGATTGGACGGTGGAGCTGGGATGACATACAAGTCGAGCTCCTGACCTGGGATGAGGACGGAGATTTT
GGCGATGCCTGGGCCAGGATCCCCCTTTGCTTTCTGGGCCAGATACCATCAGTACATTCTGAATAGCAACCGTGCC
AACAGGAGGGCCACGTGGAGAGCTGGCGTCAGCAGTGGCACCAATGGAGGGGCCAGCACCAGCGTCCTAGATGGC
CCCAGCACCAGCTCCACCATCCGGACCAGAAATGCTGCCAGAGCTGGCGCCAGCTTCTTCTCCTGGATCCAGCAC
CGTTGACGAACTGCAGCGATCTTACTGGCCAAGCCAGAGCGCCTCCTCTCAGAITCCTTCTCGACACAGCACCCCT
AGGCGGCTTCTTCTGTCTCAGTCGGAGGTGGCATGCAAGATGAAGCTCTCTTTGCTCTTCCTGCTTTTCATTTTGTG
CTTTTCCTTGTGTTTTTCATGTTTTGGGTATCAGTGTTACATTAAAGTTGCAAAATTAA

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FIGURE 6190

CCCATCCCGTGGGTGGCCGGCGACAAGATGGCAGCAGCGTGTCTGGAGCGTGAAGGGCCTGGTGGCGGTAATAACC
GGAGGAGCCTCGGGCCTGGGCCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGAC
CTGCCCCAACTCGGGTGGGGAGGCCCAAGCCAAGAAGTTAGGAAACAACCTGCGTTTTCGCCCCAGCCGACGTGACC
TCTGAGAAGGATGTGCAAACAGCTCTGGCTCTAGCAAAAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGT
GCAGGCATCGCGGTGGCTAGCAAGACGTACAACCTTAAAGAAGGGCCAGACCCATACCTTGGAAGACTTCCAGCGA
GTTCTTGATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGAGATGGGCCAGAATGAACCA
GACCAGGGAGGCCAACGTGGGGTCATCATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAGGTTGGACAAGCT
GCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCCATTGCTCGGGATCTGGCTCCCATAGGTATC
CGGGTGATGACCATTGCCCCAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCCAGAGAAAAGTGTGCAACTTC
TTGGCCAGCCAAGTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATCATC
GAGAACCATTCTCAATGGAGAGGTCATCCGGCTGGATGGGGCCATTCTGTATGCAGCCTTGAAGGGAGAAGGCA
GAGAAAACACACGCTCCTCTGCCCTTCCCTTCCCTGGGGTACTACTCTCCAGCTTGGGAGGAAGCCCAGTAGCCA
TTTTGTAAGTGCCTACCAGTCGCCCTCTGTGCCTAATAAAGTCTCTTTTCTCACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6191

MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKDVQTAL
ALAKGKFGRVDVAVNCAGIAVASKTYNLKKGQHTLEDQFQVLDVNLMTFNVIRLVAGEMQNEPDQGGQRGVI
INTASVAAFEGQVGQAAYSASKGGIVGMTLP IARDLAPIGIRVMTIAPGLFGTPLLTSLEKVCNFLASQVPFPS
RLGDPAEYAHLVQAI IENPFLNGEVIRLDGAIRMQP

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FIGURE 6192A

GCCTGTCCTACTGCCGCCGGCGCCGCGGCCGTCATCGGGGTTCTGAAACTGATTGAGATTGAGAACTTTAAGTCG
TACAAGGGTCGACAGATTATCGGACCATTTCAGAGGTTACCGCCATCATTGGACCCAATGGCTCTGGTAAGTCA
AATCTCATGGATGCCATCAGCTTTGTGCTAGGTGAAAAACCAGCAACCTGCGGGTAAAGACCCTGCGGGACCTG
ATCCATGGAGCTCCTGTGGGCAAGCCAGCTGCCAACCGGGCCTTTGTGAGCATGGTCTACTCTGAGGAGGGTGCT
GAGGACCGTACCTTTGCCCGTGTCAATTGTAGGAGGTTCTTCTGAGTACAAGATCAACAACAAAGTGGTCCAAC
CATGAGTACAGTGAGGAATTAGAGAAGTTGGGCATTCTCATCAAAGCTCGTAACTTCTCGTTTTCCAGGGTGCT
GTGGAATCTATTGCCATGAAGAACCCCAAGAGAGGACAGCTCTATTTGAAGAGATTAGTCGTTCTGGGGAGCTG
GCGCAGGAGTATGACAAGCGAAAGAAGGAAATGGTGAAGGCTGAAGAGGACACACAGTTTAATTACCATCGCAAG
AAAAATATTGCGGCTGAACGCAAGGAAGCAAAGCAGGAGAAAGAAGAGGCTGACCGGTACCAGCGCCTGAAGGAT
GAGGTAGTACGGGCTCAGGTACAGCTGCAGCTCTTTAAGCTTTACCATAATGAAGTGGAAATTGAGAAGCTCAAC
AAGGAAGTGGCCTCAAAGAACAAGGAGATCGAGAAGGACAAGAAGCGTATGGACAAGGTGGAGGATGAAGTGAAG
GAGAAGAAGAAGGAGCTGGGCAAAATGATGCGGGAGCAGCAGCAGATTGAGAAGGAGATCAAGGAGAAGGACTCA
GAATTGAACCAGAAGCGGCCTCAGTACATCAAAGCCAAGGAGAACACCTCCCACAAAATCAAGAAGCTGGAAGCA
GCCAAGAAGTCTCTGCAGAATGCTCAGAAGCACTACAAGAAGCGTAAAGGTGACATGGATGAGCTGGAGAAGGAG
ATGCTGTGAGTGGAGAAGGCTCGGCAGGAGTTTGAAGAACGGATGGAAGAAGAGAGTCAGAGTCAGGGCAGAGAT
TTGACGTTGGAGGAGAATCAGGTGAAGAAATACCACCGTTGAAAGAAGAAGCCAGCAAGAGAGCAGCTACCCTG
GCCCAGGAGCTGGAGAAATTCAATCGAGACCAGAAAGCTGACCAGGACCGTCTGGATCTGGAAGAACGGAAGAAA
GTAGAGACAGAGGCCAAGATCAAGCAAAAGCTGCGGGAAATTGAAGAGAATCAGAAGCGGATTGAGAACTGGAG
GAATACATCACCCTAGCAAGCAGTCCCTAGAAGAGCAGAAGAAGCTAGAGGGGGAGCTGACAGAGGAGGTGGAG
ATGGCCAAGCGGCGTATTGATGAAATCAATAAGGAGCTGAACCAGGTGATGGAGCAGCTAGGGGATGCCCCGATC
GACCGCCAGGAGAGCAGCCGCCAGCAGCGAAAGGCAGAGATAATGGAAAGCATCAAGCGCCTTTACCCTGGCTCT
GTGTACGGCCGCTCATTGACCTATGCCAGCCCACACAAAAGAAGTATCAGATTGCTGTAACCAAGGTTTTGGGC
AAGAACATGGATGCCATTATTGTGGAAGTCTCGGAGAAGACAGGCGGGAGTGTATTGAGTATATCAAGGAGCAGCGT
GGGGAGCCTGAGACCTTCTTGCTCTTGACTACCTGGAGGTGAAGCCTACAGATGAGAAACTCCGGGAGCTGAAG
GGGGCCAAGCTAGTGATTGATGTGATTGCTATGAGCCACCTCATATCAAAAAGGCCCTGCAGTATGCTTGTGGC
AATGCCCTTGTCTGTGACAACGTGGAAGATGCCCGCCGCTTGCCTTTGGAGGCCACCAGCGCCACAAGACAGTG
GCACTGGATGGAACCTTATTCCAGAAGTCAGGAGTGATCTCTGGTGGGGCCAGTGACCTGAAGGCCAAGGCACGG
CGCTGGGATGAGAAAGCAGTAGACAAGTTGAAAGAGAAGAAGGAGCGCTTGACAGAGGAGCTGAAAGAGCAGATG
AAGGCAAAACGGAAGAGGCAGAGCTGCGTCAGGTGCAGTCTCAGGCCCATGGACTGCAGATGCGGCTCAAGTAC
TCCCAGAGTGACCTAGAACAGACCAAGACACGACATCTAGCCCTGAATCTGCAGGAAAAATCCAAGCTGGAGAGT
GAGCTAGCCAACCTTTGGGCCTCGCATTAATGATATCAAGAGGATCATTGAGCCGAGAGAGGGAAATGAAAGAC
TTGAAGGAGAAGATGAACCAGGTAGAGGATGAGGTGTTTGAAGAGTTTTGTGCGGAGATTGGTGTGCGCAACATC
CGGGAGTTTGAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGTTTGGAGTTTGAGAATCAGAAG
ACTCGCTTGGGCATTGAGTTGGATTTTGAAAAGAACCAACTGAAGGAGGACCAAGATAAAGTACACATGTGGGAG
CAGACAGTGAAGAAAGATGAAAATGAGATAGAAAAGCTCAAAAAGGAGGAACAAAGACACATGAAGATCATAGAT
GAGACCATGGCTCAGCTACAAGACCTGAAGAATCAGCATCTGGCCAAGAAGTCGGAAGTGAATGACAAGAATCAT
GAGATGGAGGAGATTTCGTAAGAACTCGGGGGCGCCAACAAGGAAATGACCCATTTACAGAAGGAGGTGACAGCC
ATTGAGACCAAGCTTGAACAGAAGCGCAGTGACCGTCACAACTTGCTACAGGCCTGTAAGATGCAGGACATTAAG
TTGCCACTGTCAAAGGCACCATGGATGATATTAGTCAGGAAGAGGGTAGCTCCCAGGGGGAGGACTCAGTGAGT
GGTTCACAGAGAATTTCCAGTATCTATGCACGAGAGGCCCTCATTGAGATTGACTACGGTGATCTGTGTGAGGAT
CTGAAGGATGCCAGGCTGAGGAAGAGATCAAGCAAGAGATGAACACACTGCAGCAGAAGCTGAATGAGCAGCAG
AGTGTGCTTCAGCGTATTGCCGCCCCAACATGAAGGCCATGGAAAAGCTGGAAAAGTGTCCGAGACAAGTTCCAG
GAGACCTCAGATGAGTTTGAAGCAGCCGAAAAGCGAGCAAAGAAGGCCAAGCAGGCATTGGAACAGATCAAGAAG
GAGCGCTTTGACCGCTTCAATGCTTGTGTTTGAATCTGTGGCTACCAACATTGATGAGATCTATAAGGCCCTGTCC
CGCAATAGCAGTGCCAGGCATTCTGGGCCCTGAGAACCCTGAAGAGCCCTACTTGGATGGCATCAACTACAAC
TGTGTGGCTCCTGGGAAACGCTTCCGGCCCTATGGACAACCTGTGAGGCGGGGAGAAGACAGTGGCAGCTCTGGCC
CTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCTTCTTCTGCTCTGGATGAGATTGATGCTGCCCTTGATAAC
ACCAACATTGGCAAGGTGGCAAATTACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCTCTC

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FIGURE 6192B

AAGGAGGAGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGATCAGCAAA
GTCCTGACCTTCGACCTCACCAAGTACCCAGATGCCAACCCCAACCCCAATGAGCAG**TAG**CAGTATTTTTGCCCT
CCCGCCCTGTCTGGATCCCTAAGCTGTCCCTCTCCCAATCTCTGGATATTTGACTCCCAACCTTCCCCCTACCTC
CTGGCCCTTTTTGGTGTAGTCATGGGATTTAGGCACTGCTAATCAAGCATGAAGAGGAACAGAGGTGATGTTAGG
TCTGGAGCAAAAATTCCTGAACGACAGGGAGTATTCTGGCCTCTGAAAGGAGGTGCTGAGCTGAACAGGGCCATC
TGTTTCATCACACACACCCCTTCCCTCCCCCTCATCACCCATAATCGTGGGCCCCCTTGGGCCTCTTGCCCACTGTG
TGTGTGGGTATGTATGTGTGTATGTATGTATCCGCATGTGTGCATGTGAGTATGTTTGCAAAATAATAAAGGATA
TTGGAGACCTGTTTTAGAAGGAGCCTAGGCTGAATTTGATTCCAAGAGAGCTTAGGATGACAGCACCCCTGAGCT
GGGCAAAGGTACTCAGGACCTCATAGGAGTCTTAGGCAGTTACCTGAAACTGCCTTCATTCACTCATTGTGTAT
TCATTCAATTTATGTATTCATCAGACACATAACCGAACCCCTCTATTTGTCAGGCTCTGTGCTTGGAATACAGAGT
TGAATCAGACATGATCTCTACCCTCCTAGTAAGGAGATACAGTGGGTTCATGAATGACTATAGTTAGCTGAATGT
CATATGTACTTTGAATTTGAGAAGTGGGTGATCCCTCTAGGCTTCCTGGAGGTCACATTTAAGCTAGACCTTGA
CAAATTGGTAGGATTTGGTCAGGCACTAGGAGTGGAGCATGAGCTCTGGGGACAGACAGTTATGGGTCTGTGCTC
CACTTTTTATCACTTACTAGTTGTTTGACCTTGGGCAAGTCATTTGACCTTCTGTGCCTCAGTTTCCTCATCTGT
AAAATGGGGCTAACAATATTACCTACCTCATAGGATTTAATGATGTCAAGCTCCTCACTGGAGGCCTTATCCCTT
CGTGGAGCCCCTAGGTGCCGACCCCTCAGAATATAACCCTCATGCCTGGACCCCTGAGAGCTTCTGATCCCAGC
TATTAGGGACAGAAGAAGCCTCCAAATCTGGAAGGTGCTGAATGCCCTGCTGACTGGGAAAGTTTCAGGGCACTG
ATGGGGTCTACCTGGTAAGCGGAGGGCCTGAGGAAACCTGTAGCTTCAATCATGTCTGGTAACCGGGTGCCTGAG
CCCCAATCTGGGTGTGAGGAAATAGGGGAGAGGTATCCTGGGCCACATCCCAGCCTAACACCTGTGAGGTTTCAT
TTTAGGAACTAACCTCATTAGCTATAAGGATCATGCAGAGGCAGCAAAGCCGGGTGCGATGAGCTCAGCCTTTAC
TCATTACATACACCATCACACTTTAATTCCAATCTGTATATTGCTTTTTAAAGTTAAGTCCATTCTAATTACC
CAAATATGCATGAATTC

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FIGURE 6193

MGFLKLIENFKSYKGRQIIIGPFQRFRTAIIGPNGSGKSNLMDAISFVLGEKTSNLRVKTLRDLIHGAPVGKPAA
NRAFVSMVYSEEGAEDRTFARVIVGGSSEYKINNKVVLHEYSEELEKLGILIKARNFLVFQGAVESIAMKNPKE
RTALFEEISRSGLAQEYDKRKKEMVKAEDTQFNYHRKKNIAAERKEAKQEKEEADRYQRLKDEVVRAQVQLQL
FKLYHNEVEIEKLNKELASKNKEIEKDKKRMDELEKELGKMMREQQIEKEIKEKDSLELNQKRPQYIK
AKENTSHKIKKLEAAKKSQNAQKHKKRKGDMDELEKELMSVEKARQEFEEERMEESQSQGRDLTLEENQVKKY
HRLKEEASKRAATLAQELEKFNDRDQKADQDRDLDEERKKVETEAKIKQKLREIEENQKRIEKLEEYITTSQSLE
EQKKLEGEELTEEVEMAKRRIDEINKELNQVMEQLGDARIDRQESSRQQRKAEIMESIKRLYPGSVYGRDLIDLCQP
TQKKYQIAVTKVLGKNMDAIIVDSEKTGRDCIQYIKEQRGEPETFLPLDYLEVKPTDEKLERELKGAKLVIDVIRY
EPPHIKKALQYACGNALVCDNVEDARRIAFGGHQRHKTVALDGTFLFQKSGVISGGASDLKAKARRWDEKAVDKLK
EKKERLTEELKEQMKAKRKEAELRQVQSQAHLQMLKYSQSDLEQTKTRHLALNLQEKSKLESELANFGPRIND
IKRIIQSREREMKDLKEKMNQVEDEVFEEFCREIGVRNIREFEEEEKVKRQNEIAKKRLEFENQKTRLGIQLDFEK
NQLKEDQDKVHMWEQTVKKDENEIEKLEKKEEQRMKIIDEETMAQLQDLKNQHLAKKSEVNDKNHEMEEIRKKLGG
ANKEMTHLQKEVTAIETKLEQKRSDRHNLQACKMQDIKPLPSKGTMDDISQEEGSSQGEDSVSGSQRISSIIYAR
EALIEIDYGDLCEDLKDAQAEIEIKQEMNTLQQKLNEQQSVLQRIAAPNMKAMEKLESVRDKFQETSDEFEAARK
RAKKAKQAFEQIKKERFDRFNACFESVATNIDEIYKALSRNSSAQAF LGPENPEEPYLDGINYNVCVAPGKRFRPM
DNLSGGEKTVAALALLFAIHSYKPAPFFVLDEIDAALDNTNIGKVANYIKEQSTCNFQAIVISLKEEFYTKAESL
IGVYPEQGDVCVISKVLTFDLTYPDANPNPNEQ

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FIGURE 6194

CCGGGACGTACGTGGACTGGGGCCGGATA**ATG**GCGGGCGCTGCAGAAGATGCGCGAGCTCTTTTCCGGGCTGGG
GTCTGCGCGGCCCTGGAGGCCTGGCCGGCCTTGCAGATCGCTGTGGAGAATGGCTTCGGGGGTGTGCACAGCCAG
GAGAAGGCCAAGTGGCTGGGGGGTGCAGTGGAGGATTACTTCATGCGCAATGCTGACTTGGAGCTAGATGAGGTG
GAAGACTTCCTTGGAGAGCTGTTGACCAACGAGTTTGATACAGTTGTGGAAGACGGGAGTCTGCCCCAGGTGAGC
CAGCAACTGCAGACCATGTTCCACCACTTCCAGAGGGGTGATGGGGCTGCTCTGAGGGAGATGGCCTCCTGCATC
ACTCAGAGAAAATGCAAGGTCACAGCCACTGCACTTAAGACAGCTAGAGAGACTGATGAGGATGAAGATGATGTG
GACAGTGTGGAAGAGATGGAGGTCACAGCTACGAATGATGGGGCTGCTACAGATGGGGTCTGCCCCCAGCCTGAA
CCCTCTGATCCAGACGCTCAGACTATTAAGGAAGAGGATATAGTGGAAGATGGCTGGACCATTGTCCGGAGAAAA
AAAT**TGA**TGGGGATGATTGGAAATGGCTTTGGGCCCTTATTTGCTGTTCTAAGAGTTGTCTGTAGGGGTTTTTTT
TTTGAGGATTGCAGACCTGTGGACTGGTTACCCCATCTCCACCTCTCCCCTGTTCTCTGTCTGGCTCCCTCCA
GGGCAAGGAAAACCTAGGGTCCTTGGTCTTGGGGGTGGGGGGACCTTTTCCAGCATATCCCCTGGGCCTTTAGT
TAACATCCGAGTGACGAAGCCGGTTCCCCAGTACAGTGTCTTTGGGTGCGGTCATTGTGAGGAAGGGGATGAG
TGAGTGTGGGTGTGGCTGGAGGAGGAGCTAGATGCCGTTGGACAGTGGGCAGCTGGATTGAGGAGGAGGATC
AGCAGCAGCAGCAGTACTCAGTGATAGGGGGCTGGCTGGGTGAGGAATGGTGAGATGAACATGCAAGTGAAGAG
AGAATAGTTGAAAATGTGAATGAAAGTAGCTCTGGAGCCTCTCCCTTACCCACCCACACACACGCAACAGCTC
TGTACCCCTGCCCAGAACTTGGAACCTCCCAGGAATGCTGCCTTCCTTCAGCCCAGCCTCCAGTCCTGGGTTCCC
TCAGGAATTGCAAGACCTTGGCTAGGTGGTGAGCTTGAAGAGCTGGGCTTTGTTTTCTGTCTCCTCTAACCTCT
TTCCTTACTCCTTATCCCATCCCATTTGAGTTCAGGGGTGAGGCTTAAGATCTTAATAAATAATACCTTACTGCT
TAATCTGTGGCTTGACCTGTGAGTAGTAGCCTTAGAATCAGCCTTCTGGGAGCTCAGCTTCAGAGTTTACAAGG
AGCAGTTTCTGGGCCCCACCCTAGCAGCCTGGTACTTTGGACAACCAAACAGATGAACGAACGGAGCACAGCAGTG
CTATGAAAGTTACTGTAAAGCCTGAAATAAACTGTATTTTTCT

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FIGURE 6195

MAGAAEDARALFRAGVCAALEAWPALQIAVENGFGGVHSQEKAKWLGGAVEDYFMRNADLELDEVEDFLGELLTN
EFDTVVEDGSLPQVSQQLQTMFHHFORGDGAALREMA SCITQRKCKVTATALKTARETDEDEDDVDSVEEMEVTA
TNDGAATDGVCPPQPEPSDPDAQTIKEEDIVEDGWTIVRRKK

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FIGURE 6196

GATCCGGAAGTCGGAGCCTAGCTGCGCGAGAGTTTCTGCTCGCTCAACCGAGTTGTCTGTGTCCTCGCTTCTC
AGATCCCCCGCCGGAAGTGAAGAGAGCAAGCAGATTTGAACCTATCTGCTTTCAAGCTGGTCATCATGATGAAACT
TAGACACAAAAATAAAAAGCCAGGTGAAGGTTCCAAGGGCCACAAGAAGATAAGTTGGCCCTACCCTCAGCCTGC
AAAGCAAAATGGGAAGAAAGCAACCTCCAAAGTGCCCTCTGCACCTCATTTTGTTCACCCCAATGATCATGCCAA
TCGAGAGGCTGAATTAAGAAGAAAGTGGGTTGAGGAGATGAGGGAGAAGCAGCAAGCCGCCGGGAGCAAGAAAG
ACAAAACGCAGGACCATTGAGAGCTACTGTCAGGATGTCTAAGACGCCAGGAGGAGTTTGAGCATAAGGAGGA
AGTTTTGCAGGAATTAATATGTTTCCTCAGCTGGATGACGAGGCCACGAGGAAGGCTTATTACAAGGAGTTCCG
TAAGGTGGTGAATACTCTGATGTGATTCTGGAAGTCTGGATGCCAGAGACCCATTAGGCTGCCGCTGCTTCCA
AATGGAGGAGGCTGTCTGCGAGCACAAGGCAACAAGAAGCTGGTCTTGAACAAGATTGACCTGGTCCC
CAAGGAGGTTGTGGAGAAATGGCTGGATTACCTTCGGAATGAGTTGCCAACCCTGGCTTTCAAGGCCAGTACCCA
GCATCAGGTCAAAAACCTGAATCGTTGCAGTGTGCCAGTAGATCAGGCCCTCTGAGTCACTGCTGAAAAGCAAAGC
CTGCTTTGGAGCTGAAAACCTCATGAGGGTTCTGGGGAACCTATTGCCGCCTTGGTGAAGTGCGCACCCACATTCCG
TGTGGGTGTTGTGGGTCTTCCCAATGTTGGGAAGAGCAGCCTGATCAATAGCCTGAAGCGCAGCCGCGCATGCAG
CGTGGGAGCTGTTCTTGGAAATTACCAAATTCATGCAGGAGGTCTACCTGGACAAGTTTCATCCGGCTCTTGGATGC
TCCAGGCATTGTCCCAGGGCCCAACTCAGAGGTGGGCACCATCCTGCGTAAGTGCCTCCAGTGCAGAAAGCTGGC
AGACCCTGTGACCCAGTGGAGACCATCCTGCAGCGCTGCAACCTGGAGGAGATTTCCAACCTATTATGGCGTCTC
TGGGTTCCAGACCACTGAGCACTTTCTGACGGCAGTGGCCACCGTTTGGGGAAGAAGAAGAAGGGAGGCTTATA
TAGTCAGGAACAGGCGGCCAAAGCTGTCTAGCTGACTGGGTGAGCGGGAAGATCAGCTTCTATATACCACCACC
AGCCACTCACACTCTGCCCACCCATCTCAGTGCTGAGATCGTTAAGGAAATGACCGAGGTCTTTGACATCGAGGA
TACTGAGCAGGCCAATGAAGACACCATGGAATGCTTGGCCACCGGAGAATCTGATGAGCTGTTGGGTGACACGGA
CCCCTTGAAATGGAGATCAAGTTGCTCCATTCTCCGATGACGAAAATAGCAGATGCCATTGAAAATAAAACCA
CGTGTATAAGATTGGAGATCTCACTGGGTATTGCACCAATCCGAACCGTCATCAGATGGGGTGGGCTAAACGCAA
TGTGGACCACCGCCCTAAGAGCAACAGTATGGTGGATGTCTGCTCAGTGGACCGCCGCTCAGTGCTGCAGAGGAT
CATGGAGACGGACCCCTGCAACAGGGCCAGGCTCTGGCATCTGCCCTGAAAAATAAGAAGAAGATGCAGAAACG
TGCAGATAAAATCGCCAGCAAGCTGTCTGATTCCATGATGTCTGCTCTCGACCTCTCTGGCAATGCTGATGATGG
TGTTGGTGACTAATCGACTGATCTCACTTCCCTTCCGCTCCAAGCACCAGTTCCGGTGGTACGGGGGAATACCAG
TGAAATAGTTTGGTTCTCCCTGAAGCATCTGCATATTGAAAGAACGCTTTCCCCACTGTGTGTCTTCTCCCCCTC
CTCCAGTAAAAACAGTCCCGGCTAGGTGCTGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGG
CAGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAA
AAAATTTAGCCGTGCTTAGTGGCACCTATAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCT
GGGAGACTAAGGCAGGAGAATCGCCTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCCAGACGGCACCATTGCACT
CTAGCCTGGGCAACAACACGAAACTCCGTCCC

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FIGURE 6197

TAGAGAAGGCAGACGCATCCCGAACTCGCTGGAGGACAAGGCTCAGCTCTTGCCAGGCCAAATTGAGAC**ATGTCT**
GACACAAGCGAGAGTGGTGCAGGTCTAACTCGCTTCCAGGCTGAAGCCTCAGAAAAGGACAGTAGCTCGATGATG
CAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAAGGCACTGGAGGTCTCA
GAGGATGTGAAGGTCTCAAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCAAAGACCCCCAGAGGCTCGGGAG
GCACCTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAGCTGAAAACAAGAGTCTA
GCAGCTGACACCAAGAAACAGAATGCTGACCCGCGAGGCTGTGACAATGCCTGCCACTGAGACCAAAAAGGTGAGC
CATGTGGCTGATACAAAGGTCAATACAAAGGCTCAGGAGACTGAGGCTGCACCCCTCTCAGGCCCCAGCAGATGAA
CCTGAGCCTGAGAGTGACAGCTGCCCAGTCTCAGGAGAATCAGGATACTCGGCCCAAGGTCAAAGCCAAGAAAGCC
CGAAAGGTGAAGCATCTGGATGGGGAAGAGGATGGCAGCAGTGATCAGAGTCAGGCTTCTGGAACCACAGGTGGC
CGAAGGGTCTCAAAGGCCCTAATGGCCTCAATGGCCCGCAGGGCTTCAAGGGGTCCCATAGCCTTTTGGGCCCGC
AGGGCATCAAGGACTCGGTTGGCTGCTTGGGCCCGGAGAGCCTTGCTCTCCCTGAGATCACCTAAAGCCCGTAGG
GGCAAGGCTCGCCGTAGAGCTGCCAAGCTCCAGTCATCCCAAGAGCCTGAAGCACCACCACCTCGGGATGTGGCC
CTTTTGCAAGGGAGGGCAAATGATTTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATTTCCCATCAAGCGC
TCGGACATGCTGAAGGACATCATCAAAGAATACTGATGTGTACCCCGAAATCATTGAACGAGCAGGCTATTCC
TTGGAGAAGGTATTTGGGATTCAATTGAAGGAAATTGATAAGAATGACCACTTGATACATTCTTCTCAGCACCTTA
GAGCCCACTGATGCAGGCATACTGGGAACGACTAAGGACTCACCCAAGCTGGGTCTGCTCATGGTGCTTCTTAGC
ATCATCTTCATGAATGGAAATCGGTCCAGTGAGGCTGTCATCTGGGAGGTGCTGCGCAAGTTGGGGCTGCGCCCT
GGGATACATCATTCACTCTTTGGGGACGTGAAGAAGCTCATCACTGATGAGTTTGTGAAGCAGAAGTACCTGGAC
TATGCCAGAGTCCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGGGCCTGCGCTCTTACTATGAGACCAGC
AAGATGAAAGTCCTCAAGTTTGCCTGCAAGGTACAAAAGAAGGATCCCAAGGAATGGGCAGCTCAGTACCGAGAG
GCGATGGAAGCGGATTTGAAGGCTGCAGCTGAGGCTGCAGCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGA
ATGGGCATTGGGCTCGGCTCGGAGAATGCTGCCGGGCCCTGCAACTGGGACGAAGCTGATATCGGACCCTGGGCC
AAAGCCCGGATCCAGGCGGGAGCAGAAGCTAAAGCCAAAGCCCAAGAGAGTGGCAGTGCCAGCACTGGTGCCAGT
ACCAGTACCAATAACAGTGCCAGTGCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCC
ACTCTCACATTTGGGCTCTTCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCCCTGTGGT
TTCTCCTACAAG**TGAG**ATTTTAGATATTGTTAATCCTGCCAGTCTTTCTCTTCAAGCCAGGGTGCATCCTCAGAA
ACCTATCCAACACAGCACTCTAGGCAGCCACT

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FIGURE 6198

MSDTSESGAGLTRFQAEASEKDSSSMQTLTQNVETPETPKASKALEVSEDVKVSKASGVSKATEVSKTPEA
REAPATQASSTTQLTDTQVLAAENKSLAADTKKQADPQAVTMPATETKKVSHVADTKVNTKAQETEAAPSQAPA
DEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGGRRVSKALMASMARRASRGPIAFW
ARRASRTRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLQGRANDLVKYLLAKDQTKIP I
KRSDMLKDIIKEYTDVYPEIIERAGYSLEKVFGIQLKEIDKNDHLYILLSTLEPTDAGILGTTKDSPKLGLLMVL
LSIIFMNGNRSSEAVIWEVLRKLGLRPGIHHS�FGDVKKLITDEFVKQKYLDYARVPNSNPPEYEFFWGLRSYYE
TSKMKVLKFACKVQKKDPKEWAAQYREAMEADLKAEEAEAEAKARAEIRARMGIGLSENAAGPCNWDEADIGP
WAKARIQAGAEAKAKAQESGSASTGASTSTNNSASASASTSGGFSAGASLTATLTFGLFAGLGAGASTSGSSGA
CGFSYK

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FIGURE 6199

TGGCCAACTTCTGAACAGGAAGCAGTTCGCTCGCGCCTAGGTTGGCGCGGGCTGGGAGGTGTTCCAGCCCTTTAA
GATGTTTGGCGGTGGTGAGCTGGAACATCAATGGGATTCGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAG
CAACTGTGCCGCCGTGGCCGTGGGGCGCATTTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGGAAACCAA
AGTGACCAGGGATGCACTGACAGAGCCCCCTGGCTATCGTTGAGGGTTATAACTCCTATTTTCAGCTTCAGCCGCAA
CCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGGACAATGCTACCCCAGTGGCTGCTGAAGAAGGCCTGAG
TGGCCTGTTTGGCACCCAGAATGGGGATGTTGGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACTCCG
GGCTCTGGATAGTGAGGGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGAAGACCTT
GACCCTAATCAACGTGTAAGTCCCCCATGCGGACCCCTGGGAGGCCTGAGCGGCTAGTCTTTAAGATGCGCTTCTA
TCGTTTGTGTGAAATCCGAGCAGAAGCCCTCCTGGCGGCAGGCAGCCATGTGATCATTCTGGGTGACCTGAATAC
AGCCACCGCCCCATTGACCACTGGGATGCAGTCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGAT
GGACAGCTTGCTCAGTAACCTTGGGGTGCCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACCGCTGCTT
CCAACCAAAGCAGGAGGGGGCCTTCACCTGCTGGTTCAGCAGTCACTGGCGCCCGCCATCTCAACTATGGCTCCCC
GCTTGACTATGTGCTGGGGGACAGGACCCCTGGTTCATAGACACCTTTCAGGCCTCTTTCCTGCTGCCTGAGGTGAT
GGGCTCTGACCACTGCCCTGTGGGTGCAGTCTTGAGTGTGTCTCTGTGCTGCAAACAGTGGCCACCTCTGTG
CACCCGCTTCTCCTGAGTTTGCAGGCACCCAGCTCAAGATCCTTCGCTTCTAGTTCTCTCGAACAAAGTCC
TGTGTTGGAGCAGTCGACGCTGCAGCACAACAATCAAACCCGGGTACAGACATGCCAAAACAAAGCCCCAAGTGCG
CTCAACCAGGCCTCAGCCCAGTCAGGTTGGCTCTAGCAGAGGCCAGAAAAACCTGAAGAGCTACTTTCAGCCCTC
CCCTAGCTGTCCCCAAGCCTCTCCTGACATAGAGCTGCCTAGCCTACCACTGATGAGCGCCCTCATGACCCCGAA
GACTCCAGAAGAGAAGGCAGTGGCCAAAGTGGTGAAGGGGCAGGCCAAGACTTCAGAAGCCAAAGATGAGAAGGA
GTTACGGACCTCATTTCTGGAAGTCTGTGCTGGCGGGGGCCCTTGCGCACACCCCTCTGTGGGGGCCACAGGGAGCC
ATGTGTGATGCGTACTGTGAAGAAGCCAGGACCCAACTTGGGCCGCGCTTCTACATGTGTGCCAGGCCCCGGGG
TCCTCCCACTGACCCCTCCTCCCGGTGCAACTTCTTCTCTGGAGCAGGCCCAGCT**TGA**ACCAATGGAGGCCTGGG
GACATCTGGCATGGTCACCCCTGCACATGATCTGAGGCCAGCTCCCTTCCCTGAGCTGCCTCTGCTTCTCCCT
CAAAGTCTCCTACCCTTCTTCTCCTCTTTTAAGCCCTCTTCTCCTCGCTTCTTCTTCTACCTAGCTCCTTGTGG
TGAGCTTCTTGTGCCTTAATCCTGTGACCCAGCCCTTACACCACTTCCACCTTCTGTCCGAAGTACACGGAC
ACTAGCTGCCCCAGGAAGTTGTGTGATTTTAAATCACTTCTGTCTTTGCTGGAAAGTGATTTGTGCATAAATAA
AGTCTGTGTATTTGTTTCAGGGTTGCAAAAAAAAAAAAAAAAAA

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FIGURE 6200

MLRVVSWNINGIRRPLQGVANQEPSNCAAVAVGRILDELDADIVCLQETKVTRDALTEPLAIVEGYNSYFSFSRN
RSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKIRTWEGKEKTL
TLINVYCPHADPGRPERLVFKMRFYRLLQIRAEALLAAGSHVILGDLNTAHRPIDHWDVNLECFEEDPGRKWM
DSLLSNLGCQSASHVGPFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVLGDRTLVIDTFQASFLLPEVM
GSDHCPVGAVLSVSSVPAKQCPLCTRFLPEFAGTQLKILRFLVPLEQSPVLEQSTLQHNNQTRVQTCQNKQVR
STRPQPSQVGSSRGQKNLKSYPSPSCPQASPDIELPSLPLMSALMTPKTPEEKAVAKVVKGAKTSEAKDEKE
LRTSFWKSVLAGPLRTPLCGGHREPCVMRTVKKPGPNLGRRFYMCARPRGPPTDPSSRCNFFLWSRPS

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FIGURE 6201

GCCACCGCCAGCAGGGAGGCGGAGGGCTAGCGAGCCAAGCGGTGGGGACGCCGCTGCCTTCCTCTTTGCCTGTCT
CGCCGCCCTCCTAGACACGCTCCTCATCTACGGATCCTACCCTCCCCGCTCTTGCAAGCATTCACTCGGCCGGTC
GCCTGCTGACCCTCCTTCGCCACAGGCTCGTAGCGGAGGCAGCAGCGAGCAGGCATGAAGACCCCCAACGCACAG
GAAGCCGAAGGGCAACAAACCAGGGCAGCTGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAAGTC
TCCCAAAGAAGCAGAGAGGCGACCTTCATCCCAGCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGA
TGGAAGGAAGGAGATGAGCCCATCACGCAGTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTT
TATCTGGTGAAATATGATGGAATTGACTGTGTCTATGGACTGGAAC TTCACAGAGATGAAAGGGTTTTGTCTCTT
AAAATTCTTTCTGACAGGGTGGCATCATCTCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCA
GTGGAACATATGTTTGAGGGAGAGCATGGTTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATC
ATGAAAGCCTGGTTTTATATTACCTATGAGAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAG
GAAGGTGACCTCCGCATCATGCCAGAATCCAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGAT
GGCTAATAGGTAAGCATGTGGAATATACCAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTCACCAAGTG
GAAGCCAAACCCTCTGTGTATTTTCATCAAGTTTGATGATGATTTCCATATCTATGTCTACGATTGGTGAAAAAG
TCCIAACTGTTAGGGTAAAATTTGGCACATGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGC
CTTTCAGTGTATTGAAAGCTTATGGAATCCCTGATAACTAAACATCTTTGCCAGCATTAAGTGTGTTTTGCTCT
AAAAAATACAACTTGTGTGTACATG

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FIGURE 6202

MKTPNAQEAEGQQTRAAAGRATGSANMTKKKVSQKKQGRPSSQPRRNIVGCRISHGWKEGDEPITQWKGTVLDQ
VPINPSLYLVKYDGIDCVYGLELHRDERVLSLKILSDRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGM
VLAQAPIMKAWFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTEREPGGVVDGLIGKHVEYTKEDGSKRI
GMVIHQVEAKPSVYFIKFDDDFHIYVYDLVKKS

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FIGURE 6203

GGCAGTGGGGGTTACAGACAGCACCAGAGGCACTCAGGGCAGGAGGGTAGTGGGTGCTGGTCAAGGCCGCTTTGC
AGGGGATTGGGAGTGGATGCTAGTGGCAGTAAAGGGTAAAGGGAGGGCAGTGGGCTCTGAGCTAGGAGGAGGTGG
CCCAGCCACTTCTGCAGAGTTCCTAACCCAGACAGCTCTACTGCACCACCCAGCCCTTCCCCACAGCCCAAAG
GAACTTAAGAGGGAGAGCACTGCGGGCATGCAGCCAGGATTTCCAGCATTGCTTCCAGGCTCCTAGGGGAAACTT
AGGCACTAGCGCAGACTACATCCAGACATGGCTATAGGGAAAAGTTTGCCTTGTGGCACACTGGGTGTGTCTCTC
TATCCTCTCTCCTCCCCAGCAGGCATGAAGACCCCCAACGCACAGGAAGCCGAAGGGCAACAAACCAGGGCAGC
TGCAGGACGGGGCACTGGGTCTGCAAACATGACAAAGAAAAAAGTCTCCCAAAGAAGCAGAGAGGGCCGACCTTC
ATCCCAGCCCCGCAGGAACATCGTGGGCTGCAGAAATTTCTCATGGATGGAAGGAAGGAGATGAGCCCATCACGCA
GTGGAAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTTTATCTGGTGAAATATGATGGAATTGACTG
TGTCTATGGACTGGAACCTTCACAGAGATGAAAGGGTTTTGTCTCTTAAATTCCTTCTGACAGGGTGGCATCATC
TCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCAGTGGAACACATGTTTGAGGGAGAGCATGG
TTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATCATGAAAGCCTGGTTTTATATTACCTATGA
GAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAGGAAGGTGACCTCCGCATCATGCCAGAATC
CAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGATGGCCTAATAGGTAAGCATGTGGAATATAC
CAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTCACCAAGTGGAACCAAACCCCTCTGTGTATTTTCATCAA
GTTTGATGATGATTTCCATATCTATGTCTACGATTTGGTGAAAAAGTCTTAAGTGTAGGGTAAAAATTTGGCACA
TGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGCCTTTCAGTGTACTGAAAGCTTATGGAATC
CCTGATAACTAAACATCTTTGCCAGCATTAAGTGTGTTTTGCTCTAAAAAATACAAATTTGTGAATACATGACA
TGCTGTCTGTAAGCCCTTTGTCTTGTGAAAAGTTCGGGTGTGTTTGGTAGATGGGGCATGGAAGGAACGAACAG
CTGTCAATTTCCGCTGTGAATAAAGTTCAGCTAGAATCATAATCAGTCATTTAAAAATGGCACTGGATTTAGCTG
GTCTGGTCTGGAGGGGGCAGGGGAAGGAACAAGAGATTGGCTGTCTTGGGGAGAGAGGAGGAGGTGACTGCTTAG
GAAGAGGTGGAAGGGCCAGAAAGGGAGGGGCTCCTTGGGGGAGGGGATGACCTATGAGAAGGAAACATCCAAC
TCAGAAGGAAGACTAACAGAGGGAGAGTGAGATCTTGGGGCTTAGAGGAAAATAGAATAAACTGAGTAGAGAGGA
ACACAAAGAAGCTTAGAAGAGGGTCCAGAGTAAGGTGGAGAAGGATCAACCTGACAGGGATCTGGGAGAGGCTAA
AGGATACACAAAGGAAGAGGCTATGTGGGTTAGGGTGTGGAGGGATTAGAAGAGGGCCACTGAGGAAGGAGGAA
TTCAAAGAAGAAAGACTGACAGAGGGAGTGAGAATACAGGAAAAGAGTTGTGGGGTATGGGGCCCATGAGAGATC
GGAAGGCCCAGGAAAATGTTGGACTTCTGGTAGTGTCCACATTGCTCTTCTGGCTCTATGCACAAAGGAAGTGG
CAACTGTCAAAGATGCCAGATGCATTGGAGGTTCACTAGAAGAGCATGTTGACAGGAATGACTCAGTCAAGTTAA
TCAGGAGCCAAGTTTTATGCCATAAGGCTTTTCTGTTTCAGGGAGTTAATGACACACTTGTCCAGCAGAAACCC
AATGCTCAGCCTAAACACGCTAACATGGTGCCCCACATGTGCTGGGCTGTGGGCTGCCTCCTCACATTTGTCTTG
CGCTAGATAAGCAATCTTGGTAGAGGATGGGTAGTGGGGCTCTCAGAACTTAAGAGATGTGCCATCTTGCAATTT
GGAAAGTACTTTATCCAGAAAAAATGAAATCTTACTGAACTCAGGTACAGCAGTCTCATCACTCCTATTCCTTCT
GCTGGAATGTTTGTCTTCTATCTAGAGATGAGGGGCATCAGAGGACTGAGCCTAGTGTCTCTCGAG

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FIGURE 6204

GGTAGCAGGAGGCTGGAAGAAAGGACAGAAGTAGCTCTGGCTGTG**ATC**GGGATCTTACTGGGCCTGCTACTCCTG
GGGCACCTAACAGTGGACACTTATGGCCGTCCCATCCTGGAAGTGCCAGAGAGTGTAACAGGACCTTGGAAGGG
GATGTGAATCTTCCCTGCACCTATGACCCCTGCAAGGCTACACCCAAGTCTTGGTGAAAGTGGCTGGTACAACGT
GGCTCAGACCCTGTACCATCTTTCTACGTGACTCTTCTGGAGACCATATCCAGCAGGCCAAAGTACCAGGGCCGC
CTGCATGTGAGCCACAAGGTTCCAGGAGATGTATCCCTCCAATTGAGCACCCCTGGAGATGGATGACCGGAGCCAC
TACACGTGTGAAGTCACCTGGCAGACTCCTGATGGCAACCAAGTCGTGAGAGATAAGATTACTGAGCTCCGTGTC
CAGAAACTCTCTGTCTCCAAGCCACAGTGACAACCTGGCAGCGGTTATGGCTTCACGGTGCCCCAGGGAATGAGG
ATTAGCCTTCAATGCCAGGCTCGGGGTTCTCCTCCCATCAGTTATATTTGGTATAAGCAACAGACTAATAACCAG
GAACCCATCAAAGTAGCAACCCCTAAGTACCTTACTCTTCAAGCCTGCGGTGATAGCCGACTCAGGCTCCTATTTTC
TGCACTGCCAAGGGCCAGGTTGGCTCTGAGCAGCACAGCGACATTGTGAAGTTTGTGGTCAAAGACTCCTCAAAG
CTACTCAAGACCAAGACTGAGGCACCTACAACCATGACATACCCCTTGAAAGCAACATCTACAGTGAAGCAGTCC
TGGGACTGGACCACTGACATGGATGGCTACCTTGGAGAGACCAGTGCTGGGCCAGGAAAGAGCCTGCCTGTCTTT
GCCATCATCCTCATCATCTCCTTGTGCTGTATGGTGGTTTTTACCATGGCCTATATCATGCTCTGTGCGGAAGACA
TCCCAACAAGAGCATGTCTACGAAGCAGCCAGGGCACATGCCAGAGAGGCCAACGACTCTGGAGAAACCATGAGG
GTGGCCATCTTCGCAAGTGGCTGCTCCAGTGATGAGCCAACCTCCCAGAATCTGGGCAACAACCTACTCTGATGAG
CCCTGCATAGGACAGGAGTACCAGATCATCGCCAGATCAATGGCAACTACGCCCGCCTGCTGGACACAGTTCCT
CTGGATTATGAGTTTCTGGCCACTGAGGGCAAAAGTGTCTGT**TAAAAA**TGCCCCATTAGGCCAGGATCTGCTGAC
ATAATTGCCTAGTCAGTCCTTGCCTTCTGCATGGCCTTCTTCCCTGCTACCTCTCTTCCCTGGATAGCCCCAAAGTG
TCCGCCTACCAACACTGGAGCCGCTGGGAGTCACTGGCTTTGCCCTGGAATTTGCCAGATGCATCTCAAGTAAGC
CAGCTGCTGGATTTGGCTCTGGGCCCTTCTAGTATCTCTGCCGGGGGCTTCTGGTACTCCTCTCTAAATACCAGA
GGGAAGATGCCCATAGCACTAGGACTTGGTCATCATGCCTACAGACACTATTCAACTTTGGCATCTTGCCACCAG
AAGACCCGAGGGAGGCTCAGCTCTGCCAGCTCAGAGGACCAGCTATATCCAGGATCATTTCTCTTTCTTCAGGGC
CAGACAGCTTTTAATTGAAATTGTTATTTACAGGCCAGGGTTCAGTTCTGCTCCTCCACTATAAGTCTAATGTT
CTGACTCTCTCCTGGTGCTCAATAAAATATCTAATCATAACAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6205

MGILLGLLLLGHLLTVDTYGRPILEVPESVTGPWKGDVNLPC TYDPLQGYTQVLVKWLVQRGSDPVTIFLRDSSGD
HIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPTVTTGSG
YGFTVPQGMRI SLQCQARGSPPI SYIWYKQQTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQVGSEQHSDI
VKFVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTDDMDGYLGETSAGPGKSLPVFAIILIISLCCMVVFT
MAYIMLCRKTSQQEHVYEAAAHAREANDSGETMRVAIFASGCSSDEPTSQNLGNNYSDEPCIGQEYQIIAQING
NYARLLDTVPLDYEF LATEGKSVC

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FIGURE 6206

CAGTAGTGCTAGCAGCTTCGCGGTTTCGGTCCCTCGGACCCGGCAGCCACCACTGGTGCTGAGCTGCTAGGAAGCCC
CTATCGGCGAGCTCTTTGGAGCTTGAACCCATTGTCACTCCTCCGACTCACCGGAAAAACAAAAATGGGTGAA
GCAGATCGCCTAGGAAAGTTTTTCATTGGTGGGCTTAATACGGAAACAAATAAGAAAGCTCTTGAAGCAGTATTT
GGCAAATATGGACAAATAGTGGAAGTACACTTGATGAAAGACTGTGAAACCAACAAATCAAGAGGATTTGCTTTT
ATCACCTTTGAAAGACCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCC
ATCAAGGTGGAACAAGCCACCAAACCGTCATTTGAAAGTGGTAGACGTGGACCGCCTCCACCTCCAAGAAGTAGA
GGCCCTCCAAGAGTTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGAACCTCCCTCACGGGGAGGACAC
ATGGATGACTGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTCCCAGTAAAAAGAGGACC
ACCACCAAGAAGTGGGGGTCTTCCTCCTAAGAGATCTGCACCTTCAGGACCAGTTTCGCAGTAGCAGTGGAATGGG
AGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACCGAGGTCCACCTCGAAGGGAATCGCTGCCCTCTTGATAG
AGAGCTCCACCTACACGAGGGCGCCCCATCTTATGGTGGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTG
ACGGATATGGTGGGAAGTCGAGACAGTTACTCAAGCAGTCGAAGTGATCTCTACTCAAGTGGTCGTGATCAGGTTG
GCAGACAAGAAAGAGGGCTTCCCCCTTCTATGGAAAGGGGGTACCCTCCTCCACGTGATTCTTACAGCAGTTCAA
GCCGTGGAACACCAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGA
AACAAACAAAACCTTTGTACCAAAATCCCAGTTCAAAGAAACAAAAAGTGGAAACTATTCTATCATAACTACCCAA
GAACTACTAAAAGGAAAAATTGTGTTACCTTTTTTAAAATTCCCTGTTAAGCTCCCCTCCATAATTTTTTATGTTT
TTGTGAGGAAAAAAGTAAACATGTTTAATTTTATTTGACTTTTGCAATTGCTTTTCAACAAGCAAATGTTAAAT
GTGTTAAGACTTATACTAGTGTTGTAACCTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTTT
CCAGTAAATGAGGCAGGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTC
TACCTACACAAACAAGCTAGCTATTAGAGGGTGGTTGGGATATGCTACTCATAAGATTTTCAAGGTGTCTTCCAAC
TGAAATCTCAATGTTCTTAGTATGAAAAACCTGAAATCGCATGCCTATTACCCAGTAAACCCAAAAAAGCAAAT
GGATAATGCTGGCCATTCTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCCTCCCCAA
TAAGACCATTTAAGTGTGTGCTAAACAATAAGAATACTAAATAAAATGTTTGGCCAAAACC

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FIGURE 6207A

GGCCAGCCGAATCCAAGCCGTGTGTACTGCGTGCTCAGCACTGCCCCGACAGTCCTAGCTAAACTTCGCCAACTCC
GCTGCCTTTGCCGCCACC**ATG**CCCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCC
ATCCAGCCCCAACACCACCGGAAGCAGCTATTTGACCAGGTGGTGAAAACCTATTGGCTTGAGGGAAGTTTGTTT
TTTGGTCTGCAGTACCAGGACACTAAAGGTTTCTCCACCTGGCTGAAAACCTCAATAAGAAGGTGACTGCCCAGGAT
GTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTCGGTGCCAAGTTCTACCTGAGGATGTGTCCGAGGAATTGATT
CAGGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAAGAGGGCATTCTCAATGATGATATTTACTGCCCCCCT
GAGACCGCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCGACTTCAATAAGGAAGTGCATAAGTCT
GGCTACCTGGCCGGAGACAAAGTTGCTCCCCGAGAGAGTCTTGAACAGCACAAACTCAACAAGGACCAGTGGGAG
GAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGGAGGATGCTGTCTCGGAATATCTGAAGATT
GCTCAAGATCTGGAGATGTATGGTGTGAAGTACTTTCAGCATCAAGAACAAGAAAGGCTCAGAGCTGTGGCTGGGG
GTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGACTAAGTCCCAAGATAGGCTTCCCCTGGAGTGAA
ATCAGGAACATCTCTTTCAATGATAAGAAATTTGTTCATCAAGCCATTGACAAAAAGCCCCGACTTCGTCTTC
TATGCTCCCCGGCTGCGGATTAACAAGCGGATCTTGGCCTTGTGCATGGGGAACCATGAACTATACATGCGCCGT
CGCAAGCCTGATACCATTGAGGTGCAGCAGATGAAGGCACAGGCCCGGGAGGAGAAGCACCAGAAGCAGATGGAG
CGTGCTATGCTGGAAGATGAGAAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAAGAGAAGATTGAACGGGAGAAG
GAGGAGCTGATGGAGAGGCTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAAGTGAAGAACAGACC
CGTAGGGCTCTGGAAGTTGAGCAGGAACGGAAGCGTGCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAA
GAAGCTGAAGAGGCCAAGGAGGCCCTTGCTGCAGGCCCTCCCGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTG
GAAATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCCGACAGAAGAAGGAGAGTGAGGCTGTGGAG
TGGCAGCAGAAGGCCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATGAGTACA
CCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCTGACCTA
CGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAACGTACCCTGAGGCAGAGAAGAATGAGCGTGTGCAG
AAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAAGAAGACTGCCAATGACATGATC
CATGCTGAGAACATGCGACTGGGCCGAGACAAATACAAGACCCTGCGCCAGATCCGGCAGGGCAACACCAAGCAG
CGCATTGACGAATTTGAGTCTATG**TAAT**GGGCGACCCAGCCTCTAGGGACCCCTCCTCCCTTTTTCTTGTCCCCA
CACTCCTACACCTAACTCACCTAACTCATACTGTGCTGGAGCCACTAACTAGAGCAGCCCTGGAGTCAATGCCAAG
CATTTAATGTAGCCATGGGACCAAACTAGCCCCCTTAGCCCCCACCCTTCCCTGGGCAAAATGAATGGCTCACT
ATGGTGCCAATGGAACCTCCTTTCTCTTCTCTGTTCCATTGAATCTGTATGGCTAGAATATCCTACTTCTCCAGC
CTAGAGGTACTTTCCACTTGATTTTGCAAATGCCCTTACACTTACTGTTGTCTATGGGAGTCAAGTGTGGAGTA
GGTTGGAAGCTAGCTCCCCCTCCTCTCCCCCTACCCTGTCTTCTTCAGGGTCTGAGATTTACACGTTGGAGTGT
TATGCGGTCTAGGGAATGAGACAGGACCTAGGATATCTTCTCCAGGATGTCAACTGACCTAAAAATTTGCCCTCCC
ATCCCGTTTTAGAGTTATTTAGGCTTTGTAAACGATTGGGGGATAAAAAGATGTTTCAGTCATTTTGTCTTCTACCTC
CCAGATCGGATCTGTTGCAAACTCAGCCTCAATAAGCCTTGTCTGTTGACTTTAGGGACTCAATTTCTCCCCAGGG
TGGATGGGGGAAATGGTGCCTTCAAGACCTTCACCAAACATACTAGAAGGGCATTGGCCATTCTATTGTGGCAAG
GCTGAGTAGAAGATCCTACCCCAATTCCTTGTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTA
CCCCTTACTTATTATTCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCT
CCAGCTATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATAT
GTTACACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGCTCTCTTCCCCTCTCAGAGCTACTTGGGGCATA
GCTCCTGCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCA
AAAAGCTGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCC
TTCTCATCACTCCCCCTCCAAAGAGGTGACTGGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACAC
CAGCTGTTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCAC
CCCTTGCTCTCAACCCAGGAGCATCCACCTCCTTCTGTCTCATGTGTGCTCTTCTTCTTTCTACAGTATTATG
TACTCTACTGATATCTAAATATTGATTTCTGCCTTCCTTGCTAATGCACCATTAGAAGATATTAGTCTTGGGGCA
GGATGATTTTGGCCTCATTACTTTACCACCCCCACACCTGGAAAGCATATACTATATTACAAAATGACATTTTGC
CAAAATTATTAATATAAGAAGCTTTTCAGTATTAGTGATGTCATCTGTCACTATAGGTCATACAATCCATTCTTAA
AGTACTTGTTATTTGTTTTTATTATTACTGTTTGTCTTCTCCCCAGGGTTTCAGTCTCAAGGGGGCCATCCTGTCC
CACCATGCAGTGCCCCCTAGCTTAGAGCCTCCCTCAATTCCCCCCTGGCCACCACCCCCCACTCTGTGCCTGACCTT

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FIGURE 6207B

GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATATTGGCTAAATTGAAACCTGGA
ATTGTGGGGCAATCTATTAATAGCTGCCTTAAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGA
TTTTGTATTCAGGGGTTTTTTGTGTACTTTTTGGGTTTTTTAAAAATTGTTTTTGGAGGGGTTTATGCTCAATCC
ATGTTCTATTTCAAGTGCCAATAAAATTTAGGAAGACTTC

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FIGURE 6208

MPKTISVRVTTMDAELEFAIQPNTTGKQLFDQVVKTIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDVRKESP
LLFKFRAKFYPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPETAVLLASYAVQSKYGDFNKEVHKSGYLAGD
KLLPQRVLEQHKLNDQWEERIQVWHEEHRGMLREDAVLEYLKIAQDLEMYGVNYFSIKNKKGSELWLGVDALGL
NIYEQNDRLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRILALCMGNHELYMRRRKPDIT
EVQQMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMERLKQIEEQTKKAQQEELEEQTTRALEL
EQERKRAQSEAEKLAKERQEAEEAKEALLQASRDQKKTQEQLALEMAELTARISQLEMARQKKESEAVEWQQKAQ
MVQEDLEKTRAELKTAMSTPHVAEPAENEQDEQDENGAEASADLRADAMAKDRSEEERTTEAEKNERVQKHLKAL
TSELANARDESKKTANDMIHAENMRLGRDKYKTLRQIRQGNTKQRIDEFESM

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FIGURE 6209

TAGAAGATCCTACCCCAATTCCTTGTTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTACCCCTT
ACTTATTATTCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCTCCAGCT
ATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATATGTTTAC
ACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGGCCATAGCTCCT
GCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCAAAAAGC
TGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCCTTCTCA
TCACTCCCCCTCCAAAGAGGTGACTGGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACACCAGCTG
TTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCACCCCTTG
CTCTCAACCCAGGAGCATCCACCTCCTTCTCTGTCTCATGTGTGCTCTTCTTCTTTCAGTATTAGTGATGTCAT

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FIGURE 6210

GTGCGGAGCGGCGCGGCACAGAGCCTGTTGTTGAGCTCAGTATGTCGTGGGAATCCGGGGCCGGGCCAGGTCTAG
GTTCCCAGGGGATGGATCTCGTGTGGAGTGGTGGTACGGAAAGTGC GTTAAAGGGAAAGGGTCGTTGCCACTCT
CGGCCCACGGCATCGTGGTCGCCTGGCTCAGCAGGGCCGAGTGGGACCAGGTGACGGTTTATCTGTTCTGTGACG
ACCATAAAGTTGCAGCGGTACGCGCTTAACCGCATCACGGTGTGGAGGAGCAGGTGAGGCAACGAACTCCCTCTGG
CAGTGGCTTCTACTGCTGACCTGATACGCTGTAAGCTCTTGGATGTAAGTGGTGGCTTGGGCACTGATGAACTTA
GACTGCTCTATGGCATGGCATTGGTCAGGTTTGTGAATCTTATCTCAGAGAGGAAGACAAAGTTTGCCAAGGTCC
CCCTCAAGTGTCTGGCTCAAGAGGTAAATATTCCGGATTGGATTGTTGACCTTCGCCATGAGTTGACCCACAAGA
AAATGCCCCATATAAATGACTGCCGAGAGGCTGCTACTTTGTCTGGATTGGCTCCAGAAGACCTATTGGTGCC
GCCAACTGGAGAACAGCCTGAGAGAGACCTGGGAGTTGGAGGAGTTCAGGGAAGGGATAGAGGAAGAGGATCAAG
AGGAAGATAAGAACATTGTTGTTGATGACATCACAGAACAGAAACCAGAGCCTCAGGATGATGGGAAAAGTACGG
AGTCAGATGTAAAGGCCGATGGAGACAGCAAAGGCAGCGAAGAGGTGGATTCTCATTGCAAAAAGGCCCTGAGTC
ATAAAGAGCTATATGAAAGAGCCCGAGAACTGCTGGTATCATACGAAGAGGAGCAGTTTACGGTGTCTGGAGAAAT
TTAGGTATTTACCTAAGGCCATTAAGGCGTGAATAACCCGTCCCCACGTGTAGAATGTGTCTTGGCAGAGCTCA
AGGGCGTTACATGCGAGAACAGGGAGGCTGTGCTGGATGCTTTTCTGGATGATGGCTTCCTTGTCCCCACATTTG
AACAGTTGGCAGCTTTGCGATAGAATATGAAGATGGTCAGACTGAGGTCCAGAGAGGGGAAGGTACTGACCCAA
AGTCACACAAAAACGTGGACTTGAATGACGTCTGGTGCCTAAAGCCGTTCTCTCAGTTCTGGCAGCCCCCTGCTCA
GGGGCCTGCACTCCAGAACTTCACGCAGGCCCTATTGGAGAGGATGCTCTCTGAACTGCCAGCCTTGGGGATCA
GCGGGATCCGGCCTACCTACATCCTCAGATGGACCGTTGAACTGATCGTGGCCAACACCAAGACTGGACGGAATG
CTCGCCGATTTTCTGCGAGGCCAGTGGGAAGCAAGAAGGGGCTGGAGGCTGTTCAACTGCTCCGCCTCCCTTGACT
GGCCCCGGATGGTTGAGTCCTGCTTGGGCTCACCTTGCTGGGCCAGCCCCCAACTCCTTCGGATCATCTTCAAAG
CCATGGGGCAGGGCCTGCCAGACGAGGAGCAGGAGAAGCTGCTGCGCATCTGTTCCATTTATACCCAGAGTGGAG
AAAACAGCCTGGTGCAGGAGGGCTCTGAGGCCTCCCCATTGGGAAGTCTCCATATACACTAGACAGCCTGTATT
GGAGCGTCAAGCCAGCCAGCTCCAGCTTCGGGTCTGAAGCAAAGGCCAGCAACAGGAGGAGCAGGGCAGTGTTA
ATGATGTCAAGGAAGAGGAGAAGGAGGAGAAAGAGGTCTTGCCAGACCAGGTAGAGGAGGAGGAAGAAAATGATG
ACCAAGAGGAGGAAGAGGAGGATGAAGATGATGAAGATGATGAAGAGGAAGACAGAATGGAGGTGGGGCCTTTCT
CTACAGGGCAAGAGTCCCCCACTGCCGAGAATGCTAGGCTTCTGGCCCAGAAAAGAGGAGCTTTCAGGGCTCTG
CATGGCAGGTTAGCTCAGAAGACGTGCGATGGGACACATTTCCCTTAGGCCGAATGCCAGGTGACACCGAGGACC
CAGCAGAGCTCATGCTGGAGAATTATGACACCATGTATCTTTTGGACCAGCCTGTGCTAGAGCAGCGGCTGGAAC
CCTCAACATGCAAGACTGACACCTTGGGCCTGAGCTGTGGTGTGGCAGTGGCAACTGCAGCAACAGCAGCAGCA
GCAACTTCGAGGGCCTTCTCTGGAGCCAGGGGCAGCTGCATGGGCTCAAAACTGGCCTGCAGCTCTTCTGATGGC
CATCCCTGGTGAAGTGTTTCATCCAGCCGTGCCAGGGCAACAGCCCACCCCTAGTACAACCTGATGCTCCCTGAG
ACAACCTGGGAGACAGCCTGGATCAGCCACATCAACTCAGTTGTCCACCACAGGGGAATTTTGAATGTCTTTTGT
TTTTGTTTTGTTTTGAAAAATAATAAACAGGCAACTGT

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FIGURE 6211

MSWESGAGPGLGSQGMDLVWSAWYGKCVKGKGSPLSAHGIVVAWLSRAEWDQVTVYLFCDHKLQRYALNRITV
WRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLYGMALVRFVNLISERKTKFAKVPLKCLAQEVNIPDW
IVDLRHELTHKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEFREGIEEEDQEEDKNIVVDDITEQ
KPEPQDDGKSTESDVKADGDSKGSEEVDSHCKKALSHKELYERARELLVSYYYYQFTVLEKFRYLPKAIKAWNNP
SPRVECVLAELKGVTCENREAVLDAFLDDGFLVPTFEQLAALQIEYEDGQTEVQRGEGTDPKSHKNVDLNDVLVP
KPFSQFWQPLLRLGLHSQNFQALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRFSAGQWEARRG
WRLFNCASLDWPRMVESCLGSPCWASPQLLRIFKAMGQGLPDEEQEKLLRICSIYTQSGENSLVQEGSEASPI
GKSPYTLDSLYWSVKPASSSFGSEAKAQQQEEQGSVNDVKEEEEKEEKEVLDPQVEEEEENDDQEEEEDEDEDDED
EEEDRMEVGPFSTGQESPTAENARLLAQKRGALQGSQVSSQVSRWDTFPLGRMPGQTEDPAELMLENYDTMYL
LDQFVLEQRLEPSTCKTDTLGLSCGVGSGNCSNSSSNFEGLLWSQQLHGLKTGLQLF

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FIGURE 6212

ATGAACAGCCCGGACCTCCGTTCGTCCCGCGGCGACCAAAATCTCCGCTGGCCGCACCGCTGTGACTACTCCGGAC
TCGCCGGCAGAGTTTGGCCGCCGGGAGGGTGGCCGATTGGCGGAGCGCACTCCTGCTGTTTCTCCCACCATCTC
GTGGATGTCGTCCCTCGGGTGGTGAGAGAACTTTGCAGTGGGCTGGAGCGCCCTTTGCGGAGAAGCACACGAAGT
TGGAATTTGACCGGAGAATTGAGTTGCCGGGGAACAGAGCCCCGGCCGCCAGCGCGATGTTCCCGCAGAGCC
GGCACCCGACGCCGCACCAGGCTGCAGGCCAGCCCTTCAAGTTCAGTATCGCGGAGTCCCTGGACCGGATTAAAG
AGGAATTCCAGTTCTGTCAGGCGCAGTATCACAGCCTTAAATTGGAATGAACATCAACAACAGGTGGCCCAGGCT
GTCGAACGTGCCAAACAGGTGACCATGGCAGAGTTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCAT
CTTTCTTATGGCCACGGACCCCCAGTTCCCCCTTACGCCTCACCCCTTCGGGACTTCAGCCTCCTGGAATCCCGCCC
CTCGGGGGCAGTGCCGGTCTTCTTGCACTGTCTAGTGCTCTGAGTGGGCAATCTCACTTGGCAATAAAAGATGAC
AAGAAGCATCAAGATGCAGAGCACACAGAGATGAGAGGCCCGGCAAGCCAGATTAG

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FIGURE 6213

MNSPDLRRPAATKISAGRTAVTTPDSPAEFARRGGWPIGGAHSCCFSHHLVDVVPRVVRELCSGLERPLRRSTRS
WKLTGELSCRGT EPRPPPARCSRRAGTRRRTRLQASPSSSVSRSPWTGLKRNSSSCRRSITALNWNEHQQVAQA
VERAKQVTMAELNAIIGQQQLQAQHLSYGHGPPVPLTPHPSGLQPPGIPPLGGSAGLLALSSALSGQSHLAIKDD
KKHQDAEHHRDERPGKPD

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FIGURE 6214A

CTGATCTCGGGGATTTCGGGTGCGGAGCCCTTGGCCTGGAGGCGATATGGGTGGTCCGTGGCCCGGTTTCAGTCGCT
TGCAGCAGCCCGGGGAACAGGCCTGTCTGGCCCTGAGGGAGTCCCCTTTCTGAAGCTGTGGTGCTTGGACGACCT
GCTCTCTACATTGCTGGGCACCTGTAGGTGTCCCTCGAGAGCTCAGTTTTGAGGTTCAAGTCAGTGTGGCCATGA
AGGGGCTGCCATTGGGCTGATGCTGTGACCCTGGAGTCTGCCTCTCCTGCCAGTCCCCCTGCCCGGAACATGTG
GCTGCGGCTTGGCCCGCCCTCGCTGTCCCTGAGCCCCAAGCCACGGTTGGCAGGAGCCTGTGCCTCACCCCTGTG
GTTCCCTCAGTTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACACTCAGTTTGGGAAGCTAAG
GGGTGCCCCGAGTACCACTGCCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTGGGGGTGCCCTACGCAGCTCC
CCCGATCGGCGAGAAACGTTTTCTGCCCCCTGAACCACCCCCATCCTGGTTCGGGCATCCGGAACGCCACACACTT
TCCCCCAGTGTGCCCCCAGAACATCCACACAGCTGTGCCCCAAGTCATGCTGCCGGTCTGGTTCACTGCCAACTT
GGATATCGTCGCTACTTACATCCAGGAGCCCCAACGAAGACTGTCTCTACCTGAACGTCTATGTGCCGACGGAGGA
TGGATCCGGCGCTAAGAAACAGGGCGAGGACTTAGCGGATAATGACGGGGATGAAGATGAAGACATCCGGGACAG
TGGTGCTAAACCCGTATGGTCTACATCCACGGAGGCTCTTACATGGAAGGGACAGGCAACATGATTGATGGCAG
CATCCCCGCCAGTTATGGCAATGTCATAGTCATCACCTCAACTATCGGGTTGGAGTGCTAGGTTTCTGAGTAC
TGGAGATCAGGCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATAT
TGCCTTCTTCGGGGGAGACCCCCGCCGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCGTCAGCCTCCT
CACGTTGTCACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTCTGTCCAGCTGGGC
TGTGAACTACCAACCACTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTGCTGGACACCGTGGA
TATGGTGGACTGTCTTCGGCAAAGAGTGCCAAGGAGCTGGTAGAGCAGGACATCCAGCCAGCCGCTACCACGT
GGCCTTTGGCCCTGTGATTGATGGTGTGTCATTCTGATGACCCTGAGATCCTCATGGAGCAGGGCGAGTTCTT
CAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTGTGGAAGGGGTGGTGGACCCTGAGGA
TGGTGTCTCTGGCACTGACTTTGACTATTCCGTCTCCAATTTTGTGGACAATCTGTATGGCTATCCTGAGGGTAA
GGACACCTGCGAGAGACCATCAAGTTCATGTATACAGACTGGGCAGACCGTGACAACCTGAGACCCGCCGTAA
AACACTGGTGGCACTCTTCACTGACCACCACTGGGTGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTA
CGGCTCGCCTACCTACTTCTACGCCTTCTATCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTCAGATGCAGC
TCATGGGGATGAAGTACCCTATGTTTTTGGGGTTCTATGGTAGGCCCCACTGACCTTTTTCCCTGCAACTTCTC
CAAGAATGATGTTATGCTCAGTGCTGTGCTCATGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCCAACAA
GCCGGTCCCCCAGGACACCAAGTTCATTACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATACAA
TCCCCGAGACCAGCTCTACCTTACATCGGGCTGAAACCAAGGGTCCGAGATCATTACCGGGCCACTAAGGTGGC
CTTTTGGAAACATCTGGTGCCCCACCTATAACAACCTGCATGACATGTTCCACTATACGTCCACCACCACCAAAGT
GCCGCTCCGGATACCACCCACAGCTCCCACATCACCCGAGGCCAATGGCAAGACCTGGAGCACCAAGCGGCC
AGCCATCTCACCTGCCTACAGCAACGAGAATGCCAGGGGTCTGGAACGGGGACCAGGATGCAGGGCCACTCCT
GGTGGAGAACCCCTCGTGACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGGCTCCCTCCTGTTCTCTAA
CGTTCTGGCCTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCCTGCGGCAGCCTAGCCCTCA
GCGGGGAGCCGGGGCCCCGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGGCAGCATTACAACTGGGCCCCACCCA
CCACGAGTGTGAGGCCGTCCCCCCCATGACACGCTGCGCCTCACTGCATTGCCCCACTACACCTGACCCCTGCG
GCGCTCCCCGGATGACATCCCACTCATGACCCCCAACACCATCACTATGATCCCCAACTCCCTGGTAGGGCTGCA
GACATTGCACCCCTATAACACCTTTGCCGAGGGTTCAACAGTACCGGGCTGCCCCACTCACACTCCACTACCCG
GGTATAGCTCCAACCTCAGAGCACAGCCAATCTCCAGGCTCCCTCCCTCCAGATCCAGGAACACATGCACACACA
CACACACACACACGCAGACACACACACACACACATATATGTATACGCACGCACCCACACCCTACAGCAGATCC
ACCTGCACAAACATAGACAGATGTGGACATGCACCCGCATGTACAAAAACACAAATACGGAAGTAAACCTGAACA
AACCTTTTAAATGGGGACGCAGATGAGTCTCGGTAAACCGAGGACCCATGAAACAGCAGCTGAAGCCAGCTCCC
TGAATCTGACCACAGACACTCCTGGGGGGCCTGAAAGCAACAGCTGGACACCCCTTGGTGCTCGCCTTCGGCCT
CTCTTGGAACTGCACCACCGACCAACTCCAGACTTGGGAGCTTTAAAGAGCAGGATAGCTCTTCTCTCCCCAGGAC
TTGGTCTTTTTTCTGGGTCTTGTTTTGTTGATTTTTCTTTTTTAATTTTGGAAACAAATGCTTTTTCCAACCCATGA
GTGCTAAGAGCCTCTGGAAGGGAGGGCTTCAGGCCCCAAGGTCTCTCTGGCTCTAGGACCCCCAGTGCTCACACA
ATCAGACCAAGGAACAAGACCCCCAGGAAGGAAACAGATTTAAGCAAGACCATGGGGTGGGAAGGAGAAAGGGCT
AGCACTGGATGGAGCTGGAGGGTCGTAGGGGAGAGATCTCCAACCTCTCTGTGTCCGTGTGGAGGGCTGCAGAG
CCTGCAGGGTGACCTGCTTCCCCAAAGGCCAACAGCATTGGCCTGGCCAGACCAGGTGACCTTAGATTTGGTGAA

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FIGURE 6214B

CAACGTACTATGGAAGCCACATCACTATTGGGCCCCCAGGTCTGATCTGGGTTTTGCCTCTGCCCTTGGGGAAAT
GCTATCAGAAATTCGCCCCATTTTCTTTACAGTCTTTTGTGTCTGTCATTTCTCTTTCAAAAAGGCGGTGTTTTT
TGTTGTTGTTGGTTTTTTTTTTTTTTTAAAGAAAAGTTCTTAAAACACTAACGAAAAAAAAA

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FIGURE 6215

MWLRLGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPT VNTHFGKLRGARVPLPSEILGPVDQYLGVPYA
APPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLYLN VYVPT
EDGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSIPASYGNVIVITLNYRVGVLGFL
STGDQAAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTLSSHSEGLFQRAIIQSGSALSS
WAVNYQPVKYTSLLADKVGCNVLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPEVIDGDVIPDDPEILMEQGE
FLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTDWADRDNPETR
RKTLLVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYVFGVPMVGPTDLFPCN
FSKNDVMLS AVVMYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATK
VAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTHSSHITRRPNGKTWSTKRPAISPAYS NENAQGSWNGDQDAGP
LLVENPRDYSTELSVTIAVGASLLFLNVLAFALYRDKRRQEPLRQPSQRGAGAPELGAAP EEEEL AALQLGP
THHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHST
TRV

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FIGURE 6216

CTCTGGGAAAGGGCAGCAGCAGCCAGGTGTGGCAGTGACAGGGAGGTGTGAATGAGGCAGG**ATGA**ACTGGACAGG
TTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCATTGGCCGAGTATGGCTCTCGGTCATCTTCAT
CTTCAGAAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGGTGATGAGAAATCTTCCTTCATCTGCAACAC
ACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCCCATCTCCCATGTGCGGCTGTGGTCCCTGCA
GCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAAT
GCTACGGCTTGAGGGCCATGGGGACCCCTACACCTGGAGGAGGTGAAGAGGCACAAGGTCCACATCTCAGGGAC
ACTGTGGTGGACCTATGTCATCAGCGTGGTGTTCGGGTGTTGTTTGAGGCCGTCTTCATGTATGTCTTTTATCT
GCTCTACCCTGGCTATGCCATGGTGCAGGCTGGTCAAGTGCGACGTCTACCCCTGCCCCAACACAGTGGACTGCTT
CGTGTCCCGCCCCACCGAGAAAACCGTCTTACCGTCTTCATGCTAGCTGCCTCTGGCATCTGCATCATCCTCAA
TGTGGCCGAGGTGGTGTACCTCATCATCCGGGCCTGTGCCCCGCCGAGCCCAGCGCCGCTCCAATCCACCTTCCCG
CAAGGGCTCGGGCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGTGAGCA
GGATGGCTCCCTGAAAGACATACTGCGCCGACGCCCTGGCACCGGGGCTGGGCTGGCTGAAAAGAGCGACCGCTG
CTCGGCCTGC**TGA**TGCCACATAACCAGGCAACCTCCCATCCCACCCCGACCCTGCCCTGGGCGAGCCCCTCCTTC
TCCCCTGCCGGTGCACAGGCCTCTGCCTGCTGGGGATTACTCGATCAAAACCTTCCTTCCCTGGCTACTTCCCTT
CCTCCCGGGGCCTTCCTTTTGAGGAGCTGGAGGGGTGGGGAGCTAGAGGCCACCTATGCCAGTGCTCAAGGTTAC
TGGGAGTGTGGGCTGCCCTTGTTGCCTGCACCTTCCCTCTCCCTCTCTCTGGGACCACTGGGTACAA
GAGATGGGATGCTCCGACAGCGTCTCCAATTATGAAACTAATCTTAACCCTGTGCTGTCAGATACCCTGTTTCTG
GAGTCACATCAGTGAGGAGGGATGTGGGTAAGAGGAGCAGAGGGCAGGGGTGCTGTGGACATGTGGGTGGAGAAG
GGAGGGTGGCCAGCACTAGTAAAGGAGGAATAGTGCTTGCTGGCCACAAGGAAAAGGAGGAGGTGTCTGGGGTGA
GGGAGTTAGGGAGAGAGAAGCAGGCAGATAAGTTGGAGCAGGGGTGGTCAAGGCCACCTCTGCCTCTAGTCCCC
AAGGCCTCTCTCTGCCTGAAATGTTACACATTAAACAGGATTTTACAGT

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FIGURE 6217

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVAAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQQHIEKKMLRLEGHGDPLHLEEVKRHKVHISGTLWWTYVISVVFRLLEAVFM
YVFYLLYPGYAMVRLVKCDVYPCPNTVDCFVSRPTEKTVFTVFMLAASGICIIILNVAEVVYLIIRACARRAQRRS
NPPSRKSGSGFGRHLSPEYKQNEINKLLSEQDGLKDILRRSPGTGAGLAEKSDRCSAC

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FIGURE 6218

GTGTGAATGAGGCAGGATGAACTGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCAT
TGGCCGAGTATGGCTCTCGGTCATCTTCATCTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGG
TGATGAGAAATCTTCCTTCATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCC
CATCTCCCATGTGCGGCTGTGGTCCCTGCAGCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGT
GGCTCACCAGCAACACATAGAGAAGAAAATGCCAAGGCCTCTCTCTGCCTGAAATGTTACACATTAAACAGGATT
TTACAGTAAATGAAGAGGTGGCTTGTGTGTTTGTCAAGTTCTTTCTCCTGCAACCTCTGACCTCCCCCAGGATGA
GCTGGCCTTGGTTTTTTTACTGATTAAGAAAGGAACAGGGCAAAGAAGTAGTTACTTGAGTAGCTGAAGCTGCAA
ATGAGGAAATCACTGTACTTCTGGGCCGCAGAGCCAGCCCCGGAGCCATTCTCCCTGTTGCTTTTGTGTTGTG
GTTCTTGTCTTTTTCATTGTCTAATAACAGCTTTATTGGGATTTAGTTTACATACCTCCTTCCTCTGATTTTGAA
AAGATTAAAAATGACAACCTCCCTCTG

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FIGURE 6219

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVAAESVWGDEKSSFICNTLQPGCNSVCYDQFFPI SHVR
LWSLQLILVSTPALLVAMHVAHQQHIEKKMPRPLSA

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FIGURE 6220

TAATTCTAAATGGTGGTAGGAGGAGAACAGGCATTGCTTTACAGCCCCTGGGGGCCTACCTCAGTTTGCTATAG
ATAGCAGTCTTTTTTTTTTTGGAGACAGAGTTTCCCTCTTGTTGCCCAGGCTAGAGTGCAATGGCATGGTCTTGG
CTCACTGCAACCTCCACCTCCCGGGTTCAAGCGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTG
CTTGCCACCATGCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTACACCATGTTGGCCAGGCTGGTCTCG
AACTCCTGACCTCAGGTGATCCACCAGCCTCGGCCTCCCAATTTTGTATTTTTATTAGAGACTGAGTTTGACCAC
GTTGGTCAGGCTGTTCTTGAACCTCTGACCTCAGATAATCTGCCCAGCCTCGGTTTCCCAAAGTGCTGGGATTACT
GGCGTGAGCCACCAAGCCCGGCCAGATAGCAATCTTTAGGACTGCTGGTATCCATTAAATGTAACCTCAAGGTC
TTTATTTTTGAATCTTGAGCAAACCTCAGTCTCTATACTTAATCTAGGAGTTAAGTAAATGCCACCGTCTGACTGG
CCAGTCTGATTGACTATGTTTGTGGAGGGGAAGTCAATGAAGGCTAGGCATTATCACATAAAATAGTTGTGAATC
CAAATACTTCATGGCTCATGCAATCCTGGGGTTGTTTTGGTTATGGTGTTAAATGCCAAAACCTGGATAGTTTGG
TTGTTTCTGTTTTTGTTCCTTTTTCTTTTTCTTTTTGAGACAGAGTTTTGCTCTTGTCGCCAGGCTGGAG
TGCAGTGGTGCAATCTTGGCTCCCTGCAACCTCCGCCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGA
GTAGCTGGGATTACAGGCATGCGCCACCCTTTTGGGGTTATCCACTAGAGTTCTAAACAGACTTAGTCACCCAC
TCCTACCTACCATCAGGAGCCTTGAATAGTTGAATGGAAATAGCCTCCAGTGGAGGGACTACAGATGGGTGGGAA
GCTTCCAACAATGGCTCTGTTACAGTGTGCTCTTTTTCTCTTTAAGACCCCAACAACCTGAACGCTTTGG
TCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGGAACCTCCTCCTGCATTCAACCGTGCAGCTCCTGGAGC
TGAATTTGCCCCAAACAACGTCGCCGATACTAATAAGTTGCAGTGCTAGTTTCTCAAAACCTTAAAAGAAGG
ACCCTTTTTGGACTAGCCAGAATTCTACCCTGGAAAAGTGTTAGGGATTCTTCCAATAGTTAGATCTACCCTGC
CTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGGCAAGGGAGGGGTGGTATTAAACAAGTCAATTCTGTGTGG
TATATTGTTTAATCAGTTCTGTGTGGTGCATTCTGAAGTCTCTAATGTGACTGTTGAGGGCCTGGGGAAACCAT
GGCAAAGTGGATCCAGTTAGAGCCCATTAAATCTTGATCATTCCGGTTTTTTTTTTTTTGTCCATCTTGTTCAT
TTGCTTGCCCCGCCCGGAGACGGAGTCTTACTCTGTGCCCAGGCTGGAGTGTAGTGGCATGATCTCGGCTCAC
TGCAATCTCTGCCTCCCGGTTCAAGCTTGTCCAGGTTGATCTTGAACCTCCTGACCTCGTGATCTACCCACCTCG
GCCTCCCAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTCTTATCCTTACACTCCCC
CAGCCCCAGAGAACTGCCACATACACCACAAAAACCAACATCCCCCAATGACCTTAGCCCCATTGCTCCATTC
ACTCCCAGGTGAGAATTCAGGCAAACGTCCACAAAGGTCACAGGCAGCGTACATACGGTTCTGTTATACCCATA
TATTACCCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTTCATTTTAGTGTATCTTTAAAAAAAATC
TTGTGTTAACTTGCTCCATCTTTTTCTTGGGTGAGGACACCCAGGAATGACCCTTTTGTGTCTATGATGTTGCT
GTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGTTACTGTATACTGAAGGTCTGACAGTAGC
TCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGCATTTTTTTTTTTCATTGGTGTACTGTGTTGATTTGTCTC
ATATATTTGGAGTTTTTCTGAAAAATGGAGCAGTAATGCAGCATCAACCTATTAAAATACATTTTAAGCCTTTT

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FIGURE 6221

MQSNKTFNLEKQNHTPRKHHQHQQHQQQQQQPPPPPIPANGQQASSQNEGLTIDLKNFRKPGEKTFTRSR
LFVGNLPPDITEEEMRKLFKEYGKAGEVFIHKDKGFGFIRLETRTLAEIAKVELDNMPLRGKQLRVRFACHSASL
TVRNLPQYVSNELLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAARKALDRCSEGSFLLTTFFRPVTVE
PMDQLDDEEGLPEKLVIKNQGFHKEREQPPRFAPGSGFEYEYAMRWKALIEMEKQQQDQVDRNIKEAREKLEMEM
EAARHEHQVMLMRQDLMRRQEELRRMEELHNQEVQKRKQLELRQEEERRRREEEMRRQQEEMMRQQEGFKGTFF
DAVYLP CARDVDPQS

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FIGURE 6222

GCCAGATCTGGAAGGTGGCTGCGGAACGGTTTTTAAGCGGAAG**ATG**GAGGAGCCGGAGGAACCGGCGGACAGTGGG
CAGTCGCTGGTCCCGGTTTTATATCTATAGTCCCGAGTATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAA
CGGGCCAGTATGGTGCATTCTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAAGTG
GCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAGAAAGGTCAGCCAAGAGGGC
GATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTATGACTGCCCAGCCACTGAAGGGATATTTGACTAT
GCAGCAGCTATAGGAGGGGCTACGATCACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAAC
TGGTCTGGAGGGTGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGTCCTGGGA
ATATTACGATTGCGACGGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTGTAGAA
GACGCATTACGTTTCACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCTCCCCAGGATTTTCCCAGGAACA
GGTGACGTGTCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAATGTGCCCATTCAGGATGGCATACAA
GATGAAAAATATTACCAGATCTGTGAAAGTGTAATAAGGAAGTATACCAAGCCTTTAATCCCAAAGCAGTGGTC
TTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAACATGACTCCAGTGGGAATTGGCAAG
TGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTGGGAGGAGGAGGCTATAACCTTGCCAACACG
GCTCGATGCTGGACATACTTGACCGGGGTCATCCTAGGGAAAACACTATCCTCTGAGATCCCAGATCATGAGTTT
TTCACAGCATATGGTCCTGATTATGTGCTGAAAATCACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCACCGA
ATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCT**TAGTT**GACAGAAAGAGATCAGGTTTCC
AGAGCTGAGGAGTGGTGCCTATAATGAAGACAGCGTGTTTATGCAAGCAGTTTGTGGAATTTGTGACTGCAGGGA
AAATTTGAAAGAAATTACTTCCTGAAAATTTCCAAGGGGCATCAAGTGGCAGCTGGCTTCCTGGGGTGAAAGGGC
AGGCACCCCAGAGTCCTCAACTGGACCTAGGGGAAGAAGGAGATATCCACATTTAAAGTTCTTATTTAAAAAAA
CACACACACACAAATGAAATTTTTAATCTTTGAAAATTATTTTTAAGCGAATTGGGGAGGGGAGTATTTTAATCA
TCTTAAATGAAACAGATCAGAAGCTGGATGAGAGCAGTCACCAGTTTGTAGGGCAGGAGGCAGCTGAGAGGCAGG
GTTTGGGCCTCAGGACCATCCAGGTGGAGCCCTGGGAGAGAGGGTACTGATCAGCAGACTGGGAGGTGGGGAGAA
GTCCGCTGGTGTGTTTTAGTGTTATATATCTTTGGTTTTTTTAATAAAATCTTTGAAAACCTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6223

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATFHTDAY
LQHLQKVSQEGDDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEAS
GFCYLNDAVLGILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGYY
SVNVPIQDGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTPVGIGKCLKYILQWQLATLI
LGGGGYNLANTARCWTYLTGVILGKTLSSSEIPDHEFFTAYGPDYVLEITPSCRPDNRNEPHRIQQILNYIKGNLKH
VV

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FIGURE 6224

AAGACGGAGGTCCTCTTTTCCTTGCCTAACGCAGCCATGGCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAG
CTCCAAAGCATTGGATGCTGGATAAATTGACCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCCACAAGTTGA
GAGAGTGTCTCCCCCTCATCATTTTCCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAGTAAAGAAGA
TTTGCATGCAGCGGTTTCATTAATAATCGATGGCAAGGTCCGAAGTATGATATAACCTACCCTGCTGGATTTCATGGATG
TCATCAGCATTGACAAGACGGGAGAGAATTTCCGTCTGATCTATGACACCAAGGGTCGCTTTGCTGTACATCGTA
TTACACCTGAGGAGGCCAAGTACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATC
TGGTGACTCATGATGCCCCGACCATCCGCTACCCCGATCCCCTCATCAAGGTGAATGATACCATTCAGATTGATT
TGGAGACTGGCAAGATTACTGATTTTCATCAAGTTCGACACTGGTAACCTGTGTATGGTGACTGGAGGTGCTAACC
TAGGAAGAATTGGTGTGATCACCAACAGAGAGAGGCACCCTGGATCTTTTGACGIGGTTACCGTGAAAGATGCCA
ATGGCAACAGCTTTGCCACTCGACTTTCCAACATTTTTGTTATTGGCAAGGGCAACAAACCATGGATTTCTCTTC
CCCGAGGAAAGGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGCGGCCAAACAGAGCAGTGGGT
GAAATGGGTCCCTGGGTGACATGTCAGATCTTTGTACGTAATTAAAAATATTGTGGCAGGATTAATAGCAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 6225

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDEVKKICMQRFIKIDGK
VRTDITYPAGFMDVISIDKTGENFRLIYDTKGRFAVHRITPEEAKYKLCKVRKIFVGTGKIPHLVTHDARTIRYP
DPLIKVNDTIQIDLETGKITDFIKFDTGNLCMVTGGANLGRIGVITNRERHPGSFDVVHVKDANGNSFATRLSNI
FVIGKGNKPWISLPRGKGIRLTIAEERDKRLAAKQSSG

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FIGURE 6226

ATGGGTCCACGTCTTGCAGCTACAGCTGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTATAAATATGCT
GCGGGAGTTTGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAGTGCAACAGCCTGCTATTCATGTA
CAAGGTCAGGAACCTTTGACTGTTTCCATGTTGGCATCTGCCCCCTCAAGAGCAAAAGCAAATGTTGGGTGAATGG
CTGTTTCCTCTTATTCAAGCCATGCACCCTACTCTTGCCGGTAAAATCACTGGCGTGTTGTTGGAGATTGATAAT
TCAGAACTTCTTCATATGCTCAAGTCTCCAGAGTCACTCCATTCTAAGGTTGATGAAGCTGTAGCTGTACTACAA
GCCACCAAGCTAAAGAGACTGCCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACCTGTTTAA

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FIGURE 6227

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCATGAATGAAAATGATCAGAGAA
AGAAATAAGCCAAAGAGAAAGGTACCTGTGTTCAACTAAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTTATGGCATAATAGGTGTTAAAAA
ATAAATAAAAGACATCTGGGCTGT

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FIGURE 6228

ATGAGATCTGGTTGTTCCCTGGGTATCACCAATGATGTTACCCAGTCCATGGAGATTAGTTCCACCTTCTGGGTG
TTGGGAGTAGTTCCAGCACTTTCCAGAGCCTTCTCTCTCCTGTGCAAAATAGCAACTCTTAAGGAAAAACTCATT
GTACCAAGTTGCGGAAGAAGAGGCAACAGTCCAAAACAATAAGATCACTGTAGTGAGTGTTGGACAAGTTGGTATG
GCGTGTGCTATCAGCATTCTGGGAAAAATCTCTGGCTGATGAATTTGCTTTTGTGGATGTTTTGGAAGATAAGCTT
AAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTTCTCAAGAAGCTTAAAAATTGTGGCAGATAAAGATTAT
TCTGTGACTGCCAGTTATAAGATTGTAGTGGTAACTTCAGGAGTCCTTCAGCAAGAGGGGGAGAGGCGGGACATT
CTTACGTATGTTACCTGGAAAATAAGTGGATTACTCAAACACCATGTGATTGGAAGTGGATGTAATCCGGATTCT
GCTAGATTTCACTGCCTTATGGATGAAAAATTTGGCATTTCATCCAGCAGCTGCCATGGAAGGATTTTGGGGGAA
CATAGTGA CTCAAGTGTGGCTGTGTGGATTGGCATGAATGTGACAGGTTTTTCTCTCCAGGAATTGAATCCAGAA
ATAGGAACTGACAATGATAGTGAAAATTGGAAAGAAGTGCATAAGATGGTGGTTGAAAATGCCTATGAAGTCAAC
AAGCTAAATGGATATACCCACTGGGATATTGGATTAAGTGTGGCTGATCTCATTGAATCCATGTTGAAAAATCTA
TCCAGGATTCATCTCGTGTCAACAATGGTAAAGGGGATGTATGGCATCGAGAATGAAGTCTTCCTGAGCCTTCCA
TATATCCTCAATGCCCGGGGATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGTTCAAG
AAAAGTACAGATACCCCGTGGGACATCCAGAAGGACCTAAAAGACCTGTGA

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FIGURE 6229

ACTTATAGAAGGGAGAGGAGCGAACATGGCAGCGCGTTGGCGGTTTTGGTGTGTCTCTGTGACCATGGTGGTGGC
GCTGCTCATCGTTTGGCAGCTTCCCTCAGCCTCTGCCAAAGAAAGAAGGAGATGGTGTTATCTGAAAAGGTTAG
TCAGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAATGAATGGAGACAAGTTCCGTCGCCTTGTGAAAGC
CCCACCGAGAAATTACTCCGTTATCGTCATGTTCACTGCTCTCCAAGTGCATAGACAGTGTGTCTGTTTGAAGCA
AGCTGATGAAGAATTCCAGATCCTGGCAAACCTCTGGCGATACTCCAGTGCATTACCAACAGGATATTTTTTGC
CATGGTGGATTTTGTATGAAGGCTCTGATGTATTTAGATGCTAAACATGAATTCAGCTCCAACCTTTCATCAACTT
TCCTGCAAAGGGAAACCCAAACGGGGTGATACATATGAGTTACAGGTGCGGGGTTTTTCAGCTGAGCAGATTGC
CCGGTGGATCGCCGACAGAACTGATGTCAATATTAGAGTGATTAGACCCCCAAATTATGCTGGTCCCCTTATGTT
GGGATTGCTTTTGGCTGTTATTGGTGGACTTGTGTATCTTCGAAGAAGTAATATGGAATTTCTCTTTAATAAAAC
TGGATGGGCTTTTGCAGCTTTGTGTTTTGTGCTTGCTATGACATCTGGTCAAATGTGGAACCATATAAGAGGACC
ACCATATGCCCATAGAATCCCCACACGGGACATGTGAATTATATCCATGGAAGCAGTCAAGCCCAGTTTGTAGC
TGAAACACACATTGTTCTTCTGTTTAAATGGTGGAGTTACCTTAGGAATGGTGCTTTTATGTGAAGCTGCTACCTC
TGACATGGATATTGGAAGCGAAAGATAATGTGTGTGGCTGGTATTGGACTTGTGTATTATTCTTCAGTTGGAT
GCTCTCTATTTTTAGATCTAAATATCATGGCTACCCATACAGCTTTCTGATGAGTTAAAAAGGTCCCAGAGATAT
ATAGACACTGGAGTACTGGAATTTGAAAAACGAAAATCGTGTGTGTTTGAAGAAGAATGCAACTTGTATATTT
TGTATTACCTCTTTTTTTCAAGTGATTTAAATAGTTAATCATTTAACCAAAGAAGATGTGTAGTGCCTTAACAAG
CAATCCTCTGTCAAATCTGAGGTATTTGAAAATAATTATCCTCTTAACCTTCTCTTCCCAGTGAACCTTTATGGA
ACATTTAATTTAGTACAATTAAGTATATTATAAAAATTGTAAACTACTACTTTGTTTTAGTTAGAACAAAGCTC
AAAACACTTTTAGTTAACTTGGTCATCTGATTTTATATTGCCTTATCCAAAGATGGGGAAAGTAAGTCCTGACCA
GGTGTTCACATATGCCTGTTACAGATAACTACATTAGGAATTCATTCTTAGCTTCTTCATCTTTGTGTGGATG
TGTATACTTTACGCATCTTTCCTTTTGAGTAGAGAAATTATGTGTGTCATGTGGTCTTCTGAAAATGGAACACCA
TTCTTCAGAGCACACGTCTAGCCCTCAGCAAGACAGTTGTTTCTCCTCCTCCTTGCATATTTCTACTGCGCTCC
AGCCTGAGTGATAGAGTGAGACTCTGTCTCAAAAAAAGTATCTCTAAATACAGGATTATAATTTCTGCTTGAGT
ATGGTGTAACTACCTTGTATTTAGAAAGATTTAGATTCAATCCATCTCCTTAGTTTTCTTTTAAAGGTGACCCA
TCTGTGATAAAAATATAGCTTAGTGCTAAATCAGTGTAACCTTATACATGGCCTAAATGTTTCTACAAATTAGA
GTTTGTCACTTATTCCATTTGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACTCCCTGGCCAGGCGCAGT
GACTTACGCCGTGAATCTCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGTTCGAGACCATCC
TGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAATTAGCTGGGTGTGGTGGCAGGAGCCTGTAATC
CCAGCTACACAGGAGGCTGAGGCACGAGAATCACTTGAAGTCAAGGAGATGGAGGTTTCAAGTGAAGCAAGATCACA
CCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAA

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FIGURE 6230

AAGCCTCCGGAGCGCACGTCCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTCCAAAATGTCGCTTTCTAACAAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGACCTTCAATGTTCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATTCTGCTTGGACAATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGACAAGTACTCCTTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTGTGTAGGCCCAGAAGTGGAGAAAAGCCTGTGCCAACCCAGCTGCTGGGTCTGTCACTCCTGCTGGAGAACCTCCGCTTTCATGTGGAGGAAGAAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGCTTTCCGAGCTTCACTTTCCAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCCACAGCTCCATGGTAGGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACTACTTTGCAAAAGCCTTGGAGAGCCCAGAGCGACCCTTCCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCATCAATAATATGCTGGACAAAGTCAATGAGATGATTATTGGTGGTGGAAATGGCTTTTACCTTCCTTAAGGTGCTCAACAACATGGAGATTGGCACTTCTCTGTTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGAGAAGAATGGTGTGAAGATTACCTTGCCTGTTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGGCCAAGCCACTGTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCCTGAAAGCAGCAAGAAGTAGTGCTGAGGCTGTCACTCGGGCTAAGCAGATTGTGTGGAATGGTCCTGTGGGGGTATTTGAATGGGAAGCTTTTGC CCGGGGAACCAAAGCTCTCATGGATGAGGTGGTGAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGGAGACTGCCACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAGTTTGGAGCTCCTGGAAGGTAAAGTCCTTCCTGGGGTGGATGCTCTCAGCAATATTTAGTACTTTCTGCCTTTTAGTTCTGTGCACAGCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGTCAAGATTGAGCTAGTGGCCAAGAGATGCAGTGCCAGGAACCCTTAAACAGTTGCACAGCATCTCAGCTCATCTTCACTGCACCCTGGATTTGCATACATTCTTCAAGATCCCATTGAAATTTTTTAGTGACTAAACCATTGTGCATTCTAGAGTGATATATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGATGTAGGTTATTATGATTAGCTTTGTCACTGTTTCACTACTCAGCATGGAAACAAGATGAAATTCCATTTGTAGGTAGTGAGACAAAATTGATGATCCATTAAGTAACAATAAAAGTGTCCATTG

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FIGURE 6231

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVMPDK
YSLEPVAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLENLRFHVVEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVFWEAFARGTKALMDEVVKATSRGCITIIIGGD
TATCCAKWNTEDEKVSHVSTGGGASLELLEGGKVLPGVDALSNI

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FIGURE 6232

CTCCCTGCCTCCGCGCTGCAGCCCCTGCCGTAGCCGCCCTGAGCCCGCCACCACCGCCTCTGAGCAGAAGATGG
CTGTGCCACCTACGTATGCTGATCTTGGCAAATCTGCCAGGGATGTCTTCACTGAGGGCTATGGATTGGCTTAA
TAAAGCTTGATTTGAAAACAAAATATGAGAATGGATTGGAATTTACAAGCTCAAGCTCAGCCAACACAGACCACC
AAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTACGGCCTCACGTTTACAGAGAAATGGAACACC
GACAATACACTAGGCACCAAGATTACTGTGGAAGATCAGCTTGCACGTGGACTGAAGCTGACCTTCGATTTCATCC
TTTTACCTAACACTGGGAAAAAAAAATGCTAAAATCAAGACAGGGTACAAGCGGGAGCACATTAACCTGGGCTGC
GACATGGTTTTTCGACATTGTTGGGCCCTTCCATCCGGGGTGCTCTGGTGCTGGGTTACGAGGGCTGGCTGGCCGGC
TATCAGATGAATTTTGAGACTACAAAATCCCGAGTGACCCAGAGCAACTTTGCAATTGGCTACAAGACTGATGAA
TTCCAGCTTCACACAAATGTGAATGACGGGACAGAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTG
GAGACCACCGTCAATCTTGCTGGACAGCAGGAAACAGTAACACGCGCTTCGGAATAGCAGCCAAGTATCAGATT
GACCCTGACGCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTGATAGGTTTAGGATACACTCAGACTCTAAAG
CCAGGTATCAAACTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTA
GGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTAATTTTAACTATTTTGCAGCATAGCTACCTTC
AGAATTTAGTGTTATCTTTTAATGTTGTATGTCTGGGATGCAAGTATTGCTAAATATGTTACCCCTCCAGGTTAA
AGATGATTCAGCTTTAAGATGTTACCCCTCCAGAGGTACAGAAGAAACGCATTTCCAAAAAAGGTTCTTTCAGTG
GTAGACTCGGGGAGAACTTGGTGGCCCCCTTTGAGGTGCCAGGTTTCTTTTTCATCTAGAGATGGCTGCGAGTGGA
AGCTGATAATATGTAGGCACCTTTGTAAATTCATATTGAGTAAATGAATGAAATTGTGATTTCTGAGAATCGAAC
CATGGTTTCTAACCCTAATTGATGAGAGGCTCGCTGCTTGATGGTGTGTACAAGCTCACCTGAATGGGACTTTT
TTAGACAGATCTTCATGACCTGTTCCACCCCAGTTCATCATCATCTCTTTTACACCAAAGGTCTGCAGGGTGT
GGTCACTCTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTAGATGTGATGAAACCAATAATTCAGGACTTATTCC
TTCTTGTTGTGTTTTTTTTTGGCCCTTGACCAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATAAGCTTGG
GAGTGTCTGTGTGATTGTAATCACATGGTGACAGCACTCAGAATCTAAATTGGACTTCTGCTGTATTCTCACCAC
TCAATTTGTTTTTTAGCAATTTAATGGCTACATTTTAGAGTCTTCCATTTTTTGTGGAATTAGATCCTCCCTTC
AAATGCTGTAATTAACATCACTTAAGAAAACCTTGAATAAAATGTTGAAACCTC

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FIGURE 6233

TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGG**ATG**GTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAAGTCAAGCAAAGCAGCAAGCA**TGA**ACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAAATGAGTCTCCATTGCTTTTATAAAATAGCAGAATTAGCTTTGCTTCAAAAGAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTTCACATGCAAACATTCAAAATGAATACAAAATTAAAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAACATAAAATTATATTAATAAGTAGATATCGTAGAAATAGTGTTGTTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAAAAGGAGAAAGAGAAATAACCTGTCTCTCATTCCCTAAGTTGCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTTTGATGCTATATTACTGCGATTAAAAAGTTCTTGCAGGTAATGTTT
ATGATATGTTAAACGTTGTAATTTCCCTATCGTAATTATAACATTCCCATTCTTTTGTAGATGAAACTTCTACATA
TTGAACCACAGATTTTCTGAGCTTCTAAATGTAGCCTTTTCATTGCACATTTCACTGATCAGAATAGATATCCTTT
TACACGCACAAAAGCAATAGATTCATTCACTGGACAAGTTCCTTGTTTAACTACACAGCTATGATGGAATGATAT
ATCCAAGTTCCTTGCTCAGTGAAATATGCATATGTATATCATGAAAGTGGGATGCCAAGTAAGCTTAAAATGGC
ATTCTCTAGCAAAGAGATTAGACTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTTCCCAAGATTGGTTT
CCCTTGAGTTTTTGCTAAAACAAATCTTAGTAGTTTTGCCCCGTTTAAACAACCTCACAATCGTAAATGCTACTAT
TCCTAAGATATCTTACCTTTTTATTTAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATC
TTTTCTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAATATTAAGCCTGAA
GACTTCTAAAAGACAAGAAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTCACACTACCTTATT
ACCAAAAGCAAACACCTCTTACTTTAAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTTGCC
AAAATCAACATATAATGAAGAGATGCCTTTGTTTCATGAGATTCAAACCTTGATGCTATGCTTTAAAATAAACTCA
GTACTTTTAGAAACAT

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FIGURE 6234

MVIRVYIASSSGSTAIKKKQDVLGFLEANKIGFEEKDIAANEENRKWMRENVPENSRPATGYPLPPQIFNESQY
RGDYDAFFEARENNAVYAFLGLTAPPFGSKEAEVQAKQQA

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FIGURE 6235

TTTCCGCACTACCTACAGAGGGGTCCATAGGGGGTTGTTCTAGATTCCCGTCGTAACTTAAAGGGAACTTTCAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGACAGCTCGTGCTATTGTTGCCATTGAAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTAG
TGACCCCAAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAATGACCAGGGA
GGAACCTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTCAGCAGTTCCTACTGAAGACTGGAGCACTCAGCGTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAACATCAGTTTCT

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FIGURE 6236

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLTARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVSDPRADHQPLTEASYVNLPTIALCNT
DSPLHYVDIAIPCNNKGTHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAMTRE
ELQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSTQRATEDWSAAPTAAQATEWVGATTDWS

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FIGURE 6237

GATCATGTCTGTAAGCCAGGATTCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGAAGGCGTCATCGA
GAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGACATCTATGC
CTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTATAATGTAATCGC
TCAAGCCTGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGCATTAGATCTAAA
AGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGTCATGGCACTAGT
AGACTACATGGGTGCCTCCTGTTCATGCCTGTATCAGGGGCACCAATGTGCGTGCTGAGGTGCAGAACTGCAGAT
GGAAGCTCCCCACATCATCGTGGGTACCCCTAGCTGTGTGTTTGATATGCTTAACCGGAGATACCTATCTCCCAA
ATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATCTATGACAT
ATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGCTGCTACAATGCCTTCTGATGTGCTTGAGGTGAT
CAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGCTCAAGAAGGAAGAGTTGACCCTGGAGGGTATCCGCCAATT
CTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGACCATCACCCA
GGCAGTCATCTTCATCAATACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTGT
CTCCGCCATGCATGGAGATATGGACCAAAAGGAGCGAGACGTGATCACGAGGGAGTTTCGTTCTGGCTCTAGCAG
AGTTTTGATTACCACTGACCTGCTGGGAAAATATATCCACAGAATCAGTCGAGGTGGACAGTTTGGCCGTAAAG
ATGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCA
TTGAGGAAATGCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCGGGGGGCTGAGGAGCAGCAGGAGAGGGGAAGGAAGGGAGCCAAGGGATAGACATCTTGTCATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAA

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FIGURE 6238

TCGTCGGCAAAGCCTGAGTCCTGTCCTATCTCTCTCCTCCCCGGACAGCATGAGCTTCACCACTCGGTCCACCTT
CTCCACCAACTACCAGTCACTGGGCTCTGTCCAGGCGCCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCCAG
CGTCTATGCAGGCGCCGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCCGGGGTGGCATGGG
GCCTGGGGGCTGGCCGCGGGGATGGCTGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACAAGAAGACCATGCA
AAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGGAGACTGAGAACCGTAGGCTGGAGAG
CAAAATCCGGGAGCACTTGGAGAATAAGGGACCCCAGGTCAAAGACTGGAGCCATTACTGCAAGACCATCGAGGA
CCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATCGTTCTGCATATTGACAATGCCCCGTCTTGC
TGCTGATGACTTTAGAGTCAAGTATGAGACACAGCTGGCGATGCGCCAGTCTGTGGAGAACGACATCCATGGGCT
CCGCAAGGTCATTGATGACACCAATGTCACTTGACTGCAGCTGGAGACAGAGATTGAGGCTCTCAGGGAGGAGCT
GCTCTTCATGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTTTAGGTTGACCGTGGA
GGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCAATATGACGACCTGGCTGG
GAAGAACCGAGAGGAGCTAGACAAATACTGGCCTCAGCAGTTTGAGGAGAACACCACAGTGGTCACCACAGTCCG
CCGAGGTTGGAGCTGCTGAGATGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCCTTGGAGATCGACCTGGACT
CCATGAGAAATCTGAAGGCCAGCTTGGAGAACAACCCGAGGGAGGTGGAGGCCCGCTACTCCCTACAGATGGTGC
AGCTCATCGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGAGACAGTGCCAGGCCCAGG
AGTAATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCCTGCTGGAAGAT
GGCGAGGACTTCACTCTTGGTGATGCCTTGGACAGCAGGAATCCATGCAAACCATCCAAAAGACCACCACCCGC
CGGAAAGTGATGGCAAAGTGGTGTCTGAGACCAACAACACCAAAGTTCTGAGGCATTAAGCCAGCAGAAGCAGG
GTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTACAGAGTT

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FIGURE 6239

CGGAAGCCGACTCAACAGAGCT**ATCG**CGGGTTTGACTGTGAGAGACCCAGCGGTGGATCGTTCTCTACGTTCTGT
GTTTCGTGGGGAACATTCCCTTATGAAGCTACTGAAGAGCAGTTGAAGGACATCTTTCTGAGGTTGGACCTGTTGT
TAGTTTCAGATTGGTATACGATAGAGAGACAGGAAAGCCAAAGGGTTATGGCTTCTGTGAATACCAAGACCAAGA
GACAGCACTTAGTGCCATGCGGAACCTGAATGGGCGCGAATTCAGTGGGAGAGCACTTCGAGTGGACAATGCTGC
CAGTGAAAAGAACAAGAAGAGCTGAAGAGCCTTGGCACTGGTGCCCCCTGTCATTGAGTCACCTTATGGAGAGAC
CATCAGTCCTGAGGATGCCCCCTGAGTCCATTAGCAAAGCAGTTGCCAGCCTTCCACCAGAGCAGATGTTTGAGCT
GATGAAACAAATGAAGCTCTGTGTCCAGAATAGTCCCCAGGAGGCACGGAACATGTTACTTCAGAACCCTCAACT
GGCTTATGCTTTGCTGCAAGCACAGGTAGTGATGAGAATTGTGGATCCGGAAAATTGCCCTGAAAATTCTGCATCG
CCAGACAAATATCCCAACGCTGATTGCAGGCAACCCCTCAGCCAGTCCATGGTGCTGGGCGCTGGCTCAGGATCCAA
TGTGTCAATGAACCAGCAGAATCCTCAGGCCCCCTCAGGCCCAGTCTTTGGGTGGAATGCATGTCAATGGCGCACC
TCCTCTGATGCAAGCTTCTATGCAGGGTGGAGTTCCAGCACCAGGGCAAATGCCAGCTGCTGTACAGGACCTGG
CCCTGGTTCCCTTAGCTCCTGGAGGAGGAATGCAGGCTCAGGTTGGAATGCCAGGAAGTGGACCAGTGTCCATGGA
ACGGGGGCAAGTGCCGATGCAAGACCCAGAGCAGCTATGCAGCGGGGATCCTTGCCCTGCGAATGTCCCAACCCC
TCGAGGCTTGTTAGGAGATGCTCCGAATGATCCACGGGGAGGCACCTTACTTTCTGTAAGTGGAGAGGTTAGAGCC
TAGAGGTTACTTGGGACCACCTCATCAGGGTCCACCCATGCACCATGTCCCTGGCCATGAGAGCCGAGGACCACC
CCCACATGAACTGAGGGGAGGGCCATTACCCGAGCCCAGACCTCTAATGGCAGAACCAAGAGGACCCATGCTAGA
TCAGAGGGGTCCACCCCTTGATGGCAGAGGTGGAAGGGATCCCCGAGGAATAGATGCACGAGGGATGGAGGCCCCG
AGCCATGGAGGCAAGAGGGTTAGATGCCAGAGGATTAGAGGCCCGTGCAATGGAGGCCCCGTGCGATGGAAGCTCG
TGCAATGGAGGCCCCGAGCGATGGAGGCCCCGTGCAATGGAAGTCCGAGGGATGGAGGCCAGAGGCATGGATACCAG
AGGCCCAGTGCTGGCCCCAGAGGACCTATACCTAGTGGAATGCAGGGTCCCAGTCCAATTAACATGGGGGCGGT
TGTCCCCCAGGGATCCAGACAGGTCCCAGTCATGCAGGGAACAGGAATGCAAGGAGCAAGTATACAGGGTGGAA
CCAGCCTGGCGGCTTTAGTCCCGGCAGAACCAAGTCACTCCACAGGATCATGAGAAGGCTGCTTTGATTATGCA
GGTTCTACAACCTGACTGCAGACCAGATTGCCATGTTGCCTCCTGAGCAAAGGCAGAGTATCCTGATTTTAAAGGA
ACAAATACAGAAATCCACTGGAGCACCT**TGAT**AGGTTTTCAAAAATACCTGGCAAGAAATCTGGAAATTTCTATAA
TTTTGTTGAAATATTGAAAAAGATGACCTGCATCCTAACCCCTGAATGACTCAAATCAGTGCCAGGTGGAGGAC
TCCCATCACCTTCTCTCAGAACAAAATCACTTCATTTTATTGTCTTAGTTTGTATATTTTCTGTGACTTGAAATA
AACTTTGAACACAATTTTAGTACACTGC

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FIGURE 6240

MAGLTVRDPVDRSLRSVFGNIPYEATEEQLKDIFSEVGPVVSFRLVYDRETGKPKGYGFCEYQDQETALSAMR
NLNGREFSGRALRVDNAASEKNKEELKSLGTGAPVIESPYGETISPEDAPESISKAVASLPPEQMFEMLKQMKLC
VQNSPQEARNMLLQNPQLAYALLQAQVVMRIVDPEIALKILHRQTNIPTLIAGNPQPVHGAGPGSGSNVSMNQON
PQAPQAQSLGGMHVNGAPPLMQASMGGVPAPGQMPAAVTGPGPGSLAPGGGMQAQVGMFPGSGPVSMERGQVPMQ
DPRAAMQRGSLPANVPTPRGLLGDAPNDPRGGTLLSVTGEVEPRGYLGPPHQGPPMHHVPGHESRGPPPHEL RGG
PLPEPRPLMAEPRGPMLDQRGPPLDGRGGRDPRGIDARGMEARAMEARGLDARGLEARAMEARAMEARAMEARAM
EARAMEV RGMEARGMDTRGPVPGPRGPIPSGMQGPSPINMGAVVPQGSRQVPVMQGTGMQGASIQGGSQPGGFSP
GQNQVTPQDHEKAALIMQVLQLTADQIAMLPPEQRQSILILKEQIQKSTGAP

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FIGURE 6241

AAGGGTTGGCTGCGCGTGCGGGCGGGAGTAGAGGCGCCTTGCGCACCAGGAAGTGACTGTTTCCCCGCCGCAGCAA
ACCAGGCCATCCGCTGGCCTTTTAGTTTGCCGCCTCAGGTTTGTAAGAGGATTTATTGGTTACGAAGGAAGGTGG
ATTTTCAGTGTGTTCTTTGGATGGCAGGCCCTTAAGAGAAGAGTCCCACTGCACAGCCTCAGATACTTCATCTCCAT
GGTGGGTCTCTTCTCCAAACCAGGACTGCTTCCCTGGTATGCCAGAAATCCACCAGGATGGTCACAGCTCTTTCT
GGGCACAGTATGTAAGGGAGATTTACCCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAAGTCAGAAGAA
ACCAAGCCATCTTGGAACCACTAGATGGTTCTTGGCAGGAAAGGCTGGCTGATGTTGTGACACCACTCTGGAGGTT
GAGCTATGAAGAACAGCTCAAGGTGAAATTTGCAGCTCAGAAGAAAATTTTACAAAGACTAGAGTCTTACATCCA
AATGCTCAATGGAGTCAGTGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTTGTCTTCTCCATCCTATTAT
ACCTCTCTCTGTCAATGGTTACCGAAATAAGTCCACCTTCTCTGTGAACCGAGGTCCAGATGGCAATCCAAA
GACTGTGGGGTTCTACCTGGGAACCTTGGAGAGATGGGAACGTTGTCTGTGTGCAGTCTAATCATCTGAAAAACAT
CCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGACAGTCTCCATTGGAGCCCTGCCTTGT
ATTTTCATGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCAATAGCCAAGGGGCACACAATGGCTATCATCAC
TTTCCATCCCCAGAAATTAAGTCAGGAGGAGCTCCATGTTCAGAAGGAGATTGTAAAGGAATTTTTTCATCAGAGG
TCCTGGAGCAGCCTGTGGCTTGACCTCACTTTACTTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTC
TCCCTATCAGCTTCTGTTTGGGAACCTACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGA
TGCTTTTTTCCAGATTAACACAGCTGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAATC
TGACACCATCCTTCTTGACATCTGCTGTGGAACCTGGTGTGATTGGCCTCTCTCTGGCTCAGCATACTCTCGGGT
CCTTGGGATTGAATTGTTGGAGCAGGCAGTGGAGGATGCAAGATGGACTGCAGCCTTCAATGGCATCACCAACTC
TGAATTTCACTAGGTCAAGCAGAGAAGATTTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGT
TGCTGTGGTGAACCCAGCCCGTGCCGGAAGTGCATTACAAGGTGATTCAAGCCATTGAAAACCTCAGGGCCATCCA
CACGCTAGTTTTTGTCTTCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGTCCTCCAGA
CCCTGCTAAGAAGCTCTTAGGCGAGCCCTTTGTCTGCAAGCTGTACCTGTGGATTTGTTCCCTCACACCCC
ACATTGTGAGCTGGTGTCTCTTTACTCGATAAGCAGCCTCCTAGAAGACAGCAGGCTATTTGTTAAGGCTGAA
GTTTCAGAACTTTTCAGGTTTGGCATATTGCTACATTGCAGACCCTGGGAGCATTACAGTGGAAACCAATCTTTG
GTTTGTGAATAGGAAGAATCTATTAGGCCTCTGGTCTGAGGCAGATTTTTTTTTTTGAGATAGAGTCTCACTCTTG
CCCAGGCTGGAGTGTCTGTGGCGTGATCTCAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCGTGCC
TCAGCTTCCCCAGTAGCTAGGATTAAAGGTGCGTGCCACCATGCCCGGCTAATTTTTTGATTTTTTGGTAGAGACA
GGGTTTCACCAIGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCCACCCGCCTCGGCCCTCAAAGT
GCTGGGATTATAGGCGTGAGCCACCACACCCCCGCCGCGGTGACTTAACCTTAGATTTTCAGATTCCCTTTCAATC
ATGCCCGTTTGCTTGGGTTTGACCACTCCCCACTCCTGGATCTGGACTGTTTCTTCTGTTGCTGTGAGCCTTGG
TTCTAGTTTATAGTCTTGTCTCCTCCGTTTCTGCTTATGGTGTGGACAAATGACCTTTTTTAAGCAGCTGGTAAT
AATTTTACATTGACTGGAGCCTGTGCATTTGCTCAGAGATGCTACAATTTTTTAGATATTTCTAAGACTTCTGGAT
TCTTGAGGTAGTTAAGGATTAAAACCAGAAACAGTCGAGGTTTTTTTAAAGCAGGGTAAGCCATGAAGTGAATAC
AGGGTGACTGAGTGATCATCAGATGAGATTAATCTTTTGGGTTTTCTTGGTTTTAAGGCATCTCGAATGCCCT
TGAAAATGTAGTTTTTCCCTGGTGGTGGGCACCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGATAATTGCTT
GAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAAATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGACAC
CATCTC

6758/6881
FIGURE 6242

GCGGAGTTCGTCTCTGCAAGCTTGGTCGCCCTGGG**ATG**GATTTCCTCCTCCTCTTCCTCCGCGGCGGGTTTGGGTG
CAGTGGACCCACAGTTGCAGCATTTCATCGAGGTAGAGACTCAAAAGCAGCGCTTCCAGCAGCTGGTGCACCAGA
TGAAGTGAACCTTTGTTGGGAGAAAGTGCATGGACAAGCCTGGGCCAAAGTTGGACAGTCGGGCTGAGGCCTGTTTTG
TGAAGTGCCTTGAGCGCTTCATTGATACAAGCCAGTTCATCTTGAATCGACTGGAACAGACCCAGAAATCCAAGC
CAGTTTTCTCAGAAAGCCTTTCTGACT**TGAT**CTCAGCATTACCTCTTTGGAAAAGGAAGGTAGTTCAAGAAATGAA
GAGCTGTTGATGGGATGATTGAAGAAACAGCTATGAGAGGATTGGCTCCCATCTTTTGTTACTCTTGGGACATCC
TGTCATCTGAGAATGAACAAAGACCAATTTTTTGTGTGTGAAGCTTAAGGGTCATATGTTTGCTTGTATTTTTTA
ATGCTAATCTTGTGAAAATAATTGACAGGCGAAAGAAAACCTCTATTTAGATGCATATTACTGTACATGGGACTAT
GCTTTTCTCAAAGCCCCATTAAGTCTTCTATAATTTTGATAGTGGGACCACATACGTAAAAATCTCTCATTG
TGTGGAGTCATTTCTGATTTTCAAGGGGAGATCCTTGTGTTTATCAGAAAGGGCAGAAGTAGGGGAAGAATAATTTG
GTATCCTTATCTAGTGTGTTGATTGTCAATGCTGGAGAAAAATATCTGTAAGAGTGTGTTATACAGTACACTTCAGT
TATCTTGATCTCCCTTTCTTATATGATGATTTGCTTAAATATCCATATTAAGTAAGTCTCAAGGTAGGGTAGGCA
GCCTGAGAGTCTAGAGGCCTTTAGTTATAAAGGAATCTAGCCAGTGAACATAATTCTTATTACTAGACTGCCACA
AGGAAGAAATTAAGTACCTGTATATCAGGGTACAAAAAATTCAGTGATGTGCCTAAATAAGTTATAAAGATTT
AGGCCAATCAGAAGCTAACAGCAGTTTCAGGTAGAGGTGCATGCCTAATGTTAGTTAGTGTAGATTCCATTTACT
GCATTCTTCTGATCACTGAAATAAAAGCTATATAAGATTCATA

6759/6881
FIGURE 6243

MDSSSSSSAAGLGAVDPQLQHFIEVETQKQRFQQLVHQMTELCWEKCMDKPGPKLDSRAEACFVNCVERFIDTSQ
FILNRLEQTQKSKPVFSESLS

6760/6881
FIGURE 6244

GCGGTTTCTTTCTTTCCGCGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCGCGGACTTTCTG
TAAGAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTACGCCCAGGG
AAAGCGGCGTTATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACCTAAGCCGATTTTCCGGAAAAAGGCTAAAC
TACAAAGAAGATTGTGCTAAGGCTTGAGTGCCTTGAGCCCAACTGCAGATCTAAGAGAATGCTGGCTATTAAAG
ATGCAAGCATTTTGAAGTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCAGTTCTAAGTGTCATCTTTTAT
TATGAAGACAATAAAATCTTGAGTTTATGTTCAAAAAAAAAAAAAAAAAAAAA

6761/6881
FIGURE 6245

MVNVPKTRRTFCKKCGKHQPHKVTQYKKGKDSLYAQGKRRYDRKQSGYGGQTKPIFRKKAKTTKKIVLRLECVEP
NCRSKRMLAIKRCKHFELGGDKKRKGQVIQF

6762/6881
FIGURE 6246

CACGTCGGCTGCTGGGAAGATCTGGATTCTCGTTTCAGGTCACCATCAGAAAAGCTAAGTTTGCTGTATAGTGAG
GATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGATTACAGAATCTTGGATGATTTACAAAAAGTTCATCT
TCATTGCAGATACCTGCCTTTCTTTCTAGGTTGTATCTCCCACTTCACCTTCTAGACCATCCCAGAAGATCTAT
AAGATTTTCATCTGGGAAATCACTAGGAGTTCTTGGGAAGGGAAGAAGGAAGATTGTTGGTTGGAATAAAAACAGG
GTTGAATGAGTTCCAGAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAAGAAGAGAACTTCAAAAAAC
CAACTAGAAGCAACATGCAGAGAAGTAAAAATGAGAGGGGCCTCCTCAGGAAAGAAGACAGCTGGTCCACAGCAGA
AAAATCTTGAACCAGCTCTCCCAGGAAGATGGGGTGGTCGCTCTGCAGAGAACCCCCCTTCAGGATCCGTGAGGA
AGACCAGAAAGAACAAGCAGAAGACTCCTGGAAACGGAGATGGTGGCAGTACCAGCGAAGCACCTCAGCCCCCTC
GGAAGAAAAGGGCCCGGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAATAGAATGGAGGTTAAAGTGA
AGATTCCTGAAGAATTAAAACCATGGCTTGTTGAGGACTGGGACTTAGTTACCAGGCAGAAGCAGCTGTTTCAAC
TCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAAATTGCAAGAAATCGCAGGGAAATGTTGATA
ATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAGAATATTTCAATGTGATGTTGGGCACTCAGCTGC
TCTACAAATTTGAGAGGCCCCAGTATGCTGAAATCCTCTTGGCTCACCTGATGCTCCAATGTCCAGGTTTATG
GAGCACCACACCTACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCCCTGATGAGAAAAGCC
TTGCATTATTGTTGGGCTATTTGCATGATTTCTTAAATATCTGGCAAAGAATTCTGCATCTCTCTTTACTGCCA
GTGATTACAAAGTGGCTTCTGCTGAGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTTGT
CCTGTATCTGTAAACACTTTTTGTTCTTAGTCTTTTTCTTGTAATAATTGATGTTCTTTAAATCGTTAATGTATA
ACAGGGCTTATGTTTCAGTTTGTTTTCCGTTCTGTTTTAAACAGAAAATAAAGGAGTGTAAGCTCCTTTTCTCA
TTTCAAAGTTGCTACCAGTGTATGCAGTAATTAGAACAAGAAGAAACATTTCAGTAGAACATTTTATTGCCTAGT
TGACAACATTGCTTGAATGCTGGTGGTTCCTATCCCTTTGACACTACACAATTTTCTAATATGTGTTAATGCTAT
GTGACAAAACGCCCTGATTCTAGTGCCAAAGGTTCAACTTAATGTATATACCTGAAAACCCATGCATTTGTGCT
CTTTTTTTTTTTATGGTGCTTGAAGTAAAAACAGCCCATCCTCTGCAAGTCCATCTATGTTGTTCTTAGGCATTCT
ATCTTTGCTCAAATTGTTGAAGGATGGTGATTTGTTTCATGGTTTTTGATTTGAGTCTAATGCACGTTCTAACA
TGATAGAGGCAATGCATTATTGTGTAGCCACGGTTTTCTGGAAAAGTTGATATTTTAGGAATTGTATTTTCAGATC
TTAAATAAAATTTGTTTCTAAATTTT

6763/6881
FIGURE 6247

MSSRKQGSQPRGQQSAEEENFKKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSGSVRKT
RKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDLVTRQKQLFQLP
AKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILLAHDPAPMSQVYGA
PHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVASAEYHRKAL

6764/6881
FIGURE 6248

TTGGTCTAAGACATGGGCTGACAACTTTTTCCATAAAGGGCCAGAAAGTAAATATTTTCAGGCTTTGTGGGATAT
CTATTTATGATTTATTTTACTCCTAGTATTATTTTCATCTTTTATACAGGTTATTAAGGTTAGTATTGCTGCATAA
CAAATTACTCCAAAATTTAATCATTATATTCAAGAAGAGTTTCAGCTGCTAGGTTCTTATTTTGGGACTCTCATG
ATGCTGAGGTCAAG**ATGCC**CAGCTGGAGGCCAGGCGCCGCAGCTCACGCCTGTAATCCCAGCGTTTTTGGGAGGCCA
GGGGCCTCCCAAATTCAAAAGGAAGAGACAAAGTCCACATCTGTCAATGCGAAGAATGGAAAAGTCCACATATCAT
ATGTGGAGCGGGACATAACAACTTCGGAATTAATCTCTTCCCCAGGTCAGTGTGCGGGCCTTCCACGCTGCCA
GCGGAACACTGGAATGGCGGAAGGGGAACGGGTACGGCAGGGGGAAGGCTGGGGGTGGGGTCTGGGTCGAGTCGA
GGGAAGCTGGCCCGAGTGTGGACAGAGATGGCGGTCTGCGCGTCTGTTGTTCCCAGCGCTCTGCGAAGCCTGAAA
AGGAGGAGCAACCTGTCCAGAATCCCCGCAGGTCCGTGAAAGACAGGAAAAGGAGGGGAAATCTCGACATGGAAA
AACTCTACAGTGAAAATGAAGGAATGGCTTCAAACCAAGGAAAGATGGAATGAAGAACAGCCACAAGACGAGA
GAAAGCCAGAAGTAACCTGTACTCTGGAAGACAAGAAGTTAGAAAACGAGGGAAAGACAGAAAACAAGGGCAAAA
CAGGAGATGAGGAAATGTTAAAGGATAAAGGAAAGCCAGAGAGTGAGGGAGAGGCAAAAGAAGGAAAGTCAGAGA
GGGAGGGAGAGTCAGAGATGGAGGGAGGATCAGAGAGAGAGGGAAAACCAGAGATAGAGGGAAAGCCAGAGAGTG
AAGGAGAGCCAGGGAGTGAAACAAGGGCTGCAGGAAAGCGCCAGCTGAGGATGATGTACCCAGGAAAGCCAAAA
GAAAACTAATAAGGGGCTGGCTCATTACCTCAAGGAGTATAAAGAGGCCATACATGATATGAATTTTCAGCAATG
AGGACATGATAAGAGAATTTGACAATATGGCTAAGGTGCAGGATGAGAAGAGAAAAAGCAAACAGAAATTGGGGG
CGTTTTTGTGGATGCAAAGAAATTTACAGGACCCCTTCTACCCTAGAGGTCCAAGGGAATTCAGGGGTGGCTGCA
GGGCCCCACGAAGGGACATTGAAGACATTCCTTATGT**GTAGT**GTCCCTGGCAGGCATTTACCAGGCCATGTGCTT
TAACGTTACGGTAATACTTTACTTTAGGCATCCCTCCTGTTGCTAGCAGCCTTTTGACCTATCTGCAATGCAGTG
TTCTCAGTAGGAAATGTTTCATCTGTTACATGGAAAAATGTTGATGGTGCATTGTAAAATTAAAAAACACAACCTT
GCAGAACCAAAAAAAA

6765/6881
FIGURE 6249

MPAGGQAPQLTPVIPAFWEARGLPNSKGRDKVHICQCEEWKGHISYVERDITTSEIKSLPQVSVRAFHAASGTLE
WRKGNGYGRGKGWGWGRVESREAGPSVDRDGGGLRVCCSQRSAPKEKEEQPVQNPRRSVKDRKRRGNLDMKLYSE
NEGMASNQGKMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMLKDKGKPESEGEAKEGKSEREGES
EMEGGSEREGKPEIEGKPESEGEFPGSETRAAGKRPAEDDVPRKAKRKTNKGLAHLKEYKEAIDMNFSDNEMIR
EFDNMAKVQDEKRKSKQKLGAFLWMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

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FIGURE 6250

GAAGTCCTGGTAATCTGGTCCTTGTTCCTGCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTGGTCCCTGAG
GCCCCGTGGAAGGAGTCAAACCTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAAG
CTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAAA
GAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAAT
GAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGAG
GCCAAAGCAAAGGAACTTTTAGAGAAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAGG
CATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAAACTTATA
GTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATAT
TAACAATACCATATAGCTTGCTTTTTATTAGCATTTCTCTGATATTCCTTTGTCCATATTTCTACTTATAACCTGT
TGCTATTAATGGTTTTAGATGTATCTCTTGTATCTGCATCTCATTGTTTATTGTATTTTGAACCAATCTACAAG
TCTCTGTCTTTTAATAAAAGAACTTTACACATTTGTAAAAAAGAGGTTCTTGGTAAGATATAAAATGGAAAAAGG
CTAAGTAATATGTGAATATCATATTTTTGAAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTTG
TGAAGGATGAAAGAAAGTACAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTTGTATTT
TCTATATTCCTAAAATTAACACACATTATTATTGCTAGAATAATAAAAGTTTTAT

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FIGURE 6251

CAGGATGACAGCTGGAGAATGGAGTCAGTTTTATCCAAGTATGAAGATCAGATTACTATTTTCACTGACTACCTA
GAAGAATATCCAGATACAGATGAGCTGGTATGGATCTTAGGGAAGCAGCATCTCCTTAAACAGAAAAATCTAAG
CTGTTGCTCTGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTCACCAATTGGTGGAACGGGCCCT
TCATCAGATGCTGGTTGGGGATGTATGCTACGCTGTGGACAGATGATGCTGGCTCAAGCCCTTATCTGTAGACAC
TTGGGAAGGGACTGGAGCTGGGAGAAACAAAAAGAACAACCCAAAGAATACCAACGCATCCTACAGTGCTTCTTA
GATAGAAAAGATTGTTGCTACTCTATCCATCAAATGGCACAAATGGGTGTAGGAGAAGGGAAATCAATTGGAGAA
TGGTTTGGACCAAATACAGTTGCACAGGTGTTAAAAAACTTGCTTTATTTGACGAATGGAATTCCTTGGCTGTT
TATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAAAAATGTGCCGTGTCCTTCCCTTGAGTGCTGAC
ACAGCTGGTGACAGGCCTCCCGATTCTTTAACTGCTTCAAACCAGAGTAAGGGCACCTCTGCCTACTGCACAGCC
TGGAAACCCCTGCTGCTCATTGTGCCCCTTCGCCTGGGCATAAACCAAATCAATCCTGTCTATGTTGATGCATTC
AAAGAGTGTTTTAAGATGCCACAGTCTTTAGGGGCATTAGGAGGAAAACCAAATAACGCGTATTATTTCATAGGA
TTCTTAGGTGACGAGCTCATCTTCTTGGACCCTCATACAACCCAGACCTTTGTTGACACTGAAGAGAATGGAACG
GTTAATGACCAGACTTTCCATTGCCTGCAGTCCCCACAGCGAATGAACATCCTAAACCTGGATCCTTCAGTTGCA
TTGGGATTTTTCTGCAAAGAAGAAAAAGACTTTGATAACTGGTGTAGCCTTGTTTCAGAAGGAAATTCTAAAGGAG
AATTTAAGGATGTTTGAATTAGTTCAGAAACATCCATCACACTGGCCTCCCTTTGTACCTCCAGCCAAGCCAGAA
GTGACAACCACTGGGGCAGAATTCATTGACTCTACTGAGCAACTGGAGGAGTTTGATCTGGAGGAAGATTTTGAG
ATTCTGAGTGTGTAGAATCCTGGGAACCACTTGAAGGTCTG

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FIGURE 6252

MESVLSKYEDQITIFTDYLEEYPDTDELVWILGKQHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPSSDAGW
GCMLRCGQMMLAQALICRHLGRDWSWEKQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEKSIGEWFGPNT
VAQVLKKLALFDEWNSLAVYVSMDNTVVIEDIKKMCRVLPLSADTAGDRPPDSLTAQNQSKGTSAYCTAWKPLLL
IVPLRLGINQINPVYVDAFKECFKMPQSLGALGGKPNNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTF
HCLQSPQRMNINLDPVALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHPSHWPPFVPPAKPEVTTTGA
EFIDSTEQLEEFDLLEEDFEILSV

6769/6881
FIGURE 6253

CTTTCCTCTCCCAAC**ATG**GCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAAATCGGGATTCTGACAAAACA
GATACGGACTGGAGGGCTTGTCTTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAA
GTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGG
CGGGGACCGCTATGAAGACTGATATGACAGACGGGATGA

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FIGURE 6254

MAASAKKKKKGKTISLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFYAEFEDLDSL
LSALSLNEESLSNRRIRVDVADQALDKDRDDPPFGRDRNRDSDKTDTDWRARPATDTFDDYPPRGDDSFCDKL

6771/6881
FIGURE 6255

CTTTCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTGGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGAGTATCGGGATCGTTATGATTACAGACCGGTATCGGGATGGGTATCGGGATGGC
CCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGCTATGATGACCAAGGCAGCAGAGACTATGATAGAGGC
TATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGTCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGGC
GGGGACCGCTATGAAGACTGATATGACAGACGGGATGATCGGTCTGAGCTCCAGAGATGATTACTCTCGGGAT
GATTATAGGTGTGATGATAGACGTCCCCCCCCAAAGACCCAACTGAATCTAAAGCCTTGAGTACTCTTAAGCAA
GATGATTCTCTGCTAGTACCTCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTG

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FIGURE 6256

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGG
GGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGATGACCTGGAAGGAGATG
TTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGTTCCATCCTTCCCCTG
CTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTAG
GAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTTCGAGGATTAAATATCAGTGCAGTGC GTT
TACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGC
TCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTTGCTGATCAAGCACAGG
ATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACGGACTGGAGGG
CTTGTCCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGGGATCGTTAT
GATTTCAGACCGGTATCGGGATGGGTATCGGGATGGCCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGC
TATGATGACCAAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGGC
AGCGGGTATCGCAGGGATGATGACTACAGAGGAGGCGGGGACCGCTATGAAGACTGATATGACAGACGGGATGAT
CGGTCGTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGTGTGATGATAGACGTCCCCCCCCAAGACCC
AAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAAGATGATTCTCTGCTAGTACCTCCAGTCCACTCGAGCT
GCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACAGAAG
GAACAAGAGAAGTTGCAGCGTCAGCTGAGTGAGCCAAAAC TAGAACGACGGCCTCGGGAGAGACACCCAAGCTGG
CGAAGTGAAGAACTCAGGAACGGGAACGGTCAAGGACAGGAAGTGAGTCATCGCAGACTGGGACCTCCACCACA
TCTGGCAGAAATGCACGAAGGAGAGAGAGTAAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGC
CACTCTCCAACCTCTAAACCTCCCAAACCTGATCAGCCCCTAAAGGTAATGCCAGCCCCTCCACCAAAGGAGAAT
GCTTGGGTGAAGCGAAGTTCTAACCTCCTGCTCGATCTCAGAGCTCAGACGCAGAGCAGCAATCCCCTACAAGT
GGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGCAAGGCAAGATGAAAAATAAGTAGATGGG
ATGAATGTCCCAAAGGCCAAACTGGGAACTCTAGCCGTGGTCCAGGAGACGGAGGGAACAAAGACCACTGGAAG
GAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAAT
CCAGCTTCCAAGTTCAGTTCTGCAAGCAACTATGCTGCTCTCTTGTATGGTGAAGATGAAAATGAGGGAGAAGA
TTATGCCGAATAG

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FIGURE 6257

AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGCTCCTTTCAACCCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGGCTCCCCCAGACAGCCGTGGGGACAA
GTTAGAGCCAGCACTTTACCCCGGGCCTTGCGTGTAGCTTCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGGTTGTGGGGGTGTGCCCGCCTTACATGGTCCACCACCGGGCAACCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTCCTGTACTGTGGTCAAGGGGAACCACTGCATCATGTCCCGGTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCCACTTTTGCAGGCAATGGGGGGCCCCGACTGTGCTGCCTTCCTCTCTTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCCCTGACCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCATCTACCTGCTCAACCCCTGTCACTGGTCAACCATGATGCATCTCCCCTTTGAATTGGAGATT
TACTACATTCAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTTATCACTTCAGCGTCTTGCAGATC
CTCGGCCTGGTCACCGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCCTGG
TATCGCATCTGGGCCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCCTGTTCTCATAC
ATGGCTGGGCCCCCTGTGTAAATATCTGCTGGATTTGCTCCGGCTTCCAGCCAAGAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCTCCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGGAGAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTTCTCCTTTCTGTCCCTTTCTTCTACCACTCTTCCCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGTGTAGTGTGGGCGCTGGATTTTCTCCTTCCCTTTGG
CTCTCTCCTCAAACCTCATCGCATTATAGAAGCTGCTTGCAGGGTCGCCGGGCTAACCAGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTGAGATCACCCTTTTGCTGTAGCCTCTGTTGAGGTTTTTATATTTG
TGATCATTGGTAATTCAGTGTCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTCAGCAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCTTGGGGGTAAGCTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTC
CCTCTGCCAAAAAGACTTCCTTGGATTTGTAGATGTTGACCCAGAGTCCTCTGTCCCCTCCTGAAGAGGATTTTC
TTACTGGTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAGGACCATGTGTGATGCTGTTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTTGGGCTCAGGAAAACCTAGTCGCTTGTTGCTCTCGTCTGTGACATTTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAACTCTTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAATCTTTCAATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTTCTGTGTCAGGAGCTTAGCAAATGCCTCTGCCCCCTCT
TCCCCTACCCCTGTCTTCTCAGTTCCCAGCTGGGATTGCTATGCACTGGGCAGACCCGTCAGTGTCTCCCCTG
AACCCCCACACAGTGGCTTCCCTTAGAACCAGTCTTTGTACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTTGT
CAGGCTGGTTCTTGCCTGCTCTGTGCCCCACCAGTTTGCTCACCTCTTGGGGCATTGTGTAATGTGTTTTCTCT
GTCTTGTAACCTTTTGATTGTACCGAAATGGTATCTGCAGTCGCCTTTGGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTCTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6258

MSRYSYQSLLDWLYGGVDPSPFAGNGGPDCAAFLSWQQRLLESVVVLTLLALLEILVALRHILRQTKEDGRGSPGSQ
PEQVTQRPEEGKESLSKNLLLVALCLTFGVEVGFKFATKTVIYLLNPCHLVTTMMHLPFELEIYYIQHVMLYVVP I
YLLWKGGAYTPEPLSSFRWALLSTGLMFFYHFSVLQILGLVTEVNLNNMLCPAISDPFYGPWYRIWASGHQTLMT
MTHGKLVILFSYAGPLCKYLLDLLRLPAKKID

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FIGURE 6259

ATGCTGTATGAATTCCAAACTGTTGCTTCACACCCAATGTCAGGATACTCAACCATGATTGGAATCAATAAACTA
CAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGG
CTGAGAGGGCGGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAAC
ACCGCCCCACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCT
TCCTGTCCGGGAACGGCCCGGCGTCCTGGCTGTCCAGCTAGTCCTGGCGCCTCTCTCTGGGGCTTCCACGCCCCG
ACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATCCGTCCGAGCACCTGCCCTAGTCCTGCC
TGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGCGAAGGCACCGGCAAGGGGCTGGGGGAA
GAGCCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCCCAAACACACCTCTCCTCCTCACACCTG
GCCTACGTCCAACCTCTCCACGGCTCTACCCAGAAGGCTGCACGACTTCTTGCCACGTGCGCCTTCAAAACGGTA
AGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAG
TACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCCACGGGACCGCTCTCGAGGTCCCCCAAG
CCAAGGCAGAGTCCGACGGGTCTTCTTCTGGGTGCCCCCGGCTTCCCGGACTCCAGCAGGCCTGGGAAGGCCC
CGGGCCCCCTTAGCCGATGCCCAGAGAGTCTCCATTTCTCAAGCTTTGCCACCGAACTCATCGGTTCGGACGCAAG
GAGGAACGCCCCGGCGCCGGCCAGCAGCGGCGGGCACC GGCGCCAATGGCCACGGAACCTCAGCACTGGCAGTCGG
CCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGAGCCGTCACCC
CGGTTGCTCCCACGGGAAGGGGCACCAGGCCAACTGCCCAAGGCCCCGAGCCCAGGCTCCCTGGCGGAGGCCTCC
GCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCTTCTGTCCGGGAACGGCCCGGCGTCC
TGGCTGTCCAGCTAG

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FIGURE 6260

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPAGAGQQRRAPAPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPFLAPEFWLPVRERPGVLAVQLVLAPLSGASTARPRGGACFS
RTSRDLGSVRAPALVLPGPPGQSQATPPQASTAKAPARGWGKSPRQPTSRKKGASGHPKHTSPPHTWPTSNPRL
YPEGCTTSCPRAPSKR

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FIGURE 6261

ATGCCCCGCGGCCAACTTTCTTCTTGGACCCACAAGGAGGAACGACCCGGGTGCCGGCAAGAAGCCGCGGGAA
GCCCCGCGCCATTGGCACACGGAATCTCGGCAATTGCCAATTCGGCCTACTTACAAACCGCAAGGCTTGCCATTTT
GGCCCAACGGAACCTTCCCGGCCCAAGAAGCCAGCTTGGCCCTTAACCCCGTTTGCTTCCACGGAAGGGGCAA
CCAAGCAAAATGCCCAAGGCCCCCGAGCCAGGGGTCCCTGCCGAAGGCCTCCGCTGGTCCCGCCCAGATCATGG
GCGCCACCAGGCTCCCGAGCCGTGGCTTCCTGTCCGGGAACGGCCCCGGCGTCTTGCTGTCCAGCTAGTCCTGGC
GCCTCTCTCTGGGGCTTCCACCGCCCGACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATG
CGTCCGAGCACCTGCCCTAGTCCTGCCTGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGC
GAAGGCACCGGCAAGGGGCTGGGGGAAGAGCCCACGCCAGCCTACGTCACGCAGGAAGGGAGCCAGTGGCCACCC
CAAACACACCTCTCCTCCTCACACCTGGCCTACGTCCAACCTCTCCACGGCTCTGCCCAGAAGGCTGCACGACTTC
TTGCCCACGTGCGCCTTCAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGC
GGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCC
ACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCCCCGGA
AGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCCGCTCCAAGACAACCTCGGGGACATGGACACAACAA
GACAGGGTGGCAAGTCTCAACAAGGCGGGTGC GCGGCGTCTGAAGGCGTGCAGTGTGGCCGACGGAGCCTCCCCG
GCCGAGGACCCAGCTAGGCCGTCACCCCGTTGCTCCACGGGAAGGGGCACCAGGCAAACCTGCCCAAGGCCCCG
AGCCCAGGCTCCCTGGCGGAGGCCTCCGCTGGTCCCGCCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGC
TTCTGTCCGGGAACGGCCCCGCGTCCTGGCTGTCCAGCTTAG

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FIGURE 6262

MPRGQLSSLDPQGGTTRVPARSRREARAIGTRNLGNCQFGLLTNRKACHFGPTEPSRPKNPAWPLTPVCFHGKGQ
PSKMPKAPEPRGPCRRPPLVPPRSWAPPGSRAVASCPGTARRPGCPASPGASLWGFHRPTPRRSLLLSDLQRPRM
RPSTCPSPAWSVRTVPSHSSPGEHSEGTGKGLGEEPTPAYVTQEGSQWPPQTHLSSSHLAYVQLSTALPRRLHDF
LPTCAFKTVRAATERVRHGADRLRGGGRDAHELKYPDTPSTSTTTSNTAPTGPLSRSPKPRARACAPPKTSGVPG
RPPGRNEHHGERPASKTTSGTWTQQDRVASLNKAGARRLKACSVADGASRAEDPARPSRLLPREGAPGKLPKAP
SPGSLAEASAGPAQIMAATRLPSRGFLSGNGPASWLSS

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FIGURE 6263

CCCTCACCTCCCAGGAATGGGGAGGGGGCATCCTACCCCATATCTGAGGTGCGACTGCGGGACGTAGAGCGGACT
GGGCCTTTCCCGTTGGCGCGTGGCCTCAATCAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCA
ACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAGTACCCGGAC
ACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGGACG
CAAGGAGGAACGCCCCGGCGCGCGGCCAGCAGCGGCGGGCACCGGCCCAATGGCCACGGAATCAGCACTGGCAG
TCGGCCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGGCCGTCA
CCCCGGTTGCTCCCACGGGAAGGGGCACCAGGCAAACCTGCCCAAGGCCCGAGCCAGGCTCCCTGGCGGAGGCC
TCCGCTGGACTTCTTGCCACGTGCGCCTTCAAAACGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCC
CCGGAAGGCCCCCAGGCAGAAATTGAGCACCACGGGGAACGGCCCGCCTCCAAGACAACCTCGGGGACATGGACAC
AACAAGACAGGGTGGCAAGTCTCAACAAGGCGGGCTGGCGTGGGCTCTTCCCCCAGCCCCTTGCCGGTGCTGCCA
CGTGAGAAGGGCCCCGGGTGCCGTCCCGCTATTCCGGAATTGTGGGTTACCTGAAGTTTGAGGCCAAACCCCCA
GCGGTCAGTGGGACGCCAGTCGCCTTTGACCTCTTGGTCAAGCTGGCCTTGCCGTGA

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FIGURE 6264

MPMNSSTRTRPFLLPFRVTPPPRDRSRGPPSQGRKEERFGARFPAAGTGPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHFGCSHGKGHQANCPRPRAQAPWRRPPLDFLPTCAFKTGKGLRTPKDKRGPRKAPRQK

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FIGURE 6265

AGGGAGCGCACGACGTGCGCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGCAGCTCCTGGTGC
TGCTTGGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCC
ATGGCCGACGAAAAACCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAG
GATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGA
CAGGGATTGTCAGTGAGGCAGATCAGATTCCGATTGACGGGCAACCAATCAATGAAACAGACACACCTGCACAG
TTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTG
CTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGGTTCCAC
CACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCAATTTCCCCCTTCCCTATTCTTTATTGTACATAAA
GTAACTGGTATATGTACACAAGCATATTGCATTTTTTTTTAACTAAACAGCCAATGATATGTTTTGATTGACATCA
AGTGGAGATGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCCTTTCTCCATTAGTGGCATGCTCATTGAG
CTCTTATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAAAAACAACAACAACAACATAAAA
ATCCTTGACATACCTTTTTCAATTGGAGAATTTTAATGATTTTCATTTATCATTGTAAAACCAAGGACAATTTTAT
AACTTTTTCGTACATAGCTGCTACATGTAGGGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAAACAAAAA
GAATCCTAGATACTTTTCCCTTCAAGTCAAGCGTCTGTTTAAATAAACTGCTTGTTTAAATG

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FIGURE 6266

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSVRQIRFRFDGQPINETDTPAQ
LEMEDEDTIDVFQQQTGGVY

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FIGURE 6267

GCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGCAGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCCATGGCCGACGAAAAACCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGACAGTGGAAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACCTGCAATTTGGTTCCACCACATCCTGACTACTA
CCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCTATTCCTTTATTGTACATA

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FIGURE 6268

CACAACAAACAGGCCACTGAGAATACAAAGGAGGAAGTGAAAACCTATGTGAGAAGATGGCCCAGTCTGATGCTAA
AAAGTTTGTGGAAAGCCAGCCTAAAAAGGACACACCACGAAAGAGAAGCGTTCACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCAGGAGGAGAAAAAGGCGGCTGCCCCTACTCCTGAGGAGGAGATGGATGAATGTGAGCAGGCGCT
GGCCGCTGAGCCCAAGGCCAAGGACCCCTTTGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTGAAGCT
CAAGTACTCCAATGAGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACTGCTGGTCC
CTGTGGTACTCAGAGTGTGCTTCCCTGAAGAATCACTCAGACCTTCATGAGCTGCAATCTCATCACTGGAATG
TTCCAGTGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTCATCCTCTTTGGAACCAACAATATCAGCTCC
ATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCTTTCCACTGAGTCCAGATTGGCAGGTGGGCTATGAG
TCATACACATGGCAGAACTGGATCCTGGCAGCGAGGAGACCCAGATGCTGGTTCGAGAGTACTTTTCCTGGGAG
GG

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FIGURE 6269

ATCTTTAAATGGATGAGATGGCTACCACTCAGATTTCCAAAGATGAGCTTGATGAACTCAAAGAGGCCTTTGCAA
AAGTTGATCTCAACAGCAACGGATTTCATTTGTGACTATGAACTTCATGAGCTCTTCAAGGAAGCTAATATGCCAT
TACCAGGATATAAAGTGAGAGAAATTATTTCAGAACTCATGCTGGATGGTGACAGGAATAAAGATGGGAAAATAA
GTTTTGACGAATTTGTTTATATTTTTCAAGAGGTAAAAAGTAGTGATATTGCCAAGACCTTCCGCAAAGCAATCA
ACAGGAAAGAAGGTATTTGTGCTCTGGGTGGAACCTTCAGAGTTGTCCAGCGAAGGAACACAGCATTCTTACTCAG
AGGAAGAAAAATATGCTTTTGTAACTGGATAAAACAAAGCTTTGGAAAATGATCCTGATTGTAGACATGTTATAC
CAATGAACCCCTAACACCGATGACCTGTTCAAAGCTGTTGGTGATGGAATTGTGCTTTGTAAAATGATTAACCTTT
CAGTTCCTGATACCATTGATGAAAGAGCAATCAACAAGAAGAACTTACACCCTTCATCATTAGGAAAACCTTGA
ACTTGGCACTGAACTCTGCTTCTGCCATTGGGTGTCAATGTTGTGAACATTGGTGACAGAAAGATTTGAGGGCTGGGA
AACCTCATCTGGTTTTGGGACTGCTTTGGCAGATCATTAAAGATCGGTTTGTTCGCTGACATTGAATTAAGCAGGA
ATGAAGCCTTGGCTGCTTTACTCCGAGATGGTGAGACTTTGGAGGAACCTTATGAAATTGTCTCCAGAAGAGCTTC
TGCTTAGATGGGCAAACCTTTCATTTGGAAAACCTCGGGCTGGCAAAAAATTAACAACCTTTAGTGCTGACATCAAGG
ATTCCAAAGCCTATTTCCATCTTCTCAATCAATCGCACCAAAGGACAAAAGGAAGGTGAACCACGGATAGATA
TTAACATGTCTCAGGTTTCAATGAAACAGATGATTTGAAGAGAGCTGAGAGTATGCTTCAACAAGCAGATAAAATTAG
GTTGCAGACAGTTTGTACCCCTGCTGATGTTGTGTCAGTGGAACCCCAAACCTCAACTTAGCTTTCTGTTGCTAACC
TGTTTAATAAATACCCAGCACTAACTAAGCCAGAGAACCAGGATATTGACTGGACTCTATTAGAAGGAGAAAACCTC
GTGAAGAAAGAACCTTCCGTAACCTGGATGAACTCTCTGGTGTCATCCTCACGTAAACCATCTCTATGCTGACC
TGCAAGATGCCCTGGTAATCTTACAGTTATATGAACGAATTAAAGTTCCTGTTGACTGGAGTAAGGTTAATAAAC
CTCCATACCCGAAACTGGGAGCCAACATGAAAAAGCTAGAAAACCTGCAACTATGCTGTTGAATTAGGGAAGCATC
CTGCTAAATTCTCCCTGGTTGGCATTGGAGGGCAAGACCTGAATGATGGGAACCAACCCTGACTTTAGCTTTAG
TCTGGCAGCTGATGAGAAGATATACCCTCAATGTCTCTGGAAGATCTTGGAGATGGTCAGAAAGCCAATGACGACA
TCATTGTGAACTGGGTGAACAGAACGTTGAGTGAAGCTGGAAAATCAACTTCCATTAGAGTTTTAAGGACAAGA
CGATCAGCTCCAGTTTGGCAGTTGTGGATTTAATTGATGCCATCCAGCCAGGCTGTATAAACTATGACCTTGTGA
AGAGTGGCAATCTAACAGAAGATGACAAGCACAATAATGCCAAGTATGCAGTGTCAATGGCTAGAAGAATCGGAG
CCAGAGTGTATGCTCTCCCTGAAGACCTTGTGGAAGTAAAGCCCAAGATGGTCATGACTGTGTTTGCATGTTTGA
TGGGCAGGGGAATGAAGAGAGTGTAAAATAACCAATCTGAATAAAACAGCCATGCTCCCAGGTGCATGATTTCGCA
GGTCAGCTATTTCCAGGTGAAGTGCTTATGGCTTAAGGAACTCTTGGCCATTCAAAGGACTTTTTCATTTTGATTA
ACAGGACTAGCTTATCATGAGAGCCCTCAGGGGAAAGGGTTTAAGAAAAACAACCTCCTCTTTCCCATAGTCAGAG
TTGAATTTGTCAGGCACGCCTGAAATGTGCTCATAGCCAAAACATTTTACTCTCTCCTCCTAGAATGCTGCCCTT
GACATTTCCCATTGCTGTATGTTATTTCTTGCTCTGTTATCTTTTGCCCTCTTAGAATGTCCCTCTCTTGGGACT
TGCTTAGATGATGGGATATGAATATTATTAGACAGTAATTTTGCTTTCCATCCAGTATGCTAGTTCTTATTCGAG
AACTATGGTCAGAGCGTATTTGGATATGAGTATCCTTTGCTTATCTTTGTAGTACTGAAAATTTGCCGAAGTAAC
TGGCTGTGCAGAATGTAATAGAAGCTTTTCTTATTCTTTTATTCTTAAGATCAGTATCTTTTACAGTATTCTTT
CTACATGATCCTTTTTTGTACATTTAAGAATATTTTGATTATATTAAACAAGACTGCTGATTTTGTACTTTTTT
TAAGGGGTCTTCAAGTAAGTAAAACATACATCGTAGCTAGAAGAAAAATGTACCTTAAATTTGCATCTTCCCTCT
CATACCCAAGCTGTAAACAATTGAAATATTTTGTCTTAAATCACTTGGTTCAATACATGCTTATTTGTTTTAAAA
CCTGTATCATCAAACCTCTCTCTCTAAATTTAAAATGCTGTTGAATATGATACTTTTGAGGAGAGAGTGTGCTCAG
AACTTAGACGGGATTTGGTAGGCCAAGTATGCTAAGTGTACAATATATTTTTTAATTTTACACCTGAAACAAAGA
AATGTGGTCACTAAAAATAAAGTATATATGTAGGAATTAATGTACTCTTGCTTTGTCAAGCTGTTTGTCTATAGT
TTCCAAGGTATTATGTTACTCTAACTCTGAAAAGTGATGTAATCTGGTAGCAATGTAGTAGTTCAAATAAAGGCA
TTTACATAAT

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FIGURE 6270A

TGCCAAGGCTCCAGCCCGCGCGGGCTCCGAGGCGAGAGGCTGC**ATG**GAGTGGCCGGCGCGGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGGGGCGGGGGCGGGGGCGCCGCGCCTACGGAACTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAACTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCCAGTGTAGCACCAATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCCCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTTCTTGGCTCCCTGGAAGGAATACCAGTCCCGACACTAACTATACTCTCTA
CTATTGGCACAGAAGCCTGGAAAAAATTCATCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTT
CTTTGATCTGACCAAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAACTTCCCGTGTGAAACCTGATCCTCCACATATTAACCT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCTATTTTATGA
AGTAGAAGTCAATAACAGCCAAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTCATGGTCCCTGGTGTCTTCTGATACTTTGAACACAGTCAG
AATAAGAGTCAAAACAAATAAGTTATGCTATGAGGATGACAACTCTGGAGTAATTGGAGCCAAGAAATGAGTAT
AGGTAAGAAGCGCAATTCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGAGGTGCAATCAT
AGTACTCCTGCTTTACCTAAAAGGCTCAAGATTATTATATTCCTCCAATTCCTGATCCTGGCAAGATTTTTTAA
AGAAATGTTTGGAGACCAGAATGATGATACTCTGCACTGGAAGAAGTACGACATCTATGAGAAGCAAACCAAGGA
GGAAACCGACTCTGTAGTGCTGATAGAAAACCTGAAGAAAGCCTCTCAG**TGAT**GGAGATAATTTATTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCCATTTCTCCATTTGTTATCTGGGAACCTATTAAATGGAACTGAAACTAC
TGCACCATTTAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAGCCAGCAGGCTTCAAACCTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACCTCCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTTGTAGGGGAACTCATTGGGGTGCAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAAATGGATAAAATCTGATATGTATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAACTCTTTTAAACAGTCTGGGCTGGGTCCGGTGGCTCACGCCTGTAATCCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTGAGGATTCCAGACCAGCCTGACCAAAATGGTGAAACCTCCTC
TCTACTAAAACACAAAATTAACCTGGGTGTGGTGGCGCGTGCCTGTAATCCCAGCTACTCGGGAAGCTGAGGCA
GGTGAATTGTTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATCACACCCTGCACTCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAAACAAAACAAAACAAAACAAAAAACCTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCTCTGCTTTGAAAGCCCCAGAAATCAGTGTGGCCATGATGACAACCTACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTTAGGCTGTTAGGGGCAGTGGAGGTAGAATGACTC
CTTGGGTATTAGAGTTTCAACCATGAAGTCTCTAACAATGTATTTCTTCACTCTGCTACTCAAGTAGCATTTA
CTGTGTCTTTGGTTTGTGCTAGGCCCGGGTGTGAAGCACAGACCCCTCCAGGGGTTTACAGTCTATTTGAGA
CTCCTCAGTTCTTGCCACTTTTTTTTTTAACTCTCCACCAGTCATTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCTTTTGCATTCTCCCTCCTTCCCTTCTGTAGCCTTTTGACTTTCATTGGAAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTTAAGTGTGAGTAATCTGAGAAACAAT
GACTAATTCCTGCATATTTTGTAACTTCCATGTGAGGGTTTTCAGCATTGATATTTGTGCATTTTCTAAACAGAG
ATGAGGTGGTATCTTCACGTAGAACATTGGTATTGCTTGAGAAAAAAGAATAGTTGAACCTATTTCTCTTTCT
TTACAAGATGGGTCCAGGATTCCTCTTTTCTCTGCCATAAATGATTAATTAATAGCTTTTGTGTCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTTATGCTTTTGGGGGCGATATATTGGGTCCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCTCTACTCTTACTTCCCCCAAATTTAAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCCTCACACACAGACTCATATTACTGGTAGGAACCTTGAGAACTTTATTTCCAAGTTGTTCAAA
CATTTACCAATCATATTAATACAATGATGCTATTTGCAATTCCTGCTCCTAGGGGAGGGGAGATAAGAAACCCCTC
ACTCTCTACAGGTTTGGGTACAAGTGGCAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTCATGACAAATGGCAGATGTAAAGTTATTCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTTCTCTAGAAAAGAATATTTGGTTTTCTGTATAGGAATGAGATTAATTCC
TTTCCAGGTATTTTATAATTCTGGGAAGCAAAACCCATGCCTCCCCCTAGCCATTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTTCCCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGAA

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FIGURE 6270B

GTGATCTTTTGTTCCTCCTCTTTTAGCAGTAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCCATCCC
CTGTGGGAAATTAGTAGGCTCATTTACTGTTTTAGGTCTAGCCTATGTGGATTTTTCCCTAACATAACCTAAGCAA
ACCCAGTGTGAGGATGGTAATTCTTATTCTTTCGTTTCAAGTTAAGTTTTCCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTAAACATTTTTGGTAGTCTTCAACCAGGAGTTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAATAAATATTGTCTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAAACTCCAGCTT

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FIGURE 6271

MEWPARLCGLWALLLCAGGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHF GDKQD
KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDLYVQWENPQNFISRCLFYEEVNNSTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPTLNTVRIRVKTNKLCEYEDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIIF
PPIPDGKIFKEMFGDQNDLTLHWKKYDIYEKQTKETDSVVLIENTLKKASQ

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FIGURE 6272

GACCCACGCGTCCGGGGAGGAGAAAAGTGGCGAGTTCGGGATCCCTGCCTAGCGCGGCCCAACCTTTACTCCAGAG
ATC**ATGG**GCTGCCGAGGATGTGGTGGCGACTGGCGCCGACCCAAGCGATCTGGAGAGCGGCGGGCTGCTGCATGAG
ATTTTCACGTCGCCGCTCAACCTGCTGCTGCTTGGCCTCTGCATCTTCCTGCTCTACAAGATCGTGC CGGGGAC
CAGCCGGCGGCCAGCGGCGACAGCGACGACGAGCCGCCCCCTCTGCCCCGCTCAAGCGGCGCGACTTCACC
CCCGCCGAGCTGCGGCGCTTCGACGGCGTCCAGGACCCGCGCATACTCATGGCCATCAACGGCAAGGTGTTGAT
GTGACCAAAGGCCGCAAATTCTACGGGCCCCGAGGGGCCGTATGGGGTCTTTGCTGGAAGAGATGCATCCAGGGGC
CTTGCCACATTTTGCCTGGATAAGGAAGCACTGAAGGATGAGTACGATGACCTTTCTGACCTCACTGCTGCCAG
CAGGAGACTCTGAGTGACTGGGAGTCTCAGTTCACTTTCAAGTATCATCACGTGGGCAAACCTGCTGAAGGAGGGG
GAGGAGCCCACTGTGTACTCAGATGAGGAAGAACAAAAGATGAGAGTGCCCGGAAAAATGAT**TAA**AGCATTTCAG
TGGAAGTATATCTATTTTTGTATTTTGCAAATCATTTGTAACAGTCCACTCTGTCTTTAAACATAGTGATTAC
AATATTTAGAAAGTTTTGAGCACTTGCTATAAGTTTTTTAATTAACATCACTAGTGACACTAATAAAATTAACCTT
CTTAGAATGCATGATGTGTTTGTGTGTCACAAATCCAGAAAGTGAAGTGCAGTGCTGTAATACACATGTTAATAC
TGTTTTTCTTCTATCTGTAGTTAGTACAGGATGAATTTAAATGTGTTTTTCTTGAGAGACAAGGAAGACTTGGGT
ATTTCCCAAACAGGTAAAAATCTTAAATGTGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATGTTCTGTAA
AGACAACAAATCCCTTTTTTTTTCTCAATTGACTTAACTGCATGATTTCTGTTTTATCTACCTCTAAAGCAAATC
TGCAGTGTTCCAAAGACTTTGGTATGGATTAAGCGCTGTCCAGTAACAAAATGAAATCTCAAACAGAGCTCAGC
TGCAAAAAAGCATATTTTCTGTGTTTCTGGACTGCACTGTTGTCTTGCCTCACATAGACACTCAGACACCCCTC
ACAAACACAGTAGTCTATAGTTAGGATTAAAATAGGATCTGAACATTCAAAGAAAGCTTTGGAAAAAAGAGCT
GGCTGGCCTAAAAACCTAAATATATGATGAAGATTGTAGGACTGTCTTCCCAAGCCCCATGTTTCATGGTGGGGCA
ATGGTTATTTGGTTATTTTACTCAATTGGTTACTCTCATTTGAAATGAGGGAGGGACATACAGAATAGGAACAGG
TGTTTGCTCTCCTAAGAGCCTTCATGCACACCCCTGAACACGAGGAAACAGTACAGTCGCTAGTCAAGTGGTTT
TTAAAGTAAAGTATATTCATAAGGTAACAGTTATTCTGTTGTTATAAACTATAACCACTGCAAAAGTAGTAGTC
AAGTGTCTAGGTCTTTGATATTGCTCTTTTGGTTAACTAAGCTTAAGTAGACTATACAGTTGTATGAATTTGT
AAAAGTATATGAACACCTAGTGAGATTTCAAACCTGTAATTGTGGTTAAATAGTCATTGTATTTTCTTGTGAAC
GTGTTTTATGATTTTACCTCAAATCAGAAAACAAAATGATGTGCTTTGGTCAGTTAATAAAAATGGTTTTACCCA
CTAAAAAAAAAAAAA

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FIGURE 6273

MAAEDVVATGADPSDLES GGLLHEIFTSP L N L L L L L G L C I F L L Y K I V R G D Q P A A S G D S D D D E F P P L P R L K R R D F T P
A E L R R F D G V Q D P R I L M A I N G K V F D V T K G R K F Y G P E G P Y G V F A G R D A S R G L A T F C L D K E A L K D E Y D D L S D L T A A Q Q
E T L S D W E S Q F T F K Y H H V G K L L K E G E E P T V Y S D E E E P K D E S A R K N D

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FIGURE 6274

CCGCAGCGCCGGAGTCAAAGCCGGTTCCTGGCCCCAGTCCCGTCCTGCAGCAGTCTGCCTCCTCTTTCAACATGAC
AGATGCCGCTGTGTCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGC
GCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAA
AGGCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCTTCTGGCGCGGTAACTGGCCAA
TGTCATCAGATACTTCCCCACCCAGGCTCTTAACCTTCGCCTTCAAAGATAAAATACAAGCAGATCTTCCTGGGTGG
TGTGGACAAGAGAACCCAGTTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATC
CCTGTGTTTTGTGTACCCCTCTTGATTTTGGCCGTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAG
GGAATTCGAGGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTT
TAACGTGTCTGTGCAGGGTATTATCAICTACCGAGCCGCCTACTTCGGTATCTATGACACTGCAAAGGGAATGCT
TCCGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTTGAC
TTCCTATCCATTTGACACTGTTCCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAACTGACATCATGTACAC
AGGCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTTCAAGGGTGCATGGTCCAA
TGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGATGATGAAATCAAGAAGTACACATAAGTTATTTT
CTAGGATTTTTCCCCCTGTGAACAGGCATGTTGTATTATATAACATATCTTGAGCATTCTTGACAGACTCCTGGC
TGTCAGTTTCTCAGTGGCAACTATTTACTGGTTGAAAATGGGAAGCAATAATATTATCTGACCAGTTTTCTCTT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTTATTTTCAAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAAATATCTAAAAT

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FIGURE 6275

GCGACCCCTCTTCTTGGCGTAGAGTTTTTCAGATTGCTCTTGGGAATCATGCCGAAAGTAGTGTCTCGGTCACTAGT
CTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCCTCCATGTTTACTACTGTTTGTGCGG
CCAGATGGTCCTAGTGCTGGACTGCCAGTTAGAGAAATTGCCCATGAGGCCCCGGGACCGGTCCCGTGTGATTGA
TGCTGCCAAACATGCCCATAGTTTGTAAACACAGAAGATGAGGAGACTATGTATCTGCGGAGACCTGAAGGCAT
TGAACGACAGTACAGGAAGAAATGTGCAAAGTGTGGACTGCCGCTCTTCTACCAATCCCAGCCAAAGAATGCTCC
TGTTACCTTCATTGTGGATGGAGCAGTAGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGAA
ACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTACCGTGTGTC
TACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCATATGCACAGAATGCCAAAGTGAT
TGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCGACTGCAAGAGCTGGCTGAATTGGAAGCCAAGAAAGC
GAAAATGAAGGGGACCTTGATTGACAACCAGTTCAAATAACCAGGCCTTTTTCTAAGCCCTAGACTAGAGGCAAG
CATTTAGATCAGGAGGCAAAGTAATTTCTTGATTACATAGACGGATTCTATTTATGCCCTAGCAGAAGGCTTTA
CGTTGTTTCCCATTGATTCTCCTACATTCACTGAGGTCTTTAACTGAGTCCATTTAACTTGCTTTCTTTTTTTTTT
TTTTTTTTTTTGTAGATAAAGTCTTGCTCTTTCGCCCAGGATGGAGTGCAGTGGTGCGATCTCGGCTCACTGCAAC
CTCCGCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACCAC
GCCTGGGCAACATGGTGAAACCTGTCTCTACTAAAATACAAAAGAAATTAGCCAGGTGTGGCGGCATACCCCTG
TAGTCACGGCTACTTGGGAGGCAGAGGCAGGAGAATTGCTTGAACTCGGGAGGTGGAGGTTGCAGTGAGCTGAGA
TTGCACCACTGTACTCCAGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCTACAAAAAAAAAAAAAAAAAA
AAAGTAACCCAAGGGAGGGAGCTACCCCTAGTCGGGCAGCTGATACTGCTTCCTTGATGGATACATGGGAGGG
AGACGTTATAGATTAAGAAATGATAGCAAGATAAAACAAATGATTTGTTGGGTATCTTTTACTTTTACATTGTTA
TTTGCAGAGGAGTGTGTATATATAGATGTTATTTTATGTCACACTGCTTCAATGATACCTATATCCATGTGTTT
GTATCCATGTTTTTATCCATTCAACTGTATTAAAAGGTGTTGGGACAGG

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FIGURE 6276

GAAGAACTGGAAGCTGGGCTGGCCATAGGGGGAAGCGGCGCGTTAAATCCGCCCCCTCTCCATACCCTACTTTCAA
GGGTGGGCGGTAGAGGGGAGGTTGGGGTTGGAGCAGCGGCGAGGGGGCCCCCTCCCTTGACCTCCCCCACC GG
ACTTGGTCGCGCCCCGAAGTGTAACACTTTCTCTTTGTCGGAGGAGCTCCTCTGTTTTCTGTGCAGTAGCTCCCGT
TGCGGCGGCACCCGTGGCAGCCCTGGCGGACGCAGGAGCGATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGA
AGGTTGCCGAAGCTGTCCCCCTGGCTGGACATGTGGGGTTTGACAGCTTGCCTGACCAGCTGGTGAATAAGTCCGT
CAGCCAGGGCTTCTGCTTCAACATCCTGTGCGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCCT
GTTCAACACCAAATTCGAAGGGGAGCCAGCCACCCACACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGA
CCTCCAAGAGAGCAACGTGAGGCTAAAGCTCACGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGA
GGACAGCTACAAGCCTATCGTGGAATTCATCGATGCACAATTCGAGGCCTACCTGCAGGAAGAGCTAAAGATCCG
AAGAGTGCTACACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTTATTGCCCCACGGGTCAATCCCT
GAAGTCTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTTGAAGAGTGAGCTAACAAAGTTCAAATCAAATCACCAGCGAGCTTGTGAGCAACGGAGTCCAGAT
CTATCAGTTTCTTACAGATGATGAGTCGGTGGCAGAGATCAATGGAACCATGAACGCCCACCTGCCGTTTGCTGT
CATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCCTTGGGGCACTGTGCA
GGTTGAAAACGAGGCCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTGCGGTCAACATGGAGGATCTGCG
GGAGCAGACCCACACCCGGCCTATGAGCTGTATCGCCGCTGTAAGCTGGAGGAGATGGGCTTCAAGGACACCGA
CCCTGACAGCAAACCTTCACTTTACAGGAGACATATGAGGCCAAAAGGAACGAGTTTCTAGGGGAACTCCAGAA
AAAAGAAGAGGAGATGAGACAGATGTTCTGTCAGCGAGTCAAAGAGAAAGAAGCGGAGCTCAAAGAGGCAGAGAA
AGAGCTGCACGAGAAGTTTGACCGTCTGAAGAACTGCACCAGGACGAGAAGAAGAACTGGAGGATAAGAAGAA
ATCCCTGGATGATGAAGTGAATGCTTTCAAGCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCCAGGGCTCCCA
GGCTGGAGGCTCACAGACTCTGAAGAGAGACAAAGAGAAGAAAAATAATCCATGGCTGTGTACTGAATAGTATTC
CCCGCTACAGCTGGACTGGACTCCATTTAGCCTTTTAAGCCGAGGTTTCTATTTTAACTGACAGCTTTCCTTTGG
GGTGCCAGGCAGCGAGGCCCCCACCCTATCCTGCCATGTACTTCAAGCTCACTTCTTCTTTTTTGAAGTTCCGCA
ACTTGCTCCTGCCTCCCAGCCCCACTGGCACTGACCATGACCACCTACTTCTATTTTTTTTTTAGAGTTTCTTTT
TTTGATCACTTACTTTCAAAGCACACAGTCAAACAAGGTTATGCCAAATTTCCAGGCCTTTTTGAAGTATTGAGA
AGGGGAAGGGGATTTCTCACTTCAATTATAGATCATAATAGGAAGCAAAAAGAAAAAATGAAAAGCAAACATAT
GCACGCACTTTTCTTGTGACAAAGCAAGAATGTAGGTTTGCTGTGTAGGTTTGGTGCTCTATTGATTGGTGAGT
GACCAGAGCAAGTATGAAGGTGATGCTGCCAAAGCACAAAGCCAGTTTCTTGGGAAAATTCAAGTTACAGTGGAGT
ATTTTTTTGAAGACCATATGCTTGGAGGTAGAAACAAACCAACGACCAAAAAAAAAAAAAAAAAAATCTGCTC
AGATACTCAGCCAGTAGCTCAGAGAGATGCTGAGTTAGGCCGTGTCAGGTCTCCTTGGGAAAGGCTTCATATTTGC
AACTTTGATGATTCTATGTCCAGCTTCAGAGCTGCTTTCCAGAAATTCACGCTTAAACAACCAACCGGTAACCA
CCACTTCCCCACACCGCCGCTGGTAATTATTTGCATTACAAACCGGAGGCGCCCTCATTGCAATTTGTGTACAG
ATTAAGTAGTTAAGGCTTGAGAAGCTCTGAATAATTCAAAGTATTAGACCCACACAGCCTTGGAGAGACCTTCA
GAACTAAGGAGGAGTTTTATATTAAGGGAGACATTTTAGTCAGTAAGACGATATAACCTACTTACTCCGTAAGG
GGAAATGAAGGCCCCGAGAAGGGAAGGACTTGACCGAGGTCCCACTTCTGTTTCGAGGCAGAAGCCAGACTAAT
TTTCATGCCTCCTGACTCCCAATCAGTTTCACAAAGGGATTCAATCTGTTTATATACGTTACATTCCTGG

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FIGURE 6277

MAATDIARQVGEGCRTVPLAGHVGFDSLDPQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGEPATHT
QPGVQLQSNTYDLQESNVRLKLTIVSTVGFQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLHTYHDSRIHV
CLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPIIAKADAIKSELTKFKIKITSELVSNVQIYQFPTDDESVAEI
NGTMNAHLPPFAVIGSTEELKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIRVNMEDLREQTHTRHYELYRR
CKLEEMGFKDTPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEAEKELHEKFDRLLKLLH
QDEKKKLEDKKKSLDDEVNAFKQRKTAELLQSQGSQAGGSQTLKRDKEKKNNPWLCTE

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FIGURE 6278

CTTCCGCCAGCTTCCCTCCTCTTCCTTTCTCCGCCATCGTGGTGTGTTCTTGACTCCGCTGCTCGCCATGTCTTC
TCACAAGACTTTTCAGGATTAAGCGATTCCCTGGCCAAGAAACAAAAGCAAAATCGTCCCATTCCTCCAGTGGATTTCG
GATGAAAACCTGGAAATAAAATCAGGTACAACCTCCAAAAGGAGACATTGGAGAAGAACCAAGCTGGGTCTATTAAGG
AATTGCACATGAGATGGCACACATATTTATGCTGTCTGAAGGTCACGATCATGTTACCATATCAAGCTGAAAATG
TCACCACTATCTGGAGATTTTCGACGTGTTTTCTCTCTGAATCTGTTATGAACACGTTGGTTGGCTGGATTTCAGT
AATAAATATGTAAGGCCTTTCTTTTT

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FIGURE 6279

MSSHKTFRIKRFLAKKQKQNRPIQWIRMKTGNKIRYNSKRRHWRRTKLGL

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FIGURE 6280

AGATTCCGTCGCTTCTTCCGGAGCCGTACGTGGCACCGCCCCGCTCGCGGGCGGCCGCGGGGCTTGCTGGGAAGA
GAGGCGAAGCCAGGTCACCTTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACGGGGCAGAGATGTGGTTC
GAGATTCTCCCCGGACTCTCCGTCA TGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGCGTACATCCACAGG
TTCACTAACGGGGGCAAGGAAAAAAGGGTTGCTCATT TGGGTATCACTGGAGTCTGATGGAAAGAGATAGGCGC
ATCTCTGGAGTTGATCGTTACTATGTGTCAAAGGGTTTGGAGAACATTGATTAAAGGAAGCATT TCCCTGATTGAT
GAAAAAATAACTCAGTTATGGCCATCTACCCCTGCTAGAAAGGTTACAGTGTATTATGTAGCATGCAATGTGTTA
TGTAGTGCTTAATAAAAAATAAAATG

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FIGURE 6281

ATGGACGTAGACACACGAGCCTATTTACCTCCGCTACCATAATCATCGCTATTCCCACCAGCGTCAAACCTGACT
CGCTACACTCTACGGAAGCAATATGAAGTGATCTGCTGCAGTACTCTGAGCCCTAGGGTTCATTTTTCTCTTCAC
TGTGGCCTAACCGGCATTGTACTAGCAAACATCATCATTAGACATCGTACTACACGACACATACTACGTCGTAGCT
CACTTCCATTACGTCCTATCAATAGGAGCTGTATTCGCCATCACAGGAGCCAATATTGTACCTATCACCATACTA
GTCTTTGCTGCCTGCAAGGCAGCAGTAGGCCTAGCCCTACTAGTCTCAATCTCTAACACATATGGCCTAGACTAC
GTACATAACCTAAGCCTACTCCAATGCTAA

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FIGURE 6294

MEEMKKTAIRLPKGGKQKPIKTEWNSRCVLETFYFQGDISSVVDEHFSRALSNIKSPQELTPSSQSEGVMLKNDDSM
SPNQWRYSSPWTKPQPEVPVTNRAANCNLHVPGPMAVNQFSPSLARRASVRPGELWHFSSLAGTSSLEPGYSHPF
PARHLVPEPQPDGKREPLLSLLQQDRCLARPQESAARENGNPGQIAGSTGLLFNLPPGSVHYKKLYVSRGSASTS
LPNETLSELETPGKYSLTTPPNHWGHPHRYLQHL

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FIGURE 6295A

GCTGTTTGGAGTGTACCGTCCTCAGTAATGAATCCAGAAGAACAAATCGTGACATGGCTTATATCTTTGGGAGTT
TTAGAGTCCCCTAAAAAGACCATCTGTGATCCGGAGGAGTTTTTAAAGTCCCTCGCTGAAAAATGGGGTAGTTCTG
TGCAAACTGATCAACAGACTCATGCCCTGGCTCTGTGGAAAAGTTTTGTCTGGATCCCCAACTGAAGCTGACTGC
ATCAACAACATCAATGACTTCCTGAAAGGATGTGCAACCCTCCAAGTGGAAATATTTGATCCTGATGACCTTTAT
TCAGGGGTCAATTTCTCCAAGTACTGAGTACTCTTTTAGCTGTCAACAAAAGCAACAGAAGATCAGCTATCAGAA
AGACCATGTGGACGTTCTCTTCTCTTAGTGCTGCTAATACTTCTCAGACAAACCCACAGGGAGCAGTTTCTAGC
ACAGTTTCAGGGCTGCAAAGGCAGTCAAAGACAGTGGAGATGACGGAAAATGGAAGTCATCAGTTGATAGTAAAA
GCAAGATTCAACTTTAAGCAGACTAATGAGGATGAAGTGTGAGTTTGTAAAGGGGGACATCATTTACGTCACACGA
GTTGAAGAAGGAGGCTGGTGGGAAGGCACATTAAATGGGAGAACAGGCTGGTTCCCCAGTAATTATGTCCGTGAA
ATTAAATCCAGTGAGAGACCTCTCTCCCCAAAAGCCGTCAAAGGATTGAAACTGCTCCACTTACCAAGAATTAT
TATACTGTGGTGTTACAGAACATCCTGGACACTGAAAAAGAATATGCTAAAGAACTTCAGTCTCTTCTTGTTACT
TACTTAAGACCCCTGCAGTCCAATAACAATCTGAGTACTGTGGAGGTTACATCTTTACTGGGAACTTCGAGGAA
GTATGCACATTTCAACAGACACTCTGCCAAGCCTTGGAAGAATGTTCAAAGTTTCCAGAAAACCAGCACAAAGTA
GGAGGTTGTCTACTGAGTCTCATGCCTCATTTTTAAATCTATGTATCTGGCTTACTGTGCAAAACCATCCTTCAGCT
GTAAATGTGCTCACTCAGCACAGTGATGAGTTGGAACAATTCATGGAAAATCAAGGTGCATCGAGCCCAGGTATC
CTCATTTTTAAACAACAAACCTCAGCAAACCATTTCATGCGACTGGAGAAATATGTTACTCTCTTGCAAGAGTTAGAA
CGGCATATGGAGGATACTCATCCAGATCATCAGGATATTCTGAAAGCAATCGTAGCATTCAAACCTCTCATGGGG
CAATGTCAAGATCTGAGGAAGAGAAAACAGCTGGAGTTACAGATACTGTCCGAACCTATTCAGGCATGGGAAGGA
GAAGATATTAAAAACTTGGGAAATGTGATTTTTATGTCACAAGTAATGGTGCAGTATGGAGCATGTGAGGAAAAA
GAGGAGCGGTACCTTATGTTATTTTTCAAATGTCTGATAATGTTATCTGCAAGTCCTCGGATGAGTGGCTTTATC
TATCAGGGAAAAATACCAATAGCAGGAACGGTGGTACTAGATTAGATGAAATTGAAGGGAATGACTGCACATTT
GAAATCACTGGTAACACAGTGGAGAGAATTGTGGTCCATTGTAACAACAACCAGGACTTCAGGAATGGTTGGAG
CAGCTGAACAGACTGATCAGAGGACCTGCCTCTTGCAAGTTCATTATCCAAAACCTCATCGTCATCATGTAGTGCT
CATCTCTCTTTTAGCTCTACCGGACAGCCCCGAGGACCCCTTGAGCCTCCTCAAATTATAAAACCGTGGAGTTTA
AGTTGTCTACGACCTGCACCTCCACTTAGACCATCAGCAGCACTAGGTTATAAAGAGAGGATGTCTTATATCTTA
AAGGAGTCTAGTAAAAGCCCTAAAACGATGAAGAAATTTCTTCATAAAAGGAAGACTGAGAGAAAACCATCGGAG
GAGGAATATGTGATTAGGAAAAGTACAGCTGCTCTGGAAGAGGATGCTCAAATCCTTAAAGTGATCGAAGCCTAC
TGCACCAGCGCAAATTTTCAACAAGGCCATGGCTCAAGTACTCGAAAAGATTCCATTCCACAAGTCCTACTCCCT
GAGGAAGAGAACTCATCATTGAAGAAACCAGAAGCAACGGCCAGACCATCATGGAAGAAAAGAGCCTTGTTGAT
ACTGTTTACGCCTTGAAGGACGAGGTGAGAGAACTGAAGCAGGAAAATAAAAGAATGAAGCAATGCCTGGAAGAA
GAACTGAAATCAAGAAGGGACCTAGAAAAGCTGGTGCAGGAGGCTTTTGAAGCAAACAGATGAGTGTATTCGAGGC
GAGTCCAGTAGCAAGACCTCAATTCTTCCATTAACCATCACTGTGCCACTGGGTGGAGTGTGCCTTCAGGGCATCT
TGAAATGTCCCGCTGAATGATTTGACTCAGTTTGCTCACTTCTTTGGCTTTTGTGTTTGTGTTGAGTCTCTCTCT
CTCTCTCCCTCTCTCTTCTCTTCTCTCTCCCCGTGTGTGCATATGTGTGTGCGTGCACGTGCGCGCTTGGGCATT
TGCTGTTGTTTGGTTATTGGTTGGTTGTTCAATTTTTTTTTTCAACAGGTGAAAAAGCAGGAAGTGGTGGTAGAGA
TGGCCTCAGAGTCTTTTCCATTCAAGTAAAGAGAAAGGGAATGCAGGCCAGTTACTTAAAGGTCTTCAGATT
GCCTTCAGTTCACAGTGCCTCTGCAACAGCCATTGCCCTCAGGTCACATTCTTTGGGCTGGCTGCCCTTGCAAAG
CAGCTGGCCAAGGCTTATTAATGTGAACCCAACTTTTCCCCAGGGCTTTCTGTACCTGCAAGCCTCTTAGTAC
TTAATTTACCGAAGGCAAATCTTCCAGACTATGGCTTGAGTAGGATGAAAGACAAAACATCTGCCCAATGATCC
AGCTGCCCTTTCCTTAGACCATCACATGCCCTCCCCTCAATCACAGTTTTTAAATTAAGTGCCTATGTTGTCTATA
AGACCAAGAAAAGTGTAGTACCCCTTATTCCTTTTGTGTCATGTAAATTGTAACTCAGGGGGGAGAGAAGCTCTGGT
CACCACACCAACACCAATCCATCAGCAAATCTACTGGACAATCCTCCCTTTTAGTAGCAGAGTTGACCGCCT
TTTCCCATTCATGATAGGTTTCTTTCCCTCATCTGCCTAGTGTGTAAGTTTTCTATTTCCCCAGTACTTTTAG
CCAACCTTACCAAGTGGTGTGTAACTAGTATGTATGTGCTTTGCTTACTTTTTTAAAAAATGTAGTTAGACTGT
GAGGAGTTACTTTATGTACGTTGCATATTCAAAGTGTGATGTTTTATCCTTCAAACAATCTGCATTAAAGAAGAT
ATTGTGCCCTACTAGACAGCTTTCATTCATTTTATTACTCTCTCATATATGCTGTGAGAAGTTGTAATATTAATT
GGCCTCTTTGGGTGGGACTCTAAGCAGTATTTGCAGAAATATGCTTCTGGTCCAACCTGTACATCCAGAACAAA
GGGCCCCCTCTAGTAGCTGTGTGCTGGATTATTCAGGACTGATTAACCAAGTTGCTCATTGAATCACATCATCCA

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FIGURE 6295B

CTTTATCCCAGAACTAGAACTGTGAGAAACCAGGTTTAGAAGACAGTCACAGAACAGCACACATCCAAATTCAG
CGCCATTGAAAGTTGGCCTAAGGCTCAGTGCCACTCACCCCTCCCTCCCCAAAAGACAAGAGAAATTTGGCCAGA
TGGGGAAGGTCAC TGGAATTGAGGCCAAAGGGCTGATCAGAATTGCCTTTATAATATATTTGATGGATGCCTAT
AAATGTGGGTTTTGCAAATATTGTTTAAAAACCAAACCTGAAGCCAGGCATGGTGGCCACACCTGTGGTCCCAG
CTACTCAGGAGGCTGAGGTGGGAGGATCATTTGAGCCCAGGAGGTCAAGGCTGCAGTGAGCTGTGATGACACCAC
TGCACTCCAACCTAGGTAACAGAGAGACACCTCTGTCTCTGAAAAAACAAAACCTGAAGTTTGAAACCCCCAGCT
TGCTGAGGAGCCCTTTTTTATTTTTTGGTACTGAGAGTCTCAAGGTCCCATAGCTACATGGTACAGGGCTGTTGTCT
GCTTGCTGCACAGCAGAAATTACACCATCCACAGGAAATGGACTATTTTTTGCACTCCAACATCAGCCAACCACAC
ACAGCCGTGTTTGGAAGCTGAAGAGTAAAGAAATTTCTAGGAATGGCTGTTGTTCTGTTTTTTAGCACAGCCATT
TAGATATAACATCCTTCACTTAAAAATTAAAAACATCAGTACTACCACCACCACCAACAACATCAACACAGATCT
TCACATCTGCCCATTTCTGTGGTTAGTCAATGGCTTGCAATAAATGTGCAAACCTGCATCTATAGGAAACATTTTTG
TGATTACGGAATACTTTAGTTGATTGCTGAAAATATTGAAAGGTCTTCATTTTACAGTGATGAGTACATATGCAT
GTTTCGGGGACTTGGCCCTTCTGATGAGGGGCCCTCGGTACTCTGGATAACGAAGCTTGTGCAGAGTGGTAACCA
TGCTTACACACTAACTATAATATAAAGGAAATGAAGCCATGTTAATCTGAGAGCAGTGTCGCCATAGTTGTGTT
GTTTACAATACTCTATAAATGGGTTCTGTGGCCCTGTAATTAACTGCTGCCCGTAGAGGCCTTTCAGTTCCTT
TTCTGTCTTCCCTTCTTAACACAAGCTCAAATTTTCTAACTTGTTTTTATTTTGAAGACTTTTAAAAATGGACA
TTTTCAATACATAAAAAATAACAGTGCTTTTAAAAA

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FIGURE 6296

MNP EEQIVTWLISLGVLESPKKTICDPEEFLKSSSLKNGVVLCKLINRLMPGSVEKFCLDPQTEADCINNINDFLK
GCATLQVEIFDPDDL YSGVNF SKVLSTLLAVNKATEDQLSERPCGRSSSLSAANTSQTNPQGAVSSTVSGLQRQS
KTVEMTENGSHQLIVKARFNFKQTNEDELSVCKGDI IYVTRVEEGGWEGTLNGRTGWFP SNYVREIKSSERPLS
PKAVKGFETAPLTKNYYTVVLQNILDTEKEYAKELQSLLVTYLRPLQSNNNLSTVEVTSLLGNFEEVCTFQQTLC
QALEECSKF PENQHKVGGCLLSLMPHF KSMYLAYCANHPSAVNVLTQHSDELEQFMENQGASSPGILILTTLNLSK
PFMRLEKYVTLLQELERHMEDTHPDHQDILKAIVAFKTLMGQCQDLRKRKQLELQILSEPIQAWEGEDIKNLGNV
IFMSQVMVQYGACEEKEERYLMLFSNVLIMLSASPRMSGFIYQGKIP IAGTVVTRLDEIEGNDCTFEITGNTVER
IVVHCNNNQDFQEWLEQLNRLIRGPASCSSSLKTSSSSSCSAHSSFSSTGQPRGPLEPPQIIKPWSLSCLRPA PPL
RPSAALGYKERMSYILKESSKSPKTMKKFLHKKRTERKPSEEEYVIRKSTAAL EEDAQILKVIEAYCTSANFQQG
HGSSTRKDSIPQVLLPEEEKLII EETRNGQTIMEEKS LVDTVYALKDEVRELKQENKRMKQCLEELKSRRDLE
KLVRLLKQTDECIRGESSSKTSILP

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FIGURE 6297

AAAAAAAAACATGGTTGAAGCAGATCGCCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAA
GCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGATGAAAGACCGTGAAACCAACAAA
TCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAG
TCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAAACCATCATTTGAAAGTGGTAGACGTGGACCGCCT
CCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAAGGGGACCT
CCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTTAAACATGAGTTCTTCCAGGGGACCACTC
CCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCTCTCTCTAAGAGATCTGCACCTCAGGACCAGTTTCGC
AGTAGCAGTGGAAATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAA
CCGCTGCCCTCTCGTAGAGATGTTTATTTGTCCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGC
AGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCACGAGATTATACTTACCGTGATTATGGT
CATTCCAGTTCACGTGATGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTAT
TCAGATCATCCAAGTGGAGGTTCTTACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACA
CGAGGGCCCCCGCCATCTTATGGTGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGGGA
AGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGA
GGGCTTCCCCCTTCTATGGAAAGGGGTACCCTCTCCACGTGATTCTTACAGCAGTTCAAGCCGCGGAGCACCA
AGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGAAACAAACAAAACCTT
TGGACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAAACTATTCTATCATAACTACCCAAGGACTACTAAAAGG
AAAAATTGTGTTACTTTTTTTTAAATTCCCTGTAAAGTTCCCCTCCATAATTTTTATGTTCTTGTGAGGAAAAAG
TAAAACATGTTTAAATTTTATTTGACTTTTCGCATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGTAC
TAGTGTTGTAACCTTCCAAGTAAAAGTATCCCCTAAAGGCCACTTCCTATCTGATTTTTCCAGCAAATGAGGCA
GGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAAGGTGTCTTCCAAGTGAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTCTATTACCCAGTAAACCCAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACCTACAGAATACTAAATAAAAAGTTTGGCCAAAACC

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FIGURE 6298

MVEADRP GKLF IGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKS RGF AFVTFESPADAKDAARDMNGKSLD
GKA IKVEQATKPSFESGRRGPPPPPSRGPPRGLRGGRGGSGGTRGPPSRGGHMDDGGYS MNFNMSSSRG PLPVK
RGPPPSGGPPPKRSAPSGPVRS SSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYS DRDGYGRDRDYSDHPSGGSYRDSYESYGNRSRSAPPTRGP
PPSYGGSSRYDDYSSSRDGYGGS RDSYSSSRSDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRGG
GRGGSRS DRGGGRSRY

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FIGURE 6299

CTCGTGATTACTCAGTTTGGGAACAGTGACAATAACTTTACAAATACATATACAGATGTATCTTCTGTCCACTCA
GGAAACACAGCAAGGGTCCCATTTAACTACAAGTCAGAGGTGATTCCAGGGCACTTTGGATTCTCTCGTGCCCCAG
GATCAAGCAGTACTTIACCGCTTCCACGGTACTTAGCGTTCCTGCCAATAAAAGAAGCCCAACTCCGGCCGTCGGC
TGTCGCTGCCAGAGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAAGTGTATTGGTGGTCTG
AGCTTTGAAACTACAGAAGATAGTTTAAAAGAACATTTTGAGAAATGGGACACACTCACAGATTGTGTGGTAATG
AGAGACCGCCAAACAAAACGTTCCAGGGGCTTAGGTTTTGTGACTTATTCTTGTGTTACAGAGGTAGATGCAGCA
ATGTGTGCTCGACCACACAAGGTTGATGGGCATGTAGTGGAACCAAAAAGAGCTGTTTCTAGAGAGGATTCTGTA
AAGCCCGGTGCCCATCTAACAGTGAAGAAAATTTTGTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTG
AGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAGAAAGAGA
GGATTTGCTTTTGTAACTTTTGATGGTCACGATACAGTTGATAAAATTGTTGTTTCAGAAATACCACACTATTAAT
AGGCATAATTGTGAAGCAAAAAGGCCGTTTCTAAACAAGAAATGCAGTCTGCTGGATCATAGAGAGGTCGTGGAG
GTGGGTCTGGCAATTTTATGGGTTGCGGAGGAAGCTTTGGAGATGGTGGAGCAATCAAATTATGGACCCATGAAA
GGGGGCAGTTTGGTGGGAAGACACTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGGAAAGTGGTGA
TATGGTAGCAGAAGGTTCTAA

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FIGURE 6300

TGGGAATCTGACGGATCGGAGGCATTTGTGAGGAGGCGCGAATCAAGTTAGCGGGGGGAAGAGTCTTAGACCTGG
CCAGTCCTCAGGGTGAGGGCCCTGAGGAAGAACTGAGGGACCTCCCACCATAGAGAGAAAGAAACCCCGGCCTGTA
CTGCGCTGCCGTGAGACTGGTGCTCCAGGAACCAGGTGGTGACGAACTGGGTGTGAGGCACACAGCCTAAAGTCA
GCACAGCAGAGGAGGCCCAGGCAGTGCCAGGAGTCAAGGCCTGTTGGATCTCATCATCCATATCCCTGTTGATAC
GTTTACCTGCTGCTCCTGAAGAAGTCGTCATGCCTCCCGTTCCAGGCGTTCCATTCCGCAACGTTGACAACGACT
CCCCGACCTCAGTTGAGTTAGAAGACTGGGTAGATGCACAGCATCCACAGATGAGGAAGAGGAGGAAGCCTCCT
CCGCCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTCTTTCTCCACATCCTCTTCTCTGATTCTTGGTGGTC
CTGAGGAGGAGGAGGTGCCCTCTGGTGTGATACCAAATCTTACCGAGAGCATTCCCAGTAGTCTCCACAGGGTC
CTCCACAGGGTCCTTCCCAGAGTCCTCTGAGCTCCTGCTGCTCCTCTTTTTCATGGAGCTCATTAGTGAGGAGT
CCAGCAGCCAGAAAGGGGAGGATACAGGCACCTGTCAGGGCCTGCCAGACAGTGAGTCCTCTTTCACATATACAC
TAGATGAAAAGGTGGCCGAGTTAGTGGAGTTCTGCTCCTCAAATACGAAGCAGAGGAGCCTGTAACAGAGGCAG
AGATGCTGATGATTGTCATCAAGTACAAAGATTACTTTCTGTGATACTCAAGAGAGCCCGTGAGTTCATGGAGC
TTCTTTTTGGCCTTGCCCTGATAGAAGTGGGCCCTGACCACTTCTGTGTGTTTGCAAACACAGTAGGCCTCACCG
ATGAGGGTAGTGATGATGAGGGCATGCCCAGAACAGCCTCCTGATTATTATTCTGAGTGTGATCTTCATAAAGG
GCAACTGTGCCTCTGAGGAGGTCATCTGGGAAGTGCTGAATGCAGTAGGGGTATATGCTGGGAGGGAGCACTTCG
TCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGGGTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCC
ACAGTTCTCCTCCATATTATGAATTCCTGTGGGGTCCAAGAGCCCATTCAGAAAGCATCAAGAAAGAAAGTACTAG
AGTTTTTAGCCAAGCTGAACAACACTGTTCTTAGTTCCTTTCCATCCTGGTACAAGGATGCTTTGAAAGATGTGG
AAGAGAGAGTCCAGGCCACAATTGATACCGCAGATGATGCCACTGTCATGGCCAGTGAAAGCCTCAGTGTGATGT
CCAGCAACGTCTCCTTTTCTGAGTGAAGTCTAGGATAGTTTCTTCCCCTTGTGTTTGAAACAGGGCAGTTTAGGTT
CTAGGTAGTGGAGGGCCAGGTGGGGCTCGAGGAACGTAGTGTTCTTTGCATTTCTGTCCCATAATGGGTGATGTAG
AGATTTACCTGTTTTTTCAGTATTTTCTAAATGCTTTTCTTTGAATAGCAGGTAGTTAGCTTCAGAGTGTTAATT
TATGAATATTAGTCGCACATGTATTGCTCTTTATCTGGTTTAAGAGTAACAGTTTGATATTTTGTTAAAAAATG
GAAATACCTTCTCCCTTATTTTGTGATCTGTAAACAGGGTAGTGTGGTATTGTAATAGGCATTTTTTTTTTTTTTT
ACAATGTGCAATAACTCAGCAGTTAAATAGTGAACAAAATTGAAGGGTGGTCAGTAGTTTCATTTCTTGTCTT
GCTTATTCTTTTGTCTTTGAAAATTATATATACCTGGCTTTGCTTAGCTTGTTGAAGAAAGTAGCAGAAATTAAA
TCTTAATAAAAGAAAAAAAAAAAAAAAAAAAAAGG

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FIGURE 6301

MPPVPGVPFRNVDNDSPTSVELEDWVDAQHPTDEEEEEASSASSTLYLVFSPSSFSTSSSLILGGPEEEVPSGV
IPNLTESIPSSPPQGPPQGPPSQSPLSSCCSSFSWSSFSEESSSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVE
FLLLLKYEAEEPVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDHFCVVFANTVGLTDEGSDDDEGMP
ENSLIIIIISVIFIKGNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVPHSSPPYYEFL
WGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYKDALKDVEERVQATIDTADDATVMASESLSVMSNVSFSE

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FIGURE 6302

TTTTCTTTGCTGTTCTTCATCCTCGTTGTTGCTGTCATCATGTTCACTGTGGCTTTTACAATACAGCCTGTAAAT
TCCTTATGACATAGTTTCAGTGCAATTTGGCTTTATTGCCTGCTCCACAGTTCTTTACCTTTACTTGGCTTAGAGAA
ACTGTATCTTTGTTGCTTCATATAACCTTTCCCAACCCCACTAAGCTGGACATAACTTATTAGTGGTCCTCCCG
TCACTTTATTTGTAGAAATCTCTCTTTCACATGAGCAGGGGTTCTTTTCATGTGGTTTAGCTGACAGCAGAACTAG
TGATTCTAGACATTTTGCATGGCCCTCATTAGTGGCTCACAAACATGAGGGAGCATCAGAACTACTTGAGGGGC
TTGTTAAAACCCAGTGCCTTAGAAGTCGGATGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAGG
CAGGCGGATCACTTGAGGTTAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAAACCCCGTCTCTACTAAAAATA
CAAAAGTTAGCCGGGTGTGGTGGTGCATGCCTGTAATCCCAGCTTCTTGGGAGGCCAAGGCACAAGAATCGCTTG
AACCAGGAGACGGAGGTTTCAGTGAATGAAGATCGTGCCATTGTATTCCAGCCTCGGCAACACAGCAGGACTGTG
ATTTTCTTTGGAGACTCCTAGATTTTCTGTGGTTTTGAAGTGAATTTGTTGGATGTTGGCAAGTGCCTCTTATGA
GCTGTTTCTTTATCCTGCATTTGCCCCACAAAGACTTATCTGGAGGTGAGCAAAGTATGTTTGGTAGTGAGGTCA
CAAAGGCAATCAGCCCCCTCCTCCCCACTCCCATTCGCATCTTCTCAGTCCTTCTCCCTTTCTTTCCAAGTAGTT
TACCCACCCCTCCTCTTCTCCCTGTCCCTAAAATAATCCACGTGTCTTCTTAAATCTCTCTTTGATCCTGT
CCTTTGATAACACCGTCAGTGCCTACTACTGGGTCTAGACAGACCTCTGTTGAGCAGTCAGAGTCTTCCCTGACT
CCACAATGCCCCCTTCTTGGCTGACCAGTATGACTACTGGTCCCCACCTTTCCTTGCCTATCCCTACCTCCCT
CCTACTAGGTTGTCCCATCCCTCTCTTCACCCATTCAATTCATGACCATTTTCACTACCAAGCTCCCCCCTCCC
GAAGGAGGCTGAGGTTTTTGTGACTCTCTAGACTCTATTGTGGGATGGAATGAACATTGCTAAAGAATCTTGTGT
TCGCTTTACTTTAAAAAGGTATTTTTTCTTAATTATAAAACTGATGTGTGTCAGTTACGGAAAAATTAGAAATGCA
GCACAAATACATGAATATTTTACCACAAAATTGCCATATAATATCTTGTCTTTTTTGGGGGTGTGAATTTTTTGC
ATTGTTCTGGTCATATTCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATAGATT
TTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATAATTTACTTAACTTCTTTCAATTGTTA
GAAATTTAGGCTATTTCCAGATTTTCAGTATTGTAAATAATGCTGTGATGACCAATTTTGTGAATAAAATGTTTT
TATGTATTTAGATTATTTCCCTTAGGATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCTTATCT
TCCTGCTCTCTTGCTGCCTTAGGGGGTAGTAAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACATAAA
ACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAACCTGTTTTAACTTTGAATTCTTGCCGGGCGCGGT
GCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTGAGGAGTTCAAGACCAGCCT
GGCCAAGATGGTGAAATCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGTGGGCGCCTGTAATCC
CAGCTACTTGGGAGGCTGAGGCAGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCC
ACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAATAAAAAACAACAAAAACAAAAAACTTAAA
ATTCTTTGCTTGTTAGTGACCTTGATCATGGTTCTCTTTGTACGATAGTTGGGCATCTGTATTTCCACTTGTTGTG
AATTTGCCTTTAAATTTTGGTTATGGGTTTACCTTTTAAAATAATCAAACATATTTATCTTTTCTGTGTGATA
GGTTTTTTCTGTATCTTTTCTGTAAACACACAGACCCCTCCCAATCTGGACATTGAATAAATATTCAATTT
CCTTTGC

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FIGURE 6303

MNIAKESCVRF⁶⁸²¹TLKRYFFPNYKTDVSVTEKLEMQHKYMNILPQNCHIISCLFWGCEFFALFWSYSLSCNLCSELL
SIMCGYYRFSQRYIAGNIFYCVVL⁶⁸⁸¹

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FIGURE 6304

GGGAGCTGTATGAAAGCGGAAGAGTTATAGACCGCTAACACCTGTCACTGGCCACTGGTTTCCCGGAGTTAGCGG
CAACGACCTTGCAGCCTGGACACTAGCCAGGCGCTCCCTCTTCTCACAGCGGCCACGTCTCCTTGCTTGGGAGC
CCATCGTCCTGGCTCCGGTGGCCTCGCTGGGTCTCGGGGAAGCAGAGGACTGTTTCATTCTGTGGCGAAAAGCCG
GAGTCGGGCCCTAGACACCCACGACTCGCAGGGTCCATGGTTCCGGAGGCCGTGAGACCTGCCGGGGCTGACAGGT
GCCAGGGCCCATGCTGCGGGAGCCTGTGTGCTCAGCCTTCTTGCGGACGGTAAAGAAGCTAAGTGGAAGAGTGTT
TCCTCCTCTGGCCGTAAAGCAGGTACTCTCTGCAGCACCAGCTGTCCCCGCCCTACTCCGGACCGCCCCAAAGAC
TCCATGGGATGGACCTGAGTCAGCCGAATCCCAGCCCCCTTCCCTTGGGCCTGCTGTGGTGCTGGACATCAGTGAC
AGACGGAAGCAGGAGACCATCAAGGCTACGGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCT
TCCGGCAGCCTTATGCTGGCTTTGTCTTAAATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCCTGCTGAGCA
GCCAGCGGAAGTGTACCATCGCCGTCCACATTGCTCAGAGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGG
TGGAGAGACTCGGGATGACTCCTGCTCAGATTAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTTCGAGGAGTGA
TAGCGGGACTCGTTGACATTGGGGAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAG
AAAATCAAGCTGTACTGACCAACCTGAAGCAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGC
CCATACCTAGGAAAGGAGGCAAGGATGTATTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAG
TGTGACAAGTGTGGGCTCCTGAAAGGAATGTTCCAGAGAAACCAGCTAAATCATGACACCTTCAATTTGCCATCA
TGACGCAGACCTGTATACATTAGGTTAAATCTGAATTTCCACTGCTTTGGAGAGTCCCACCCACTAAGCACTGTG
CATGTAAACAGGTTCCCTTTGCTCAGATGAAGGAAGTAGGGGGTGGGGCTTTCCTTGTGTGATGCCTCCTTAGGCA
CACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGCAAAGCTGCCAGTAAATGTCTCAGCATTGCTGCT
AATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTGTTGTAGATGACTGGTTAGTGTGTTGAGGCTTTGT
TCTATGTTTTTCCCTGATTTGTTCTGGTCAAACTCATCAAATGTGTAAGTAGCATCCAGGCGACAATACAGAAA
GTCTGGGACCTGGCACTGAATGTTTGCCTGGTAGTGACTAGCCGTTAATCAACCGACTCATCCAGGATGAAGAGG
ACGTCAGACTTAGAGCAGCTGTCTGTCCTTTAGGTTACTCTCACTCTTCTGAAAGTGTCTGTGAGTTTCTGAAG
CATGTGTGTTACCTGCATCACACAGCTACTTCCTATCCTAGCAATACATCCAAAATACAGCTCTAGTAGAGTGAG
GTTAACTTGGAATGTGATCAGTAGTGTGTTTTATTTTGTAGTAATTTTTTTTTTTTTTTTGGTGATTTAGCAAA
GTTTCTAGTTGTTATCCATGAGGATGATGGGCATTTCCCCCAGGTATTGACTGCAGTGG

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FIGURE 6305

MKFGCLSFRQPYAGFVLNGIKTVETRW RPLLSSQRNCTIAVHIAHRDWEGDACRELLVERLGMTPAQIQALLRKG
EKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAALTNLKQKYLTVISNPRWLLEPIPRKGGKDFQVDIPEH
LIPLGHEV

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FIGURE 6306

GGAGCTGCATGAAAGCCGAAGTTATGGACCGCTAGCATCTGTCACTGGCCACCGGTTTCCGGGAGTAAGCGGCAG
CTACCTTACAGCCCTGACACGAGCCGGGTGCTCTCTCTTCTCACC GCGGCCACGTCTCCTCGCTGGCTCCGGTG
GCCTCGCTGGGTGCGGAGGAGGCGGAGGACTGTACTCTGAGGCCAAAAGCCAGAGTCGGCCCTGAACGCCACGA
CTCTCAGGGTCCAGAGGCCGTGAGACCGGCCGCGGCTGAAAGGTACCAGGGCCCTGATGCCGGAGCCCGTGTGC
TCGGCCCTCTTG CAGACGGTAAAGAAAACCAAGTGAAGAGTGTTTCTCTCTTGGCCGTAAAGCAGCTGTCCCG
CCCTACTCCGGACCGCCCCAAAGACTCCATGGGATGGACCTGAGTCAGACGGAAGCAGCAGACCATCAAGGCTAC
GGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCTCTTCCGGCAGCCTTATGCTGGCTTTGTCTTA
AATGGAATCAAGACTGTGGAGACGCGCTGGCGTCTCTGCTGAGCAGCCAGCGGAACTGTACCATCGCCGTCCAC
ATTGCTCACAGGGACTGGGAAGGCGATGCCTGTGCGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAG
ATTCAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAACT
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGCACTGACCAACCTGAAG
CAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGCCCATACCTAGGAAAGGAGGCAAGGATGTA
TTCCAGGTAGACATCCAGAGCACCTGATCCCTTTGGGGCATGAAGTGTGACAAGTGTGGGCTCCTGAAAGGAAT
GTTCCAGAGAAACCAGCTAAATCATGGCACCTTCAATTTGCCATCGTGACGCAGACCTGTATAAATTAGGTTAA
GATGAATTTCTTGTGTGATGCCTCCTTAGGCACACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGC
AAAGCTGCCAGTAAATGTCTCAGCATTGCTGCTAATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTG
TTGTAGATG

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FIGURE 6307

MCVTDKTRPPSSSWFPMMPAKYMTFLGPLTSFAVLHLMTFPLYLPCCAGKEAKWKS
VSSSSGRKAAVPALLRTAPKT
PWDGPESAESQPLPLGLLWCWTSVTDGSRRLREARGACEDEVWLPLLPAALCWLCLKWNQDCGDALASP
AEQ
PAELYHRRPHCSQGLGRRCLAGAAGGETRDDSCSDSGLAQERGKVWSRSDSGTR

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FIGURE 6308

GGCACGAGGGCGGGGATCAGAGAGAAGCGAGGGCCTGGTTCTGAGGGGTCGGCTTGAGATCGGCTGAGGGAAGCG
GGCTCAGGGTCTGTGAGGAGGCAAGGTTTCGCAGAGAACAGGCCAGCCAGGAGGTCAGGAGGCCCCAGAGAAGCAC
TGAAGAAGACCTGCCTGTGGGTCTCAATTGCCAGCTCCGGCCCACTCTCCTGCTGCCCTGACCTGAGTCATC
ATGCTTCTTGGGCAGAAGAGTCAGCGCTACAAGGCTGAGGAAGGCCTTCAGGCCCCAAGGAGAGGCACCAGGGCTT
ATGGATGTGCAGATTCCCACAGCTGAGGAGCAGAAGGCTGCATCCTCCTCCTCTACTCTGATCATGGGAACCCTT
GAGGAGGTGACTGATTCTGGGTACCAAGTCCTCCCCAGAGTCCTGAGGGTGCCTCCTCTTCCCTGACTGTCACC
GACAGCACTCTGTGGAGCCAATCCGATGAGGGTTCCAGCAGCAATGAAGAGGAGGGGCCAAGCACCTCCCCGGAC
CCAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGATGAGAAAGTGGCTGAGTTAGTTTCGTTTCCTGCTCCGC
AAATATCAAATTAAGGAGCCGGTCACAAAGGCAGAAATGCTTGAGAGTGTATCAAAAATTACAAGAACCCTTT
CCTGATATCTTCAGCAAAGCCTCTGAGTGCATGCAGGTGATCTTTGGCATTGATGTGAAGGAAGTGGACCCTGCC
GGCCACTCCTACATCCTTGTACCTGCCTGGGCCTCTCCTATGATGGCCTGCTGGGTGATGATCAGAGTACGCCC
AAGACCGGCCTCCTGATAATCGTCTGGGCATGATCTTAATGGAGGGCAGCCGCGCCCCGGAGGAGGCAATCTGG
GAAGCGTTGAGTGTGATGGGGCTGTATGATGGGAGGGAGCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACC
CAAGAGTGGGTGCAGGAGAACTACCTGGAGTACCGCCAGGCGCCCGGCAGTGATCCTGTGCGCTACGAGTTCCCTG
TGGGGTCCAAGGGCCCTTGCTGAAACCAGCTATGTGAAAGTCTTGAGCATGTGGTCAGGGTCAATGCAAGAGTT
CGCATTTCTACCCATCCCTGCATGAAGAGGCTTTGGGAGAGGAGAAAGGAGTT**TGAG**CAGGAGTTGCAGCTAGG
GCCAGTGGGGCAGGTTGTGGGAGGGCCTGGGCCAGTGCACGTTCCAGGGCCACATCCACCCTTTCCCTGCTCTG
TTACATGAGGCCCATTTCTTCACTCTGTGTTTGAAGAGAGCAGTCACAGTTCTCAGTAGTGGGGAGCATGTTGGGT
GTGAGGGAACACAGTGTGGACCATCTCTCAGTTCCCTGTTCTATTGGGCGATTTGGAGGTTTATCTTTGTTTCCTT
TTGGAATTGTTCCAATGTTCCCTTCTAATGGATGGTGTAAATGAACCTTCAACATTCATTTTATGTATGACAGTAGAC
AGACTTACTGCTTTTTATATAGTTTAGGAGTAAGAGTCTTGCTTTTTCATTTATACTGGGAAACCCATGTTATTTT
TTGAATTCAGACACTACAAGAGCAGAGGATTAAGGTTTTTTTAGAAATGTGAAACAACATAGCAGTAAATACAT
GAGATAAAGACATAAAGAAATTAACAATAGTTAATTCTTGCTTACCTGTACCTCTTAGTGTACCCTATGTACC
TGAATTTGCTTGGCTTCTTTGAGAATGAAATTGAATTAAATATGAATAATAAGTCCCCCTGAAAAAAAAAAAAA
AA

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FIGURE 6309

MLLGQKSQRYKAEGLQAQGEAPGLMDVQIPTAEEQKAASSSSTLIMGTLEEVTD SGSPSP PQSPEGASSSLTVT
DSTLWSQSDEGSSSNEEEGPSTSPDPAHLESLEFREALDEKVAELVRFLLRKYQIKEPVTKAEMLESVIKNYKNHF
PDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLGDDQSTPKTGLLIIVLGMILMEGSRAPEEAIW
EALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRALAETSYVKVLEHVVRVNARV
RISYPSLHEEALGEEKGV

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FIGURE 6310

AGTTTCCAGGATGGCTTCTGCATCAACTTCTTAAAATAATTCACACTCCTTGGAGAATGAGTCTATTAAGAGGAC
GTCTCGAGATGGAGTCAATCGAGATCTCACTGAGGCTGTTCCCTCGACTTCCAGGAGAAACACTAATCACTGACAA
AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTTACATCACAAATTATCGTCTTTATTT
AAGAAGTTTGGAAACGGATTCTTCTCTAATACTTGATGTTCCCTCTGGGTGTGATCTCGAGAATTGAAAAATGGG
AGGCGCGACAAGTAGAGGAGAAAAATTCCTATGGTCTAAATATTACTTGTAAGACATGAGAAACCTGAGGTTCGC
TTTGAAACAGGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTCACGAGATACGCGTTTCCCCTGGCTCACAG
TCTGCCATTATTTGCATTTTAAATGAAGAAAAGTTTAACTGCGATGGATGGACAGTTTACAATCCAGTGGAAGA
ATACAGGAGGCAGGGCTTGCCCAATCACCATTGGAGAATAAATTTTATTAATAAGTGCTATGAGCTCTGTGACAC
TTACCCTGCTCTTTTGGTGATTCCGTATCGTGCCTCAGATGATGACCTCAGGAAGTTGCAACTTTTAGGTCCCGA
AATCGAATTCCAGTGCTGTGATGGATTTCATCCAGAAAATAAGACGGTCATTGTGCGTTGCAGTCAGCCTCTTGTC
GGTATGAGTGGGAAACGAAATAAAGATGATGAGAAATATCTCGATGTTATCAGGGAGACTAATAAACAAATTTCT
AACTCACCATTATGATGCAAGACCCAGCGTAAATGCAGTGGCCAACAAGGCAACAGGAGGAGGATATGAAAGT
GATGATGCATATCATAACGCCGAACCTTTCTTCTTAGACATTTCATAATATTCATGTTATGCGGGAATCTTTAAAA
AAAGTGAAGGACATTGTTTATCCTAATGTAGAAGAATCTCATTGGTTGTCCAGTTTGGAGTCTACTCATTGGTTA
GAACATATCAAGCTCGTTTTGACAGGAGCCATTCAAGTAGCAGACAAAGTTTCTTCAGGGAAGAGTTTCAGTGCTT
GTGCATTGCAGTGACGGATGGGACAGGACTGCTCAGCTGACATCCTTGCCATGCTGATGTTGGATAGCTTCTAT
AGGAGCATTGAAGGGTTCGAAATACTGGTACAAAAGAATGGATAAGTTTGGACATAAATTTGCATCTCGAATA
GGTCATGGTGATAAAAACCCACCCGATGCTGACCGTTCTCCTATTTTCTCCAGTTTATTGATTGTGTGTGGCAA
ATGTCAAAACAGTTCCCTACAGCTTTTGAATTCAATGAACAATTTTGTATTATAATTTGGATCATCTGTATAGT
TGCCGATTTGGTACTTTCTTATTCAACTGTGAATCTGCTCGAGAAAGACAGAAGGTTACAGAAAGGACTGTTTCT
TTATGGTCACTGATAAACAGTAATAAAGAAAAATTCAAAAACCCCTTCTATACTAAAGAAATCAATCGAGTTTAA
TATCCAGTTGCCAGTATGCGTCACTTGGAACCTCTGGGTGAATTACTACATTAGATGGAACCCAGGATCAAGCAA
CAACAGCCGAATCCAGTGGAGCAGCGTTACATGGAGCTCTTAGCCTTACGCGACGAATACATAAAGCGGCTTGAG
GAACTGCAGCTCGCCAACCTCTGCCAAGCTTTCTGATCCCCCACTTCACCTTCCAGTCCTTCGCAAATGATGCCC
CATGTGCAAACTCACTTCTGAGGGGGGACCCTGGCACCGCATTAGAGCTCGAAATAAAGGCGATAGCTGACTTTC
ATTTGGGGCATTGTGAAAAAGTAGATTAAAAATATTTGCCTCCATGTAGAACTTGAACATAACATAATCTTAACTC
TTGAATATGTGCCTTCTAGAATACATATTACAAGAAAACTACAGGTTCCACACGGCAATCAGAAGAAAAGGAGCTG
AGATGAGGTTTGGAAAACCTGACACCTTTAAAAAGCAGTTTGTGAAAGACAAAATTTAGATTTAATTTACGTC
TTGAGAAATACTATATATAAATATATATTTTGTGGGCTTAATTGAAACAACATTATTTTAAAAATCAAAGGGGAT
ATATGTTTGTGGAATGGATTTTCTGAAGCTGCTTAACAGTTGCTTTGGATTCTCTAAGATGAATCCAAATGTGA
AAGATGCATGTTACTGCCAAAACCAAATTGAGCTCAGCTTCCTAGGCATTACCCAAAAGCAAGGTGTTTAAGTAA
TTGCCAGCTTTTATACCATCATGAGTGGTGACTTAAGGAGAAATAGCTGTATAGATGAGTTTTTCATTATTTGGA
AATTTAGGGGTAGAAAATGTTTTCCCTAATTTCCAGAGAAGCCTATTTTATATTTTAAAAAACTGACAGGG
CCCAGTTAAATATGATTTGCATTTTAAATTTGCCAGTTTATTTTCTAAATCTTTTCATGAGCTTGCCTAAAA
TTCGGAATGGTTTTCGGGTTGTGGCAAACCCCAAAGAGAGCACTGTCCAAGGATGTCGGGAGCATCCTGCTGCTT
AGGGGAATGTTTTCGCAAATGTTGCTCTAGTCAGTCCAGCTCATCTGCCAAAATGTAGGGCTACCGTCTTGATG
CATGAGCTATTGCTAGAGCATCATCCTTAGAAATCAGTGCCCCAGATGTACATGTGTTGAGCGTATTCTTGAAAG
TATTGTGTTTATGCATTTCAATTTCAATGGTGTGGCTTCCCCTCCCCACCCACGCGTCATAAAAACTGGTTC
TACAAATTTTTACTTGAAGTACCAGGCCGTTTGCTTTTTTTCAGGTTGTTTTGTTTTATAGTATTAAGTGAAATTTT
AAATGCACAGTTCTATTTGCTATCTGAACTAATTCATTTATTAAGTATATTTGTAAAAGCTAAGGCTCGAGTTAA
AACAAATGAAGTGTTTTACAATGATTTGTAAAGGACTATTTATACTAATATGGTTTTGTTTTCAATGAATTAAGA
AAGATTAAATATATCTTTGTAAATATTTTATGTCATAGTTTAAATGGTCTACCAAGTAAGACATCTCAAATACA
GTAGTATAATGTATGAATTTTGTAAAGTATAAGAAATTTTATTAGACATTCTCTTACTTTTTGTAAATGCTGTAAA
TATTTCATAAATTAACAAAGTGTCACCTCCATAAAAAGAAAGCTAATACTAATAGCCTAAAAGATTTTGTGAAT
TCATGAAAACCTTTTTAATGGCAATAATGACTAAAGACCTGCTGTAATAAATGTATTAACTGAAACCT

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FIGURE 6311

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGGGCGGAGGGAAGCCGGCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCCAGCTCCTGCCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATC**ATG**CCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGAGGCCCCTGGGCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACCTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCTGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCAAGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTGTCGGAAATTGGCAGTACTTCTTTCCTGTGATCTTCAGCAAAGCTTCCG
ATTCTTGCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACGTGTACATCTTTGCCACCT
GCCTGGGCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGACAGGCTTCCCTGATAATCATCC
TGGCCATAATCGCAAAAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTCGGGGATCCCAAGAAGCTGCTCACCCAATATTTCTGTCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGCTATGAGTTCTGTGGGGTCCAAGGGCCCTCATTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCGCATTTCCCTACCCACTCCTGCATG
AGTGGGCTTTGAGAGAGGGGGAAGAG**TGAG**TCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTTTGGGC
CAGTGCACCTTCCGGGGCCCCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATTCCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCCTGTT
GGAGTTGTTCAAATGTTCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTTATTAGATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGAAAAAGTATTTGCTTAAATTTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAACCAGGATTTCTTGAATGCAAGCGAAATTAAATCTGAATAAATAATTCTTCCTCTTC

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FIGURE 6312

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEGPSTFPDLESEFQAALSRKVAKLVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASDSLQLVFGIELMEVDPIGHVYIFATCLGLSYDGLLDNQIMPKTGFLIIILAIIAKEGDCAPEEKIWEEL
SVLEVFEGRSDSIFGDPKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHMVKISGGPRIS
YPLLHEWALREGE

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FIGURE 6313

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGGCCCTGGGGCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCCCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGGCTCCAGCAACC
AAGAAGAGGAGGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGCAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCCTGAGGAGAAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACTACCTGGAGTACCGGCAGGTGCCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTTGGAATTGTTCAAATGTTCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTTATTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACTCAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6314

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPPHSPQGASSFSTTI
NYTLWRQSDEGSSNQEEEGPRMFPDLESEFQAAISRKMVELVHFLLKYPAREPVTKAEMLESVLRNCQDFFPVI
FSKASEYLQLVFGIEVVEVVPISHLYILVTCLGLSYDGLLDNQVMPKTGLLIIVLAIIAIEGDCAPEEKIWEEL
SMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLTKIGGEPHIS
YPPLHERALREGEE

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FIGURE 6315

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCCGGGCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGACAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCCGGCAGTG
ATCCTGCATGCTACGAGTTCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGCACCTTCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTGGAATTGTTCAAATGTTCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTTATTAGATTGGGAAATCCATTCCATTTTGTGAGTTGTACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAATACATGATACAAGGAACCAAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6316

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTCGGCGGAGGGAAGCCGGCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCCAGCTCCTGCCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCCGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCGAGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCTCGTGGAAATGGCAGTATTTCTTTCTGTGATCTTCAGCAAAGCTTCCA
GTTCTTGAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACTTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGGCAGGCCTCCTGATAATCGTCC
TGGCCATAATCGCAAGAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTGGGGGATCCCAAGAAGCTGCTCACCCAACATTTCTGTCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGTTATGAATTCCTGTGGGGTCCAAGGGCCCTCGTTGAAA
CCAGCTATGTGAAAGTCTTGCACCATATGGTAAAGATCAGTGGAGGACCTCACATTTCTACCCACCCCTGCATG
AGTGGGTTTTTGAGAGAGGGGGAAGAGTTCAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGC
CAGTGCACCTTCCGGGGCCGCATCCCTTAGTTTTCCACTGCCTCCTGTGACGTGAGGCCCATTTCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCTGTT
GGAGTTGTTCAAATGTTCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTACTCAAATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGTAAAAGTATTTGCTTAAAATTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAACCAGGATTTCTTGACTTCTTTGAGAATGCAAGCGAAATTAAATCTGAATAATAATTCTTCTCTCCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6317

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTILGEVPAAESPDPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEEGPSTFPDLESEFQAALSRKVAELVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASSSLQLVFGIELMEVDPIGHLYIFATCLGLSYDGLLDNQIMPKAGLLIIVLAI IAREGDCAPEEKIWEEL
SVLEVFEGRSDSILGDPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRALVETSYVKVLHMHMVKISGGPHIS
YPPLHEWVLREGEE

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FIGURE 6318

GAGCAGCGCGGCCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTGCTTCCCTCGGCTGTGGACCGGGCGGCACGC
ACGCGGTGCAGGGTAAC**ATG**GCGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGTCTCAGTGGCCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CACCTCTTGTCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATCTTG
ACAAGCCCTCTAACCCCTCTTCCCATGAGGTGGTAGCCTGGATTTCGACGGATACTTCGGGTGGAGAAGACAGGGC
ACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTTAAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAAATGCTATTGAAGGGGGGACCCAGCTTT
CTAGGGCCCTAGAACTCTGACAGGTGCCTTATTCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGTGAGGACCATCTACGAGAGCAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTTGGGTGAGTT
GTGAGGCTGGCACCTACATTCGGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGG
AGCTTCGGAGGGTTCGTTCTGGAGTCATGAGTGAAGAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
AGTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAGAGCTGTTGACAT
CTCATAAACGGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCTCTCTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGCAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGAAAGCAAAAGAGGTAGAATTGGTTTCTGAG**TAGT**GAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAAACATGTTATAGATCCTTTTGTTGCTGAGAGAGTGGAACATA
GGTCCTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCATCTTGTCTGTTTTAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGCAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCCTAGTTTGCAATTTTTTAAATCCCCTCTGTTTAAAAGGTTTGTAACCAAAAAACAAAAAATAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTCTTGGCCTAGA
GGTCAGTCCTTTGCACTTCCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCTGACTACTTGTTCCTGTGCC
CTCTGTTTTAGGCCTCGTTTACTTTTAAAAAATGAAATTGTTTATTGCTGGGAGAAGAATGTTGTAATTTTTAC
TTATTAAAGTCAACTTGTTAAGTTTTTATGTATTCCTGTTGGGTTTTCTTGTGATCTCATGCTAGCAGAGCAA
AAATTGTAATAATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTTGGAATTCGATATCAA

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FIGURE 6319

MADAEVILLPKKHKKKKERKSLPEEDVAEIQHAEEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTHYTPLACG
SNPLKREIGDYIRTGFINLDKPSNPFSSHEVVAWIRRI LRVEKTGHSGTLDPKVTGCLIVCIERATRLVKSQQSAG
KEYVGIVRLHNAIEGGTQLSRALETLTGALFQRPPLIAAVKRQLRVRTIYESKMIEYDPERRLGIFWVSCEAGTY
IRTL CVHLGLLLGVGGQMQLRRVRSGVMSEKDHMTMHDVLD AQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV
MKDSAVNAICYGAKIMLPGLRYEDGIEVNQEIVVITTKGEAICMAIALMTTAVISTCDHGIVAKIKRVIMERDT
YPRKWGLGPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYSESAKKEVVAE VVKAPQVVAEAAKTAKRKRE
SESESEDETPPAAPQLIKKEKKKSKKDKKAKAGLESGAEPGDGSDTTKKKKKKKKAKEVELVSE

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FIGURE 6320

AGGGACAGCCCAGAGGAGGCGTGCCACGCTGCCGGCGGAAGTGGAGCCCTCCGCGAGCGCGAGGGCCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCCGGGCGGCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCGTGCCCGCCGGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGCCGGCCTCCAGC
GCAGGTGCCCGAGAGGCAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCCGCCCGCACGAGGG
GTGGTGCCGAGGCCCCGCCCCGCACGCCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCCGCCCCGCCCC
GCCGATTAAATGGGCGGGCGGGGCTCAGCCCCCGGAAACGGTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGGCGATGCCCTTCCATCAGTCGGATACACACATATTTCATCATCATGGGTGCATCGGGTGAC
CTGGCCAAGAAGAAGATCTACCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCCGAAAACACCTTCATC
ATGGGCTATGCCCGTTCCCGCCTCACAGTGGCTGACATCCGCAAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCCGCAACTCCTATGTGGCTGGCCAGTACGATGATGCAGCCTCC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTCACAGGCCAACCGCCTCTTCTACCTGGCCTTG
CCCCGACCGTCTACGAGGCCGTCACCAAGAACATTACAGAGTCTTCATGAGCCAGATAGGCTGGAACCGCATC
ATCGTGAGAGAAGCCCTTCGGGAGGGACCTGCAGAGCTCTGACCGGCTGTCCAACCACATCTCCTCCCTGTTCCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGCTGAGATTTGCC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTTGGC
ACTGAGGGTCGCGGGGGCTATTTTCGATGAATTTGGGATCATCCGGGACGTGATGCAGAACCACCTACTGCAGATG
CTGTGTCTGGTGCCATGGAGAAGCCCGCCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTTG
AAATGCATCTCAGAGGTGCAGGCCAACAAATGTGGTCTGGGCCAGTACGTGGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAAGGGTACCTGGACGACCCACGGTGCCCGCGGGTCCACCACCGCCACTTTTGCAGCCGTCGTCTCTC
TATGTGAGAGAATGAGAGGTGGGATGGGGTGCCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGACGCCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGGCATGTTCTTCAACCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAAGCTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTACCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCCTATATTTATGGCAGCCGAGGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCAACAAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCGCCACGGCCACCCTCCTTCCCGCCGCCGACCCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCTGGCCCCGGGCTCTGGCCACCCTGGCCCGCCCTCGCTGCTGCTACTACC
CGAGCCCAGCTACATTCTCAGCTGCCAAGCACTCGAGACCATCCTGGCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCCTCCACTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCATTCTGTCTGTCCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAGGGGCGAGC
ACCCACGTGAGAGAAATCTGCCTGTGGCCTTGCCCGCCAGCCTCAGTGCCACTTGACATTCTTGTACCCAGCAAC
ATCTCGAGCCCCCTGGATGTCCCTGTCCCACTCTGCACTCCATGGCCACCCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC

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FIGURE 6321

GAGCTCGCGGGCGACTGCCTGCCAGGCAGACGCTGCAGCTAAGCTGCGCGGTGGCTGTGGCAGGTGAGAGCCTCC
GGAAGGGAGGCGGCCTCTGGCCCCGACCCTGCTCCGCGATCGCCCACTCGGGCGCCCGGCCGGCCCTGGCAGGGA
AGGGCCGCCCGCCGCCCGCCGCGCTTTGCGAGGCCTGGCGGGGCCGCGGGGCCAGGAATGGCGTAAGGGGCCCC
CCAGACTCCGAGACGGCCCGAGCGGGTCGCCGGCTGTGGGACGGCGGGCTGCCCTTCCTTTCTCCCTCCCAGGT
TCGCGCCCCGAGCTCTGCTAGCCACCCGTCCGACAACCTCCGGACTCCCAGGGACAGCCCTGCCATCAAGGAAGAC
AGCACAGGACTGGGACCCACCCATGAACCTTCTCAGGACAACCCAACAGCACCAGTGGGGATGTTCTCCTAAGC
CGCAGAGGGCCTGGGCACGCCATCCGTCTCCAGGAAGAGCCATGGTGTTAATGCAGGACAAGGGCAGCTCTCAG
CAGTGGCCTGGTCTGGGGGGCGAGGGTGGTGGCACAGGTCCCTTAAGCATGCTCAGAGCTGCCCTGCTGCTCATC
AGCCTGCCATGGGGGGCCCAAGGGACAGCCAGCACCAGCCTCAGCACTGCTGGGGGTACACCCGTGCCACCGACT
GGGGGCCGCTACTTGAGCATTGGAGATGGCTCTGTGATGGAGTTTGAGTTTCTTGAGGACAGTGAGGGCATCATC
GTGATCTCCAGCCAGTACCCAGGCCAGGCCAACAGGACGGCGCCTGGCCCCATGCTCAGGGTCACCTCCCTGGAC
ACAGAGGTGCTGACCATCAAGAACGTGAGTGCTATAACCTGGGGAGGCGGGGTGGCTTTGTGGTGAGCATCCAC
TCAGGCCTGGCTGGGCTGGCCCCACTCCACATCCAGCTCGTGGACGCCCATGAGGCCCCGCCACACTGATTGAG
GAGCGGAGAGACTTCTGCATCAAGGTCTCACCTGCTGAAGACACGCCTGCCACCCTCAGCGCCGACCTGGCCAC
TTCTCGGAAAACCCAATCCTCTACCTGCTCCTGCCTCTTATCTTTGTCAACAAGTGTTCGTTTGGGTGCAAAGTG
GAACTCGAGGTTCTGAAGGGGCTCATGCAGAGCCCCCAGCCCATGCTGCTGGGCCTCCTGGGCCAGTTTCTGGTC
ATGCCCTTGTACGCTTTCTCATGGCCAAGGTCTTCATGCTGCCCAAGGCCCTGGCTCTGGGCCTCATCATCACC
TGCTCGTCGCTGGCGGCGGGGGGAGCTACCTCTTCAGCCTCCTTCTTGAGGGGACGTCACCCTGGCCATCTCC
ATGACTTTCTCTCTACGGTGGCTGCCACTGGCTTCTTGCTCTGTCTTCGGCCATCTACAGCCGCCTGCTCAGC
ATCCATGAGACGCTCCACGTGCCCATCTCCAAGATCCTGGGGACCCTGCTGTTTCATTGCCATCCCCATAGCCGTG
GGCGTGCTGATCAAGTCCAAGTCCCCAAGTTCTCCCAGCTGCTGCTGCAGGTCGTCAAGCCCTTCAGCTTTGTG
CTCCTCCTGGGCGGCCTCTTCCTGGCCTATCGCATGGGGGTCTTCATCCTGGCAGGCATCCGGCTACCCATCGTA
CTGGTGGGTATCACGGTGCCCCTGTTGGCCTGTTGGTGGGCTACTGCCTAGCCACGTGTCTGAAGCTGCCAGTG
GCCCAGCGGCGGACGGTCAGCATTGAGGTAGGGGTGCAGAACAGCCTGCTGGCCTTGGCCATGCTGCAGCTATCC
CTCCGCCGCTTCAAGCTGACTATGCCTCCCAGGCCCTTTCATTGTGGCGCTGAGCGGCACCTCCGAGATGCTG
GCCTTGGTTCATTGGCCACTTCATCTACAGCAGCCTGTTCCCAGTTCCCTTGAGGGCCTCTGGGTCAAGCTTTTCATCA
GCCCCAGCCCCCACACTCCACCAAAGTTCTCATGCACTATGCACTCAGAAAAATCCAGGCTTATTTTTTTTACTGA
TTTTTTTATTCTCCAGCTTTCAGTGCCAAAGAGGCCATGCTGAGTTAGGTAGGTGGGCGCTGCCAGAAAATATAT
TTCAATAAAAGAGAGAAGCAAGC

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FIGURE 6322

MVLMQDKGSSQQWPGLGGEGGGTGPLSMLRAALLLISLPWGAQGTASTSLSTAGGHTVPPTGGRYLSIGDGSVME
FEFPEDSEGIIVISSQYPGQANRTAPGPMLRVTSLDTEVLTIKNVSAITWGGGGGFVVSIIHSGLAGLAPLHIQLV
DAHEAPPTLIEERRDFCIKVSPAEDTPATLSADLAHFSENPILYLLLPLIFVNKCSFGCKVELEVLIKGLMQSPQP
MLLGLLGQFLVMPLYAFLMAKVFMPLKALALGLIITCSSPGGGGSYLFSLLLGGDVTLAISMTFLSTVAATGFLP
LSSAIYSRLLSIHETLHVPIISKILGTLLFIAIPIAVGVLIKSKLPKFSQLLLQVVKPFSFVLLLGGFLAYRMGV
FILAGIRLPIVLVGITVPLVGLLVGYCLATCLKLPVAQRRTVSIEVGVQNSLLALAMLQLSLRRLQADYASQAPF
IVALSGTSEMLALVIGHFIYSSLFPVP

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FIGURE 6323

CCGCGCTGCCGCTGCCGCTGTGCTGTGCTGCC
ATGGCTCAATACAAGGGCGCCGCGAGCGAGGCCGGCCGCGCCATGCACCTGATGAAGAAGCGGGAGAAGCAGCGC
GAGCAGATGGAGCAGATGAAGCAGCGCATCGCGGAGGAGAACATCATGAAATCCAACATTGACAAGAAGTTCTCT
GCGCACTACGACGCGGTGGAGGCAGAGCTCAAGTCCAGCACCGTGGGTCTCGTGACCCTGAATGACATGAAGGCC
AAGCAGGAGGCTCTGGTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGTCCAAGGAGCTGCAGATGAAG
CTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGATCTCCAGCCTGTCTTACCCTGGAG
GAGGAAGAAGAGGGAGGCGAGGAGGAAGAGGAGGCGGCCATGATGAGGAGGAGATGGAAAGGGAAGAGATCACC
ACGAAGAAGAGAAAACCTGGGGAAGAACCCAGACGTTGACACAAGCTTCTTGCCTGATCGAGACCGTGAGGAGGAG
GAGAATCGGCTTCGGGAAGAGCTGCGGCAGGAGTGGGAAAGCCAAGCAGGAGAAGATCAAGAGTGAGGAGATCGAG
ATCACCTTACGCTACTGGGATGGCTCTGGGCACCGCGGACAGTCAAGATGAGAAAGGGCAACACCATGCAGCAG
TTCTTGCAAGAGCGCTCGAGATCCTTCGGAAGACTTCAGTGAGCTGAGGTCCGCAGGGGTGGAGCAGCTCATG
TACATCAAGGAGGACTTGATCATCCCTCACCATCACAGCTTCTACGACTTCATCGTCACCAAGGCACGGGGGAAG
AGTGGACCACTCTTCAACTTTGATGTTTCATGACGATGTGCGGTTGCTCAGTGACGCCACTGTGGAGAAGGATGAG
TCCCATGCAGGCAAGGTGGTGCTGAGGAGCTGGTACGAGAAGAACAAGCACATCTTTCCCGCCAGCCGCTGGGAA
CCCTACGACCCTGAAAAGAAGTGGGACAAGTACACGATCCGCT**TGAG**CATCCAGGAGGCTGCGCGGCCCGGCTCC
TCAGCTCCCTCAGTGTGCCCGTGGTGTACCCGGGACTCCAGGCACCCGCTCCCCTGCGACCATGCCAGGCACGC
TGGGAGGAGGACGGCAGCTGCTCGTGTCTCTGCCCTGCCACATCAGTGACTGCTTTATTCTTTTCCAATAAAGAA
GTGCACGTGTGAGAGCTGGAGCGCCTGCATTGTGAG

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FIGURE 6324

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAELKSSTVGLVTLNDMKA
KQEALVKEREKQLAKKEQSKELQMKLEKLREKERKKEAKRKISSLSFTLEEEEEEGGEEEEEAAMYEEEMEREET
TKKRKLGNPDVDTSTFLPDRDREEEENRLREELRQEWAKQEKIKSEEIEITFSYWDGSGHRRTVKMRKGNTMQQ
FLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHSFYDFIVTKARGKSGPLFNFDVHDDVRLLSDATVEKDE
SHAGKVVLRSWYEKNKHIFPASRWEFPYDPEKKWDKYTIR

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FIGURE 6325

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAATTTGTCCAGCCTTCTATTACCACGTGGAATCCATTAGCTACAGCCAT
CCCATTGAGAAGCTGAGTGGATTACAGCCCCACCTCCTGCTCACAGACCCTGTCCGAGCACCTCATTTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGCA
CAAACACCCCTAACTCAGAAGTGTCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGCCCCGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCAGCCCCCTCCTTGC
CCCAGGCTTGAGTGAATCACAGCCCTATTACAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGGTGACAAGCTGGTCTGAGCAGCGCCTCCAGAGCCAGAAGTGAAGCCAGTGAGAGCGCACCCCTGG
GGCAGCCTGGATTCTTGGGGTGTCCCCGGCAGCCACACACAGCCATGCACTACCCAAGTGCATCCTCTTCTCTCA
TCCTGGCCAATGGGGCCCAGGCCTTTCGCATCTGCGCCTTCAATGCCCAGCGGCTGACACTGGCCAAGGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTCGGATACTGGCTCGCTGTGACATCATGGTGCTGCAGGAGGTGGTGGACT
CTTCCGGCAGCGCCATCCCGCTCCTGCTTCGAGAAGTCAATCGATTTGATGGCTCTGGGGCCTACAGCACCCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTACACAAAAACACAGGTCC
TGAGTTCCTACGTGTACAACGATGAGGATGACGTCTTTGCCCCGGGAGCCATTTGTGGCCCAGTTCTCTTTGCCCA
GCAATGTCCTTCCCAGCCTGGTGTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCCC
TCTACGATGTGTTTCTGGAGGTCTCCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCCTGGACAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGCGGGCCAGCACCACTGCACCTATGCCCCGCTCGTGCTGCACGGGGAGCGCT
GCCGGAGTCTGCTGCACACTGCGGCTGCCTTTGACTTCCCCACGAGCTTCCAGCTCACCGAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTTGCTGCTATCACTCCTGTCCCCTCAGCTGTGCCCTGCTGCCTGAGCGTCCCCCTACCCCCCAGGG
CCTGCTGCCTTTTGGGACTTAAACCCCAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCTTGTTTGATTTGGCTCTTGTTCTTTGGTTGGGCTTGTGCCTA
GATTAGGAGAGGAAGCCAGGGGGCCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGAGACAAAG
TGGGCTCTGGGTTGGGGTAGGGGAAGGGAGGGTTTCAGAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAACAAACCCAGATTGGTGAGATAGGACACTTGTGCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAAAACACCGGGAAACATTTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAATCTGCACCAGTTATGTAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCCGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGGACCCCTCCCT
TCCATCCTCCTCTCCAAAGAAGAGAGGTGAGGAAAAACACTGGCTGGGACGCTAGAAGGGTCATGTGTTAACTAT
AATCACATTTATGGTTTGAACCATCACCCCAAGGTAAAAAATAAAGGTATTCCCAGGTATGTTTGGCAA
AATAAAATAAAGGTAATTAAAAACCT

6844/6881
FIGURE 6326

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTGCCC**ATG**GGCCGCCGCCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGATTTTTGACCTGG
GGCGGAAAAAGGCCAAAAGTGGATGAGTTTCCGCTTTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTATCCGCATCAACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCCTTTGGAAAGCCCCAGGGCAGTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCC
TGCACTCAT**TGA**GGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAATTCTACTTCTGTCCACCTAT
GTCCTTTGTATCTACATTCTTGACGGGAAGGAACCTTCTCTGGGAACCTTTGGGTGATTGCCCTTTCACTTCAGA
AACAGGTTGACAACCTAGCCCTGCTCATGAGGCAGCAAACCTGCAAAGGGCTGGGACTGGTGGCCTTATGTCAG
TTGTCTACTCTGGAGCTTGACTTGGACCTCCCCAGGTCTAGGCAGTAGGTTGAAAAACACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCCAGGCTGGGGTTCAGCCTACAGTTGTGTTGCTTATTACAACACA
TGCGGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTTAGCAAGGGTAGGTGTGCATCACAT
TGGGCTTGTCTCACCCATCTGGTTTGGCCATTCTCTCTGGTGGGAATCATCCAGGTACTGCTGAGGTCACCTG
CGATTTGCCCCATTTCTATCTCTAGCAACCTCTTGGGCCCCATGCCCCACCCCTTCTAGAACCTGCATTCCCA
GGGCTTACACACCTGACCAAAGGTCTAGGCTAACCTTTGGTCATTTGTAACAAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCCTGGGGATCTTAGATGTCTGACCTGAACTATTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCAGCCTGTGGCTCCCAAAAGGCCTCTGGTTTTTTGTAATCTCAG
TTTACAGCCATTTCTTAGGTTTTTAATTACCTTTATTTTATTTTGCCAAACATACCTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCCTTCTAGCGTCCCAGC
CAGTGTTTTTCTGACCTCTCTTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTTTGC
TGTGTCTGTCAGCCCCCTTCCGGGACACCTGGGTTACACAGCTTTTTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCTTGACCAGCCTTGGCTGGACTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTAC
AGCACCAGGAGGTGCGAGTGTGGCTGCTCAGCGGTTATAACAGGCCTGACTGCATTGTTACCCGGATTATAATG
AGCCAAAATGTTTCCCGGTGTTTGCTGGTTTCAGGGAAGGAGTTTGATATAGCAGATTAACCACCTCCTTGTAG
CTATTGGGGCTTAATGGTTTCTGGTGATTCTTACCAATCCACAATAAACATGGCCCATTGGCATATCTGCAAAA
AAAAAAAAAAAAA

6845/6881
FIGURE 6327

MGRRPARYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMTSDEYEQLSSEALEAARICANKY
MVKSCGKDGFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFGKPQGTVARVHIGQVIMSIRTKLQNEHVIE
ALRRAKFKFPGRQKIHISKKWGFTKFNADEFEDMVAEKRLIPDGCGVKYIPSRGPLDKWRALHS

6846/6881
FIGURE 6328

CGGCCGGTTTTGGTAGGCCCGGGCCGCCAGGCCTCCGCCTGAGCCCGCACCCGCCATGGACAACCTACGCAGA
TCTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCG
TAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGGCGGCTCTCGCCCCCAGCTCGTCCGCCGC
CTCCTCTTATAGCTTCTCTGACTTGAATTCGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGA
CGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGG
GGAGCCCGAGTCTGCCGGCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCA
TCACCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGG
CCGGGACAGTGCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCCTA
TTATCCTACTTCCTCCTCCACCTCTTTTATGTCCTCCTCATCATCTTCCTCTTCATGGCTCACCCGCCGTGCCAT
CCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCGCTCTGGGGCCAGCTGCTGCT
TTTCCTGGTCTTTGTGATCGTCCTCTTCTTCATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAG
GGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTTGGGGAAGTCCTGGCTGACTGCCTTAGCAGTGGGGGTGG
GGGTGGGGGCAGGGGCAGGGGCTTTATGTGTTTTTGCTTGGGGGGCGCTGGGCCTAGCCCAGAGTAGTGCTTGCT
CCCCCTGCCTTGTCACCAGGGAGGCAGCAGACTCAGGCCCTCCATGGTCCTCTTTGTCATTTTGTGACATGC
ATTCTCCTTTTGTTCATCTTGTTGGGGGAGGGGATTAACCAAAGGCCACCCTGACTTTGTTTTTGTGGACACAC
AATAAAAGCCCCGTTTATTGT

6847/6881
FIGURE 6329A

GCGATCCGGGCGCCACCCCGCGGTCATCGGTCACCGGTCGCTCTCAGGAACAGCAGCGCAACCTCTGCTCCCTGC
CTCGCCTCCCGCGCGCCTAGGTGCCTGCGACTTTAATTAAAGGGCCGTCCCCTCGCCGAGGCTGCAGCACCGCC
CCCCGGCTTCTCGCGCCTCAAAATGAGTAGCTCCCACTCTCGGGCGGGCCAGAGCGCAGCAGGCGCGGCTCCGGG
CGGCGGCGTTCGACACGCGGGACGCCGAGATGCCGGCCACCGAGAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACACTTTCACGCGCTGGTGAACGAGCACCTGAAGTGCGTGAGCAAGCGCATCGCCAACCTGCA
GACGGACCTGAGCGACGGGCTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACCGCAAGCA
CAACCAGCGGCCCCACTTTCGCCCAAATGCAGCTTGAGAACGTGTCGGTGGCGCTCGAGTTCCTGGACCGCGAGAG
CATCAAACCTGGTGTCCATCGACAGCAAGGCCATCGTGGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCATGCCATGTGGACGAGGAGGAGGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGCTCCTGGGCTGGATCCAGAACAAGCTGCCGCAGCTGCCCATACCAACTTCAGCCGGGACTGGCA
GAGCGGCGGGGCCCTGGGCGCCCTGGTGGACAGCTGTGCCCCGGGCCCTGTGTCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCCGTTACCAATGCGCGAGAGGCCATGCAGCAGGCGGATGACTGGCTGGGCATCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCAACGTGGACGAGCACTCTGTATGACCTACCTGTCCCAGTTCCCCAAGGCCAA
GCTGAAGCCAGGGGCTCCCTTGC GGCCCAAACCTGAACCCGAAGAAAGCCCGTGCCTACGGGCCAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGGCGGACACCAGGAGGAGGCAAAAGTGACCGCCAATAACGACAAGAACCGCACCTTCTC
CGTCTGGTACGTCCCCGAGGTGACGGGACTCATAAGGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAAGAG
CCCCTTGAGGTGTACGTGGATAAGTCACAGGTTGACGCCAGCAAAGTGACAGCCCAAGGTCCCCGCCCTGGAGCC
CAGTGGCAACATCGCCAACAAGACCACCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTGAGGT
TGTGATCCAGGACCCCATGGGACAGAAGGGCACGGTAGAGCCTCAGCTGGAGGCCCGGGGCGACAGCACATACCG
CTGCAGCTACCAGCCCACCATGGAGGGCGTCCACACCGTGCACGTACGTTTGCCGGCGTGCCCATCCCTCGCAG
CCCCTACACTGTCACTGTTGGCCAAGCCTGTAAACCGAGTGCTGCCGGGCGGTTGGCCGGGGCCTCCAGCCAA
GGGTGTGCGGTGAAGGAGACAGCTGACTTCAAGGTGTACACAAAGGGCGCTGGCAGTGGGGAGCTGAAGGTCAC
CGTGAAGGGCCCCAAGGGAGAGGAGCGCGTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTATTA
CCCCATGGTCCCTGGAACCTATATCGTCAACATCACGTGGGGTGGTCAGAACATCGGGCGCAGTCCCTTCGAAGT
GAAGGTGGGCACCGAGTGTGGCAATCAGAAGGTACGGGCCTGGGGCCCTGGGCTGGAGGGCGGCGTGTGGCAA
GTCAGCAGACTTTGTGGTGGAGGCTATCGGGGACGACGTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGAGGAGGCTGGCGAGTA
TGCCGTTACGTGCTGTGCAACAGCGAAGACATCCGCCTCAGCCCCCTTCATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGGTGAAGGCACGTGGGCCTGGATTGGAGAAGACAGGTGTGGCCGTCAACAAGCCAGC
AGAGTTCACAGTGGATGCCAAGCACGGTGGCAAGGCCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGCTGCCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCAGGAAGCCGTTGAAGCA
CACAGCCATGGTGTCTGGGGAGGCGTCAGCATCCCCAACAGCCCCCTTCAGGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAAAGGTCAAAGTATACGGCCCCGGAGTAGCCAAGACAGGGCTCAAGGCCACGAGCCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGACGTGAGCATCGGCATCAAGTGTGCCCCCTGGAGTGGTAGGCCCGC
CGAAGCTGACATCGACTTCGACATCATCCGCAATGACAATGACACCTTCACGGTCAAGTACACGCCCCGGGGGC
TGGCAGCTACACATTATGGTCTCTTTGCTGACCAGGCCACGCCACCAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTGAGCTTGGCAAGCCCAC
CCACTTCACAGTAAATGCCAAAGCTGCTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTACCAAGGGGA
TGCAGTGCGAGATGTGGACATCATCGACCACCATGACAACACCTACACAGTCAAGTACACGCCTGTCCAGCAGGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTTGGCAAAGACCAGGAGTTCACAGT
CAAATCAAAGGGTGTGGTGGTCAAGGCCAAAGTGGCATCCAAGATTGTGGGCCCCCTCGGGTGCAGCGGTGCCCTG
CAAGGTGGAGCCAGGCCTGGGGGCTGACAACAGTGTGGTGCCTTCTGCCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGCCCGTGCCTGGCAGCCCCCTTTCTCTGGAAGCTGTGGCCCCCACCAGCCTAG
CAAGGTGAAGGCGTTTGGGCCGGGGCTGCAGGGAGGCAGTGC GGCTCCCCCGCCGCTTACCATCGACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCCTGACGGTGGAGGGCCCCCTGTGAGGCGCAGCTCGAGTGTGGACAATGG
GGATGGCACATGTTCCGTGTCTACGTGCCACCGAGCCCGGGGACTACAACATCAACATCCTCTTCGCTGACAC

6848/6881
FIGURE 6329B

CCACATCCCTGGCTCCCCATTCAAGGCCACGTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCCAAGTGGACTGCTCGAGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGGCTTCGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCCTCTGCCCCGGGGCTACACCGTCACCATCAAGTACGGCGGCCAGCCCGTGCCCAACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTCAGTGTGGACGCCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTTCAAGGACCGTGCGATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCCTGCCCCAGCAG
CCCCTTCCAGGTGCCCCGTGACCGAGGGCTGCGACCCCTCCCGGGTGCCTGTCCACGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCCAACAAGTTCAGTGTGGAGACCAGGGGAGCTGGCACGGCGGCCTGGGCCTGGCTGTAGA
GGGCCCCCTCCGAGGCCAAGATGTCCTGCATGGATAACAAGGACGGCAGCTGCTCGGTGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTACCTATGGTGGCCATCAAGTGCCAGGCAGTCTTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCGTCCAAGGTCAAGTGCTCTGGGCCCCGGCCTGAGCCCAGGCATGGTTCTGTGCAACCTCCC
TCAGTCTTCCAGGTGGACACAAGCAAGGCTGGTGTGGCCCCATTGCAGGTCAAAGTGCAAGGGCCCCAAGGCCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGCTGATGGCACCCAGACCGTCAATTATGTGCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGGAGCCCCCTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCACTGGCGTGCTGCCAGCCTGCCCGTGGAGTT
CACCATCGATGCAAAGGACGCCGGGGAGGGCCTGCTGGCTGTCCAGATCACGGATCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCACGTATACAGTGGCCTACGTGCCAGACGTGACAGGTGCTACACCAT
CCTCATCAAGTACGGTGGTGACGAGATCCCCTTCTCCCCGTACCGCTGCGTGCCGTGCCACCGGGGACGCCAG
CAAGTGCACTGTACAGGTGCTGGCATCGCCCCACCATTCAAGATTGGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGGCGCAGGCAAAGGCAAAGTGACGTGCACCGTGTGCACGCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAATGAGGACGGCACTTTTCGACATCTTCTACACGGCCCCCAGCCGGGCAAATACGTATCTGTGTGCGCTT
TGGTGGCGAGCACGTGCCAACAGCCCCCTTCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCAGCCCCC
TCTACGGTCTCAGCAGCTGGCCCCACAGTACACCTACGCCCAGGGCGGCCAGCAGACTTGGGCCCCGGAGAGGCC
CCTGGTGGGTGTCAATGGGCTGGATGTGACCAGCCTGAGGCCCTTTGACCTTGTATCCCCTTACCATCAAGAA
GGGCGAGATCACAGGGGAGGTTTCGGATGCCCTCAGGCAAGGTGGCGCAGCCCACCATCACTGACAACAAAGACGG
CACCGTGACCGTGCGGTATGCACCCAGCGAGGCTGGCCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCCTTGCACTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTACCGTCAACACCAAGGATGCAGGAGAGGGGGCCTGTCTCTGGC
CATTGAGGGCCCCGTCCAAAGCAGAAATCAGCTGCACTGACAACCAGGATGGGACATGCAGCGTGTCTACCTGCC
TGTGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCCTTCACTGCTCG
GGTCACAGGTGACGACTCCATGCGTATGTCCACCTAAAGGTGCGCTCTGCTGCCGACATCCCCATCAACATCTC
AGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTTATTCTGTGCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGTGGTGATCAGCCAGTCGGAATTTGGGGATGCCAGTCGTGTTG
GGTCTCTGGTCAGGGCCTTACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACCTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGGCGACCAGCACGTGCC
TGGCAGCCCCCTTCTCTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATCACCCGAGGCGTCGGGCTCC
TTCAGTGGCCAAAGTTGGTAGTCATTGTGACCTCAGCCTGAAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAAGACCCATGAGGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACAGTCAGCGTGAAGTACAAGGGCCAGCACGTGCCTGGGAGCCCCCTT
CCAGTTACACGTGGGGCCCCCTAGGGGAAGGGGGAGCCCAAGGTCCGAGCTGGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTCAGTATCTGGACCCGGGAAGCTGGTGTGGAGGCCTGGCCATTGCTGTGCA
GGGCCCCAGCAAGGCTGAGATCTCTTTTGGAGACCGCAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCCCGACAGCCCCCTTCGTGGTGCCTGTGGC
TTCTCCGTCTGGCGACGCCCCGCCCTCACTGTTTCTAGCCTTCAGGAGTCAGGGCTAAAGGTCAACCAGCCAGC

6799/6881
FIGURE 6282

CAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGAC
GGTCCGTTTCTGCGTCAGCTGCCGGCCGAGTTGGGTCTCCGTGGTTTCAGGCCGGCTCCCCCTTCCTGGTCTCC
CTTCTCCCGCTGGGCCGGTTTATCGGGAGGAGATTGTCCTTCAGGGCTAGCAATTGGACTTTTGATGATGTTTGA
CCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCCTCTGTTTCTTCTCTCGTGTAATCGCA
AAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAGA
AACTCCCAGGCAGGAACACCTTTTGTGTGATGGCCGCGTCATGATGGCCCCGGCAAAAGGGCATTTCCTACCTGA
CCCTTTTCTCATCCTGGGGACATGTACACTCTTCTTCGCCCTTTGAGTGCCGCTACCTGGCTGTTTCAGCTGTCTC
CTGCCATCCCTGTATTTGCTGCCATGCTCTTCCTTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGACC
CTGGAGTGATTCTCGGGCGCTACCAGATGAAGCAGCTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCGG
TGCCCCAGGGCCAGCGACCACCGCCTCGTATCAAGAATTTCCAGATAAACAACCAGATTGTGAACTGAAATACT
GTTACACATGCAAGATCTTCCGGCCTCCCCGGGCCTCCCATTGCAGCATCTGTGACAACCTGTGTGGAGCGCTTCG
ACCATCACTGCCCCTGGGTGGGGAATTGTGTTGGAAAGAGGAACTACCGCTACTTCTACCTCTTCATCCTTTCTC
TCTCCCTCCTCACAATCTATGTCTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTGAAAATTGGCTTCT
TGGAGACATTGAAAGAAACTCCTGGAAGTGTCTAGAAAGTCTCATTGCTTCTTTACACTCTGGTCCGTCGTGG
GACTGACTGGATTTTCACTTTCTTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACAG
GGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCCCT
TGCCCCCAGTGTGCTGGATCGAAGGGGTATTTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCAGTACTCAAG
AGACCAGTAGCAGCCTCTTGCCACAGAGCCCAGCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGACA
GCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAGC
CTATCTATGGAAGAGACTTTTGTGTTGTGTTTAATTAGGGCTATGAGAGATTTTCAGGTGAGAAGTTAAACCTGAGA
CAGAGAGCAAGTAAGCTGTCCCTTTTAACTGTTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGCATTTC
TTGCTGCAAGCTTTTTTAAATTTCTGAACTCAAGGCAGTGGCAGAAGATGTCAGTCACCTCTGATAACTGGAAAA
ATGGGTCTCTTGGGCCCTGGCACTGGTT

6800/6881
FIGURE 6283

LFLLSCNRKTHFGAGIPIMSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTLEFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPQGQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHCPWVGNCVGKRNRYFYLFILSLSLTIYVFAFNIVYVA
LKSLKIGFLETLEKETPGTVLEVLI CFFTLWSVVGLTGFHTFLVALNQT TNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPEPPEPPQ
EAAEAEK

6801/6881
FIGURE 6284

TGCTTTCCTTCGGCTTCCGTTCTTGGTCCATGTGAGAGAAGCTGGCTGCTGAAATGACTGCGAACCGGCTTGCAG
AGAGCCTTCTGGCTTTGAGCCAACAGGAAGAACTAGCGGATTTGCCAAAAGACTACCTCTTGAGTGAGAGTGAAG
ATGAGGGGGACAATGATGGAGAGAGAAAGCATCAAAAGCTTCTGGAAGCAATCAGTTCCCTTGATGGAAAGAATA
GGCGGAAATTGGCTGAGAGGTCTGAGGCTAGTCTGAAGGTGTCAGAGTTCAATGTCAGTTCTGAAGGATCAGGAG
AAAAGCTGGTCCTTGCAGATCTGCTTGAGCCTGTTAAACTTCATCTTCTTTGGCCACTGTGAAAAAGCAACTGA
GTAGAGTCAAATCAAAGAAGACAGTGGAGTTACCTCTGAACAAAGAAGAGATTGAACGGATCCACAGAGAAGTAG
CATTCAATAAAACCGCACAAAGTCTCTCCAAATGGGACCCTGTCTGCTCTGAAGAACCGGCAGGCAGAGCAGCTGG
TTTTTCCCCTGGAGAAAGAGGAGCCAGCCATTGCTCCCATTTGAACATGTGCTCAGTGGCTGGAAGGCAAGAACTC
CCCTGGAGCAGGAAATTTTCAACCTCCTCCATAAGAACAAGCAGCCAGTGACAGACCCCTTTACTGACCCCTGTGG
AAAAGGCCTCTCTCCGAGCCATGAGCCTAGAAGAGGCAAAGATGCGACGAGCAGAGCTTCAGAGGGCTCGGGCTC
TGCAGTCTACTATGAGGCCAAGGCTCGAAGAGAGAAGAAAATCAAAAGTAAAAAGTATCACAAAGTCGTGAAGA
AAGGAAAGGCCAAGAAAGCCCTAAAAGAGTTTGAGCAGCTGCGGAAGGTTAATCCAGCTGCAGCACTAGAAGAAC
TGGAAAAAATTGAAAAGGCCAGAATGATGGAAAGAATGAGCCTTAAGCACAAAACAGTGGGAAATGGGCCAAGT
CAAAGGCAATTATGGCCAAATATGACCTGGAGGCTCGCCAAGCTATGCAGGAACAGTTGTCTAAGAACAAAGAAC
TGACACAGAAACTCCAGGTAGCCTCTGAGAGTGAGGAAGAGGAGGGAGGCACAGAAGATGTGAAGAAGTCTCTTG
TCCCTGATGTAGTGAATGAAGTGCAGATGAATGCAGATGGGCCGAATCCCTGGATGCTCAGGAGCTGCACCAAGT
ACACCAAAGAGGCTGCAACCCAGGAGGACCCTGAGCAACTGCCAGAGCTTGAGGCCCATGGAGTTTCTGAAAGTG
AGGGAGAAGAAAGACCAGTGGCAGAAGAAGAAATTTTGTGAGAGAATTTGAGGAAAGGCGATCCCTTAGAAAAA
GATCTGAGCTCAGCCAAGATGCTGAGCCAGCAGGCAGTCAAGAAACAAAAGATTCTGGCAGCCAGGAGGTGCTGT
CTGAATTGAGAGTACTATCTCAGAAATTGAAGGAAAACCATCAGTCCAGGAAGCAAAAAGCAAGTTCAGAGGGGA
CTATTCCCCAGGTCCAGAGAGAGGAACCTGCCCCAGAAGAAGAGGAGCCCTGTTGCTACAGAGACCAGAGAGAG
TACAGACGCTGGAAGAGCTAGAAGAGCTGGGAAAAGAAGAATGTTTTCAAATAAGGAGCTTCCCAGACCTGTGT
TAGAAGGGCAGCAGTCAGAGAGGACCCCAAATAATCGCCCTGATGCCCTAAGGAGAAGAAAAAGAAGGAGCAAA
TGATCGACCTACAGAACCTCCTAACCACACAATCTCCCTCCGTGAAGTCTTTGGCAGTTCCCACAATAGAGGAGC
TGGAAGATGAAGAGGAGAGAAAACCATAGGCAGATGATAAAGGAAGCTTTTGCTGGGGATGATGTCATCAGAGATT
TCTTGAAAGAGAAGAGGGAAGCTGTGGAGGCGAGTAAGCCAAAGGACGTGGACCTGACACTACCTGGCTGGGGCG
AGTGGGGTGGTGTGGGCCTAAAGCCCAGTGCCAAGAAAAGACGCCGGTTTCTCATTAAAGCCCCTGAGGGTCCTC
CAAGAAAAGATAAGAATTTGCCAAATGTGATTATCAATGAGAAGCGCAACATCCACGCAGCTGCTCATCAGGTAC
GAGTGCTTCCATATCCATTTACCCACCATTGGCAATTTGAAAGGACCATCCAGACCCCCATAGGATCCACATGGA
ACACCCAGAGGGCTTTCCAAAAGCTGACTACTCCCAAGGTGCTCACCAAGCCAGGCCATATCATTAACCCATAA
AAGCAGAAGACGTGGGCTACCGGTCTTCCTCAAGGTGCGACCTGTCTGTATACAGAGGAATCCAAAACGAATCA
CCACACGTCAAAAAACAGCTGAAGAAATGCTCTGTAGATTGAGTTGCTGGAGGAGTGACAGCCAGGAGCCCTG
ACTTCACTTCCTTTGGTCCAGTTTACTCTGATACAGGGTGGATTCCAAAACCTGGCTCAGTACATTGCATGTAGT
TAAGCCACATTTTAAAAATAAAGGCATTTTTTAATCT

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FIGURE 6285

AGAGGAAAGGGAAGGAGGAGGTCCCGAATAGCGGTCGCCGAAATGTTCCGGTGTGGAGGCCTGGCGGCGGGTGCT
TTGAAGCAGAAGCTGGTGCCCTTGGTGCGGACCGTGTGCGTCCGAAGCCCGAGGCAGAGGAACCGGCTCCCAGGC
AACTTGTTCCAGCGATGGCATGTTCTCTAGAACTCCAGATGACAAGACAAATGGCTAGCTCTGGTGCATCAGGG
GGCAAAATCGATAATTCTGTGTTAGTCCTTATTGTGGGCTTATCAACAGTAGGAGCTGGTGCCTATGCCTACAAG
ACTATGAAAGAGGACGAAAAAAGATACAATGAAAGAATTTTCAGGGTTAGGGCTGACACCAGAACAGAAACAGAAA
AAGGCCGCGTTATCTGCTTCAGAAAGGAGAGGAAGTTCCTCAAGACAAGGCGCCAAGTCATGTTTCCTTTCTGCTA
ATTGGTGGAGGCACAGCTGCTTTTGCTGTCAGCCAGATCCATCCGGGCTCGGGATCCTGGGGCCAGGGTACTGATT
GTATCTGAAGATCCTGAGCTGCCGTACATGCGACCTCCTCTTTCAAAAGAACTGTGGTTTTCAGATGACCCAAAT
GTCACAAAGACACTGCGATTCAAACAGTGGAATGGAAGAGAGAGAAGCATATATTTCCAGCCACCTTCTTTCTAT
GTCTCTGCTCAGGACCTGCCATATTGAGAATGGTGGTGTGGCTGTCTCTACTGGGAAGAAGGTAGTACAGCTG
GATGTGAGAGACAACATGGTGAACTTAATGATGGCTCTCAAATAACCTATGAAAAGTGCTTGATTGCAACAGGA
GGTACTCCAAGAAGTCTGTCTGCCATTGATAGGGCTGGAGCAGAGGTGAAGAGTAGAACAACGCTTTTCAGAAAG
ATTGGAGACTTTAGAACTTGGAGAAGATTTACGGGAAGTCAAATCAATTACGATTATCGGTGGGGGCTTCCTT
GGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGAAGTGATTCAACTCTTCCCCGAG
AAAGGAAATATGGGAAAGATCCTCCCCGAATACCTCAGCAACTGGACCATGGAAAAAGTCAGACGAGAGGGGGTT
AAGGTGATGCCCAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCAAGTTACTTATCAAGCTGAAAGACGGC
AGGAAGGTAGAACTGACCACATAGTGGCAGCTGTGGGCCTGGAGCCCAATGTTGAGTTGGCCAAGACTGGTGGC
CTGGAAATAGACTCAGATTTTGGTGGCTTCCGGGTAAATGCAGAGCTACAAGCACGCTCTAACATCTGGGTGGCA
GGAGATGCTGCATGCTTCTACGATATAAAGTTGGGAAGGAGGCGGGTAGAGCACCATGATCACGCTGTTGTGAGT
GGAAGATTGGCTGGAGAAAAATATGACTGGAGCTGCTAAGCCGTACTGGCATCAGTCAATGTTCTGGAGTGATTG
GGCCCCGATGTTGGCTATGAAGCTATTGGTCTTGTGGACAGTAGTTTGGCCACAGTTGGTGTTTTTGCAAAAGCA
ACTGCACAAGACAACCCCCAAATCTGCCACAGAGCAGTCAGGAACTGGTATCCGATCAGAGAGTGAGACAGAGTCC
GAGGCCTCAGAAATTACTATTCTCCAGCACCCCGGCAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGC
AAAGGTGTCATCTTCTACCTCAGGGACAAAGTGGTTCGTGGGGATTGTGCTATGGAACATCTTTAACCGAATGCCA
ATAGCAAGGAAGATCATTAAGGACGGTGAGCAGCATGAAGATCTCAATGAAGTAGCCAACTATTCAACATTCAT
GAAGACTGAAGCCCCACAGTGGAATTGGCAA

6803/6881
FIGURE 6286

MFRCGGLAAGALKQKLVPLVRTVCVRSFQRNRNLPGNLFQRWHVPLELQMTRQMASSGASGGKIDNSVLVLIVGL
STVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAAFAAARSI
RARDPGARVLIVSEDELPYMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSAQDLPHIENGGV
AVLTGKKVVQLDVRDNMVKLNDGSQITYEKCLIATGGTPRSLSAIDRAGAEVKSRTTLFRKIGDFRSLEKISREV
KSITIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREGVKVMPNAIVQSVGVS
SGKLLIKLDGRKVETDHIVAAVGLEPNVELAKTGGLLEIDSDFGGFRVNAELQARSNIWVAGDAACFYDIKLGRR
RVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEAGLVDSLSLPTVGVFATAQDNPKSATEQSG
TGIRSESETESEASEITIPPSTPAVPQAPVQGEDYGKGVIFYLRDKVVVGIVLWNIFNRMPIARKIIKDGEQHED
LNEVAKLFNIHED

6804/6881
FIGURE 6287

CCCTCCCCTGCCTGCATTCCC GGGACGGACCCGAGGGAAGAAGCCTCAGGAGGAGGGTGTGGGCGGAGGCGCGGC
GGCGGCTGGAGCAGCGCGGTAGGGTCCTTCGCCAGAGCATCCGGTCCGAGGGCGCACACAGGCAGAAGGCTCGGG
GCTCGTCCACTCTCCTCCCTCTCTCCTCCTCTCCCTGGCTTTGTGTTGGTGCCTCCGAGCTGCAAGGAGGGTGCG
CTGGAGGAGGAGGAGGGGGGGCCCGGAGTGAGAGGCACCCCCCTTACGCGCGCGCGCGCACACGGTGCCGGCGCAC
GCACACACGGGCGGACACACACACACGCGCGCACACACACACGCACAGAGCTCGCTCGCCTCGAGCGCACGAACG
TGGACGTTCTCTTTGTGTGGAGCCCTCAAGGGGGGTTGGGGCCCCGGTTCCGGTCCGGGGGAGATGGCGCAGCCCA
TCCTGGGCCATGGGAGCCTGCAGCCCGCCTCGGCCGCTGGCCTGGCGTCCCTGGAGCTCGACTCGTCGCTGGACC
AGTACGTGCAGATTTCGCATCTTCAAAAATAATCGTGATTGGGGACTCCAACGTGGGCAAGACCTGCCTGACCTTCC
GCTTCTGCGGGGGTACCTTCCCAGACAAGACTGAAGCCACCATCGGCGTGGACTTCAGGGAGAAGACCGTGAAAA
TCGAGGGCGAGAAGATCAAGGTTCAAGGTGTGGGACACAGCAGGTGAGGAACGTTTCCGCAAAAGCATGGTCGAGC
ATTACTACCGCAACGTACATGCCGTGGTCTTTCGTCTATGACGTCACCAAGATGACATCTTTCACCAACCTCAAAA
TGTGGATCCAAGAATGCAATGGGCATGCTGTGCCCCCACTAGTCCCCAAAGTGCTTGTGGGCAACAAGTGTGACT
TGAGGGAACAGATCCAGGTGCCCTCCAACCTAGCCCTGAAATTTGCTGATGCCCACAACATGCTCTTGTTTGAGA
CATCGGCCAAGGACCCCAAAGAGAGCCAGAACGTGGAGTCGATTTTCATGTGCTTGGCTTGCCGATTGAAGGCC
AGAAATCCCTGCTGTATCGTGATGCTGAGAGGCAGCAGGGGAAGGTGCAGAACTGGAGTTCACACAGGAAGCTA
ACAGTAAACTTCCTGTCTTGTGTAACCAAACGATATAAATACAAGATAAATTATCACTGGAGTTTTTTCTTT
CCCTTTTTTCTGTGCCTGCATAATGCTGACACCTGCTTGTTTCCATACAATTGATATCAAAATAAAATTTGTAT
AGATTATC

6805/6881
FIGURE 6288

MAQPILGHGSLQPASAAGLASLELDSSLDQYVQIRIFKIIVIGDSNVGKTCLTFRECGGTFFPKTEATIGVDFRE
KTVEIEGEKIKVQVWDTAGQERFRKSMVEHYRNVHAVVFVYDVTKMTSFTNLKMWIECNGHAVPPLVPKVLVG
NKCDLREQIQVPSNLALKFADAHNMLLFETSAKDPKESQNVESIFMCLACRLKAQKSLLYRDAERQQGKVQKLEF
PQEANSKTSCPC

6806/6881
FIGURE 6289

GCCCCACCCTCGACATGCGCTTCCGGCGACGCCTTAGCGCTGACCCCCACGCAACCCAGCGAAACTCCGCGGAG
CGCGCGCGGCACGATGGACGGTCGGGTGCAGCTGATGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCGCGGCGCG
TCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGTTTGACGGAGATACCGACCGACTCCCGGAGTTCATCGTGCA
GACGAGCTCCTACATGTTCTGGACGAGAACACGTTTCTCCAACGACGCCCTGAAGGTGCAAGCTGGGCTCCTGTT
ACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCAACTACATC
ATTCTGCCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGCTCCTAGTG
ATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCCGTCCCCCA
AGGAGCCTGTCACCTTCAGCGAGACCCATTTCTCCCCATCCCCAGAGACCTCTTGTTCTCCTGCCACATAGCTG
CCAGGGCTTAAGTGTGCCTGGCAACCAATCGAATCTCTCATTTTCTCCTGTGGACCAGTTAGTTTTGCCTAGAA
TCCTGTTTTCTTCTGAATTTGCAGCTGTCTCTCTGATGGGTGCCTTTTGTTCACACAGTAAGCCCTGCTCCCTT
CCCTGCTCTAATACTACCTGTACAAAGGTTTTTTCCTTATTTTAAATAAATGTCAGACACTATT

6807/6881
FIGURE 6290

MHIWTLSTSGASWAPVTYWDHPQPLLPTHLSRLPANYIILPTDLRYHCHRHPPHLTNRLWLLVMWTHLGGI
RAGHSPWTVIQTAGRPPRSLSPSARPISSPSPETSCVPAT

6808/6881
FIGURE 6291

TGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCCGCGCGCGTCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGT
TTGACGGAGATAACCGACCGACTCCCGGAGTTCATCGTGCAGACGAGCTCCTACCATGTTTCGTGGACGAGAACACGT
TCTCCAACGACGCCCTGAAGCCCAGCCCCCTCCATGCACATTTGGACGCTGTCCTGCACTTCAGGTGCAAGCTGGG
CTCCTGTTACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCA
ACTACATCATTCTGCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGC
TCCTAGTGATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCC
GTCCCCCAAGGAGCCTGTCACCTTCAGCGAGACCCATTTCCTCCCCATCCCCAGAGACCTCTTGTGTTCTGCCA
CATAGCTGCCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTC

6809/6881
FIGURE 6292

MFVDENTFSNDALKPSPSMHIWTLSCETSGASWAPVTYWTDHPQPLP¹THLHSSRLPANYIILPTDLRYHCHRHP
HLTNRLWLLVMWTHLGGIRAGHSPWTVIQTAGRPPRSLSPSARPISSPSPETSCVPAT

6810/6881
FIGURE 6293

CGGCACGAGGACAGAATCAGGTGATGGTCCAGAATTAAGAGCTGTCACCTGTGTCATTCACTCACA**ATG**GAAGAA
ATGAAGAAGACTGCCATCCGGCTGCCCCAAGGCCAAACAGAAGCCTATAAAGACGGAATGGAATTCCCGGTGTGTC
CTTTTCACCTACTTTCCAAGGGGACATCAGCAGCGTAGTGGATGAACACTTCTCCAGAGCTCTGAGCAATATCAAG
AGCCCCCAGGAATTGACCCCCCTCGAGTCAGAGTGAAGGTGTGATGCTGAAAAACGATGATAGCATGTCTCCAAAT
CAGTGGCGTTACTCGTCTCCATGGACAAAGCCACAACCAGAAGTACCTGTCACAAACCGTGCCGCCAACTGCAAC
TTGCATGTGCCTGGTCCCATGGCTGTGAATCAGTTCTCACCGTCCCTGGCTAGGAGGGCCTCTGTTTCGGCCTGGG
GAGCTGTGGCATTCTCTCCTCCCTGGCGGGCACCAGCTCCTTAGAGCCTGGCTACTCTCATCCCTTCCCCGCTCGG
CACCTGGTTCCAGAGCCCCAGCCTGATGGGAAACGTGAGCCTCTCCTAAGTCTCCTCCAGCAAGACAGATGCCTA
GCCCCGTCTCAGGAATCTGCCGCCAGGGAGAATGGCAACCCTGGCCAGATAGCTGGAAGCACAGGGTTGCTCTTC
AACCTGCCTCCCGGCTCAGTTCACTATAAGAACTATATGTATCTCGTGGATCTGCCAGTACCAGCCTTCCAAAT
GAAACTCTTTCAGAGTTAGAGACACCTGGGAAATACTCACTTACACCACCAAACCACTGGGGCCACCCACATCGA
TACCTGCAGCATCTTT**TAG**TCAAGTTGGAGGAGAAAGACAACACTTGGTCTAAGACACGGCAGCAAGACATCCCTG
CATATTGTTCCAGATAAAAAATGAAAGCTGCTCACACCCACTTGCCCTCCCCAATCTGTAAACAGCTTCGTGTCTA
GTATGAGCTCAGTACTTGCCCTGTGAAAATCCCAGAAGCCCCCGCTGTCAATGTTCCCATCCACACCCTGCTTG
CTCCTGTGTAAACAGCTCAGATGATGAATAATAATAAACTGTACTTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6329C

CTCTTTTGCAGTCAGCCTGAACGGGGGCCAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGCACCCACATCCCTGGAAGCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTACAGGGAACCCAGCTGAGTTCGT
CGTGAACACGAGCAATGCGGGAGCTGGTGCCCTGTCGGTGACCATTGACGGCCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGCGGCCCCCTACCACATTGGGGGCGAGCCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCAGCATGGGGCCCCGGG
TCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGGTTTCATGGCCCAAGGACCCCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCCAGGCAGCCCCCTACCGCGTTGTGGTGCCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCCGCTACCCAAGCAGCCCCGCCCTCTTCCCCTCAACCCCGGCCC
AGGCCGCCCTGGCCGCCCGCCTGTCACTGCAGCCGCCCTGCCCTGTGCCGTGCTGCGCTCACCTGCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTTCACCTGGGCAGAGGGAGCCATTTGGTGGCGCTGCTTGTCTTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGGTCTGTACACAACCACCCACTAGTTCTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATTC

FIGURE 6330A

[illegible]

[illegible]

6853/6881
FIGURE 6331

MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKAETSEGGSGSAPAVP
EASASPKQRRSIIRDGRGPMYDDPTLPEGWTRKLKQRKSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSL
DPNDFDFTVTGRGSPSRREQPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMP
FQTSPGGKAEGGGATTSTQVMVIKRPGRRKAEADPQAIPKKRGRKPGSVVAAAAAEAKKKAVKESSIRSVQETV
LPIKKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLKTKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHHSES
PKAPVPLLPLPPPPPEPESEDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAAEKY
KHRGEGERKDIVSSMPRPNREEPVDSRTPVTERVS

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FIGURE 6332

CGCGGACCCGGCCGGCCAGGCCCCGCGCCGCGCGGCCCTGAGAGGCCCCGGCAGGTCCCGGCCCGGCGGCGGC
AGCC**ATG**CGCCGGGGGGCCGGGCCCCGGGGAGCCCGCAGCCCCGGCGCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCGCCGCCCTGAT
CGTGCGCGACACAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCCCCGTGTGGCCGACCTCGTGACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCCGAGGCCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCCTGGAGCCCCGGAAGTTGCCATCCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCAGACCCATTACAGGCCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCTTCTTCTACCAAGCCAGGCCCAGAGAGCTCAGTGTCCCTCCTGCAGGGAGCCCGCCCTCTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCCG
GGCAATTACAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCCGTTTACGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGCGGGGCACCCCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCTGGGCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGGCCGGGCATTTGGAGGCCGCCAGCTGCATCCCCCTTCCCCGCAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCCCTGGCAGCGCCATCAGGAGCCAGTGCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACCAGCCCTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCAGGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCGTAGAGCCACCGCAGATTATCATCAACCCTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCTGTCAGCTCCCTCCCAGGCTTGGGCCCTGGAACA
GGACAGGCAGGGGCCCGAAGAAAGTGATGAATTTACAGAGCT**AGAT**GTGTTACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCCCTCAGCACTCTGCCGCGAGTGGGGGTGGGG
CCCATGCCCGCGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCCAGGCCTCTGGCAGCAGCTCTTTGCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAAATTTTTTAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCGTGTTTCAAAAAGAAAAACCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTTCACTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTGAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTCATGTAACCGAGTGTCTCTTTCGTGTCCAAAAAGTAGCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTACGCCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCCTTGAGTAATAAAAACGTATGTTCCCTAAAAA

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FIGURE 6333

MAGGGPGGEPAAPGAQHFLYEVPFWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFFGS
QTHSGPELGLVPSPASLWPPPPSPAPSSTKPGPESSVSLQGARPSFPCWPLCEISRGTNHFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVD TDTFSFGVVVLETLAQRAVKTHGARTKYLKDLVEEEEAEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPELGLGLGQLACCCLHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPSPQENSYVSSTGRAHSGAAPWQPLAAPSGASQAQAEQLQRGPNQPVESDES LGGLSAALR
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGS GPGSRPTAVEGLALGSSASSSSEPPQIIINPARQKMVQKLAL
YEDGALDSLQLLSSSSSLPGLGLEQDRQGPEESDEFQS

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FIGURE 6334A

GCGCGGTGCCGCCGGGAAAGATCGTCTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTGCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGAGGGGACGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TTCCACGCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTCACTACCAGAACCACA
ACAAGACCCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGTGCCTGGCCGAGAACTCACTGG
GCAGTGCCCGGCATGCGTACTATGTACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACAGAAAGTACCGGATTACGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAGTGACACAATGGTGACCCAATGTGAGGCCCCGAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCTATGCCAATGGGACCCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTACGTGCCAGGCCCTCCTTG
ACCCCTCCTTGACAGCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCACTCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGTGCCTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTGCGAGAACACCAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACAGACCTCTACCACCCTCAAGCTGTGCCCCATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGGAAGGAAATGAGACCACCAATATGGTCATCAGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCAGTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACAGAGCCCCAGGTCATCTCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGGCGTGTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGGCCGCAACACCACCAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCGCCAGCGAGTTACCTTCAGCACCCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTCAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGCTCACCGGTACGTGCTCTCCTACCACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCCTTCA
ACCTTCGGGACCCCGAACTTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACATATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGGTGAAAACCTACAGTGTCTGCTCCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTTATCGGCTTTGTGAGTGCCATCATCCTCCTGCTCCTGCTCCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

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FIGURE 6334B

CGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGT
TCAACGAGGATGGTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCT
CAGGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCCCT
GGCCTTGGGATCCAGGCCCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCCTTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCACATGCCAGGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTGTTGGGCA
GAGAGGCTGTGGTTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGGCAAACCTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCCTCC
CAGCATCGCACTCTGGCAGCACCGCCTCTTCCGCGCGCCAGCCCACCCCATGGCCGGCTTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCCTGCCCCACTGGCCGGC

6858/6881
FIGURE 6335

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFQGIYRCFASNKLGTAMSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGPMFADRVTYQNHNKTLLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLQANDTGRYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDSKYFIEDGRLVIHSLDYSQGNYSVASTELDVV
ESRAQLLVGSPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKEGNETTNMVI TWKPLRWMDWNAPQVQY
RVQWRPQGTGRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQGKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFSTPEGVPGHPEALHLECQSNLTLRLWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPEL
RTHNLTDLSPHLRYPQLQATTKEGPGGEAIVREGGTMALSGISDFGNI SATAGENYSVVSVPKEGQCNRFRHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLES DNEEKAFGSSQPSLNGDIK
PLGSDDSLADYGGSVDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6336A

GCGCGGTGCCGCCGGGAAAG**ATGG**TCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAAGTGTGAGGCCAGTGGCAAGCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTCGCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCAGGCCACCAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGCAAGGGGACGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TTCCACGCCCAACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGCCCGGCATGCGTACTATGTACCGTGGAGGCTGCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCGCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTACGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAGTGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCTATGCCAATGGGACCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGACAGCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTTGAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACCCAGACCTTACCACCTCAAGCTGTGCGCCTATGTCCACTACACCTTAGGGTTACTGCCATAAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGGAAGGAAATGAGACCACCAATATGGTTCATCAGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTCACTACCGCTGCACTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCGCCAGCGAGTTACCTTCAGCACCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTCAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGTCAACCGCTACGTGCTCTCCTACCACCCCTGGATGAGGGGGGCAAGGGGGCAACTGTCTTTCA
ACCTTCGGGACCCCGAACTTCGGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCATATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGGTGAAGACTACAGTGTCTCTCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTTCATCGGCTTTGTGAGTGCCATCATCTCCTGCTCCTGCTCCTGCTCATCCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCATCGCTCAACGGGG

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FIGURE 6336B

ACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGTTCAACGAGGATG
GTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCTCAGGGGGCCACTT
CCCCCATCAACCCTGCCGTGGCCCTAGAATAGTTGGAGTCCAGGACAGGAGATGCTGTGCCCCCTGGCCTTGGGATC
CAGGCCCCCTCCCTCTCCAGCAGGCCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTGCCTCGGATCCCC
TTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGCTGCTCTGCCCCA
GCTTGGGCAGATCTCCACATGCCAGGGGCCCTTTGGGTGCTGTTTTGCCAGCCCATTTGGGCAGAGAGGCTGTGG
TTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCCTGACTGGGGGCA
GACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCAGCCACTCCCCAGCCAGCCTGGCTG
GGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCAACCGGGATGGGA
GCCGGGCAAACCTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCCTCCAGCATCGCACT
CTGGCAGCACCGCCTCTTCCCGCCGCCAGCCACCCCATGGCCGGCTTTCAGGAGCTCCATACACACGCTGCCT
TCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACACCTCCTCCCACTG
CCCACTGGCCGGC

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FIGURE 6337

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFP TDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFQGIYRCFASNKLGTAMSH EIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTS DNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGPM PADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDLOANDTG RYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDP SLQPSITWRGDGRDLQELGDS DKYFIEDGRLVIHSLDYSDQGNYS CVASTELDVV
ESRAQLLVVGSPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGE GNETTNMVITWKPLRWMDWNAPQVQY
RVQWRPQGTRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFSTPEGVPGHPEALHLECQSNLSLLLWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDP EL
RTHNLTDLSPHLR YRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRFHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYSDNEEKAFGSSQPSLNGDIKPLGS
DDSLADYGGSDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6338

TCGTGTTTCATGGGAGCTCGTTTTCTTTTCCTCTAGGCAGAGAAGAGGCG**ATG**GGCGGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCCTTC
CTACTACACCACTTCTGACGCTGTCATTTCCACTGAGACCGTCTTCATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAACAATTCCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCCTGGAGCCTGGACCACAAGAGCGCCACGCAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCCATCATCCCGCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACTTGGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCC**TGA**GGGCGGCACCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGAAAAAA

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FIGURE 6339

MAAMASLGALALLLLSSLSRCSAEACLEPQITPSYYTTSDAVISTETVFIVEISLTCKNRVQNMALYADVGGKQF
PVTRGQDVGRYQVSWSLDHKSAHAGTYEVRFFDEESYLLRKAQRNNEDISIIPPLEFTVSVDHRGTWNGPWVSTE
VLAAAIGLVIYYLAFSAKSHIQA

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FIGURE 6340

GGGCGGGGGTTCGCGGTCCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTG
CGACCGCGCGCGTGCAGTACCGGGTCCGCGCCTGTCCCCGAACTTCGCACCCCGTCGAACTCTCGCGAGAGC
GTATCTGCGTGTTCGGGACGTGCGGAGGCTCTCACTTTCCGTCTATGGCGCTGAAGGTAGCGACCGTCGCCGGCAGC
GCCGCGAAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTTCTAGGCGCCACGAGGTCCCCTCG
AGGAACATCTTTTTCAGAACAAACAATTCCCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCA
GGGGATGGCATCGGGCCAGAGCTCATGCTGCATGTCAAGTCCGTCTTCAGGCACGCATGTGTACCAGTGGACTTT
GAAGAGGTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTTCGCAATGCCATCATGGCCATCCGCCGGAACCGC
GTGGCCCTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTCGCACAAATCTCGAAACAACATCCTTCGC
ACCAGCCTGGACCTCTATGCCAACGTCACTCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGCACAAGGACATA
GACATCCTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTG
GAGAGCCTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTGCCGAGTATGCCTTCAAGCTGGCGCAGGAGAGC
GGGCGCAAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAAACTGGGCGATGGGCTTTTCTCCAGTGCTGC
AGGGAGGTGGCAGCCCGCTACCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTG
TCCCGGCCCCAGCAGTTTGATGTCATGGTGATGCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGA
CTGGTCGGGGGCCAGGCCTTGTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGG
AACACCGGCAAGAGTATCGCCAATAAGAACATCGCCAACCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTG
GACCACCTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCTTGGCATCCATGGACAATGAGAATATG
CACACTCCGGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTCATCCGCCACATCCGCGTCATC
AACGGCCGGGCGGTGGAGGCCTAGGCTGGCCCTAGGACCTTCTTGGTTTGCTCCTTGGATTCCCCTTCCACTCC
AGCACCCCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCCTAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 6341

MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRRHTVTMIPGDGIGPELMLHVKS
VFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRRNRVALKGNIETNHNLPSSHKSRNNILRTSLDLYANVIHCKS
LPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVESLKIITKAKSLRIA EYAFKLAQESGRKKVTAVHKANIM
KLGDGLFLQCCREVAARYPQITFENMIVDNTTMQLVSRPQQFDVMVMPNLYGNIVNNVCAGLVGGPGLVAGANYG
HVVAVFETATRNTGKSIANKNIANPTATLLASCMMLDHLKLHSYATSIRKAVLASMDNENMHTPDIGGQGTSEA
IQDVIRHIRVINGRAVEA

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FIGURE 6342A

GCGGACGGACGCGCCTGGTGCCCCGGGGAGGGGCGCCACCGGGGAGGAGGAGGAGGAGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAG
TTCTCCACTTGGGCTGCCCCAAGAGGCCGCGACCCCTGGAGGGCCCTGAGCCCCACCGCACCAGGGGCCCCAGCAC
CACCCGGGGGCCTAAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGCCCCAGGGT
CAGAGCAACAATCCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACCAGCCCCAGTCCCTACGCGGCAGCCA
GCCCAGGTGACATGCCGGTGCTCTCCAGGCCCCGGCCCTGGCGGGGGAACACGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCTATGGAGCCCCACAAAGTCTACCCCTTGGTGCGCCAGTGCCCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCCGCCGGGGAGCCCCACGCAGGAGGCCTCCGGGGTTCGCGGCGGCCAAAGCTGGCATGAACCGGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCCCCGGGTCTGTGCCGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCCTTGGTGAGCCGCACCTTCCTGTGCGGTGTATGTGGCCCGCTGGACGGAAGGCTGGCCCGCTGCA
TCGTCCGCAAGGACCCGCGGGCTTTTGGCTGGCAGCTGCTGCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAACTGGCCCTGTGCTTCCGAGCCGTCTGGTGGCCCCACGCCTACC
GCCTCTACTTCTCCAGCAGACCTACTACCGGCTCAGCAACATGGACGGGCGGCTTCGCAACCCTGACCAGTCTC
TGACGGAGGACGTGGTGGCCCTTTCGCGCCTCTGTGGCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCTACACCCTGCTTCGGGCGGCCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTTCCTCACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCGGGGAGCTGGTGGCAGAGG
AGGCGCGGCGGAAGGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGGCCAACTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCTCGCAGATCAACCTCATCCTTC
TGGAACGCCTGTGGTATGTTATGCTGGAGCAGTTCTCATGAAGTATGTGTGGAGCGCTCGGGCCTGCTCATGG
TGGCTGTCCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCCGAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTGCTCGTACAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCGGTGCACGAGA
TGTTCCAGGTATTTGAAGATGTTACAGCGCTGTCACTTCAAGAGGCCAGGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGGTCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTCACGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGGAGGAAGGCATGCATCTGCTCATCACAGGCCCAATGGCTGCGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGCCACGTACGGTGGTGTGCTCTACAAGCCCCACCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACCAGGTGATCTACCCGGACTCAGTGGAGGACATGCAAAGGAAGGGCTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTGCTGCACCTGCACCACATCCTGCAGCGGGAGGGAGGTTGGGAGG
CTATGTGTGACTGGAAGGACGTCTGTGCGGTGGCGAGAAGCAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCAAGTACGCCCTCCTGGATGAATGCACCAGCGCCGTGAGCATCGACGTGGAAGGCAAGATCTTCCAGGCGG
CCAAGGACGCGGGCATTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAATAACACACACTTGCTAC
AGTTCGATGGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCCCCTGAGCCTGACGGAGGAGAAGC
AGCGGCTGGAGCAGCAGCTGGCGGGCATTCCCAAGATGCAGCGGCGCCTCCAGGAGCTCTGCCAGATCCTGGGCG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCCTGCCCCGCCCCAAGCTCGGATCACATGAAGGAGACAGCAGCACCCACCCATGCACG
CACCCCGCCCCCTGCATGCCTGGCCCCCTCCTCCTAGAAAACCTTCCCGCCCTCGGGAAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCTCGCCCTGTCCCTCCCACTCCCTGGGGGCGCTGTTCCACAGTGACTGGGCCCTGTCCAG
GGCAGTGAGTCTCTACTTTGCTCCGCGGAGGAAGCTGGGGTACAAGGGGCCAGTGCTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCTCCTCGTCAGTCTCTCAAAGACCCCATGGTCCATCCCTGAGGGTGGTCAGCCAAGGCTCCCGTTC
CGTGGGATGCCATAAAAGCCGCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCACA
AGAGCCCCAAAGATCCACAGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCCGC
CCCCTCGGCCCCCTACCCACCTCTTTCTACAGCCTAATTTATTGGATTCCCTATTTCGTAGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCACCGGTGCCAAA
CCCAGCCCCCTGCGGCCGTACCCCCGCCAGCCTACACTGCCAGCCGCCACCGGGGCACACGGGCCCTCTGCTTGCCA
GCCAGGAGTGCAGACACCATGTTCCAGCTCAGTGCCAAAGAGGGGTACCAGGGGGAGCTGTCTGCGGAGCCAG
CGCCTGCCCCGAGAGAGACCCACCGCCACCGTGTGCCTTTCCGGGCCCTCAGCCCTCGGGCCGGGCACCACCC

6867/6881
FIGURE 6342B

CAGTCCCCCAGTAAA

6868/6881
FIGURE 6343

MPVLSRPRPWGNTLKR TAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRVFLQRL
LWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSA
IRYLEGQLALSFRSRLVAHAYRLYFSQQTYRVSNM DGRLRNP DQSLTEDVVAFAASVAHLYSNLT KPLLDVAVT
SYTLLRAARSRGAGTAWPSA IAGLVVFLTANVLRAFSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHE
VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVPIITATGYSESDAEAVKKAALKKEE
ELVSETEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRELEDAQAGSGTI
GRSGVRVEGFLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNGCGKSSLFRILGGLWP
TYGGVLYKPPPQRMFYIPQRPYMSVGSRLDQVIYPDSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCD
WKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHTHLLQFDG
EGGWKFELDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGLQGAST

6869/6881
FIGURE 6344

TTTCCGGCCGCGGTATGAGGGGCGGGGCCGGGGCTGCTGTGGGAGAGTTCGGTTGCTGCGGCGGGGCCTGCACGT
TGACTGTGGGAACTCGGAAACAAGCTCACATCTTCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTTATGGCAACACCTTCTTTGTGGTTCT
CATTGTTCATCCTTGTGCTGTTGGTCATCGATGCCGTGCGCGAAATTCGGAAGTATGATGATGTGACGGAAGAGGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTTCCTTGCTGCTGTCCTTCCTGCTTAGACGCCTGGTGA CTCTCATTTCGCAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTCGGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGTACAGAGAAAGC
TGAAAACAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAAGGGCCTCCTTCTCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCCTGCTGCTTCCTGAGAGCCCGGCCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTCATCTCGGCCCTTGTCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTTCAAGATGCGTTTGCTGTCATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGCGGTGGGGCTGACTTCCTGTT
GGTTTGAAGCCCTTTTGTGTTTGGCCTCTGGGTGTTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAACAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTTTCATGGTGG

6870/6881
FIGURE 6345

MSLQWTAVATFLYAEVFVVLVLLCIPFISPKRWQKIFKSRLVELLVSYGNTFFVVLIVILVLLVIDAVREIRKYDD
VTEKVNLONNPGAMEHFHMKLFRAQRNLYIAGFSLLLSFLLRRLVTLISQQATLLASNEAFKKQAESASEAAKKY
MEENDQLKKGAAVDGGKLDVGNAEVKLEENRSLKADLQKLKDELASTKQKLEKAENQVLAMRKQSEGLTKEYDR
LLEEHAKLQAAVDGPMDKKEE

6871/6881
FIGURE 6346

GCTTCTGCGCGCCGGGGCCGCCTCTCCTTCCGCCGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCCGGAGGGCAGCCGGCGCCCGAAGCCAGGGTGCACTTCCGAGTGCGAGGTTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTGCCACTGCTTGCAACATTTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCTATGACCCTTACCTGATTGCCATGTCTTCAATTTACTTGGCCGGCAAAGTGGAA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGAGCCCCTGGAA
TTGGACTCCCGCTTCTGGGAACCTCCGGGACAGCATCGTGAGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTCACCGCTGGGCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCCCGCC
GAGGTCGAGGCTGAGAAGCCGTGGTGGCAGGTGTTTAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTTCAGATTTATACCATGGACACAGAGATCCCCTAAGGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCTTTGAGAGGACTTTGACTACAATACAGGCATGACATCAATGAAAGGAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCTTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAGGTGATACAAGTC

6872/6881
FIGURE 6347

MEAGVKLGMRSIPIATACTIYHKFFCETNLDAYDPYLIAMSSIYLAGKVEEQHLRTRDIINVSNNRYFNPSGEPL
LDSRFWELRDSIVQCELLMLRVLRQVVSFQHPPHYLLHYLVSLQNWLNRRHSWQRTPVAVTAWALLRDSYHGALCL
RFQAQHIHAVVLYLALQVYGVEVPAEVEAEKPWWQVFNDLTKPIIDNIVSDLIQIYTMDEIP

6873/6881
FIGURE 6348

TCTCTCCACAACTGCCCAGGAGTGAGTAGCTGCTTTCGGTCCGCCGGACACACCGGACAGATAGACGTGCGGAC
GGCCCACCACCCAGCCCGCCAAGTAGTCAGCCTGCGCCTGGCGCCTCCCCTCTCCAGGTCCATCCGCCATGTGG
CCCCTGTGGCGCCTCGTGTCTCTGCTGGCCCTGAGCCAGGCCCTGCCCTTTGAGCAGAGAGGCTTCTGGGACTTC
ACCCTGGACGATGGGCCATTTCATGATGAACGATGAGGAAGCTTCGGGCGCTGACACCTCGGGCGTCTTGGACCCG
GACTCTGTACACCCACCTACAGCGCCATGTGTCTTTTCGGCTGCCACTGCCACCTGCGGGTGGTTTCAGTGCTCC
GACCTGGGTCTGAAGTCTGTGCCCAAAGAGATCTCCCCTGACACCACGCTGCTGGACCTGCAGAACAACGACATC
TCCGAGCTCCGCAAGGATGACTTCAAGGGTCTCCAGCACCTCTACGCCCTCGTCTTGGTGAACAACAAGATCTCC
AAGATCCATGAGAAGGCCTTCAGCCCCACTGCGGAAGCTGCAGAAGCTCTACATCTCCAAGAACCACCTGGTGGAG
ATCCCGCCCAACCTACCCAGCTCCCTGGTGGAGCTCCGCATCCACGACAACCGCATCCGCAAGGTGCCCAAGGGA
GTGTTTCAGTGGGCTCCGGAACATGAACTGCATCGAGATGGGCGGGAACCCACTGGAGAACAGTGGCTTTGAACCT
GGAGCCTTCGATGGCCTGAAGCTCAACTACCTGCGCATCTCAGAGGCCAAGCTGACTGGCATCCCCAAAGACCTC
CCTGAGACCCTGAATGAACTCCACCTAGACCACAACAAAATCCAGGCCATCGAACTGGAGGACCTGCTTCGCTAC
TCCAAGCTGTACAGGCTGGGCCTAGGCCACAACCAGATCAGGATGATCGAGAACGGGAGCCTGAGCTTCCTGCCC
ACCCTCCGGGAGCTCCACTTGGACAACAACAAGTTGGCCAGGGTGGCCTCAGGGCTCCCAGACCTCAAGCTCCTC
CAGGTGGTCTATCTGCACTCCAACAACATCACCAAAGTGGGTGTCAACGACTTCTGTCCCATGGGCTTCGGGGTG
AAGCGGGCCTACTACAACGGCATCAGCCTCTTCAACAACCCCGTGCCTACTGGGAGGTGCAGCCGGCCACTTTTC
CGCTGCGTCACTGACCGCCTGGCCATCCAGTTTGGCAACTACAAAAAGTAGAGGCAGCTGCAGCCACCGCGGGGC
CTCAGTGGGGTCTCTGGGGAACACAGCCAGACATCCTGATGGGAGGCAGAGCCAGGAAGCTAAGCCAGGGCCC
AGCTGCGTCCAACCCAGCCCCCACCTCGGGTCCCTGACCCAGCTCGATGCCCCATCACCGCCTCTCCCTGGCT
CCCAAGGGTGCAGGTGGGCGCAAGGCCCGGCCCCCATCACATGTTCCCTTGGCCTCAGAGCTGCCCCTGCTCTCC
CTCCACAGCCACCCAGAGGCACCCCATGAAGCTTTTTTCTCGTTCACTCCCAAACCCAAAGTGTTCAAGTCTCCAG
TCCTAGGAGAACAGTCCCTGGGTGAGCAGCCAGGAGGCGGTCCATAAGAATGGGGACAGTGGGCTCTGCCAGGGC
TGCCGCACCTGTCCAGACACACATGTTCTGTTCCTCCTCCTCATGCATTTCCAGCCTTTCAACCCCTCCCCGACTC
TGCGGCTCCCCTCAGCCCCCTTGCAAGTTTCATGGCCTGTCCCTCCAGACCCCTGCTCCACTGGCCCTTCGACCA
GTCCTCCCTTCTGTTCTCTCTTTCCCCGTCCTTCCTCTCTCTCTCTCTCTCTTTCTGTGTGTGTGTGTGTGTG
TG
CTGTTCCCTCCATCTCTCCGAACCTGGCTTCGCCTGTCCCTTTCACTCCACACCCCTCTGGCCTTCTGCCTTGAGC
TGGGACTGCTTTCTGTCTGTCCGGCCTGCACCCAGCCCTGCCACAAAACCCAGGGACAGCGGTCTCCCCAGC
CTGCCCTGCTCAGGCCTTGCCCCAAACCTGTACTGTCCCGGAGGAGGTTGGGAGGTGGAGGCCAGCATCCCGC
GCAGATGACACCATCAACCGCCAGAGTCCAGACACCGGTTTTCTAGAAAGCCCCCTACCCCCACTGGCCCACTG
GTGGCTAGGTCTCCCTTATCCTTCTGGTCCAGCGCAAGGAGGGGCTGCTTCTGAGGTTCGGTGGCTGTCTTTCCA
TTAAAGAAACACCGTGCAACGTG

6874/6881
FIGURE 6349

TTTAGGGAGAAGAAAGCAACCCTTAAAAATAGAGGAAAATGAAGCTGCTTGGATTACCCTGTTGAAGTTCATCTCT
GCCTGTGCCATGCATGAAAAAATACTGGCAAAGTCTTCACTTACATGAGTGTTAGACTCCATGTTCCCAGTGGGT
CTCGGGGTTTCAGAACTGAGTGCTCTCATCCAAGCAATAGGAGCGTCGACCTCAGGAAAAGCCCAAGTGTTTTGTGT
GTATTTTGAGGAGTGGGTTATCTGTTGCACTGAGCCTCTCTGTGTATTTTCTTCTTTTCAGCAGAACAAAGGG
GAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAATAGAAG
ATTGTCGGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACC
TGCCTGAGAGCAGAGATGGAGGCCTTCTGTTCAC

6875/6881
FIGURE 6350

CAGAGTTTCGCCATGGCCCGGGGCCCCAAGAAGCACTTAAAGCGTGTTGCAGCGCCGAAGCATTGGATGCTTGAC
AAACTAACGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCCACAAGCTGAGGGAATGTCTTCCTCTGATCGTC
TTCCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAGGTAAAGAAGATATGTATGCAACGTTTCATCAA
ATTGATGGCAAGGTTTCGAGTGGATGTCACATAACCCTGCTGGATTTCATGGATGTCATCAGCATCGAGAAGACAGGT
GAACATTTCCGCCTGGTCTATGACACCAAGGGCCGTTTTGCTGTTACCCGCATCACAGTGGAAGAGGCAAAGTAC
AAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACC
ATCCGCTACCCAGATCCTGTTCATCAAGGTGAACGATACTGTGCAGATTGATTTAGGGACTGGCAAGATAATCAAC
TTTATCAAATTTGATACAGGCAATTTGTGTATGGTGATTGGTGGAGCCAACCTCGGTGCTGTTGGTGTGATCACC
AACAGGGAAAGACATCCTGGTTCTTTTGATGTGGTGCATGTGAAGGATGCCAATGGCAACAGCTTTGCCACGAGG
CTTTCCAACATTTTTGTCATTGGCAATGGCAATAAACCTTGGAATTTCCCTGCCAGGGGAAAGGGCATTGCACTT
ACTGTTGCTGAAGAGAGAGATAAGAGGCTGGCCACCAAACAGAGCAGTGGCTAAATTGCAGTAGCAGCATATCTT
TTTTTCTTTGCACAAATAAACAGTGAATTCTCGTTT

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FIGURE 6351

CTAGTTTCTCAGGATCATGTCTGTGAGCCAGGATTCCCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
ATGCGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGACATCTATGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTA
TAATGTAATCGCTCAAGCCCCGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGTAGACTACATGGGTGCCCTCCTGTATGCCTGTGTGTCAGGGGCACCAATATGCGTGTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTAGCCGTGTGTTTGATATGCTTAACCAGAGATA
CCTGTCTCCCAAATACATCAAGATGTTTGTACTGGATAAAGCTGATGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGAGCTACAATGCCTTCTGATAT
GCTTGAGGTGATCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
CATCCGCCAATTCTACATCAACGTGGAACAAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCTT
GACCATCACCCAGGAAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACTGAGAAGATGCATGCTCG
AGATTTCACTGTCTCCGCCATGCATGGAGATATGGACCAAAGGAGCAAGACGTGATCATGAGGGAGTTTCATTC
TGGCTCTAGCAGAGTTTTGATTACAACCTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACCTATATCCACAGAATCAGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCAAGACATTGAGATCTTCTACAACACCTCCAT
TGAGGAAATGCCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCCTGCCGCCAGCCCCAGCCAGGGCTCAATC
TCGGGGGTGCTGAGGAGCAGCAGGAGAGGGGAGTGAAGGGAGCCAAGGGATAGACTTGTCATTTTTTTTCTTTGA
ATAAATGTCACTTTTTTGAGGCCAAAA

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FIGURE 6352

ACTTCTGTTCCAAAGGCTGGGAAGAACTAAGCTGCCCCAGCTCCTCCCATTCTTGGGCAGGGCTCTTTCCTGTT
GTGTGTTTCCTCCAGGGCCTGTCCTGTACCGAGCTCTGTCTGTTCCAGCCTTCATCCTTCCTGGCTGTTGCTTTTC
CTCTTAAGGGCCTTAGAACTCTTGCTCTTCCTGGGCTGTGGGGGAATGAGTGTCTTGCCATTGCCAGCCTAAT
GCGCATGGTTTTCTGCCCCTGATAACAGGAGTGAGTGAGCCCCCTCAGACCTGCACTCTGGGTGTCTCCTGCTTTCA
AAGGTTCTTAATAGTGAATGCTTTAAAATTAAAGTCATCACAAAATGGAAGTTTTCCCAGGGTGGAAAACAAGAG
GAAGTGCTGCTGTAATTGGGAGCACAAAGGGGCCTCCCAAAAAGGAGCCCCACCTCAGCATCACTGCCTTATTTGT
GGCCTCCGTGGGGTGAGTGGGGTTCTCTCCTCCCTCCCTCCCTCCTCCTGGGGTGGGAGGGCGCTCCTATTCCCA
TCTTTGTGTTCCCTGGAGGCAGGTATCACAAAACATTTGTGAATTGCTTTAGGTGCAGGGACACCACCCACTCAG
GACTTTTCCCCATCATCCCTTCCATTGCCACACCCTAGATCCAGCCTCAGGAATAATAAGTTTTGAGAAAAGCA
GGCGGTAGAGCAGCAGCTTGGTGCTCTCAGCGGTGGCTGGCTGGCATTTTTCTCTAGCATTGTGGTGCCACCTTC
CCTCCTTGTCCCAAGGTTATAAGGCCTTGTCTTTCTCTTTGGAATCATAAAGTGGAACAGAGTCCCCAGAAGCTCG
TGTGGCCATTTCCGCCAGCATCACTCCCCGGTGCCTGTGGGGTCCCGGTGTACCTAATGGGAGAACGATCCCATG
TGCTAGCCAGAAATATACCGTCTCTTGAAGGAAAGCAGGAGCTCAGACTTTTAGAGCCAGCTGTGGCTTCGGACC
CAAGGCCTGACCTAGGCTGCTATCCTAATATTGCAGAAGGGGCCTCTCTTCCAAGCCCCACCCTAAGGGTTAGCC
CTTGCCCAAATCTTTTGCCATCTGGTCCCAGCTAGGCTTTTCTGACTAAATAAGCAATAAGAGGGTCTAAGCTGA
CTGAGTTGCAAGGACCCTTTCCACCCTCCCTTGGATCTCCATGTTTTTCCAGATGGAGGAAGAGCATGTGCCACC
CCCTGTCTAACAGGCTTGTCCAAGTGCTTGGTGTGGGACCCAAGACCAAAGCCCAGGATGGCTTGGTGGGAGTG
TCCCTGCTGCATCTGCATGAAGCCCCTGCTTTCTAGGCCTCACTCCCATCAGAACCCTGCCTGCCACCTGCAAC
TCCCCACAGCAATGCCATTCCCCTTGTCCCCAGAGAAGCTACTCAGCCAAACCTAGCCAGGGTCTGTTTCATGTA
GACCAGAGCCAGCCTAGTCATTATTTGCTGTGCGGTTTTCCAGTTTTCACTGTGTGTTAGGGCGAGGGATGATTGTA
AAATTTGCTCCTCAAAGGAATCAGGCCAGACTCAATTTTGGAGGGCAAGACAGGGAGGAGGCCGCTTCATCCAG
ACTCTCTTCTAGGGCTTCCCACCATCAGCCCCCTCCCACTTGAGACTGGTCTTCAGGAGGCAATAGGCCACCATGC
CTGGTCAGCATCAATTCAAGCCATGCCAGGAATCTGCCTACCTGCCAGGTTCAAGTTCCCTTTAAGGTGCCTCTTAA
GGGACACACTGTGTCTCTCTGATTGGGCTTCTAAATCAAAGCCTGATGTTTCGTGTCCCTCTCATAGGGGGAGCT
TTGGATACAGGACCAGTTTGGAAAAGGGTCAGGTAAGGGTTTTCCACTCTGCACATTGTAGAGGGGACGCTCGGTA
GCCCATGGGTCCCTTACTAAAGAGGTTGAGTGAATTTGCCTTCAGTTAACCTGGGACCTTCTGTTTAGCTTCCTT
CTGCTTCCCAAAGATTTTAAGCATTTTGTAAATGTATAAACTCACCTCTGGCAACAGTGGCCAGATGCTGCTTT
GTGCTATGTAAAGGCAGTCTTTCCCTGGGAAATGGATGCTATTCTATTCTGTGCCCCCTACCTGTTCTGAGGCT
TCATTTAGAAAGAAAATACCCTCAGAAGGCTGTCTGGCACCCAGTGTCTTAGCCAGGCCAAATATATGAGAAAGG
TAAGTCCATTTTCCCCTTCAGGTCTCAGTGGATGACTTAACCACTGCTGTCCCTTGGTCCCTTTTTCTAAACA
GGGTTTTAGTTCTGTCTTTTTATCCTTTTTTCTAAATGCTGGTAAATATCTACATTACAGCCAGGAAGAGGAGGCC
AGAGGTCGGGCCAGCTGCCCCATTCTTTTAACGTTGTAGGGCCTGCCCCTGAGTGAGCCTTCCTCTTTGGGCCT
CGTCAGCTTTTTTGCTTATCATATTCCATTTTGTGCCACTTTCCCCCTTCAAGATGCCATTTGGAGGGTAGGGGA
TCTGCTTTCCACTGTGAGTGGGCTATGAGATTCTGACTACCTTGCTTACAGATTGATGGTTTGATAAATTTGTTG
CATTCAAAACTTGAATGCAGGACGCCATTAAGTGTCTGTTTAAATTTTTGGATTATTTATATTACTTACAATT
AATTAATAAAAGTGGGTTTAAAAAACCT

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FIGURE 6353

AACCTACTACGTGCGGCGGCAGCTGGGGCGGGAAGGCGGGAGCTGGGGGCGCTGGGGGCGCTGCGGCCGCTGCGG
CCGCTGCAGCCGCTGCAGCGCCAGGGTCCACCTGGTTCGGCTGCACCTGTGGAGGAGGAGGTGGATTTTCAGGCTTC
CCGTAGACTGGAAGAATCGGCTCAAAACCGCTTGCCCTCGCAGGGGCTGAGCTGGAGGCAGCGAGGCCGCCGACG
CAGGCTTCCGGCGAGACATGGCAGGGCAAGGATGGCAGCCCGGCGGCAGGGCCTGGCGAGGAGCGCGAGCCCGCG
GCCGCAGTTCCCAGGCGTCTGCGGGCGCGAGCACGCCGCGACCCCTGCGTGCGCCGGGGCGGGGGGGCGGGGCCTC
GCCTGCACAAATGGGGACGAGGGGGGCGGGGCGGCCACAATTTGCGGCCAAACTTGACCGCGCGTTCCTGCTGTAA
CGAGCGGGCTCGGAGGTCCCTCCCGCTGCTGTTCATGGTTGGTTTCGCTAAACTGCATCGTCGCTGTGTCCAGAACA
TGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCA
CAACCTCTTCAGTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCCTGAGAAGA
ATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTC
TTTCCAGAAGTCTAGATGATGCCTTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGAATCACCCAGGCCATCTTA
AACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAATTGATTGGAGAAATATA
AACTTCTGCCAGA

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FIGURE 6354

TAGAGCAGACAAGCCCCCGCCGCTCCTCCCAGCAGCTTCTATCCCGGAAGTTGATGCCGAGCGCAGATCGCT
TGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTA
GAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAACATAAAAAGAAACGCCTAGTACAAAGTCCAAATT
CTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTTCAGCCATGCTCAGACAGTGGTTC
TTTGTGTAGGTTGTTCAACAGTGTTGTGCCAGCCTACAGGAGGAAAGGCCAGACTCACAGAAGGTATATCATTG
GCATTCTCCAACCCAGTGATGAGATTGATGATTATAAATGTCTCTATCTTCACTGAAAAGTTTAAAGAAATCTTA
ATGATTACCAAATAACTTATCTTTCATTGTGTGCTTTCAGTAAAGAATGGCCTGTTCAAATGGATATATTTATA
CTCTTGACCTTGCACTGAACCTCCATTGACTTATTTTTCTTAGTTTAGAACACATTTATTCACTTAGTTTGCTTAA
CTTGGAATAAATTAAGTCAGAATAGAAGCAAAAGAATAACTACATGTTATAGGACATGCAGATTTATTTATTTAT
TTATTTATTATTTTTTTTTTTTTTATTAGGAGTCTCGCTCTGTCAACCAGGCTGGAGTGCAGTGGCGCCATCTCAGC
TCACTGCAACTTCTGCCTCCCCGGTTCAAGTGATTCTCTTGCCTCTGCCTCCCAAGTAGCTGGGACCACAGGCGC
GTGCCACCATGCCTGGCTAATTTTTTGTATTTTTTAGTAGAGGTGGGGTTTCACTGTGTTAGCCAGGATGGTCTTG
ATCTCCTGACCTCATGGTCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGA

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FIGURE 6355A

CACAACCGTGACAGACTGCCATTCTGAGTCTCTTCTGGCCATGGGCCCCCGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCCTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTTGTGTTCCGGGCGCGGCGCGCCGCGCACCGCTCATTCACCGAGGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGCGCGCTTTTTTGGAGCAGATTGGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCTGGCCCCGGGTGCAGTCTGGG
AGGTGGATTTTCCGGACGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTTCGAGAGGGGGGAGCCCGCGTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCGCGGGGCTCGACGCAGCCTCACCCACTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGGAGAGTGGCGCGGCCCTCATCGCCTGGGCAGCCAGCGTTTTTCCTA
ATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCTCAAGACGCCTTTGGCCAGTTCATGCTGCAACATTTTCGGC
AGCTAAACTCCCCCTGCATGGCCTGGAGCGTTTTCTTGACGTGGAGGCGCAGCGGCGCGCTTCCTTCAAGCTG
GCTGGACCGCCTGCGGTGCCGTGGACATGAATGAATTCTATCACTGCTTTCTTCCCGCAGAAGAACGCCGGCGGG
TGGAAAATATTGAACCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGCGCCATTATTTTATTCTGGCAGCTT
CTAGGGGAGACACCCTCTCCACACCCTAGTGTTTTCCATCCTCAGAGGCATTTCTCGCGTAAATCCTGCTTCGC
CTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCT
CTGTCTTCTTGAGCCCAGACGTTATTCTCAGTGACAGGAGGATTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTTCACTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCCTTTATCACACCATGACAAGACTCTCAGAGAGTCGGGTTCTGGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTGGGGGTTCTCCAGCTTCATTTTTTTAAGAGTGAGGATAATAACACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCCACTTTGTGTTGTTGGCGGCATTCAACAACAGAAG
TGTCTGTGTCAGAAATCAGGAATATTTGTTTGTGTATGGGGGTGCAAGCGTGGTGGAACCTGTACTAAGTGAAGTGGC
ATTTCTCCATGTAGGGACAATGGCTTGGGTGAGGATCCAGTGGAGGGAGAAGTACCTGAAGCCCGGCATTCTC
ACAGTGCCCTGCACTTGGCAAGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAACTCTG
TGCTCTTTCTGAGACCAATCTCTTGTGATTCTCTGGGAGTCAGTAGACATCCAGCCTCCCATTACCCCCAAGGT
ACTCCACACAGCTCATGTGCTCAATGGAAAGCTGTTACTGGTTGGAGGATCTGGATTCACTTCTCTCATTTT
CTGGAGTGACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTGCCATGGC
CATTAATGTTACACAACCATACTAGTATCCTTCTCTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCTTTGGTACCTACTTCAACCCCCATACAGTCACATTAGACCTTTCTTCTTAAAGTGCTGGGCAGT
AAGGACTGGACTAATATTGAGGACCCACTAAAGTAGACAATAAAGTTTTCCACAATAGGATGACCTCTAGCTA
TAGATACTGCCACTCCTCCTTTCCCATCCTTTTTTCCCTTAGCACTATTCAAGTGCAAAAAGTGAAAAAGTTG
GTAAATAGGTAAATACCTAGAAACAATCACTACAGAAAACAGCTGAAGACAGTGGCCATGCAGTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTCTAATCTAAGTTCGTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAACAAT
TTCCCAATCCCAGGCCTTGTGATTGAGATGGTACCTTAGAAAAAGTTACACGCAGTTCGGTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAAACATTGTCCTGTTTGTGCAACAGAAAAC
TCGGATAGTTTTAACAACAGGAAACACTTGTAGGACTTCCTTTACCAACATACTTTTTAAATGTTTTGCTATTGG
TTCCATATTTATTTAGATTTATAAGTGTCAATAAAGCAAACCTTTGATGCCTCAATTCAATTTGCACGGGGTATA
ATAATGTTTTGTTCCAGATATACTCTCCACCTTTCAGTGTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTTGGTTGAGTTCCACCAGTCAGAGGCACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTCCCAATTCTTCCCTGTTGGTTTGCAAGTTGGCAGTGGCAGCATTTCTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTCTGAAGACAGAGTTCTAATTCTGCATCATCCCAGGTTTCAG
TAATTGTTTCTTTACTTTCACCTTTTCAGGCCTAGGAGTTGTGATGGCTCTTTGCTAGACCTGAACTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATTCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAATGTAGATGTAGAACATTTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTCCCTTAACCCCTACTCAGCCCCCTTAGT
TAGCATCCCATTAACTCAATTATCCCTTTTATATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTATCCTTAAATTTGAGCCTTAATTTGTCATCTAAATTATGCATACCTTGTGAAATATACACCTCAA
AAAATGTAGTGGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTTCTTCTTAGTCCTAGAAACCTTAGTAGTTT

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FIGURE 6355B

TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTTCTATTAATTT
TGCAATAAAATGGATGTGAAAGGTGATTAATATAAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCACGCCTATAATTCCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
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